

AMS Advanced Change Type Examples

AMS Advanced Change Management User Guide



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AMS Advanced Change Management User Guide: AMS Advanced Change Type Examples

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Examples

Topics

· review-walkthroughs

review-walkthroughs

Topics

- Update EC2 Instance Metadata Service (IMDS) Region Setting
- Create a computer object's SPN
- Delete target groups (review required)
- Create application load balancer (ALB)
- Update application load balancer (ALB)
- Create listener
- High availability one-tier stacks: Creating
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- Disassociate resolver rules from VPC
- Update Enhanced Monitoring
- Associate VPC with Resolver Rule
- Deploy AMS pattern (review required)

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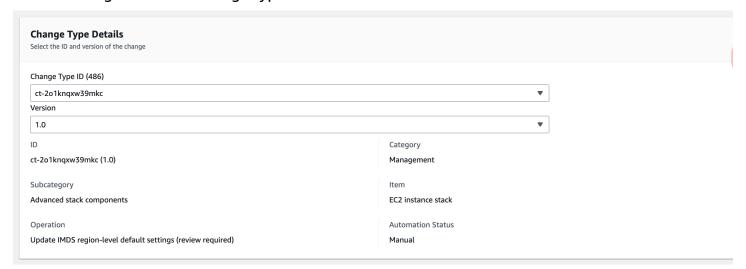
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- Confirm offboarding
- Management account: Offboard Application account
- Deploy AMS Resource Scheduler Solution
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- Delete or deactivate access key
- Create access key

- Enable Detailed Monitoring
- Update the DeleteOnTermination option (review required)
- Update RDS maintainance window (review required)
- Update RDS performance insights (review required)
- Create security group (review required)

Update EC2 Instance Metadata Service (IMDS) Region Setting

Updating EC2 instance IMDS region setting with the console

The following shows this change type in the AMS console.



How it works:

- Navigate to the Create RFC page: In the left navigation pane of the AMS console click RFCs to open the RFCs list page, and then click Create RFC.
- 2. Choose a popular change type (CT) in the default **Browse change types** view, or select a CT in the **Choose by category** view.
 - Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.

To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.

- Choose by category: Select a category, subcategory, item, and operation and the CT details box opens with an option to **Create with older version** if applicable. Click **Create RFC** to open the **Run RFC** page.
- 3. On the Run RFC page, open the CT name area to see the CT details box. A Subject is required (this is filled in for you if you choose your CT in the **Browse change types** view). Open the **Additional configuration** area to add information about the RFC.
 - In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the Additional configuration area.
- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial Run output.
- 5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Updating EC2 instance IMDS region setting with the CLI

How it works:

- 1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id ID command with the returned RFC ID. Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

```
aws amscm list-change-type-version-summaries --filter
 Attribute=ChangeTypeId, Value=CT_ID
```



You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \" : [\"email@example.com\"]}}" to the RFC parameters part of the request (not the execution parameters). For a list of all CreateRfc parameters, see the AMS Change Management API Reference.

INLINE CREATE:

Issue the create RFC command with execution parameters provided inline (escape quotation marks when providing execution parameters inline), and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws amscm create-rfc --change-type-id "ct-2o1knqxw39mkc" --change-type-version "1.0"
   --title "Update IMDS region-level default settings" --execution-parameters "{\"Region
\":\"us-west-2\",\"HttpEndpoint\":\"Enabled\",\",\"HttpPutResponseHopLimit\":2,
\"InstanceMetadataTags\":\"Enabled\",\"Priority\":\"High\"}"
```

TEMPLATE CREATE:

1. Output the execution parameters for this change type to a JSON file; this example names it UPdateEC2ImdsRegionParams.json:

```
aws amscm get-change-type-version --change-type-id "ct-2o1knqxw39mkc"
   --query "ChangeTypeVersion.ExecutionInputSchema" --output text >
   UPdateEC2ImdsRegionParams.json
```

2. Modify and save the UPdateEC2ImdsRegionParams file, retaining only the parameters that you want to change. For example, you can replace the contents with something like this:

```
{
"Region": "us-west-2",
"HttpEndpoint": "Enabled",
"HttpPutResponseHopLimit": 2,
"InstanceMetadataTags" : "Enabled",
"Priority": "High"
}
```

3. Output the RFC template to a file in your current folder; this example names it UPdateEC2ImdsRegionRfc.json:

```
aws amscm create-rfc --generate-cli-skeleton > UPdateEC2ImdsRegionRfc.json
```

4. Modify and save the UPdateEC2ImdsRegionRfc.json file. For example, you can replace the contents with something like this:

```
{
    "ChangeTypeVersion": "1.0",
    "ChangeTypeId": "ct-2o1knqxw39mkc",
    "Title": "Update IMDS region-level default settings"
}
```

5. Create the RFC, specifying the UPdateEC2ImdsRegionRfc file and the UPdateEC2ImdsRegionParams file:

```
aws amscm create-rfc --cli-input-json file://UPdateEC2ImdsRegionRfc.json --
execution-parameters file://UPdateEC2ImdsRegionParams.json
```

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

Tips

You can set default values for the instance metadata options at the account level for each AWS Region. When an instance is launched, the instance metadata options are automatically set to the account-level values. You can change these values at launch. Account-level default values do not affect existing instances. For more information about Amazon EC2 IMDS settings, see Where to configure instance metadata options

Create a computer object's SPN

Creating a computer object's SPN from an AMS-managed AD with the console

The following shows this change type in the AMS console.

▼ Create service princ	ipal names		
ID	Execution mode	Version	
ct-Oulaleq7ohuyq	Automated	1.0 (only version)	
Classification			
Deployment -> Directory Service	-> Computer object -> Create service princip	pal name (SPN)	
Description			
Create service principal names (S	PNs) for provided group managed service ac	counts (gMSAs).	

- Navigate to the Create RFC page: In the left navigation pane of the AMS console click RFCs to open the RFCs list page, and then click Create RFC.
- 2. Choose a popular change type (CT) in the default **Browse change types** view, or select a CT in the **Choose by category** view.
 - Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.
 - To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.
 - Choose by category: Select a category, subcategory, item, and operation and the CT details box opens with an option to Create with older version if applicable. Click Create RFC to open the Run RFC page.
- 3. On the **Run RFC** page, open the CT name area to see the CT details box. A **Subject** is required (this is filled in for you if you choose your CT in the **Browse change types** view). Open the **Additional configuration** area to add information about the RFC.
 - In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the **Additional configuration** area.
- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.
- 5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Creating a computer object's SPN from an AMS-managed AD with the CLI

How it works:

- 1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id *ID* command with the returned RFC ID.

```
Monitor the RFC: aws amscm get-rfc --rfc-id ID command.
```

To check the change type version, use this command:

```
aws amscm list-change-type-version-summaries --filter
Attribute=ChangeTypeId, Value=CT_ID
```

Note

You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \": [\"email@example.com\"]}}" to the RFC parameters part of the request (not the execution parameters). For a list of all CreateRfc parameters, see the AMS Change Management API Reference.

INLINE CREATE:

Issue the create RFC command with execution parameters provided inline (escape quotation marks when providing execution parameters inline), and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws amscm create-rfc --change-type-id "ct-0ulaleq7ohuyq" --change-type-version "1.0"
--title "Create service principal names" --execution-parameters "{ \"DocumentName\":
\"AWSManagedServices-CreateADSPN-Admin\", \"Region\": \"us-east-1\", \"Parameters
\": { \"ServiceType\": \"MSSQLSvc\", \"Hostnames\": \"server1, server2\",
\"ServiceAccountName\": \"gmsa_sql\" } }"
```

TEMPLATE CREATE:

 Output the execution parameters JSON schema for this change type to a file; this example names it ComputerObjectCreateSpnParams.json:

```
aws amscm get-change-type-version --change-type-id "ct-0ulaleq7ohuyq"
   --query "ChangeTypeVersion.ExecutionInputSchema" --output text >
   ComputerObjectCreateSpnParams.json
```

Modify and save the ComputerObjectCreateSpnParams file. For example, you can replace the contents with something like this:

```
{
    "DocumentName": "AWSManagedServices-CreateADSPN-Admin",
    "Region": "us-east-1",
    "Parameters": {
        "ServiceType": ["HOST"],
        "Hostnames": "server1",
        "ServiceAccountName": "gmsa_host",
        "Port": ["1433"],
        "ApplicationAccountId": "123456789012"
    }
}
```

Output the RFC template to a file in your current folder; this example names it ComputerObjectCreateSpnRfc.json:

```
aws amscm create-rfc --generate-cli-skeleton > ComputerObjectCreateSpnRfc.json
```

3. Modify and save the ComputerObjectCreateSpnRfc.json file. For example, you can replace the contents with something like this:

```
{
"ChangeTypeVersion": "1.0",
"ChangeTypeId": "ct-0ulaleq7ohuyq",
"Title": "Create service principal names"
}
```

4. Create the RFC, specifying the ComputerObjectCreateSpnRfc file and the ComputerObjectCreateSpnParams file:

aws amscm create-rfc --cli-input-json file://ComputerObjectCreateSpnRfc.json -execution-parameters file://ComputerObjectCreateSpnParams.json

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

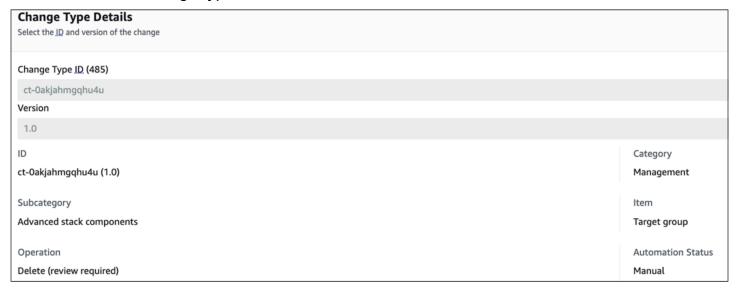
Tips

- For multi-account landing zone (MALZ), use this change type in the shared services account.
- For information about Directory Service, see the Directory Service Admin Guide.

Delete target groups (review required)

Delete a Target Group with the Console

Screenshot of this change type in the AMS console:





When using "review required" CTs, AMS recommends that you use the ASAP **Scheduling** option (choose **ASAP** in the console, leave start and end time blank in the API/CLI) as these CTs require an AMS operator to examine the RFC, and possibly communicate with you before it can be approved and run. If you schedule these RFCs, be sure to allow at least 24

hours. If approval does not happen before the scheduled start time, the RFC is rejected automatically.

How it works:

- 1. Navigate to the **Create RFC** page: In the left navigation pane of the AMS console click **RFCs** to open the RFCs list page, and then click **Create RFC**.
- 2. Choose a popular change type (CT) in the default **Browse change types** view, or select a CT in the **Choose by category** view.
 - Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.
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 - **Choose by category**: Select a category, subcategory, item, and operation and the CT details box opens with an option to **Create with older version** if applicable. Click **Create RFC** to open the **Run RFC** page.
- 3. On the **Run RFC** page, open the CT name area to see the CT details box. A **Subject** is required (this is filled in for you if you choose your CT in the **Browse change types** view). Open the **Additional configuration** area to add information about the RFC.
 - In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the **Additional configuration** area.
- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.
- 5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Delete a Target Group with the CLI

- 1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id ID command with the returned RFC ID.

Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

```
aws amscm list-change-type-version-summaries --filter
Attribute=ChangeTypeId, Value=CT_ID
```

Note

You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \": [\"email@example.com\"]}}" to the RFC parameters part of the request (not the execution parameters). For a list of all CreateRfc parameters, see the AMS Change Management API Reference.

INLINE CREATE:

Issue the create RFC command with execution parameters provided inline (escape quotation marks when providing execution parameters inline), and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws amscm create-rfc --change-type-id "ct-0akjahmgqhu4u" --change-type-version "1.0" --title "Delete Target Group" --execution-parameters "{\"Region\":\"us-west-2\", \"TargetGroupArns\":[\"arn:aws:elasticloadbalancing:us-west-2:123456789012:targetgroup/my-targets/73e2d6bc24d8a067\"],\"Priority\":\"High\"}"
```

TEMPLATE CREATE:

1. Output the execution parameters JSON schema for this change type to a JSON file; this example names it TgDeleteParams.json.

```
aws amscm get-change-type-version --change-type-id "ct-0akjahmgqhu4u" --query "ChangeTypeVersion.ExecutionInputSchema" --output text > TgDeleteParams.json
```

2. Modify and save the TgDeleteParams file. For example, you can replace the contents with something like this:

```
{
"Region": "us-west-2",
"TargetGroupArns": "arn:aws:elasticloadbalancing:us-
west-2:123456789012:targetgroup/my-targets/73e2d6bc24d8a067"
"Priority": "High"
}
```

3. Output the RFC template to a file in your current folder named TgDeleteRfc.json:

```
aws amscm create-rfc --generate-cli-skeleton > TgDeleteRfc.json
```

4. Modify and save the TgDeleteRfc.json file. For example, you can replace the contents with something like this:

```
{
"ChangeTypeVersion": "1.0",
"ChangeTypeId": "ct-0akjahmgqhu4u",
"Title": "Delete Target Group"
}
```

5. Create the RFC, specifying the TgDeleteRfc file and the TgDeleteParams file:

```
aws amscm create-rfc --cli-input-json file://TgDeleteRfc.json --execution-
parameters file://TgDeleteParams.json
```

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

Tips

This is a "review required" change type (an AMS operator must review and run the CT), which means that the RFC can take longer to run and you might have to communicate with AMS through the RFC details page correspondance option. Additionally, if you schedule a "review required"

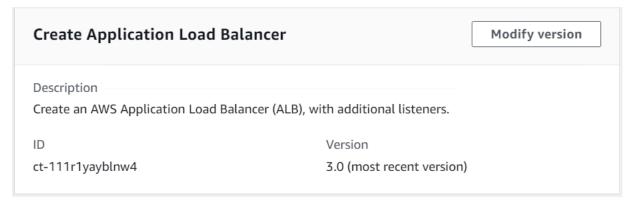
change type RFC, be sure to allow at least 24 hours, if approval does not happen before the scheduled start time, the RFC is rejected automatically.

- Deleting a target group also deletes any associated health checks.
- Deleting a target group does not affect its registered targets.
- For information about target groups, see ELB Target Groups.

Create application load balancer (ALB)

Creating an ALB with the console

The following shows this change type in the AMS console.



- 1. Navigate to the **Create RFC** page: In the left navigation pane of the AMS console click **RFCs** to open the RFCs list page, and then click **Create RFC**.
- 2. Choose a popular change type (CT) in the default **Browse change types** view, or select a CT in the **Choose by category** view.
 - Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.
 - To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.
 - Choose by category: Select a category, subcategory, item, and operation and the CT details box opens with an option to Create with older version if applicable. Click Create RFC to open the Run RFC page.

- 3. On the **Run RFC** page, open the CT name area to see the CT details box. A **Subject** is required (this is filled in for you if you choose your CT in the **Browse change types** view). Open the **Additional configuration** area to add information about the RFC.
 - In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the **Additional configuration** area.
- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.
- 5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Creating an ALB with the CLI

How it works:

- 1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id *ID* command with the returned RFC ID.

Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

```
aws amscm list-change-type-version-summaries --filter
Attribute=ChangeTypeId, Value=CT_ID
```

Note

You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \": [\"email@example.com\"]}}" to the RFC parameters part of the request (not

the execution parameters). For a list of all CreateRfc parameters, see the <u>AMS Change</u> Management API Reference.

INLINE CREATE:

Issue the create RFC command with execution parameters provided inline (escape quotation marks when providing execution parameters inline), and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws amscm --profile saml --region us-east-1 create-rfc --change-type-id
"ct-111r1yayblnw4" --change-type-version "3.0" --title 'Create ALB' --description
"My Test ALB" --execution-parameters ""{\"Description\":\"Test ALB\",\"VpcId\":
\"VPC_ID\",\"Name\":\"TestStack\",\"StackTemplateId\":\"stm-sd7uv500000000000\",
\"TimeoutInMinutes\":360,\"LoadBalancer\":{\"SecurityGroups\":[\"SG_ID\"],\"SubnetIds
\":[\"SUBNET_ID\",\"SUBNET_ID\"]},\"Listener1\":{\"Port\":\"443\",\"Protocol\":
\"HTTPS\"}}"
```

TEMPLATE CREATE:

1. Output the execution parameters JSON schema for this change type to a JSON file. For example, you can replace the contents with something like this:

```
aws amscm get-change-type-version --change-type-id "ct-111r1yayblnw4" --query
"ChangeTypeVersion.ExecutionInputSchema" --output text > CreateAlbParams.json
```

2. Modify and save the CreateAlbParams file. For example:

```
"Description":
                    "ALB-Create",
                    "VPC_ID",
"VpcId":
"Name":
                    "My-ALB",
"StackTemplateId": "stm-sd7uv500000000000",
"TimeoutInMinutes" : 360,
"LoadBalancer" : {
    "SecurityGroups" : ["SG_ID"],
    "SubnetIds" : ["SUBNET_ID", "SUBNET_ID"]
 },
  "Listener1" : {
    "Port" : "443",
    "Protocol" : "HTTPS"
  }
```

}

3. Output the RFC template to a file in your current folder. For example, you can replace the contents with something like this:

```
aws amscm create-rfc --generate-cli-skeleton > CreateAlbRfc.json
```

4. Modify and save the CreateAlbRfc.json file. For example:

```
{
"ChangeTypeVersion": "3.0",
"ChangeTypeId": "ct-111r1yayblnw4",
"Title": "ALB-Create-RFC"
}
```

5. Create the RFC, specifying the CreateAlbRfc file and the CreateAlbParams file:

```
aws amscm create-rfc --cli-input-json file://CreateAlbRfc.json --execution-
parameters file://CreateAlbParams.json
```

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

Tips



As of version 3.0, you can also configure four CloudWatch alarms with customized alarm thresholds.

Note

To open ports and associate all the load balancer resources, submit a Management | Advanced stack components | Security groups | Update RFC.

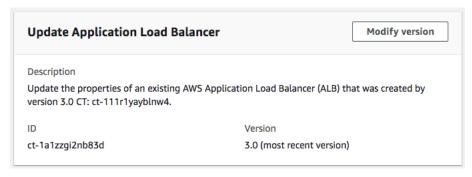
To learn more about AWS Application Load Balancers, see What Is an Application Load Balancer?

To create an Application Load Balancer target group, see Target Group | Create (For ALB).

Update application load balancer (ALB)

Updating an ALB with the console

The following shows this change type in the AMS console.



- 1. Navigate to the **Create RFC** page: In the left navigation pane of the AMS console click **RFCs** to open the RFCs list page, and then click **Create RFC**.
- 2. Choose a popular change type (CT) in the default **Browse change types** view, or select a CT in the **Choose by category** view.
 - Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.
 - To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.
 - **Choose by category**: Select a category, subcategory, item, and operation and the CT details box opens with an option to **Create with older version** if applicable. Click **Create RFC** to open the **Run RFC** page.
- 3. On the **Run RFC** page, open the CT name area to see the CT details box. A **Subject** is required (this is filled in for you if you choose your CT in the **Browse change types** view). Open the **Additional configuration** area to add information about the RFC.
 - In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the **Additional configuration** area.

- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.
- 5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Updating an ALB with the CLI

How it works:

- 1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id *ID* command with the returned RFC ID.

Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

```
aws amscm list-change-type-version-summaries --filter Attribute=ChangeTypeId, Value=CT\_ID
```

Note

You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \": [\"email@example.com\"]}}" to the RFC parameters part of the request (not the execution parameters). For a list of all CreateRfc parameters, see the AMS Change Management API Reference.

INLINE CREATE:

Issue the create RFC command with execution parameters provided inline (escape quotation marks when providing execution parameters inline), and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws amscm create-rfc --title Test-Update-ALB --change-type-id ct-1a1zzgi2nb83d --change-type-version 3.0 --execution-parameters '{"Description":"Updating Test ALB","VpcId":"VPC_ID","StackTemplateId":"stm-sd7uv500000000000","Name":"Test-Application-LoadBalancer","TimeoutInMinutes":360,"Parameters": {"TargetGroupHealthCheckPath": "/myAppHealth"}}'
```

TEMPLATE CREATE:

1. Output the execution parameters JSON schema for this change type to a JSON file. For example, you can replace the contents with something like this:

```
aws amscm get-change-type-version --change-type-id "ct-111r1yayblnw4" --query
"ChangeTypeVersion.ExecutionInputSchema" --output text > UpdateAlbParams.json
```

2. Modify and save the UpdateAlbParams file. For example:

```
{
"Description":
                    "ALB-Update",
                    "VPC_ID",
"VpcId":
"Name":
                    "My-ALB",
"StackTemplateId": "stm-sd7uv500000000000",
"TimeoutInMinutes" : 360,
"Parameters": {
    "LoadBalancerSecurityGroups": [
      "sq-1234567890abcdef0"
    ],
    "LoadBalancerSubnetIds": [
      "subnet-1234567890abcdef0",
      "subnet-1234567890abcdef1"
    "LoadBalancerDeletionProtection": "false",
    "LoadBalancerIdleTimeout": "60",
    "Listener1Port": "443",
    "Listener1Protocol": "HTTPS",
    "Listener1SSLCertificateArn": "arn:aws:acm:ap-
southeast-2:012345678912:certificate/e23c3545-e92d-4542-83b8-63483505b5a5",
    "Listener1SSLPolicy": "ELBSecurityPolicy-TLS-1-2-Ext-2018-06",
    "Listener2Port": "8080",
```

```
"Listener2Protocol": "HTTP",

"TargetGroupHealthCheckInterval": "10",

"TargetGroupHealthCheckPath": "/thing/index.html",

"TargetGroupHealthCheckPort": "8080",

"TargetGroupHealthCheckProtocol": "HTTP",

"TargetGroupHealthCheckTimeout": "10",

"TargetGroupHealthyThreshold": "2",

"TargetGroupUnhealthyThreshold": "10",

"TargetGroupValidHTTPCode": "200",

"TargetGroupDeregistrationDelayTimeout": "300",

"TargetGroupSlowStartDuration": "30",

"TargetGroupCookieExpirationPeriod": "20"

}
```

3. Output the RFC template to a file in your current folder. For example, you can replace the contents with something like this:

```
aws amscm create-rfc --generate-cli-skeleton > UpdateAlbRfc.json
```

4. Modify and save the UpdateAlbRfc.json file. For example:

```
{
    "ChangeTypeVersion": "3.0",
    "ChangeTypeId": "ct-111r1yayblnw4",
    "Title": "ALB-Update-RFC"
}
```

5. Create the RFC, specifying the UpdateAlbRfc file and the UpdateAlbParams file:

```
aws amscm create-rfc --cli-input-json file://UpdateAlbRfc.json --execution-
parameters file://UpdateAlbParams.json
```

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

Tips



Note

This change type is version 3.0, and can be used with the version 3.0 of the Create ALB change type (ct-111r1yayblnw4).

To learn more about AWS Application Load Balancers, see What Is an Application Load Balancer?

Create listener

Creating a Listener for an ALB or NLB with the Console

Screenshot of this change type in the AMS console:

Create a listener for Application Load Balancer or Network Load Balancer Create with older version				
ID	Execution mode	Version		
ct-14yjom3kvpinu	Automated	2.0 (most recent version)		
Classification Deployment -> Advanced stack	components -> Listener -> Create (for ALB or	NLB)		
Description	ication Load Balancer or Network Load Balan	cor		

How it works:

- 1. Navigate to the Create RFC page: In the left navigation pane of the AMS console click RFCs to open the RFCs list page, and then click Create RFC.
- 2. Choose a popular change type (CT) in the default Browse change types view, or select a CT in the **Choose by category** view.
 - Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.

Create listener Version January 23, 2025 22 To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.

- Choose by category: Select a category, subcategory, item, and operation and the CT details box opens with an option to Create with older version if applicable. Click Create RFC to open the Run RFC page.
- 3. On the **Run RFC** page, open the CT name area to see the CT details box. A **Subject** is required (this is filled in for you if you choose your CT in the **Browse change types** view). Open the **Additional configuration** area to add information about the RFC.
 - In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the **Additional configuration** area.
- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.
- 5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Creating a Listener for an ALB or NLB with the CLI

How it works:

- 1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id *ID* command with the returned RFC ID.

Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

aws amscm list-change-type-version-summaries --filter
Attribute=ChangeTypeId, Value=CT_ID

Create listener Version January 23, 2025 23



Note

You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \" : [\"email@example.com\"]}}" to the RFC parameters part of the request (not the execution parameters). For a list of all CreateRfc parameters, see the AMS Change Management API Reference.

INLINE CREATE:

Issue the create RFC command with execution parameters provided inline (escape quotation marks when providing execution parameters inline), and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws --profile saml --region us-east-1 amscm create-rfc --change-type-id
 "ct-14yjom3kvpinu" --change-type-version "2.0" --title "TITLE" --execution-parameters
 "{\"Description\":\"DESCRIPTION\", \"VpcId\":\"VPC_ID\", \"StackTemplateId\": \"stm-
u5n0r6aacdvdwthhm\", \"Name\":\"NAME\", \"TimeoutInMinutes\":60, \"Parameters\":
 {\"LoadBalancerArn\":\"LB-ARN",\"DefaultActionTargetGroupArn\":\"TARGET-GROUP-ARN",
\"Port\":\"80\",\"Protocol\":\"HTTP\"}}"
```

TEMPLATE CREATE:

Output the execution parameters JSON schema for this change type to a JSON file; this example names it CreateListenerParams.json:

```
aws amscm get-change-type-version --change-type-id "ct-14yjom3kvpinu" --query
 "ChangeTypeVersion.ExecutionInputSchema" --output text > CreateListenerParams.json
```

2. Modify and save the CreateListenerParams file. For example, you can replace the contents with something like this:

```
"Description":
                     "Listener-Create",
"VpcId":
                     "VPC_ID",
"StackTemplateId":
                    "stm-u5n0r6aacdvdwthhm",
"Name":
                     "My-Listener",
```

Create listener Version January 23, 2025 24

3. Output the RFC template to a file in your current folder; this example names it CreateListenerRfc.json:

```
aws amscm create-rfc --generate-cli-skeleton > CreateListenerRfc.json
```

4. Modify and save the CreateListenerRfc.json file. For example, you can replace the contents with something like this:

```
{
    "ChangeTypeVersion": "2.0",
    "ChangeTypeId": "ct-14yjom3kvpinu",
    "Title": "Listener-Create-RFC"
}
```

5. Create the RFC, specifying the CreateListenerRfc file and the CreateListenerParams file:

```
aws amscm create-rfc --cli-input-json file://CreateListenerRfc.json --execution-parameters file://CreateListenerParams.json
```

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

Next Steps: Submit a Management | Other | Other | Update change type to open ports and associate security groups, see Other Other requests.

Tips



You can specify up to four Target IDs, Ports, and Availability Zones.

Create listener Version January 23, 2025 25

High availability one-tier stacks: Creating

Creating a high availability one-tier stack with the console

▼ Change type: Create high availability one-tier stack

Description

Use to create an Application Load Balancer and an Auto Scaling Group.

ID

2.0

ct-09t6q7j9v5hrn

2.0

Version

Execution mode

Automated

- Navigate to the Create RFC page: In the left navigation pane of the AMS console click RFCs to open the RFCs list page, and then click Create RFC.
- 2. Choose a popular change type (CT) in the default **Browse change types** view, or select a CT in the **Choose by category** view.
 - Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.
 - To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.
 - Choose by category: Select a category, subcategory, item, and operation and the CT details box opens with an option to Create with older version if applicable. Click Create RFC to open the Run RFC page.
- 3. On the **Run RFC** page, open the CT name area to see the CT details box. A **Subject** is required (this is filled in for you if you choose your CT in the **Browse change types** view). Open the **Additional configuration** area to add information about the RFC.

In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the **Additional configuration** area.

- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.
- 5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Creating a high availability one-tier stack with the CLI

How it works:

- 1. Use the Template Create method (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id *ID* command with the returned RFC ID.

Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

```
aws amscm list-change-type-version-summaries --filter
Attribute=ChangeTypeId, Value=CT_ID
```

Note

You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \": [\"email@example.com\"]}}" to the RFC parameters part of the request (not the execution parameters). For a list of all CreateRfc parameters, see the AMS Change Management API Reference.

TEMPLATE CREATE:

1. Output the execution parameters JSON schema for this change type to a file in your current folder; this example names it CreateOnetierStackParams.json.

```
aws amscm get-change-type-version --change-type-id "ct-09t6q7j9v5hrn"
   --query "ChangeTypeVersion.ExecutionInputSchema" --output text >
   CreateOnetierStackParams.json
```

2. Modify the schema, replacing the *variables* as appropriate.

```
{
    "Description":
                              "HA-One-Tier-Stack",
    "Name":
                              "One-Tier-Stack",
    "TimeoutInMinutes":
                              "360",
    "VpcId":
                              "VPC_ID",
    "ApplicationLoadBalancer": {
        "SubnetIds": [
                   "SUBNET_ID",
                   "SUBNET_ID"
        ]
    },
    "AutoScalingGroup": {
        "AmiId": "AMI-ID"
        "SubnetIds": [
                  "SUBNET_ID",
                  "SUBNET_ID"
        ]
    }
}
```

 Output the CreateRfc JSON template to a file in your current folder; example names it CreateOnetierStackRfc.json:

```
aws amscm create-rfc --generate-cli-skeleton > CreateOnetierStackRfc.json
```

4. Modify the RFC template as appropriate and save it. Reset the start and end times for a scheduled RFC, or leave off for an ASAP RFC.

```
{
"ChangeTypeVersion": 2.0",
"ChangeTypeId": "ct-09t6q7j9v5hrn",
"Title": "HA-One-Tier-RFC",
"RequestedStartTime": "2019-04-28T22:45:00Z",
```

```
"RequestedEndTime": "2019-04-28T22:45:00Z"
}
```

5. Create the RFC, specifying the CreateOnetierStackRfc.json file and the CreateOnetierStackParams.json execution parameters file:

```
aws amscm create-rfc --cli-input-json file://CreateOnetierStackRfc.json --
execution-parameters file://CreateOnetierStackParams.json
```

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

Tips



This is a large provisioning of resources, especially if you add UserData. The load balancer Amazon resource name (ARN) can be found through the Load Balancer page of the EC2 console by searching with the load balancer stack ID returned in the RFC execution output.

Create IAM entity or policy (review required)

Creating IAM resources (review required) with the console

▼ Change type: Create IAM Resource

Description

Create Identity and Access Management (IAM) user, role, or policy.

Version

ct-3dpd8mdd9jn1r

1.0

Execution mode

Manual

ID

- 1. Navigate to the **Create RFC** page: In the left navigation pane of the AMS console click **RFCs** to open the RFCs list page, and then click **Create RFC**.
- 2. Choose a popular change type (CT) in the default **Browse change types** view, or select a CT in the **Choose by category** view.
 - Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.
 - To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.
 - Choose by category: Select a category, subcategory, item, and operation and the CT details box opens with an option to Create with older version if applicable. Click Create RFC to open the Run RFC page.
- 3. On the **Run RFC** page, open the CT name area to see the CT details box. A **Subject** is required (this is filled in for you if you choose your CT in the **Browse change types** view). Open the **Additional configuration** area to add information about the RFC.
 - In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the **Additional configuration** area.
- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.
- 5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Creating IAM resources (review required) with the CLI

- 1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id ID command with the returned RFC ID.

Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

```
aws amscm list-change-type-version-summaries --filter
Attribute=ChangeTypeId, Value=CT_ID
```

Note

You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \": [\"email@example.com\"]}}" to the RFC parameters part of the request (not the execution parameters). For a list of all CreateRfc parameters, see the AMS Change Management API Reference.

Note

When pasting in a policy document, note that the RFC only accepts policy pastes up to 20,480 characters. If your file has more than 20,480 characters, create a service request to upload the policy and then refer to that service request in the RFC that you open for IAM.

INLINE CREATE:

Issue the create RFC command with execution parameters provided inline (escape quotes when providing execution parameters inline), and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws amscm create-rfc --change-type-id "ct-3dpd8mdd9jn1r" --change-type-version "1.0"
    --title "TestIamCreate" --execution-parameters "{\"UseCase\":\"IAM_RESOURCE_DETAILS\",
\"IAM Role\":[{\"RoleName\":\"ROLE_NAME\",\"TrustPolicy\":\"TRUST_POLICY\",
\"RolePermissions\":\"ROLE_PERMISSIONS\"}],\"Operation\":\"Create\"}"
```

TEMPLATE CREATE:

1. Output the execution parameters JSON schema for this change type to a file; example names it CreatelamResourceParams.json:

```
aws amscm get-change-type-version --change-type-id "ct-3dpd8mdd9jn1r"
   --query "ChangeTypeVersion.ExecutionInputSchema" --output text >
   CreateIamResourceParams.json
```

2. Modify and save the CreatelamResourceParams file; example creates an IAM Role with policy documents pasted inline.

```
{
  "UseCase": "IAM_RESOURCE_DETAILS",
  "IAM Role": [
    {
      "RoleName": "codebuild_ec2_test_role",
      "TrustPolicy": {
        "Version": "2008-10-17",
        "Statement": [
          {
            "Effect": "Allow",
            "Principal": {
              "Service": "codebuild.amazonaws.com"
            },
            "Action": "sts:AssumeRole"
          }
        ]
      },
      "RolePermissions": {
        "Version": "2012-10-17",
        "Statement": [
          {
            "Effect": "Allow",
            "Action": [
              "ec2:DescribeInstanceStatus"
            ],
            "Resource": "*"
          }
        ]
      }
    }
  ],
  "Operation": "Create"
```

}

3. Output the RFC template JSON file to a file named CreatelamResourceRfc.json:

```
aws amscm create-rfc --generate-cli-skeleton > CreateIamResourceRfc.json
```

4. Modify and save the CreatelamResourceRfc.json file. For example, you can replace the contents with something like this:

```
{
"ChangeTypeVersion": "1.0",
"ChangeTypeId": "ct-3dpd8mdd9jn1r",
"Title": "Create IAM Role"
}
```

5. Create the RFC, specifying the CreatelamResourceRfc file and the CreatelamResourceParams file:

```
aws amscm create-rfc --cli-input-json file://CreateIamResourceRfc.json --
execution-parameters file://CreateIamResourceParams.json
```

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

Tips

- After an IAM role is provisioned in your account, you must onboard the role in your federation solution.
- When pasting in a policy document, note that the RFC only accepts policy pastes up to 20,480 characters. If your policy has more than 20,480 characters, create a service request to upload the policy, and then refer to that service request in the RFC that you open for IAM.
- This is a "review required" change type (an AMS operator must review and run the CT), which
 means that the RFC can take longer to run and you might have to communicate with AMS
 through the RFC details page correspondance option. Additionally, if you schedule a "review
 required" change type RFC, be sure to allow at least 24 hours, if approval does not happen
 before the scheduled start time, the RFC is rejected automatically.

For information about AWS Identity and Access Management, see <u>AWS Identity and Access</u>
 <u>Management (IAM)</u> and for policy information, see <u>Managed policies</u> and inline policies. For information about AMS permissions, see <u>Deploying IAM resources</u>.

Continue rollback on custom AWS CloudFormation stack

Continue rollback a CloudFormation ingest stack failed update using the console

Continue Update Rollback

ID Execution mode Version

ct-32r1igwrwag4i Manual 1.0 (most recent version)

Classification

Management -> Custom Stack -> Stack From CloudFormation Template -> Continue update rollback (review required)

Description

Request a ContinueUpdateRollback operation for the specified CloudFormation stack that's in the UPDATE_ROLLBACK_FAILED state. Use this operation when a CloudFormation stack is stopped due to a failed update rollback and you need AMS engineers to complete the rollback and return the stack to its last known working state.

- 1. Navigate to the **Create RFC** page: In the left navigation pane of the AMS console click **RFCs** to open the RFCs list page, and then click **Create RFC**.
- 2. Choose a popular change type (CT) in the default **Browse change types** view, or select a CT in the **Choose by category** view.
 - Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.

To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.

- **Choose by category**: Select a category, subcategory, item, and operation and the CT details box opens with an option to **Create with older version** if applicable. Click **Create RFC** to open the **Run RFC** page.
- 3. On the **Run RFC** page, open the CT name area to see the CT details box. A **Subject** is required (this is filled in for you if you choose your CT in the **Browse change types** view). Open the **Additional configuration** area to add information about the RFC.
 - In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the **Additional configuration** area.
- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.
- 5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Continue rollback a CloudFormation ingest stack failed update using the CLI

- 1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id ID command with the returned RFC ID.

Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

aws amscm list-change-type-version-summaries --filter
Attribute=ChangeTypeId, Value=CT_ID



Note

You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \" : [\"email@example.com\"]}}" to the RFC parameters part of the request (not the execution parameters). For a list of all CreateRfc parameters, see the AMS Change Management API Reference.

INLINE CREATE:

Issue the create RFC command with execution parameters provided inline (escape quotation marks when providing execution parameters inline), and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws amscm create-rfc --change-type-id "ct-32r1igwrwag4i" --change-type-version "1.0"
 --title "Continue Update Rollback" --execution-parameters "{\"StackId\":\"STACK_ID\",
\"Region\":\"REGION\"}"
```

TEMPLATE CREATE:

Output the execution parameters JSON schema for this change type to a file in your current folder; this example names it ContinueRollbackParams.json:

```
aws amscm get-change-type-version --change-type-id "ct-32r1igwrwag4i"
 --query "ChangeTypeVersion.ExecutionInputSchema" --output text >
 ContinueRollbackParams.json
```

Modify and save the ContinueRollbackParams.json file. For example, you can replace the contents with something like this:

```
"StackId": "stack-a1b2c3d4e5f67890e",
    "Region": "us-east-1",
    "Priority": "High"
}
```

Output the JSON template for CreateRfc to a file in your current folder; this example names it ContinueRollbackRfc.json:

```
aws amscm create-rfc --generate-cli-skeleton > ContinueRollbackRfc.json
```

4. Modify and save the ContinueRollbackRfc.json file. For example, you can replace the contents with something like this:

```
{
  "ChangeTypeVersion": "1.0",
  "ChangeTypeId": "ct-32r1igwrwag4i",
  "Title": "Continue Update Rollback"
}
```

5. Create the RFC, specifying the ContinueRollbackRfc file and the execution parameters file:

```
aws amscm create-rfc --cli-input-json file://ContinueRollbackRfc.json --execution-parameters file://ContinueRollbackParams.json
```

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

Tips

For more information see Continue rolling back an update.

Manage the VPC Subnet IPv4 Address Auto Assigment

Manage VPC Subnet IPv4 Address Auto Assigment with the console

The following shows this change type in the AMS console.



How it works:

 Navigate to the Create RFC page: In the left navigation pane of the AMS console click RFCs to open the RFCs list page, and then click Create RFC.

- 2. Choose a popular change type (CT) in the default **Browse change types** view, or select a CT in the **Choose by category** view.
 - Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.
 - To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.
 - Choose by category: Select a category, subcategory, item, and operation and the CT details box opens with an option to Create with older version if applicable. Click Create RFC to open the Run RFC page.
- 3. On the **Run RFC** page, open the CT name area to see the CT details box. A **Subject** is required (this is filled in for you if you choose your CT in the **Browse change types** view). Open the **Additional configuration** area to add information about the RFC.
 - In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the **Additional configuration** area.
- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.
- 5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Manage VPC Subnet IPv4 Address Auto Assigment with the CLI

How it works:

- 1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id *ID* command with the returned RFC ID.

Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

```
aws amscm list-change-type-version-summaries --filter
Attribute=ChangeTypeId, Value=CT_ID
```

Note

You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \": [\"email@example.com\"]}}" to the RFC parameters part of the request (not the execution parameters). For a list of all CreateRfc parameters, see the AMS Change Management API Reference.

INLINE CREATE:

Issue the create RFC command with execution parameters provided inline (escape quotation marks when providing execution parameters inline) and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws amscm create-rfc --change-type-id "ct-1pqxczuw5uwu6" --change-type-version "1.0" --title "AWSManagedServices-ManageSubnetPublicIpv4AutoAssign" --execution-parameters "{\"DocumentName\": \"AWSManagedServices-ManageSubnetPublicIpv4AutoAssign\",\"Region \": \"us-east-1\",\"Parameters\": {\"SubnetId\": \"subnet-0a1b2c3d4e5f67890\", \"MapPublicIpOnLaunch\": true, \"AcknowledgeNetworkImpact\": [\"Yes\"]}}"
```

TEMPLATE CREATE:

1. Output the execution parameters JSON schema for this change type; this example names it ManageSubnetAutoAddressParams.json:

```
aws amscm get-change-type-version --change-type-id "ct-1pqxczuw5uwu6"
   --query "ChangeTypeVersion.ExecutionInputSchema" --output text >
   ManageSubnetAutoAddressParams.json
```

2. Modify and save the execution parameters JSON file. For example, you can replace the contents with something like this:

```
{
```

3. Output the RFC template JSON file; this example names it ManageSubnetAutoAddressRfc.json:

```
aws amscm create-rfc --generate-cli-skeleton > ManageSubnetAutoAddressRfc.json
```

4. Modify and save the ManageSubnetAutoAddressRfc.json file. For example, you can replace the contents with something like this:

```
{
    "ChangeTypeVersion" : "1.0",
    "ChangeTypeId" : "ct-1pqxczuw5uwu6",
    "Title" : "ManageSubnetAutoAddress"
}
```

5. Create the RFC, specifying the ManageSubnetAutoAddressRfc file and the ManageSubnetAutoAddressParams file:

```
aws amscm create-rfc --cli-input-json file://ManageSubnetAutoAddressRfc.json --
execution-parameters file://ManageSubnetAutoAddressParams.json
```

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

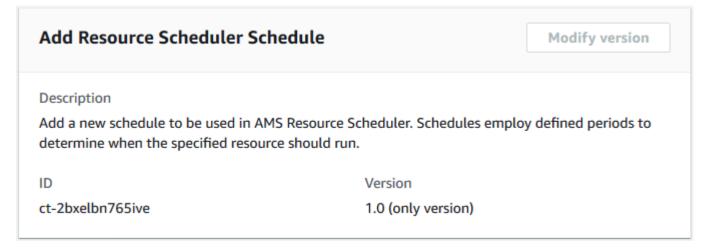
Tips

For general information on VPCs and subnet addressing, see <u>IP addressing for your VPCs and subnets.</u>

Schedule add

Adding an AMS Resource Scheduler schedule with the console

The following shows this change type in the AMS console.



How it works:

- 1. Navigate to the **Create RFC** page: In the left navigation pane of the AMS console click **RFCs** to open the RFCs list page, and then click **Create RFC**.
- 2. Choose a popular change type (CT) in the default **Browse change types** view, or select a CT in the **Choose by category** view.
 - Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.
 - To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.
 - **Choose by category**: Select a category, subcategory, item, and operation and the CT details box opens with an option to **Create with older version** if applicable. Click **Create RFC** to open the **Run RFC** page.
- 3. On the **Run RFC** page, open the CT name area to see the CT details box. A **Subject** is required (this is filled in for you if you choose your CT in the **Browse change types** view). Open the **Additional configuration** area to add information about the RFC.

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In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the **Additional configuration** area.

- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.
- 5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Adding an AMS Resource Scheduler schedule with the CLI

How it works:

- 1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id *ID* command with the returned RFC ID.

Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

```
aws amscm list-change-type-version-summaries --filter
Attribute=ChangeTypeId, Value=CT_ID
```

Note

You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \": [\"email@example.com\"]}}" to the RFC parameters part of the request (not the execution parameters). For a list of all CreateRfc parameters, see the AMS Change Management API Reference.

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INLINE CREATE:

Issue the create RFC command with execution parameters provided inline (escape quotes when providing execution parameters inline), and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws amscm create-rfc --change-type-id "ct-2bxelbn765ive" --change-type-version
"1.0" --title "Add a schedule for AMS Resource Scheduler" --execution-parameters
"{\"DocumentName\":\"AWSManagedServices-AddOrUpdateSchedule\",\"Region\":
\"us-east-1\",\"Parameters\":{\"Action\":[\"add\"],\"Name\":[\"Schedule01\"],
\"Description\":[\"Test schedule\"],\"Hibernate\":[\"true\"],\"Enforced\":
[\"false\"],\"OverrideStatus\":[\"running\"],\"Periods\":[\"period01\",\"period02\"],
\"RetainRunning\":[\"false\"],\"StopNewInstances\":[\"true\"],\"SSMMaintenanceWindow\":
[\"window01\"],\"TimeZone\":[\"Australia/Sydney\"],\"UseMaintenanceWindow\":[\"true\"],
\"UseMetrics\":[\"false\"]}}"
```

TEMPLATE CREATE:

1. Output the execution parameters JSON schema for this change type to a JSON file; this example names it AddScheduleParams.json:

```
aws amscm get-change-type-version --change-type-id "ct-2bxelbn765ive" --query
"ChangeTypeVersion.ExecutionInputSchema" --output text > AddScheduleParams.json
```

2. Modify and save the AddScheduleParams file.

```
{
  "DocumentName" : "AWSManagedServices-AddOrUpdateSchedule",
  "Region" : "us-east-1",
  "Parameters" : {
    "Action" : ["add"],
    "Name" : ["Schedule01"],
    "Description" : ["Test schedule"],
    "Hibernate" : ["true"],
    "Enforced" : ["false"],
    "OverrideStatus" : ["running"],
    "Periods" : [
      "period01",
      "period02"
    ],
    "RetainRunning" : ["false"],
    "StopNewInstances" : ["true"],
```

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```
"SSMMaintenanceWindow" : ["window01"],
    "TimeZone" : ["Australia/Sydney"],
    "UseMaintenanceWindow" : ["true"],
    "UseMetrics" : ["false"]
}
```

3. Output the RFC template to a file in your current folder; this example names it AddScheduleRfc.json:

```
aws amscm create-rfc --generate-cli-skeleton > AddScheduleRfc.json
```

4. Modify and save the AddScheduleRfc.json file. For example, you can replace the contents with something like this:

```
{
"ChangeTypeVersion": "1.0",
"ChangeTypeId": "ct-2bxelbn765ive",
"Title": "Add a schedule for AMS Resource Scheduler"
}
```

5. Create the RFC, specifying the AddScheduleRfc file and the AddScheduleParams file:

```
aws amscm create-rfc --cli-input-json file://AddScheduleRfc.json --execution-parameters file://AddScheduleParams.json
```

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

Tips

- Do not begin the maintenance window name with 'mw-'.
- For more information, see <u>How the AMS Resource Scheduler works</u>.
- AMS Resource Scheduler is based on the AWS Instance Scheduler; to learn more, see <u>AWS</u> Instance Scheduler.

Delete EBS snapshot (Review Required)

Use when you need extra help or communications about the snapshots to delete.

Deleting EBS snapshots with the Console (Review Required)

▼ Delete EBS Snapshot

Manual RFCs may take over 24 hours to complete

ID Execution mode Version

ct-1vrnixswq1uwf Manual 1.0 (only version)

Classification

Management -> Advanced stack components -> EBS Snapshot -> Delete (Review Required)

Description

Delete Elastic Block Store (EBS) snapshots. Once snapshots are deleted, they cannot be restored. Consider scheduling this RFC in case you decide to cancel the operation. If your snapshot is older than 30 days, we encourage you to use the automated CT (ct-30bfiwxjku1nu) for snapshot deletion, as it streamlines the process. However, if you are using the SnapshotCreationDate or SnapshotTag parameters, snapshots created within the last 30 days or snapshots is associated with any AMIs or created by AWS Backup service, use this manual CT option to ensure the correct snapshots are deleted.

How it works:

- Navigate to the Create RFC page: In the left navigation pane of the AMS console click RFCs to open the RFCs list page, and then click Create RFC.
- 2. Choose a popular change type (CT) in the default **Browse change types** view, or select a CT in the **Choose by category** view.
 - Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.
 - To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.
 - Choose by category: Select a category, subcategory, item, and operation and the CT details box opens with an option to Create with older version if applicable. Click Create RFC to open the Run RFC page.
- 3. On the **Run RFC** page, open the CT name area to see the CT details box. A **Subject** is required (this is filled in for you if you choose your CT in the **Browse change types** view). Open the **Additional configuration** area to add information about the RFC.
 - In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the **Additional configuration** area.

- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.
- 5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Deleting EBS snapshots with the CLI (Review Requied)

How it works:

- 1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id *ID* command with the returned RFC ID.

Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

```
aws amscm list-change-type-version-summaries --filter Attribute=ChangeTypeId, Value=CT\_ID
```

Note

You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \": [\"email@example.com\"]}}" to the RFC parameters part of the request (not the execution parameters). For a list of all CreateRfc parameters, see the AMS Change Management API Reference.

INLINE CREATE:

Issue the create RFC command with execution parameters provided inline (escape quotes when providing execution parameters inline), and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws amscm create-rfc --change-type-id "ct-1vrnixswq1uwf" --change-type-version "1.0" --
title "Delete EBS Snapshot (Review Required)" --execution-parameters "{\"SnapshotIds\":
[\"snap-0a1b2c3d4e5f67890\",\"snap-1a2b3c4d5e6f78901\"], \"AMI\": \"No\", \"Region\":
\"us-east-1\", \"Priority\": \"Medium\"}"
```

TEMPLATE CREATE:

 Output the execution parameters JSON schema for this change type to a file; this example names it DeleteEbsSnpshtRrParams.json:

```
aws amscm get-change-type-version --change-type-id "ct-1vrnixswq1uwf"
   --query "ChangeTypeVersion.ExecutionInputSchema" --output text >
   DeleteEbsSnpshtRrParams.json
```

2. Modify and save the DeleteEbsSnpshtRrParams file. For example, you can replace the contents with something like this:

```
{
    "SnapshotIds": [
        "snap-0a1b2c3d4e5f67890",
        "snap-1a2b3c4d5e6f78901"
    ],
    "AMI": "No",
    "Region": "us-east-1",
    "Priority": "Medium"
}
```

3. Output the RFC template JSON file to a file; this example names it DeleteEbsSnpshtRrRfc.json:

```
aws amscm create-rfc --generate-cli-skeleton > DeleteEbsSnpshtRrRfc.json
```

4. Modify and save the DeleteEbsSnpshtRrRfc.json file. For example, you can replace the contents with something like this:

```
{
"ChangeTypeVersion": "1.0",
"ChangeTypeId": "ct-1vrnixswq1uwf",
```

```
"Title": "EBS-Snapshot-Delete-RR-RFC"
}
```

5. Create the RFC, specifying the DeleteEbsSnpshtRrRfc file and the DeleteEbsSnpshtRrParams file:

```
aws amscm create-rfc --cli-input-json file://DeleteEbsSnpshtRrRfc.json --
execution-parameters file://DeleteEbsSnpshtRrParams.json
```

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

Tips

To learn more about Amazon EBS snapshots, see Amazon EBS Snapshots.

Update SNS topic

Update SNS topic with the Console

Screenshot of this change type in the AMS console:

```
    ▼ Update SNS Topic

            Manual RFCs may take over 24 hours to complete

    ID Execution mode Version

            ct-0zzf0fjz76jmb
            Manual
            1.0 (only version)

    Classification

            Management -> Monitoring and notification -> SNS -> Update (Review Required)

    Description

            Modify the properties of an existing Amazon Simple Notification Service (SNS) topic.
```

How it works:

- 1. Navigate to the **Create RFC** page: In the left navigation pane of the AMS console click **RFCs** to open the RFCs list page, and then click **Create RFC**.
- 2. Choose a popular change type (CT) in the default **Browse change types** view, or select a CT in the **Choose by category** view.

- Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.
 - To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.
- Choose by category: Select a category, subcategory, item, and operation and the CT details box opens with an option to Create with older version if applicable. Click Create RFC to open the Run RFC page.
- 3. On the **Run RFC** page, open the CT name area to see the CT details box. A **Subject** is required (this is filled in for you if you choose your CT in the **Browse change types** view). Open the **Additional configuration** area to add information about the RFC.
 - In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the **Additional configuration** area.
- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.
- 5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Update SNS topic with the CLI

How it works:

- 1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id ID command with the returned RFC ID.

Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

```
aws amscm list-change-type-version-summaries --filter
Attribute=ChangeTypeId, Value=CT_ID
```

Note

You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \": [\"email@example.com\"]}}" to the RFC parameters part of the request (not the execution parameters). For a list of all CreateRfc parameters, see the AMS Change Management API Reference.

INLINE CREATE (minimal parameters):

Issue the create RFC command with execution parameters provided inline (escape quotes when providing execution parameters inline), and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws amscm create-rfc --change-type-id "ct-0zzf0fjz76jmb" --change-type-version "1.0" --title "Update SNS Topic" --execution-parameters "{\"TopicArn\": \"arn:aws:sns:us-east-1:123456789101:My-SNS-Topic\", \"Priority\": \"Medium\", \"Parameters\": {\"DisplayName\": \"My-SNS-Topic\", \"KmsMasterKeyId\": \"arn:aws:kms:us-east-1:123456789101:key/cfe0542d-3be9-4166-9eac-d0cd6af61445\"}}"
```

TEMPLATE CREATE (all parameters):

1. Output the execution parameters JSON schema for this change type to a file; this example names it SnsUpdateParams.json.

```
aws amscm get-change-type-version --change-type-id "ct-3rcl9u1k017wu" --query
"ChangeTypeVersion.ExecutionInputSchema" --output text > SnsUpdateParams.json
```

2. Modify and save the SnsUpdateParams file. For example, you can replace the contents with something like this:

```
{
    "TopicArn": "arn:aws:sns:us-east-1:123456789101:Test-Stack",
    "Parameters": {
```

```
"DisplayName": "My-Test-Stack",
    "DeliveryPolicy": "{\"http\":{\"defaultHealthyRetryPolicy\":{\"minDelayTarget
\":20,\"maxDelayTarget\":20,\"numRetries\":3,\"numMaxDelayRetries\":0,
\"numNoDelayRetries\":0,\"numMinDelayRetries\":0,\"backoffFunction\":
\"linear\"},\"disableSubscriptionOverrides\":false,\"defaultRequestPolicy\":
{\"headerContentType\":\"text/plain; charset=UTF-8\"}}}",
    "DataProtectionPolicy": "{\"Name\":\"<u>example_data_protection_policy</u>\",
\"Description\":\"Exampledataprotectionpolicy\",\"Version\":
\"2021-06-01\",\"Statement\":[{\"DataDirection\":\"Inbound\",\"Principal
\":[\"arn:aws:iam::123456789101:user/ExampleUser\"],\"DataIdentifier\":
[\"arn:aws:dataprotection::aws:data-identifier/CreditCardNumber\"],\"Operation\":
{\"Deidentify\":{\"MaskWithCharacter\":\"#\"}}}]}",
    "KmsMasterKeyARN": "arn:aws:kms:ap-southeast-2:123456789101:key/
bb43bd18-3a75-482e-822d-d0d3a5544dc8",
    "TracingConfig": "Active"
 },
  "Priority": "Medium"
}
```

3. Output the RFC template JSON file to a file named SnsUpdateRfc.json:

```
aws amscm create-rfc --generate-cli-skeleton > SnsUpdateRfc.json
```

4. Modify and save the SnsUpdateRfc.json file. For example, you can replace the contents with something like this:

```
{
    "ChangeTypeVersion": "1.0",
    "ChangeTypeId": "ct-0zzf0fjz76jmb",
    "Title": "Update-SNS-RFC"
}
```

5. Create the RFC, specifying the SnsUpdate Rfc file and the SnsUpdateParams file:

```
aws amscm create-rfc --cli-input-json file://SnsUpdateRfc.json --execution-
parameters file://SnsUpdateParams.json
```

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

Tips

To learn more about AWS Simple Notification Service (SNS), see <u>Amazon Simple Notification</u> Service. Also see Getting Started with Amazon SNS.

Create an S3 access point

Creating an S3 access point with the Console

Screenshot of this change type in the AMS console:

Create S3 access point

Manual RFCs may take over 24 hours to complete

ID Execution mode Version

ct-1elb1vtam0ka5 Manual 1.0 (only version)

Classification

Deployment -> Advanced stack components -> S3 Access Point -> Create Access Point (review required)

Description

Create an access point and associate it with the specified S3 bucket.

How it works:

- 1. Navigate to the **Create RFC** page: In the left navigation pane of the AMS console click **RFCs** to open the RFCs list page, and then click **Create RFC**.
- 2. Choose a popular change type (CT) in the default **Browse change types** view, or select a CT in the **Choose by category** view.
 - Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.
 - To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.
 - Choose by category: Select a category, subcategory, item, and operation and the CT details box opens with an option to Create with older version if applicable. Click Create RFC to open the Run RFC page.

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- 3. On the **Run RFC** page, open the CT name area to see the CT details box. A **Subject** is required (this is filled in for you if you choose your CT in the **Browse change types** view). Open the **Additional configuration** area to add information about the RFC.
 - In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the **Additional configuration** area.
- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.
- 5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Creating an S3 access point with the CLI

How it works:

- 1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id ID command with the returned RFC ID.

Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

```
aws amscm list-change-type-version-summaries --filter
Attribute=ChangeTypeId, Value=CT_ID
```

INLINE CREATE:

Issue the create RFC command with execution parameters provided inline (escape quotation marks when providing execution parameters inline), and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws amscm create-rfc --title="Add Static Route" --description="Create an access point and associate it with the specified S3 bucket." --ct-id="ct-lelb1vtam0ka5" --ct-
```

Create an S3 access point Version January 23, 2025 53

```
version="1.0" --input-params="{\"Access Point Name\":\"accesspoint1\",\"Bucket Name\":
\"s3bucket1\",\"Network Origin\":\"VPC\"}"
```

TEMPLATE CREATE:

1. Output the execution parameters JSON schema for this change type to a file; this example names it CreateS3AccessPointParams.json.

```
aws amscm get-change-type-version --change-type-id "ct-1elb1vtam0ka5"
   --query "ChangeTypeVersion.ExecutionInputSchema" --output text >
   CreateS3AccessPointParams.json\"Access Point Policy\":\"Example access point
   policy\"
```

2. Modify and save the CreateS3AccessPointParams file.

```
{
"Access Point Name": "accesspoint1",
"Bucket Name": "s3bucket1",
"Network Origin": "VPC",
"Vpc Id": "vpc-12345678"
"Access Point Policy": "Example access point policy"
}
```

3. Output the RFC template JSON file to a file named CreateS3AccessPointRfc.json:

```
aws amscm create-rfc --generate-cli-skeleton > CreateS3AccessPointRfc.json
```

4. Modify and save the CreateS3AccessPointRfc.json file. For example, you can replace the contents with something like this:

```
{
"ChangeTypeVersion": "1.0",
"ChangeTypeId": "ct-1elb1vtam0ka5",
"Title": "S3-Accesspoint-Create-RFC"
}
```

5. Create the RFC, specifying the CreateS3AccessPointRfc file and the CreateS3AccessPointParams file:

```
aws amscm create-rfc --cli-input-json file://CreateS3AccesspointRfc.json --
execution-parameters file://CreateS3AccesspointParams.json
```

Create an S3 access point Version January 23, 2025 54

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

Tips

To learn more about Amazon S3, see Amazon Simple Storage Service Documentation.

Create Custom RDS Parameter Group

Requesting administrator access with the console

The following shows this change type in the AMS console.



How it works:

- 1. Navigate to the **Create RFC** page: In the left navigation pane of the AMS console click **RFCs** to open the RFCs list page, and then click **Create RFC**.
- 2. Choose a popular change type (CT) in the default **Browse change types** view, or select a CT in the **Choose by category** view.
 - Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.
 - To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.
 - Choose by category: Select a category, subcategory, item, and operation and the CT details box opens with an option to Create with older version if applicable. Click Create RFC to open the Run RFC page.

- 3. On the **Run RFC** page, open the CT name area to see the CT details box. A **Subject** is required (this is filled in for you if you choose your CT in the **Browse change types** view). Open the **Additional configuration** area to add information about the RFC.
 - In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the **Additional configuration** area.
- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.
- 5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Requesting administrator access with the CLI

How it works:

- 1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id *ID* command with the returned RFC ID.

Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

```
aws amscm list-change-type-version-summaries --filter
Attribute=ChangeTypeId, Value=CT_ID
```

Note

You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \": [\"email@example.com\"]}}" to the RFC parameters part of the request (not

the execution parameters). For a list of all CreateRfc parameters, see the <u>AMS Change</u> Management API Reference.

INLINE CREATE:

Issue the create RFC command with execution parameters provided inline (escape quotation marks when providing execution parameters inline), and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws amscm create-rfc --change-type-id "ct-3da2lxapopb86" --change-type-version "1.0" --
title "Create Custom RDS Parameter Group" --execution-parameters "{\"ParameterGroupName
\": \"my-db-parameter-group\\", \"ParameterGroupFamily\\": \"mysql5.6\\", \"Description
\": \"A meaningful description of the parameter group\\", \"Priority\\": \"Medium\\",
\"Parameters\\": [{\"ParameterName\\": \"max_connections\\", \"ParameterValue\\":
\"100\\"}], \"RDSInstanceName\\": \"my-test-db\\"}"
```

TEMPLATE CREATE:

1. Output the execution parameters JSON schema for this change type to a file; this example names it RDSCreateParameterGroupParams.json:

```
aws amscm get-change-type-version --change-type-id "ct-3da2lxapopb86"
   --query "ChangeTypeVersion.ExecutionInputSchema" --output text >
   RDSCreateParameterGroupParams.json
```

Modify and save the RDSCreateParameterGroupParams file. For example, you can replace the contents with something like this:

}

2. Output the RFC template to a file in your current folder; this example names it RDSCreateParameterGroupRfc.json:

```
aws amscm create-rfc --generate-cli-skeleton > RDSCreateParameterGroupRfc.json
```

3. Modify and save the RDSCreateParameterGroupRfc.json file. For example, you can replace the contents with something like this:

```
{
"ChangeTypeId": "ct-3da21xapopb86",
"ChangeTypeVersion": "1.0",
"Title": "Create Custom RDS Parameter Group"
}
```

4. Create the RFC, specifying the RDSCreateParameterGroupRfc file and the GRDSCreateParameterGroupParams file:

```
aws amscm create-rfc --cli-input-json file://RDSCreateParameterGroupRfc.json -- execution-parameters file://RDSCreateParameterGroupParams.json
```

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

Add event notification to an Amazon S3 bucket

Add an event notification to an S3 bucket with the Amazon S3 Console

The following is a screenshot of this change type in the AMS console:

▼ Add Event Notification

ID Execution mode Version

ct-0o4zi9bzg74lp Automated 1.0 (only version)

Classification

Management -> Advanced stack components -> S3 storage -> Add event notification

Description

Add an event notification to the specified S3 bucket through direct API calls. The S3 bucket can be standalone or belong to a CloudFormation stack. For buckets in CloudFormation stacks, be aware that stack drift might occur if the bucket was provisioned through CFN ingestion.

How it works:

- 1. Navigate to the **Create RFC** page: In the left navigation pane of the AMS console click **RFCs** to open the RFCs list page, and then click **Create RFC**.
- 2. Choose a popular change type (CT) in the default **Browse change types** view, or select a CT in the **Choose by category** view.
 - Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.
 - To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.
 - Choose by category: Select a category, subcategory, item, and operation and the CT details box opens with an option to Create with older version if applicable. Click Create RFC to open the Run RFC page.
- 3. On the **Run RFC** page, open the CT name area to see the CT details box. A **Subject** is required (this is filled in for you if you choose your CT in the **Browse change types** view). Open the **Additional configuration** area to add information about the RFC.
 - In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the **Additional configuration** area.
- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.

5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Add an event notification to an S3 bucket with the CLI

How it works:

- 1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id *ID* command with the returned RFC ID.

Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

```
aws amscm list-change-type-version-summaries --filter
Attribute=ChangeTypeId, Value=CT_ID
```

Note

You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \": [\"email@example.com\"]}}" to the RFC parameters part of the request (not the execution parameters). For a list of all CreateRfc parameters, see the AMS Change Management API Reference.

INLINE CREATE:

Issue the create RFC command with execution parameters provided inline (escape quotation marks when providing execution parameters inline), and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws amscm create-rfc --change-type-id "ct-0o4zi9bzg74lp" --change-type-version
"1.0" --title "Add event notification" --execution-parameters "{ \"DocumentName
\": \"AWSManagedServices-AddBucketEventNotification\", \"Region\": \"us-
east-1\", \"Parameters\": { \"BucketName\": \"bucketname\", \"EventName\":
\"eventname\", \"Prefix\": \"foo\", \"Suffix\": \".bar\", \"EventTypes\":
[ \"s3:ObjectCreated:Post\", \"s3:ObjectCreated:Put\" ], \"DestinationARN\":
\"arn:aws:lambda:us-east-1:123456789012:function:functionname\" } }"
```

TEMPLATE CREATE:

1. Output the execution parameters JSON schema for this change type to a file; this example names it AddEventNotificationS3Params.json.

```
aws amscm get-change-type-version --change-type-id "ct-220bdb8blaixf"
   --query "ChangeTypeVersion.ExecutionInputSchema" --output text >
AddEventNotificationS3Params.json
```

2. Modify and save the AddEventNotificationS3Params file. For example, you can replace the contents with something like this:

```
{
  "DocumentName": "AWSManagedServices-AddBucketEventNotification",
  "Region": "us-east-1",
  "Parameters": {
    "BucketName": "bucketname",
    "EventName": "eventname",
    "Prefix": "foo",
    "Suffix": ".bar",
    "EventTypes": [
        "s3:0bjectCreated:Post",
        "s3:0bjectCreated:Put"
    ],
    "DestinationARN": "arn:aws:lambda:us-east-1:123456789012:function:functionname"
}
```

3. Output the RFC template JSON file to a file named AddEventNotificationS3Rfc.json:

```
aws amscm create-rfc --generate-cli-skeleton > AddEventNotificationS3Rfc.json
```

4. Modify and save the AddS3LifecycleConfigRfc.json file. For example, you can replace the contents with something like this:

```
{
"ChangeTypeVersion": "1.0",
"ChangeTypeId": "ct-0o4zi9bzg74lp",
"Title": "Add Event Notification"
}
```

5. Create the RFC, specifying the AddEventNotificationS3Rfc file and the AddEventNotificationS3Params file:

```
aws amscm create-rfc --cli-input-json file://AddEventNotificationS3Rfc.json --
execution-parameters file://AddEventNotificationS3Params.json
```

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

Update custom deny list for AMS Automated IAM Provisioning

Update custom deny list with the Console

Screenshot of this change type in the AMS console:

Update custom deny list for Automated IAM Provisioning

ID Execution mode Version

ct-2r9xvd3sdsic0 Manual 1.0 (most recent version)

Classification

Management -> Managed account -> Automated IAM provisioning with read-write permissions -> Update custom deny list (review required)

Description

Update the list of customer-defined denied actions for Automated IAM Provisioning. Make sure to provide the complete list of deny actions, including previously provisioned actions. The provided list replaces the previous list.

How it works:

- 1. Navigate to the **Create RFC** page: In the left navigation pane of the AMS console click **RFCs** to open the RFCs list page, and then click **Create RFC**.
- 2. Choose a popular change type (CT) in the default **Browse change types** view, or select a CT in the **Choose by category** view.
 - Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.
 - To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.
 - Choose by category: Select a category, subcategory, item, and operation and the CT details box opens with an option to Create with older version if applicable. Click Create RFC to open the Run RFC page.
- 3. On the **Run RFC** page, open the CT name area to see the CT details box. A **Subject** is required (this is filled in for you if you choose your CT in the **Browse change types** view). Open the **Additional configuration** area to add information about the RFC.
 - In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the **Additional configuration** area.
- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.
- 5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Update custom deny list with the CLI

How it works:

- 1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id *ID* command with the returned RFC ID.

Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

```
aws amscm list-change-type-version-summaries --filter
Attribute=ChangeTypeId, Value=CT_ID
```

Note

You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \": [\"email@example.com\"]}}" to the RFC parameters part of the request (not the execution parameters). For a list of all CreateRfc parameters, see the AMS Change Management API Reference.

INLINE CREATE:

Issue the create RFC command with execution parameters provided inline (escape quotes when providing execution parameters inline), and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws amscm create-rfc --change-type-id "ct-2r9xvd3sdsic0" --change-type-version "1.0" --
title "Update custom deny list for Automated IAM Provisioning" --execution-parameters
   "{\"CustomerCustomDenyActionsList1\":\"ec2:RunInstances,s3:PutBucket,sagemaker:*\",
   \"Priority\":\"High\"}"
```

TEMPLATE CREATE:

1. Output the execution parameters for this change type to a JSON file named CustomerCustomDenyActionsList.json.

```
aws amscm get-change-type-version --change-type-id "ct-2r9xvd3sdsic0"
    --query "ChangeTypeVersion.ExecutionInputSchema" --output text >
    CustomerCustomDenyActionsList.json
```

2. Modify and save the execution parameters JSON file. For example, you can replace the contents with something like this:

```
{
    "DocumentName": "AWSManagedServices-CustomerCustomDenyActionsList",
    "Region": "us-east-1",
    "Parameters": {
    "CustomerCustomDenyActionsList1": "ec2:RunInstances,s3:PutBucket,sagemaker:*",
    "Priority": "High"
}
}
```

3. Output the RFC template to a file in your current folder; this example names it CustomerCustomDenyActionsListRfc.json:

```
aws amscm create-rfc --generate-cli-skeleton >
CustomerCustomDenyActionsListRfc.json
```

4. Modify and save the CustomerCustomDenyActionsListRfc.json file. For example, you can replace the contents with something like this:

```
{
   "ChangeTypeVersion": "1.0",
   "ChangeTypeId": "ct-2r9xvd3sdsic0",
   "Title": "Update custom deny list for Automated IAM Provisioning"
}
```

5. Create the RFC, specifying the CreateAcmPublicRfc file and the CreateAcmPublicParams file:

```
aws amscm create-rfc --cli-input-json file://CustomerCustomDenyActionsListRfc.json
   --execution-parameters file://CustomerCustomDenyActionsListParams.json
```

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

Migrate AWS Managed Account DNS resolver to Route 53 for SALZ accounts (review required)

Migrate AWS Managed Account DNS resolver to Route 53 (SALZ) with the console

The following shows this change type in the AMS console.

Migrate AWS Managed Microsoft AD to Route 53 DNS resolver for SALZ accounts

ID Execution mode Version

ct-2tqi3kjcusen4 Manual 1.0 (only version)

Classification

Management -> Managed account -> DNS -> Migrate to Route 53 (review required)

Description

Change the DNS resolution in your Amazon VPC by enabling Route 53 as the default DNS resolver for your SALZ account. This transition from Microsoft AD to Route 53 Resolver involves redirecting DNS traffic within your VPC through strategically implemented Route 53 Resolver Endpoints and Conditional Forwarders. These forwarders act as rules to intelligently route DNS queries, ensuring seamless resolution for various destinations. It's essential to plan the migration during a scheduled maintenance window to minimize potential disruptions caused by DNS changes.

How it works:

- Navigate to the Create RFC page: In the left navigation pane of the AMS console click RFCs to open the RFCs list page, and then click Create RFC.
- 2. Choose a popular change type (CT) in the default **Browse change types** view, or select a CT in the **Choose by category** view.
 - Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.
 - To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.
 - Choose by category: Select a category, subcategory, item, and operation and the CT details box opens with an option to Create with older version if applicable. Click Create RFC to open the Run RFC page.
- 3. On the **Run RFC** page, open the CT name area to see the CT details box. A **Subject** is required (this is filled in for you if you choose your CT in the **Browse change types** view). Open the **Additional configuration** area to add information about the RFC.

In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the **Additional configuration** area.

- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.
- 5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Migrate AWS Managed Account DNS resolver to Route 53 (SALZ) with the CLI

How it works:

- 1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id *ID* command with the returned RFC ID.

Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

```
aws amscm list-change-type-version-summaries --filter
Attribute=ChangeTypeId, Value=CT_ID
```

Note

You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \" : [\"email@example.com\"]}}" to the RFC parameters part of the request (not the execution parameters). For a list of all CreateRfc parameters, see the AMS Change Management API Reference.

INLINE CREATE:

Issue the create RFC command with execution parameters provided inline (escape quotes when providing execution parameters inline), and then submit the returned RFC ID. For example, you can replace the contents with something like this:

Required parameters only:

```
aws amscm create-rfc --change-type-id "ct-2tqi3kjcusen4" --change-type-version "1.0" --
title "Migrate AWS managed Microsoft AD to Route 53 DNS resolver for SALZ accounts" --
execution-parameters "{}"
```

All required and optional parameters:

```
aws amscm create-rfc --change-type-id "ct-2tqi3kjcusen4" --change-type-version "1.0" -- title "Migrate AWS managed Microsoft AD to Route 53 DNS resolver for SALZ accounts" -- execution-parameters "{\"Priority\":\"Medium\"}"
```

TEMPLATE CREATE:

1. Output the execution parameters for this change type to a JSON file named CreateMigrateToRoute53RequiredParams.json.

```
aws amscm get-change-type-version --change-type-id "ct-2tqi3kjcusen4"
   --query "ChangeTypeVersion.ExecutionInputSchema" --output text >
   CreateMigrateToRoute53RequiredParams.json
```

2. Modify and save the execution parameters JSON file. For example, you can replace the contents with something like this:

```
{
    "Priority": "Medium"
}
```

Output the RFC template to a file in your current folder; this example names it CreateMigrateToRoute53RequiredRfc.json:

```
aws amscm create-rfc --generate-cli-skeleton >
CreateMigrateToRoute53RequiredRfc.json
```

4. Modify and save the CreateMigrateToRoute53RequiredRfc.json file. For example, you can replace the contents with something like this:

```
{
"ChangeTypeId": "ct-2tqi3kjcusen4",
"ChangeTypeVersion": "1.0",
"Title": "Migrate AWS managed Microsoft AD to Route 53 DNS resolver
for SALZ accounts"
}
```

5. Create the RFC, specifying the CreateMigrateToRoute53RequiredRfc file and the CreateMigrateToRoute53RequiredParams file:

```
aws amscm create-rfc --cli-input-json file://CreateMigrateToRoute53RequiredRfc.json
   --execution-parameters file://CreateMigrateToRoute53RequiredParams.json
```

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

Tips

This is a "review required" change type (an AMS operator must review and run the CT), which means that the RFC can take longer to run and you might have to communicate with AMS through the RFC details page correspondance option. Additionally, if you schedule a "review required" change type RFC, be sure to allow at least 24 hours, if approval does not happen before the scheduled start time, the RFC is rejected automatically.

Disassociate resolver rules from VPC

Disassociate resolver rules from a VPC with the console

The following shows this change type in the AMS console.

Disassociate resolver rules from VPC

ID Execution mode Version

ct-2pfarpvczsstr Automated 1.0 (only version)

Classification

Management -> Advanced stack components -> Route 53 Resolver -> Disassociate resolver rules from VPC

Description

Disassociates multiple resolver rules from a VPC.

How it works:

- 1. Navigate to the **Create RFC** page: In the left navigation pane of the AMS console click **RFCs** to open the RFCs list page, and then click **Create RFC**.
- 2. Choose a popular change type (CT) in the default **Browse change types** view, or select a CT in the **Choose by category** view.
 - Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.
 - To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.
 - Choose by category: Select a category, subcategory, item, and operation and the CT details box opens with an option to Create with older version if applicable. Click Create RFC to open the Run RFC page.
- 3. On the Run RFC page, open the CT name area to see the CT details box. A Subject is required (this is filled in for you if you choose your CT in the Browse change types view). Open the Additional configuration area to add information about the RFC.
 - In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the **Additional configuration** area.
- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.

5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Disassociate resolver rules from a VPC with the CLI

How it works:

- 1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id *ID* command with the returned RFC ID.

Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

```
aws amscm list-change-type-version-summaries --filter
Attribute=ChangeTypeId, Value=CT_ID
```

Note

You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \": [\"email@example.com\"]}}" to the RFC parameters part of the request (not the execution parameters). For a list of all CreateRfc parameters, see the AMS Change Management API Reference.

INLINE CREATE:

Issue the create RFC command with execution parameters provided inline (escape quotation marks when providing execution parameters inline), and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws --profile saml --region us-east-1 amscm create-rfc --change-type-id
"ct-3e3prksxmdhw8" --change-type-version "2.0" --title "AMI-Create-IC" --
execution-parameters "{\"AMIName\":\"MyAmi\",\"VpcId\":\"VPC_ID\",\"EC2InstanceId\":
\"INSTANCE_ID\"}"
```

TEMPLATE CREATE:

1. Output the execution parameters JSON schema for this change type to a file; this example names it CreateAmiFromAsgParams.json:

```
aws amscm create-rfc --change-type-id "ct-3e3prksxmdhw8" --change-type-version
"1.0" --title "Create AMI from an Auto Scaling group" --execution-parameters
"{\"DocumentName\": \"AWSManagedServices-CreateAmiInAutoScalingGroup\",\"Region
\": \"us-east-1\",\"Parameters\": {\"AutoScalingGroupName\": [\"stack-ab0123cdef-
ASG-1ABC2345\"],\"Sysprep\": [\"False\"],\"StopInstance\": [\"False\"]}}"
```

2. Modify and save the execution parameters CreateAmiFromAsgParams.json file. For example, you can replace the contents with something like this:

3. Output the RFC template JSON file to a file in your current folder; this example names it CreateAmiFromAsgRfc.json:

```
aws amscm create-rfc --generate-cli-skeleton > CreateAmiFromAsgRfc.json
```

4. Modify and save the CreateAmiFromAsgRfc.json file. For example, you can replace the contents with something like this:

```
{
  "ChangeTypeVersion": "1.0",
  "ChangeTypeId": "ct-3e3prksxmdhw8",
  "Title": "Create AMI from an Auto Scaling group"
}
```

5. Create the RFC, specifying the CreateAmiFromAsgRfc file and the CreateAmiFromAsgParams file:

```
aws amscm create-rfc --cli-input-json file://CreateAmiFromAsgRfc.json --execution-parameters file://CreateAmiFromAsgParams.json
```

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

Update Enhanced Monitoring

Updating enhanced monitoring with the console

The following shows this change type in the AMS console.

Update Enhanced Monitoring					
)	Execution mode	Version			
t-3jx80fquylzhf	Automated	1.0 (only version)			
Classification					
1anagement -> Advanced stack	c components -> RDS database stack -> Upda	te enhanced monitoring			
escription					
Jpdate the Enhanced Monitorir	ng property of an Amazon Relational Databas	e Service (RDS) database instance or cluster. Enhanced			
	t vital operating system metrics and process i	afarmation at the defined aroundarity.			

How it works:

1. Navigate to the **Create RFC** page: In the left navigation pane of the AMS console click **RFCs** to open the RFCs list page, and then click **Create RFC**.

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- 2. Choose a popular change type (CT) in the default **Browse change types** view, or select a CT in the **Choose by category** view.
 - Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.
 - To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.
 - **Choose by category**: Select a category, subcategory, item, and operation and the CT details box opens with an option to **Create with older version** if applicable. Click **Create RFC** to open the **Run RFC** page.
- 3. On the **Run RFC** page, open the CT name area to see the CT details box. A **Subject** is required (this is filled in for you if you choose your CT in the **Browse change types** view). Open the **Additional configuration** area to add information about the RFC.
 - In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the **Additional configuration** area.
- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.
- 5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Updating enhanced monitoring with the CLI

How it works:

- 1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id *ID* command with the returned RFC ID.

Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

```
aws amscm list-change-type-version-summaries --filter
Attribute=ChangeTypeId, Value=CT_ID
```

Note

You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \": [\"email@example.com\"]}}" to the RFC parameters part of the request (not the execution parameters). For a list of all CreateRfc parameters, see the AMS Change Management API Reference.

INLINE CREATE:

Issue the create RFC command with execution parameters provided inline (escape quotation marks when providing execution parameters inline), and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws amscm create-rfc --change-type-id "ct-3jx80fquylzhf" --change-type-
version "1.0" --title "Update Enhanced Monitoring" --execution-parameters
  "{\"DocumentName\":\"AWSManagedServices-UpdateRDSEnhancedMonitoring\",\"Region
\":\"us-east-1\",\"Parameters\": {\"DBIdentifierArn\":[\"arn:aws:rds:us-
east-1:00000000000:db:testdbinstance\"], \"MonitoringInterval\": [\"60\"],,
\"MonitoringRoleName\": \"ds-monitoring-role\"}}"
```

TEMPLATE CREATE:

 Output the execution parameters for this change type to a JSON file named RotateRdsCertParams.json.

```
aws amscm get-change-type-version --change-type-id "ct-3jx80fquylzhf"
   --query "ChangeTypeVersion.ExecutionInputSchema" --output text >
   UpdateRDSEnhancedMonitoringParams.json
```

2. Modify and save the execution parameters JSON file. For example, you can replace the contents with something like this:

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3. Output the JSON template to a file in your current folder; this example names it UpdateRDSEnhancedMonitoringRfc.json:

```
aws amscm create-rfc --generate-cli-skeleton > UpdateRDSEnhancedMonitoringRfc.json
```

4. Modify and save the UpdateRDSEnhancedMonitoringRfc.json file. For example, you can replace the contents with something like this:

```
{
"ChangeTypeVersion": "1.0",
"ChangeTypeId": "ct-3jx80fquylzhf",
"Title": "Update Enhanced Monitoring"
}
```

5. Create the RFC, specifying the execution parameters file and the UpdateRDSEnhancedMonitoringRfc file:

```
aws amscm create-rfc --cli-input-json file://UpdateRDSEnhancedMonitoringRfc.json -- execution-parameters file://UpdateRDSEnhancedMonitoringParams.json
```

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

Associate VPC with Resolver Rule

Requesting administrator access with the console

The following shows this change type in the AMS console.

Run RFC

Associate VPC With Resolver Rule

D Execution mode Version

ct-2pbqoffhclpek Automated 1.0 (only version)

Classification

Management -> Advanced stack components -> Route 53 Resolver -> Associate VPC with resolver rule

Description

Associate a VPC with a Route 53 resolver rule, this causes the resolver to forward all DNS queries for the domain name specified in the rule, and that originate in the VPC, to the IP addresses specified in the rule.

How it works:

- Navigate to the Create RFC page: In the left navigation pane of the AMS console click RFCs to open the RFCs list page, and then click Create RFC.
- 2. Choose a popular change type (CT) in the default **Browse change types** view, or select a CT in the **Choose by category** view.
 - Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.
 - To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.
 - Choose by category: Select a category, subcategory, item, and operation and the CT details box opens with an option to Create with older version if applicable. Click Create RFC to open the Run RFC page.
- 3. On the Run RFC page, open the CT name area to see the CT details box. A Subject is required (this is filled in for you if you choose your CT in the Browse change types view). Open the Additional configuration area to add information about the RFC.

In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the **Additional configuration** area.

- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.
- 5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Requesting administrator access with the CLI

How it works:

- 1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id ID command with the returned RFC ID.

Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

```
aws amscm list-change-type-version-summaries --filter Attribute=ChangeTypeId, Value=CT\_ID
```

Note

You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \" : [\"email@example.com\"]}}" to the RFC parameters part of the request (not the execution parameters). For a list of all CreateRfc parameters, see the AMS Change Management API Reference.

INLINE CREATE:

Issue the create RFC command with execution parameters provided inline (escape quotation marks when providing execution parameters inline) and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws amscm create-rfc --title="Associate VPC with Resolver Rule" --ct-id="ct-2pbqoffhclpek" --ct-version="1.0" --execution-parameters "{\"Description\": \"Associate VPC with Resolver Rule\",\"ResolverRuleId\":\"rslvr-rr-974b1666869a4d27b\",\"VPCId\":\"vpc-02a18ed0cd3c17e71\"}"
```

TEMPLATE CREATE:

1. Output the execution parameters JSON schema for this change type; this example names it VPCAssociateResolverRule.json:

```
aws amscm get-change-type-version --change-type-id "ct-2pbqoffhclpek"
  --query "ChangeTypeVersion.ExecutionInputSchema" --output text >
  VPCAssociateResolverRule.json
```

2. Modify and save the execution parameters as VPCAssociateResolverRuleParams.json. For example, you can replace the contents with something like this:

```
{
  "DocumentName": "AWSManagedServices-AssociateVPCWithResolverRule",
  "Region": "us-east-1",
  "Parameters": {
      "Name": "resolver-rule-associate-vpc-test",
      "ResolverRuleId": "rslvr-rr-1234567890abcdefg",
      "VPCId": "vpc-1a2b3c4d"
   }
}
```

3. Output the RFC template JSON file; this example names it VPCAssociateResolverRuleRfc.json:

```
aws amscm create-rfc --generate-cli-skeleton > VPCAssociateResolverRuleRfc.json
```

4. Modify and save the VPCAssociateResolverRuleRfc.json file. For example, you can replace the contents with something like this:

```
{
    "ChangeTypeVersion" : "1.0",
    "ChangeTypeId" : "ct-2pbqoffhclpek",
```

```
"Title" : "Associate VPC with Resolver Rule "
}
```

Create the RFC, specifying the VPCAssociateResolverRuleRfc file and the VPCAssociateResolverRuleParams file:

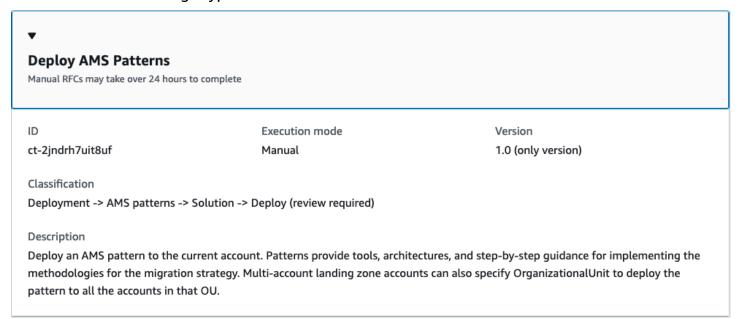
```
aws amscm create-rfc --cli-input-json file://VPCAssociateResolverRuleRfc.json --execution-parameters file:/VPCAssociateResolverRuleParams.json
```

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

Deploy AMS pattern (review required)

Deploying an AMS pattern (review required) with the Console

Screenshot of this change type in the AMS console:



How it works:

- Navigate to the Create RFC page: In the left navigation pane of the AMS console click RFCs to open the RFCs list page, and then click Create RFC.
- 2. Choose a popular change type (CT) in the default **Browse change types** view, or select a CT in the **Choose by category** view.

- Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.
 - To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.
- Choose by category: Select a category, subcategory, item, and operation and the CT details box opens with an option to Create with older version if applicable. Click Create RFC to open the Run RFC page.
- 3. On the **Run RFC** page, open the CT name area to see the CT details box. A **Subject** is required (this is filled in for you if you choose your CT in the **Browse change types** view). Open the **Additional configuration** area to add information about the RFC.
 - In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the **Additional configuration** area.
- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.
- 5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Deploying an AMS pattern (review required) with the CLI

How it works:

- 1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id *ID* command with the returned RFC ID.

Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

```
aws amscm list-change-type-version-summaries --filter
Attribute=ChangeTypeId, Value=CT_ID
```

Note

You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \": [\"email@example.com\"]}}" to the RFC parameters part of the request (not the execution parameters). For a list of all CreateRfc parameters, see the AMS Change Management API Reference.

INLINE CREATE:

Issue the create RFC command with execution parameters provided inline (escape quotation marks when providing execution parameters inline) and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws amscm create-rfc --change-type-id "ct-2jndrh7uit8uf" --change-type-version
"1.0" --title "Deploy AMS Patterns" --execution-parameters "{\"PatternName
\": \"amsEbsVolumeSnapshotTagger\",\"PatternParameters\": "{\"ExcludedTags\":
\"BackupProd,Backup\",\"ASMGuardRail\":\"enabled\"}", \"OrganizationalUnit\":
\"ou-9dyd-s2vptest\"}"
```

TEMPLATE CREATE:

 Output the execution parameters JSON schema for this change type; this example names it DeployAMSPatternsParams.json:

```
aws amscm get-change-type-version --change-type-id "ct-2jndrh7uit8uf"
  --query "ChangeTypeVersion.ExecutionInputSchema" --output text >
  DeployAMSPatternsParams.json
```

Modify and save the execution parameters JSON file. For example, you can replace the contents with something like this:

```
{
    "PatternName": "amsEbsVolumeSnapshotTagger",
```

3. Output the RFC template JSON file; this example names it DeployAMSPatternsRfc.json:

```
aws amscm create-rfc --generate-cli-skeleton > DeployAMSPatternsRfc.json
```

4. Modify and save the DeployAMSPatternsRfc.json file. For example, you can replace the contents with something like this:

```
{
"ChangeTypeVersion": "1.0",
"ChangeTypeId": "ct-2jndrh7uit8uf",
"Title": "Deploy AMS Patterns"
}
```

5. Create the RFC, specifying the DeployAMSPatternsRfc file and the DeployAMSPatternsParams file:

```
aws amscm create-rfc --cli-input-json file://DeployAMSPatternsRfc.json --execution-parameters file://DeployAMSPatternsParams.json
```

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

Share AWS KMS Key

Share an AWS KMS key with the console

The following shows this change type in the AMS console.

•

Share KMS Key

Manual RFCs may take over 24 hours to complete

ID Execution mode Version

ct-05yb337abq3x5 Manual 1.0 (only version)

Classification

Management -> Advanced stack components -> KMS key -> Share (review required)

Description

Allow cross-account access to a KMS key by adding a statement to the key policy with encrypt and decrypt permissions.

How it works:

- Navigate to the Create RFC page: In the left navigation pane of the AMS console click RFCs to open the RFCs list page, and then click Create RFC.
- 2. Choose a popular change type (CT) in the default **Browse change types** view, or select a CT in the **Choose by category** view.
 - Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.
 - To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.
 - Choose by category: Select a category, subcategory, item, and operation and the CT details box opens with an option to Create with older version if applicable. Click Create RFC to open the Run RFC page.
- 3. On the **Run RFC** page, open the CT name area to see the CT details box. A **Subject** is required (this is filled in for you if you choose your CT in the **Browse change types** view). Open the **Additional configuration** area to add information about the RFC.

In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the **Additional configuration** area.

- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.
- 5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Share an AWS KMS key with the CLI

How it works:

- 1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id *ID* command with the returned RFC ID.

Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

```
aws amscm list-change-type-version-summaries --filter Attribute=ChangeTypeId, Value=CT\_ID
```

Note

You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \": [\"email@example.com\"]}}" to the RFC parameters part of the request (not the execution parameters). For a list of all CreateRfc parameters, see the AMS Change Management API Reference.

INLINE CREATE:

Issue the create RFC command with execution parameters provided inline (escape quotation marks when providing execution parameters inline), and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws amscm create-rfc --title="Add Static Route" --description="Share KMS Key"
--ct-id="ct-05yb337abq3x5" --ct-version="1.0" --input-params="{\"KMSKeyArn\":
\"arn:aws:kms:us-east-1:111122223333:key/06506094-64e2-47f3-94bd-f919eefa22f5\",
\"TargetAccountId\":\"0000000000000\",\"IncludeKeyGrantOperations\":\"false\",
\"IAMUserOrRole\":\"arn:aws:iam::000000000000:role/role-name\", \"Priority\":\"High\"}"
```

TEMPLATE CREATE:

1. Output the execution parameters JSON schema for this change type to a file; this example names it ShareKmsKeyParams.json:

```
aws amscm get-change-type-version --change-type-id "ct-05yb337abq3x5" --query "ChangeTypeVersion.ExecutionInputSchema" --output text > ShareKmsKeyParams.json
```

Modify and save the ShareKmsKeyParams file. For example, you can replace the contents with something like this:

```
{
   "Description": "Share KMS Key",
   "Parameters": {
        "KMSKeyArn": "arn:aws:kms:us-east-1:111122223333:key/06506094-64e2-47f3-94bd-
f919eefa22f5",
        "TargetAccountId": "000000000000",
        "IncludeKeyGrantOperations": "false"
        "IAMUserOrRole": "arn:aws:iam::00000000000:role/role-name"
}
```

Output the RFC template to a file in your current folder; this example names it ShareKmsKeyParamsRfc.json:

```
aws amscm create-rfc --generate-cli-skeleton > ShareKmsKeyParamsRfc.json
```

Modify and save the ShareKmsKeyParams.json file. For example, you can replace the contents with something like this:

```
{
```

```
"ChangeTypeId": {
   "ChangeTypeVersion": "1.0",
   "ChangeTypeId": "ct-05yb337abq3x5",
   "Title": "Share KMS Key"
}
```

4. Create the RFC, specifying the ShareKmsKeyParamsRfc file and the ShareKmsKeyParams file:

```
aws amscm create-rfc --cli-input-json file://ShareKmsKeyParamsRfc.json --execution-parameters file://ShareKmsKeyParams.json
```

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

To log in to the instance through a bastion, follow the next procedure, <u>Instance access</u> examples.

Create Active Directory Trust

Adding an AD trust with the console

▼ Create Active Directory Trust

The following shows this change type in the AMS console.

ID Execution mode Version

ct-0x6dylrnfjgz5 Automated 1.0 (only version)

Classification

Management -> Directory Service -> Directory -> Create AD trust

How it works:

- Navigate to the Create RFC page: In the left navigation pane of the AMS console click RFCs to open the RFCs list page, and then click Create RFC.
- Choose a popular change type (CT) in the default Browse change types view, or select a CT in the Choose by category view.

- Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.
 - To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.
- Choose by category: Select a category, subcategory, item, and operation and the CT details box opens with an option to Create with older version if applicable. Click Create RFC to open the Run RFC page.
- 3. On the **Run RFC** page, open the CT name area to see the CT details box. A **Subject** is required (this is filled in for you if you choose your CT in the **Browse change types** view). Open the **Additional configuration** area to add information about the RFC.
 - In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the **Additional configuration** area.
- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.
- 5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Adding an AD trust with the CLI

How it works:

- 1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id *ID* command with the returned RFC ID.

Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

aws amscm list-change-type-version-summaries --filter
Attribute=ChangeTypeId, Value=CT_ID

Note

You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \\": [\"email@example.com\"]}}" to the RFC parameters part of the request (not the execution parameters). For a list of all CreateRfc parameters, see the AMS Change Management API Reference.

INLINE CREATE:

Issue the create RFC command with execution parameters provided inline (escape quotation marks when providing execution parameters inline), and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws amscm create-rfc --change-type-id "ct-0x6dylrnfjgz5" --change-type-version "1.0" --
title "Create AD Trust" --execution-parameters '
{"DocumentName":"AWSManagedServices-CreateADTrust", "Region":"ap-
southeast-2", "Parameters": {"DirectoryId": ["d-976774e42f"], "RemoteDomainName":
["onprem.local"], "SecretArn": ["arn:aws:secretsmanager:ap-
southeast-2:996606605561:secret:customer-shared/CorrectTPW-BI79uu"], "TrustType":
["External"], "ConditionalForwarderIpAddresses": ["10.153.28.39"]}}"
```

TEMPLATE CREATE:

1. Output the execution parameters JSON schema for this change type to a file; this example names it CreateADTrustParams.json:

```
aws amscm get-change-type-version --change-type-id "ct-0x6dylrnfjgz5" --query
"ChangeTypeVersion.ExecutionInputSchema" --output text > CreateADTrustParams.json
```

Modify and save the CreateADTrustParams.json file. For example, you can replace the contents with something like this:

```
{
```

```
"DocumentName": "AWSManagedServices-CreateADTrust",
  "Region": "ap-southeast-2",
  "Parameters": {
    "DirectoryId": [
      "d-976774e42f"
    ],
    "RemoteDomainName": [
      "onprem.local"
    ],
    "SecretArn": [
      "arn:aws:secretsmanager:ap-southeast-2:996606605561:secret:customer-shared/
CorrectTPW-BI79uu"
    ],
    "TrustType": [
      "External"
    ],
    "ConditionalForwarderIpAddresses": [
      "10.153.28.39"
    ]
 }
}
```

2. Output the RFC template to a file in your current folder; this example names it CreateADTrustRfc.json:

```
aws amscm create-rfc --generate-cli-skeleton > CreateADTrustRfc.json
```

3. Modify and save the CreateADTrustRfc.json file. For example, you can replace the contents with something like this:

```
{
  "ChangeTypeId": "ct-0x6dylrnfjgz5",
  "ChangeTypeVersion": "1.0",
  "Title": "Active Directory Trust"
}
```

4. Create the RFC, specifying the CreateADTrustRfc file and the CreateADTrustParams file:

```
aws amscm create-rfc --cli-input-json file://CreateADTrustRfc.json --execution-
parameters file://CreateADTrustParams.json
```

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

Tips

For information about Directory Service, see the Directory Service Admin Guide.

Override Stack Access Duration (Review required)

Override stack access duration with the Console

Screenshot of this change type in the AMS console:

Override Stack Access Duration		
ID	Execution mode	Version
ct-0jb01cofkhwk1	Manual	1.0 (only version)
Classification Management -> Managed account - Description	> Stack access duration -> Override (revie	ew required)
Use to override maximum stack acc	ti-landing zone (MALZ). For multi-landing nange type (CT) ID. Access can be overridd	single landing zone (SALZ) and for all stacks of the member g zone (MALZ), please raise a request for change (RFC) from Ien from a minimum of 1 hour to a maximum of 120 hours,

How it works:

- Navigate to the Create RFC page: In the left navigation pane of the AMS console click RFCs to open the RFCs list page, and then click Create RFC.
- 2. Choose a popular change type (CT) in the default **Browse change types** view, or select a CT in the **Choose by category** view.
 - Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.

To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.

- Choose by category: Select a category, subcategory, item, and operation and the CT details box opens with an option to **Create with older version** if applicable. Click **Create RFC** to open the **Run RFC** page.
- 3. On the Run RFC page, open the CT name area to see the CT details box. A Subject is required (this is filled in for you if you choose your CT in the **Browse change types** view). Open the **Additional configuration** area to add information about the RFC.
 - In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the Additional configuration area.
- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial Run output.
- 5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Override stack access duration with the CLI

How it works:

- 1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id ID command with the returned RFC ID. Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

```
aws amscm list-change-type-version-summaries --filter
 Attribute=ChangeTypeId, Value=CT_ID
```



Note

You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \" : [\"email@example.com\"]}}" to the RFC parameters part of the request (not the execution parameters). For a list of all CreateRfc parameters, see the AMS Change Management API Reference.

INLINE CREATE:

Issue the create RFC command with execution parameters provided inline (escape quotation marks when providing execution parameters inline), and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws amscm create-rfc --title="Override Stack Access Duration" --description="Override Stack Access Duration" --ct-id="ct-0jb01cofkhwk1" --ct-version="1.0" --input-params="{\"TimeRequestedInHours\": 15,\"Priority\":\"High\"}"
```

TEMPLATE CREATE:

1. Output the execution parameters JSON schema for this change type to a file. This example names it OverrideStackAccessDurationParameters.json:

```
aws amscm get-change-type-version --change-type-id "ct-0jb01cofkhwk1"
  --query "ChangeTypeVersion.ExecutionInputSchema" --output text >
OverrideStackAccessDurationParameters.json
```

2. Modify and save the OverrideStackAccessDurationParameters.json file. For example, you can replace the contents with something like this:

```
{
  "TimeRequestedInHours": 15,
  "Priority": "High"
}
```

3. Output the RFC template JSON file to a file named OverrideStackAccessDuration.json:

```
aws amscm create-rfc --generate-cli-skeleton > OverrideStackAccessDuration.json
```

4. Modify and save the OverrideStackAccessDuration.json file. For example, you can replace the contents with something like this:

```
{
  "ChangeTypeVersion": "1.0",
  "ChangeTypeId": "ct-0jb01cofkhwk1",
  "Title": "Override Stack Access Duration"
}
```

Create the RFC:

```
aws amscm create-rfc --cli-input-json file://OverrideStackAccessDuration.json --
execution-parameters file://OverrideStackAccessDurationParameters.json
```

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

Enable automated IAM provisioning with read-write permissions

Enable automated AWS Identity and Access Management provisioning with read/write permissions with the Console

Screenshot of this change type in the AMS console:

▼ Enable Automated IAM Provisioning

Manual RFCs may take over 24 hours to complete

ID Execution mode Version

ct-1706xvvk6j9hf Manual 1.0 (only version)

Classification

Management -> Managed account -> Automated IAM provisioning with read-write permissions -> Enable (review required)

Description

Enable Automated IAM provisioning with read-write permissions in the account used to submit this CT. Once enabled, a new role 'AWSManagedServicesIAMProvisionAdminRole' is created in that account. Additionally, you can use three related change types (ct-1n9gfnog5x7fl, ct-1e0xmuy1diafq, ct-17cj84y7632o6) to create, update, or delete IAM roles and policies using Automated IAM provisioning with read-write permissions, which employs an automated review process with a predefined set of rules for IAM and AMS. Before using, we recommend a good familiarity with IAM rules. To confirm that an account has Automated IAM provisioning enabled, look for the IAM role 'AWSManagedServicesIAMProvisionAdminRole' in the IAM console for that account.

How it works:

- 1. Navigate to the **Create RFC** page: In the left navigation pane of the AMS console click **RFCs** to open the RFCs list page, and then click **Create RFC**.
- 2. Choose a popular change type (CT) in the default **Browse change types** view, or select a CT in the **Choose by category** view.
 - Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.
 - To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.
 - **Choose by category**: Select a category, subcategory, item, and operation and the CT details box opens with an option to **Create with older version** if applicable. Click **Create RFC** to open the **Run RFC** page.
- 3. On the **Run RFC** page, open the CT name area to see the CT details box. A **Subject** is required (this is filled in for you if you choose your CT in the **Browse change types** view). Open the **Additional configuration** area to add information about the RFC.
 - In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the **Additional configuration** area.
- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.
- 5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Enable automated AWS Identity and Access Management provisioning with read/write permissions with the CLI

How it works:

1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.

2. Submit the RFC: aws amscm submit-rfc --rfc-id ID command with the returned RFC ID.

Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

```
aws amscm list-change-type-version-summaries --filter Attribute=ChangeTypeId, Value=CT\_ID
```

Note

You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \\": [\"email@example.com\"]}}" to the RFC parameters part of the request (not the execution parameters). For a list of all CreateRfc parameters, see the AMS Change Management API Reference.

INLINE CREATE:

Issue the create RFC command with execution parameters provided inline (escape quotes when providing execution parameters inline), and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws amscm create-rfc --change-type-id "ct-1706xvvk6j9hf" --change-type-version "1.0"
   --title "Enable (review required)" --execution-parameters "{\"SAMLIdentityProviderArns
\": [\"arn:aws:iam::123456789012:saml-provider/customer-saml\"], \"IamEntityArns\":
   [\"arn:aws:iam::123456789012:role/test-role-one\", \"arn:aws:iam::123456789012:role/
test-role-two\"], \"Priority\": \"High\"}"
```

TEMPLATE CREATE:

1. Output the execution parameters JSON schema for this change type to a file; this example names it EnableAutomatedIAMProvisioningParams.json.

```
aws amscm get-change-type-version --change-type-id "ct-1706xvvk6j9hf"
   --query "ChangeTypeVersion.ExecutionInputSchema" --output text >
   EnableAutomatedIAMProvisioningParams.json
```

2. Modify and save the EnableAutomatedIAMProvisioningParams file. For example, you can replace the contents with something like this:

```
{
   "SAMLIdentityProviderArns": ["arn:aws:iam::123456789012:saml-provider/customer-
saml"],
   "IamEntityArns": ["arn:aws:iam::123456789012:role/test-role-one",
   "arn:aws:iam::123456789012:role/test-role-two"],
   "Priority": "High"
}
```

3. Output the RFC template JSON file to a file named EnableAutomatedIAMProvisioningRfc.json:

```
aws amscm create-rfc --generate-cli-skeleton >
EnableAutomatedIAMProvisioningRfc.json
```

4. Modify and save the EnableAutomatedIAMProvisioningRfc.json file. For example, you can replace the contents with something like this:

```
{
"ChangeTypeVersion": "1.0",
"ChangeTypeId": "ct-1706xvvk6j9hf",
"Title": "Enable-Automated-IAM-Provisioning-RFC"
}
```

5. Create the RFC, specifying the UpdateSecurityPolicy Rfc file and the UpdateSecurityPolicyParams file:

```
aws amscm create-rfc --cli-input-json file://EnableAutomatedIAMProvisioningRfc.json --execution-parameters file://EnableAutomatedIAMProvisioningParams.json
```

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

Add VPC static route (review required)

Add a static route with the console

The following shows this change type in the AMS console.

Ianual RFCs may take over 24 hours t	o complete		
D	Execution mode	Version	
ct-06bwg93ukgg8t	Manual	1.0 (only version)	
Classification			
Deployment -> Advanced stack o	omponents -> VPC -> Add static route (review	v required)	
Description			
Create a static route on your rou	te table inside a VPC.		

How it works:

- 1. Navigate to the **Create RFC** page: In the left navigation pane of the AMS console click **RFCs** to open the RFCs list page, and then click **Create RFC**.
- 2. Choose a popular change type (CT) in the default **Browse change types** view, or select a CT in the **Choose by category** view.
 - Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.
 - To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.
 - Choose by category: Select a category, subcategory, item, and operation and the CT details box opens with an option to Create with older version if applicable. Click Create RFC to open the Run RFC page.
- 3. On the **Run RFC** page, open the CT name area to see the CT details box. A **Subject** is required (this is filled in for you if you choose your CT in the **Browse change types** view). Open the **Additional configuration** area to add information about the RFC.
 - In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the **Additional configuration** area.

- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.
- 5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Adding a static route with the CLI

How it works:

- 1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id *ID* command with the returned RFC ID.

Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

```
aws amscm list-change-type-version-summaries --filter Attribute=ChangeTypeId, Value={\it CT\_ID}
```

Note

You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \": [\"email@example.com\"]}}" to the RFC parameters part of the request (not the execution parameters). For a list of all CreateRfc parameters, see the AMS Change Management API Reference.

INLINE CREATE:

Issue the create RFC command with execution parameters provided inline (escape quotation marks when providing execution parameters inline) and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws amscm create-rfc --title="Add Static Route" --description="Add static route"
    --ct-id="ct-06bwg93ukgg8t" --ct-version="1.0" --input-params="{\"RouteTableId
\":\"rtb-0123abcd\",\"DestinationCidrBlock\":\"172.31.0.0/16\",\"Target\":
\"pcx-0123456789abcdefg\",\"Priority\":\"High\"}"
```

TEMPLATE CREATE:

1. Output the execution parameters JSON schema for this change type; this example names it EncryptAmiParams.json:

```
aws amscm get-change-type-version --change-type-id "ct-06bwg93ukgg8t" --query
"ChangeTypeVersion.ExecutionInputSchema" --output text > AddStaticRouteParams.json
```

2. Modify and save the execution AddStaticRouteParams.json file. For example, you can replace the contents with something like this:

```
{
    "RouteTableId": "rtb-0123abcd",
    "DestinationCidrBlock": "172.31.0.0/16",
    "Target": "pcx-0123456789abcdefg",
    "Priority": "High"
}
```

3. Output the RFC template JSON file; this example names it AddStaticRouteRfc.json:

```
aws amscm create-rfc --generate-cli-skeleton > AddStaticRouteRfc.json
```

4. Modify and save the AddStaticRouteRfc.json file. For example, you can replace the contents with something like this:

```
{
    "ChangeTypeVersion": "1.0",
    "ChangeTypeId": "ct-06bwg93ukgg8t",
    "Title": "Add static route"
}
```

5. Create the RFC, specifying the AddStaticRouteRfc file and the AddStaticRouteParams file:

1.0 (only version)

```
aws amscm create-rfc --cli-input-json file://AddStaticRouteRfc.json --execution-
parameters file://AddStaticRouteParams.json
```

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

Tips

For information about VPCs, see Virtual private clouds (VPC).

Create IAM entity or policy

Creating IAM entity or policy with the console

Create Entity or Policy (read-write permissions)

ID Execution mode Version

Automated

Classification

ct-1n9gfnog5x7fl

Deployment -> Advanced stack components -> Identity and Access Management (IAM) -> Create entity or policy (read-write permissions)

Description

Create Identity and Access Management (IAM) role or policy with read-write permissions. You must have enabled this feature with change type ct-1706xvvk6j9hf before submitting this request. Automated IAM provisioning with read-write permissions runs over 200 validations to help ensure successful outcomes.

How it works:

- 1. Navigate to the **Create RFC** page: In the left navigation pane of the AMS console click **RFCs** to open the RFCs list page, and then click **Create RFC**.
- 2. Choose a popular change type (CT) in the default **Browse change types** view, or select a CT in the **Choose by category** view.
 - Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.

Create IAM entity or policy Version January 23, 2025 101

To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.

- **Choose by category**: Select a category, subcategory, item, and operation and the CT details box opens with an option to **Create with older version** if applicable. Click **Create RFC** to open the **Run RFC** page.
- 3. On the **Run RFC** page, open the CT name area to see the CT details box. A **Subject** is required (this is filled in for you if you choose your CT in the **Browse change types** view). Open the **Additional configuration** area to add information about the RFC.

In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the **Additional configuration** area.

- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.
- 5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Creating IAM entity or policy with the CLI

How it works:

- 1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id *ID* command with the returned RFC ID.

Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

aws amscm list-change-type-version-summaries --filter
Attribute=ChangeTypeId, Value=CT_ID



Note

You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \" : [\"email@example.com\"]}}" to the RFC parameters part of the request (not the execution parameters). For a list of all CreateRfc parameters, see the AMS Change Management API Reference.

INLINE CREATE:

Issue the create RFC command with execution parameters provided inline (escape quotes when providing execution parameters inline), and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws amscm create-rfc --change-type-id "ct-1n9gfnog5x7fl" --change-type-
version "1.0" --title "Create role or policy" --execution-parameters
 '{"DocumentName": "AWSManagedServices-HandleAutomatedIAMProvisioningCreate-
Admin", "Region": "us-east-1", "Parameters": {"ValidateOnly": "No"}, "RoleDetails":
{"Roles":[{"RoleName":"RoleTest01","Description":"This is a test
role", "AssumeRolePolicyDocument": "{"Version": "2012-10-17", "Statement": [{"Effect": "Allow", "Prir
{"AWS":"arn:aws:iam::123456789012:root"},"Action":"sts:AssumeRole"}]}","ManagedPolicyArns":
["arn:aws:iam::123456789012:policy/policy01","arn:aws:iam::123456789012:policy/
policy02"], "Path": "/", "MaxSessionDuration": "7200", "PermissionsBoundary": "arn:aws:iam::123456789
permission_boundary01", "InstanceProfile": "No"}]}, "ManagedPolicyDetails":
{"Policies":[{"ManagedPolicyName":"TestPolicy01","Description":"This is customer
policy", "Path": "/test/", "PolicyDocument": "{"Version": "2012-10-17", "Statement":
[{"Sid":"AllQueueActions","Effect":"Allow","Action":"sqs:ListQueues","Resource":"*","Condition'
{"ForAllValues:StringEquals":{"aws:tagKeys":["temporary"]}}}]}"}]}}'
```

TEMPLATE CREATE:

Output the execution parameters JSON schema for this change type to a file; example names it CreatelamResourceParams.json:

```
aws amscm get-change-type-version --change-type-id "ct-1n9gfnog5x7f1"
 --query "ChangeTypeVersion.ExecutionInputSchema" --output text >
CreateIamResourceParams.json
```

Create IAM entity or policy Version January 23, 2025 103 2. Modify and save the CreatelamResourceParams file; example creates an IAM Role with policy documents pasted inline.

```
"DocumentName": "AWSManagedServices-HandleAutomatedIAMProvisioningCreate-Admin",
  "Region": "us-east-1",
  "Parameters": {
    "ValidateOnly": "No"
 },
  "RoleDetails": {
    "Roles": [
      {
        "RoleName": "RoleTest01",
        "Description": "This is a test role",
        "AssumeRolePolicyDocument": {
          "Version": "2012-10-17",
          "Statement": [
            {
              "Effect": "Allow",
              "Principal": {
                "AWS": "arn:aws:iam::123456789012:root"
              },
              "Action": "sts:AssumeRole"
            }
          ]
        },
        "ManagedPolicyArns": [
          "arn:aws:iam::123456789012:policy/policy01",
          "arn:aws:iam::123456789012:policy/policy02"
        ],
        "Path": "/",
        "MaxSessionDuration": "7200",
        "PermissionsBoundary": "arn:aws:iam::123456789012:policy/
permission_boundary01",
        "InstanceProfile": "No"
      }
    ]
 },
  "ManagedPolicyDetails": {
    "Policies": [
        "ManagedPolicyName": "TestPolicy01",
        "Description": "This is customer policy",
```

Create IAM entity or policy Version January 23, 2025 104

```
"Path": "/test/",
        "PolicyDocument": {
          "Version": "2012-10-17",
          "Statement": [
            {
              "Sid": "AllQueueActions",
              "Effect": "Allow",
              "Action": "sqs:ListQueues",
              "Resource": "*",
              "Condition": {
                "ForAllValues:StringEquals": {
                   "aws:tagKeys": [
                     "temporary"
                }
              }
            }
          ]
        }
      }
    ]
 }
}
```

3. Output the RFC template JSON file to a file named CreatelamResourceRfc.json:

```
aws amscm create-rfc --generate-cli-skeleton > CreateIamResourceRfc.json
```

4. Modify and save the CreatelamResourceRfc.json file. For example, you can replace the contents with something like this:

```
{
   "ChangeTypeVersion": "1.0",
   "ChangeTypeId": "ct-1n9gfnog5x7fl",
   "Title": "Create entity or policy (read-write permissions)"
}
```

5. Create the RFC, specifying the CreatelamResourceRfc file and the CreatelamResourceParams file:

```
aws amscm create-rfc --cli-input-json file://CreateIamResourceRfc.json --
execution-parameters file://CreateIamResourceParams.json
```

Create IAM entity or policy Version January 23, 2025 105

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

Tips

- After an IAM role is provisioned in your account, depending on the role and the policy document you attach to the role, you may need to onboard the role in your federation solution.
- For information about AWS Identity and Access Management, see <u>AWS Identity and Access</u>
 <u>Management (IAM)</u> and for policy information, see <u>Managed policies and inline policies</u>. For information about AMS permissions, see <u>Deploying IAM resources</u>.

Update IAM entity or policy

Updating IAM entity or policy with the console

Update Entity or Policy (read-write permissions)

□ Execution mode Version
ct-1e0xmuy1diafq Automated 1.0 (only version)

Classification
Management -> Advanced stack components -> Identity and Access Management (IAM) -> Update entity or policy (read-write permissions)

Description

Update Identity and Access Management (IAM) role or policy with read-write permissions. You must have enabled this feature with change type ct-1706xvvk6j9hf before submitting this request. Automated IAM provisioning with read-write permissions runs over 200 validations to help ensure successful outcomes.

- Navigate to the Create RFC page: In the left navigation pane of the AMS console click RFCs to open the RFCs list page, and then click Create RFC.
- 2. Choose a popular change type (CT) in the default **Browse change types** view, or select a CT in the **Choose by category** view.

- Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.
 - To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.
- Choose by category: Select a category, subcategory, item, and operation and the CT details box opens with an option to Create with older version if applicable. Click Create RFC to open the Run RFC page.
- 3. On the **Run RFC** page, open the CT name area to see the CT details box. A **Subject** is required (this is filled in for you if you choose your CT in the **Browse change types** view). Open the **Additional configuration** area to add information about the RFC.
 - In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the **Additional configuration** area.
- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.
- 5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Updating IAM entity or policy with the CLI

How it works:

- 1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id ID command with the returned RFC ID.

Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

aws amscm list-change-type-version-summaries --filter
Attribute=ChangeTypeId, Value=CT_ID

Note

You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \": [\"email@example.com\"]}}" to the RFC parameters part of the request (not the execution parameters). For a list of all CreateRfc parameters, see the AMS Change Management API Reference.

INLINE CREATE:

Issue the create RFC command with execution parameters provided inline (escape quotes when providing execution parameters inline), and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws amscm create-rfc --change-type-id "ct-1e0xmuy1diafq" --change-type-version
 "1.0" --title "Update role or policy" --execution-parameters "{\"DocumentName
\":\"AWSManagedServices-HandleAutomatedIAMProvisioningUpdate-Admin\",\"Region
\":\"us-east-1\",\"Parameters\":{\"ValidateOnly\":\"No\"},\"RoleDetails
\":{\"Roles\":[{\"RoleName\":\"RoleTest01\",\"Description\":\"This is a test
role\",\"AssumeRolePolicyDocument\":\\"{\\\"Version\\\":\\\"2012-10-17\\\",\
\\"Statement\\\":[{\\\"Effect\\\":\\\"Allow\\\",\\\"Principal\\\":{\\\"AWS\\
\":\\\"arn:aws:iam::123456789012:root\\\"},\\\"Action\\\":\\\"sts:AssumeRole\
\\"}]}\",\"ManagedPolicyArns\":[\"arn:aws:iam::123456789012:policy/policy01\",
\"arn:aws:iam::123456789012:policy/policy02\"],\"MaxSessionDuration\":\"7200\",
\"PermissionsBoundary\":\"arn:aws:iam::123456789012:policy/permission_boundary01\"}]},
\"ManagedPolicyDetails\":{\"Policies\":[{\"ManagedPolicyName\":\"TestPolicy01\",
\"PolicyDocument\":\"{\\\"Version\\\":\\\"2012-10-17\\\",\\\"Statement\\\":
[{\\\"Sid\\\":\\\"Allow\\\",\\\"Effect\\\":\\\"Allow\\\",\\\"Action
\\\":\\\"sqs:ListQueues\\\",\\\"Resource\\\":\\\"*\\\",\\\"Condition\\\":{\\
\"ForAllValues:StringEquals\\\":{\\\"aws:tagKeys\\\":[\\\"temporary\\\"]}}}]}\"}]}\"
```

TEMPLATE CREATE:

1. Output the execution parameters JSON schema for this change type to a file; example names it UpdatelamResourceParams.json:

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```
aws amscm get-change-type-version --change-type-id "ct-1e0xmuy1diafq"
   --query "ChangeTypeVersion.ExecutionInputSchema" --output text >
   UpdateIamResourceParams.json
```

2. Modify and save the UpdateIamResourceParams file; example creates an IAM Role with policy documents pasted inline.

```
"DocumentName": "AWSManagedServices-HandleAutomatedIAMProvisioningUpdate-Admin",
  "Region": "us-east-1",
  "Parameters": {
    "ValidateOnly": "No"
 },
  "RoleDetails": {
    "Roles": [
      {
        "RoleName": "RoleTest01",
        "Description": "This is a test role",
        "AssumeRolePolicyDocument": {"Version":"2012-10-17", "Statement":
[{"Effect":"Allow", "Principal":
{"AWS":"arn:aws:iam::123456789012:root"}, "Action":"sts:AssumeRole"}]},
        "ManagedPolicyArns": [
          "arn:aws:iam::123456789012:policy/policy01",
          "arn:aws:iam::123456789012:policy/policy02"
        ],
        "MaxSessionDuration": "7200",
        "PermissionsBoundary": "arn:aws:iam::123456789012:policy/
permission_boundary01"
      }
    ]
  },
  "ManagedPolicyDetails": {
    "Policies": [
      {
        "ManagedPolicyName": "TestPolicy01",
        "PolicyDocument": {"Version":"2012-10-17", "Statement":
[{"Sid":"AllQueueActions", "Effect":"Allow", "Action":"sqs:ListQueues", "Resource":"*", "Condit
{"ForAllValues:StringEquals":{"aws:tagKeys":["temporary"]}}}]}
    ]
  }
}
```

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3. Output the RFC template JSON file to a file named UpdateIamResourceRfc.json:

```
aws amscm create-rfc --generate-cli-skeleton > UpdateIamResourceRfc.json
```

4. Modify and save the UpdateIamResourceRfc.json file. For example, you can replace the contents with something like this:

```
{
    "ChangeTypeVersion": "1.0",
    "ChangeTypeId": "ct-1e0xmuy1diafq",
    "Title": "Update entity or policy (read-write permissions)"
}
```

5. Create the RFC, specifying the UpdateIamResourceRfc file and the UpdateIamResourceParams file:

```
aws amscm create-rfc --cli-input-json file://UpdateIamResourceRfc.json --
execution-parameters file://UpdateIamResourceParams.json
```

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

Tips

For information about AWS Identity and Access Management, see <u>AWS Identity and Access</u>
 <u>Management (IAM)</u> and for policy information, see <u>Managed policies and inline policies</u>. For information about AMS permissions, see <u>Deploying IAM resources</u>.

Delete IAM entity or policy

Deleting IAM entity or policy with the console

How it works:

- Navigate to the Create RFC page: In the left navigation pane of the AMS console click RFCs to open the RFCs list page, and then click Create RFC.
- 2. Choose a popular change type (CT) in the default **Browse change types** view, or select a CT in the **Choose by category** view.
 - Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.
 - To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.
 - Choose by category: Select a category, subcategory, item, and operation and the CT details box opens with an option to Create with older version if applicable. Click Create RFC to open the Run RFC page.
- 3. On the Run RFC page, open the CT name area to see the CT details box. A Subject is required (this is filled in for you if you choose your CT in the Browse change types view). Open the Additional configuration area to add information about the RFC.

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In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the **Additional configuration** area.

- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.
- 5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Deleting IAM entity or policy with the CLI

How it works:

- 1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id *ID* command with the returned RFC ID.

Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

```
aws amscm list-change-type-version-summaries --filter
Attribute=ChangeTypeId, Value=CT_ID
```

Note

You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \": [\"email@example.com\"]}}" to the RFC parameters part of the request (not the execution parameters). For a list of all CreateRfc parameters, see the AMS Change Management API Reference.

INLINE CREATE:

Issue the create RFC command with execution parameters provided inline (escape quotes when providing execution parameters inline), and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws amscm create-rfc --change-type-id "ct-17cj84y7632o6" --change-type-version "1.0" --title "Delete role or policy" --execution-parameters "{\"DocumentName \":\"AWSManagedServices-HandleAutomatedIAMProvisioningDelete-Admin\",\"Region \":\"us-east-1\",\"Parameters\":{\"RoleName\":[\"TestRole01\",\"TestRole02\"], \"ManagedPolicyName\":[\"TestPolicy01\",\"TestPolicy02\"]}}"
```

TEMPLATE CREATE:

1. Output the execution parameters JSON schema for this change type to a file; example names it DeletelamResourceParams.json:

```
aws amscm get-change-type-version --change-type-id "ct-17cj84y7632o6"
   --query "ChangeTypeVersion.ExecutionInputSchema" --output text >
   DeleteIamResourceParams.json
```

2. Modify and save the DeletelamResourceParams file; example creates an IAM Role with policy documents pasted inline.

```
{
  "DocumentName" : "AWSManagedServices-HandleAutomatedIAMProvisioningDelete-Admin",
  "Region" : "us-east-1",
  "Parameters": {
      "RoleName": ["TestRole01", "TestRole02"],
      "ManagedPolicyName": ["TestPolicy01", "TestPolicy02"]
  }
}
```

3. Output the RFC template JSON file to a file named DeletelamResourceRfc.json:

```
aws amscm create-rfc --generate-cli-skeleton > DeleteIamResourceRfc.json
```

4. Modify and save the DeletelamResourceRfc.json file. For example, you can replace the contents with something like this:

```
{
```

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```
"ChangeTypeVersion": "1.0",
"ChangeTypeId": "ct-17cj84y7632o6",
"Title": "Delete entity or policy (read-write permissions)"
}
```

Create the RFC, specifying the DeletelamResourceRfc file and the DeletelamResourceParams file:

```
aws amscm create-rfc --cli-input-json file://DeleteIamResourceRfc.json --
execution-parameters file://DeleteIamResourceParams.json
```

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

Tips

• For information about AWS Identity and Access Management, see <u>AWS Identity and Access</u> Management (IAM) and for policy information, see Managed policies and inline policies.

Update detailed monitoring

Updating EC2 instances with the Console

Screenshot of this change type in the AMS console:

```
■ Update Detailed Monitoring
ID Execution mode Version
ct-0tmpmp1wpgkr9 Automated 1.0 (only version)
Classification
Management -> Advanced stack components -> EC2 instance stack -> Update instance detailed monitoring
Description
Update detailed monitoring for instances.
```

- 1. Navigate to the **Create RFC** page: In the left navigation pane of the AMS console click **RFCs** to open the RFCs list page, and then click **Create RFC**.
- 2. Choose a popular change type (CT) in the default **Browse change types** view, or select a CT in the **Choose by category** view.
 - Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.
 - To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.
 - Choose by category: Select a category, subcategory, item, and operation and the CT details box opens with an option to Create with older version if applicable. Click Create RFC to open the Run RFC page.
- 3. On the **Run RFC** page, open the CT name area to see the CT details box. A **Subject** is required (this is filled in for you if you choose your CT in the **Browse change types** view). Open the **Additional configuration** area to add information about the RFC.
 - In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the **Additional configuration** area.
- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.
- 5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Updating EC2 instances with the CLI

- 1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id ID command with the returned RFC ID.

Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

```
aws amscm list-change-type-version-summaries --filter
Attribute=ChangeTypeId, Value=CT_ID
```

Note

You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \": [\"email@example.com\"]}}" to the RFC parameters part of the request (not the execution parameters). For a list of all CreateRfc parameters, see the AMS Change Management API Reference.

INLINE CREATE:

Issue the create RFC command with execution parameters provided inline (escape quotation marks when providing execution parameters inline), and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws amscm create-rfc --title "Update EC2 detailed monitoring" -update --change-type-id ct-0tmpmp1wpgkr9 --change-type-version 1.0 --execution-parameters '{"DocumentName":"AWSManagedServices-UpdateInstanceEnhancedMonitoring","Region":"us-east-1","Parameters":{"InstanceIds":["i-09d65b13db992e8d4","i-0cdbd78ad80d2378c"]}}'
```

TEMPLATE CREATE:

 Output the execution parameters for this change type to a JSON file; this example names it UpdateEc2MonitoringParams.json:

```
aws amscm get-change-type-version --change-type-id "ct-0tmpmp1wpgkr9"
   --query "ChangeTypeVersion.ExecutionInputSchema" --output text >
   UpdateEc2MonitoringParams.json
```

2. Modify and save the UpdateEc2MonitoringParams file, retaining only the parameters that you want to change. For example, you can replace the contents with something like this:

```
{
  "DocumentName": "AWSManagedServices-UpdateInstanceEnhancedMonitoring",
  "Region": "us-east-1",
  "Parameters": {
    "InstanceIds": [
        "i-09d65b13db992e8d4",
        "i-0cdbd78ad80d2378c"
    ],
        "MonitoringValue": "enabled"
    }
}
```

3. Output the RFC template to a file in your current folder; this example names it UpdateEc2MonitoringRfc.json:

```
aws amscm create-rfc --generate-cli-skeleton > UpdateEc2MonitoringRfc.json
```

4. Modify and save the UpdateEc2MonitoringRfc.json file. For example, you can replace the contents with something like this:

```
{
"ChangeTypeVersion": "1.0",
"ChangeTypeId": "ct-0tmpmp1wpgkr9",
"Title": "EC2 Update Detailed Monitoring"
}
```

5. Create the RFC, specifying the UpdateEc2MonitoringRfc file and the UpdateEc2MonitoringParams file:

```
aws amscm create-rfc --cli-input-json file://UpdateEc2MonitoringRfc.json --
execution-parameters file://UpdateEc2MonitoringParams.json
```

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

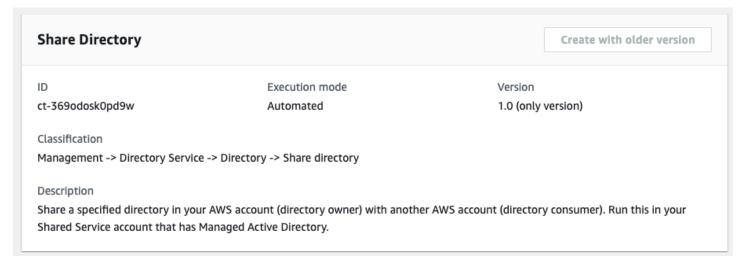
Tips

To learn more about Amazon EC2, see Amazon Elastic Compute Cloud Documentation.

Share directory

Share a directory with the console

The following shows this change type in the AMS console.



- Navigate to the Create RFC page: In the left navigation pane of the AMS console click RFCs to open the RFCs list page, and then click Create RFC.
- 2. Choose a popular change type (CT) in the default **Browse change types** view, or select a CT in the **Choose by category** view.
 - Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.
 - To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.
 - **Choose by category**: Select a category, subcategory, item, and operation and the CT details box opens with an option to **Create with older version** if applicable. Click **Create RFC** to open the **Run RFC** page.
- 3. On the **Run RFC** page, open the CT name area to see the CT details box. A **Subject** is required (this is filled in for you if you choose your CT in the **Browse change types** view). Open the **Additional configuration** area to add information about the RFC.

In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the **Additional configuration** area.

- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.
- 5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Share a directory with the CLI

How it works:

- 1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id ID command with the returned RFC ID.

Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

```
aws amscm list-change-type-version-summaries --filter
Attribute=ChangeTypeId, Value=CT_ID
```

Note

You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \": [\"email@example.com\"]}}" to the RFC parameters part of the request (not the execution parameters). For a list of all CreateRfc parameters, see the AMS Change Management API Reference.

INLINE CREATE:

Issue the create RFC command with execution parameters provided inline (escape quotation marks when providing execution parameters inline), and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws amscm create-rfc --change-type-id "ct-369odosk0pd9w" --change-type-version "1.0" --title "Share Directory" --execution-parameters "{\"DocumentName\": \"AWSManagedServices-ShareDirectory\",\"Region\":\"ap-southeast-2\",\"Parameters\": {\"DirectoryId\":[\"d-123456ab7c\"],\"TargetAccountId\":[\"012345678912\"]}}"
```

TEMPLATE CREATE:

1. Output the execution parameters JSON schema for this change type to a file; this example names it DirectorySharingParams.json:

```
aws amscm get-change-type-version --change-type-id "ct-369odosk0pd9w"
   --query "ChangeTypeVersion.ExecutionInputSchema" --output text >
   DirectorySharingParams.json
```

Modify and save the DirectorySharingParams.json file. For example, you can replace the contents with something like this:

2. Output the RFC template to a file in your current folder; this example names it DirectorySharingRfc.json:

```
aws amscm create-rfc --generate-cli-skeleton > DirectorySharingRfc.json
```

3. Modify and save the DirectorySharingRfc.json file. For example, you can replace the contents with something like this:

```
{
  "ChangeTypeId": "ct-369odosk0pd9w",
  "ChangeTypeVersion": "1.0",
  "Title": "Share Directory"
}
```

4. Create the RFC, specifying the DirectorySharingRfc file and the DirectorySharingParams file:

```
aws amscm create-rfc --cli-input-json file://DirectorySharingRfc.json --execution-parameters file://DirectorySharingParams.json
```

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

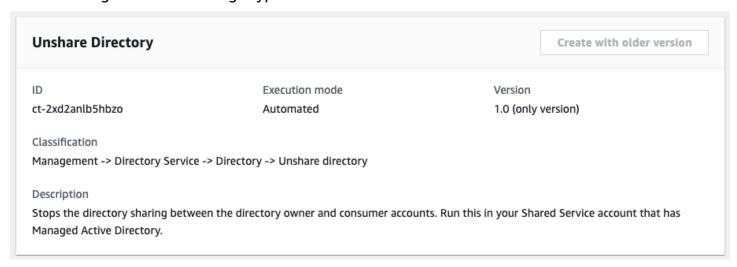
Tips

For related CTs, see Directory Service Subcategory.

Unshare directory

Unshare a directory with the console

The following shows this change type in the AMS console.



- 1. Navigate to the **Create RFC** page: In the left navigation pane of the AMS console click **RFCs** to open the RFCs list page, and then click **Create RFC**.
- 2. Choose a popular change type (CT) in the default **Browse change types** view, or select a CT in the **Choose by category** view.
 - Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.
 - To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.
 - Choose by category: Select a category, subcategory, item, and operation and the CT details box opens with an option to Create with older version if applicable. Click Create RFC to open the Run RFC page.
- 3. On the **Run RFC** page, open the CT name area to see the CT details box. A **Subject** is required (this is filled in for you if you choose your CT in the **Browse change types** view). Open the **Additional configuration** area to add information about the RFC.
 - In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the **Additional configuration** area.
- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.
- 5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Unshare a directory with the CLI

- 1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id *ID* command with the returned RFC ID.

Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

```
aws amscm list-change-type-version-summaries --filter
Attribute=ChangeTypeId, Value=CT_ID
```

Note

You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \": [\"email@example.com\"]}}" to the RFC parameters part of the request (not the execution parameters). For a list of all CreateRfc parameters, see the AMS Change Management API Reference.

INLINE CREATE:

Issue the create RFC command with execution parameters provided inline (escape quotation marks when providing execution parameters inline), and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws amscm create-rfc --change-type-id "ct-2xd2anlb5hbzo" --change-type-version
"1.0" --title "Unshare Directory" --execution-parameters "{\"DocumentName\":
\"AWSManagedServices-ShareDirectory\",\"Region\":\"ap-southeast-2\",\"Parameters\":
{\"DirectoryId\":[\"d-123456ab7c\"],\"UnshareTarget\":[\"012345678912\"]}}"
```

TEMPLATE CREATE:

1. Output the execution parameters JSON schema for this change type to a file; this example names it DirectoryUnsharingParams.json:

```
aws amscm get-change-type-version --change-type-id "ct-2xd2anlb5hbzo"
    --query "ChangeTypeVersion.ExecutionInputSchema" --output text >
    DirectoryUnsharingParams.json
```

Modify and save the DirectoryUnsharingParams.json file. For example, you can replace the contents with something like this:

```
{
  "DocumentName": "AWSManagedServices-UnshareDirectory",
  "Region": "us-east-1",
  "Parameters": {
    "DirectoryId": [
        "d-123456ab7c"
    ],
    "UnshareTarget": [
        "012345678912"
    ]
}
```

2. Output the RFC template to a file in your current folder; this example names it DirectoryUnsharingRfc.json:

```
aws amscm create-rfc --generate-cli-skeleton > DirectoryUnsharingRfc.json
```

3. Modify and save the DirectoryUnsharingRfc.json file. For example, you can replace the contents with something like this:

```
{
   "ChangeTypeId": "ct-2xd2anlb5hbzo",
   "ChangeTypeVersion": "1.0",
   "Title": "Unshare Directory"
}
```

4. Create the RFC, specifying the DirectoryUnsharingRfc file and the DirectoryUnsharingParams file:

```
aws amscm create-rfc --cli-input-json file://DirectoryUnsharingRfc.json --
execution-parameters file://DirectoryUnsharingParams.json
```

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

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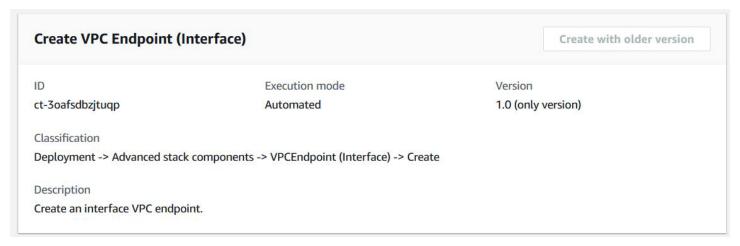
Tips

For related CTs, see Directory Service Subcategory.

Create VPC endpoint

Creating a VPC endpoint with the console

The following shows this change type in the AMS console.



- Navigate to the Create RFC page: In the left navigation pane of the AMS console click RFCs to open the RFCs list page, and then click Create RFC.
- 2. Choose a popular change type (CT) in the default **Browse change types** view, or select a CT in the **Choose by category** view.
 - Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.
 - To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.
 - Choose by category: Select a category, subcategory, item, and operation and the CT details box opens with an option to Create with older version if applicable. Click Create RFC to open the Run RFC page.

- 3. On the **Run RFC** page, open the CT name area to see the CT details box. A **Subject** is required (this is filled in for you if you choose your CT in the **Browse change types** view). Open the **Additional configuration** area to add information about the RFC.
 - In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the **Additional configuration** area.
- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.
- 5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Creating a VPC endpoint with the CLI

How it works:

- 1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id *ID* command with the returned RFC ID.

Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

```
aws amscm list-change-type-version-summaries --filter
Attribute=ChangeTypeId, Value=CT_ID
```

Note

You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \": [\"email@example.com\"]}}" to the RFC parameters part of the request (not

the execution parameters). For a list of all CreateRfc parameters, see the <u>AMS Change</u> Management API Reference.

INLINE CREATE:

Issue the create RFC command with execution parameters provided inline (escape quotation marks when providing execution parameters inline) and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws amscm create-rfc --change-type-id "ct-3oafsdbzjtuqp" --change-type-version
"1.0" --title "Create VPC Endpoint" --execution-parameters "{\"Description\":\"VPC
endpoint interface\",\"VpcId\":\"vpc-1234567890abcdef0\",\"Name\":\"VPC endpoint
interface\",\"StackTemplateId\":\"stm-f0cumpt1rfc1p1739\",\"TimeoutInMinutes
\":60,\"Parameters\":{\"VpcId\":\"vpc-1234567890abcdef0\",\"ServiceName\":
\"com.amazonaws.us-east-1.codedeploy\",\"SecurityGroups\":[\"sg-1234567890abcdef0\",
\"sg-1234567890abcdef1\"],\"SubnetIds\":[\"subnet-1234567890abcdef0\",
\"subnet-1234567890abcdef1\"],\"EnablePrivateDns\":\"false\"}}"
```

TEMPLATE CREATE:

1. Output the execution parameters JSON schema for this change type; this example names it VPCEndpointCreateParams.json:

```
aws amscm get-change-type-version --change-type-id "ct-3oafsdbzjtuqp"
   --query "ChangeTypeVersion.ExecutionInputSchema" --output text >
   VPCEndpointCreateParams.json
```

2. Modify and save the execution parameters as VPCEndpointCreateParams.json. For example, you can replace the contents with something like this:

```
"Description": "VPC endpoint interface",
"VpcId": "vpc-1234567890abcdef0",
"Name": "VPC endpoint interface",
"StackTemplateId": "stm-f0cumpt1rfc1p1739",
"TimeoutInMinutes": 60,
"Parameters": {
    "VpcId": "vpc-1234567890abcdef0",
    "ServiceName": "com.amazonaws.us-east-1.codedeploy",
    "SecurityGroups": [
```

3. Output the RFC template JSON file; this example names it VPCEndpointCreateRfc.json:

```
aws amscm create-rfc --generate-cli-skeleton > VPCEndpointCreateRfc.json
```

4. Modify and save the VPNGatewayCreateRfc.json file. For example, you can replace the contents with something like this:

```
{
  "ChangeTypeVersion" : "1.0",
  "ChangeTypeId" : "ct-3oafsdbzjtuqp",
  "Title" : "Create VPC Endpoint "
}
```

Create the RFC, specifying the VPCEndpointCreateRfc file and the VPCEndpointCreateParams file:

```
aws amscm create-rfc --cli-input-json file://VPCEndpointCreateRfc.json --
execution-parameters file://VPCEndpointCreateParams.json
```

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

Tips

Update RDS storage

Updating RDS storage with the Console

Screenshot of this change type in the AMS console:

Update RDS Storage		Create with older version
ID	Execution mode	Version
ct-Oloed9dzig1ze	Automated	1.0 (only version)
Classification		
Management -> Advanced stack	components -> RDS database stack -> Updat	e Storage
Description		
Change the RDS instance storage	type, capacity or IOPS through direct API ca	lls. The RDS instance can be standalone or belong to a
CloudFormation stack, in the latt	er case, the change might cause stack drift. I	To avoid causing stack drift, please use ct-12w49boaiwtzp
instead, or ct-361tlo1k7339x if t	he RDS instance was provisioned via CFN ing	estion.

- Navigate to the Create RFC page: In the left navigation pane of the AMS console click RFCs to open the RFCs list page, and then click Create RFC.
- 2. Choose a popular change type (CT) in the default **Browse change types** view, or select a CT in the **Choose by category** view.
 - Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.
 - To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.
 - Choose by category: Select a category, subcategory, item, and operation and the CT details box opens with an option to Create with older version if applicable. Click Create RFC to open the Run RFC page.
- 3. On the **Run RFC** page, open the CT name area to see the CT details box. A **Subject** is required (this is filled in for you if you choose your CT in the **Browse change types** view). Open the **Additional configuration** area to add information about the RFC.
 - In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the **Additional configuration** area.

- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.
- 5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Updating RDS storage with the CLI

How it works:

- 1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id ID command with the returned RFC ID.

Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

```
aws amscm list-change-type-version-summaries --filter Attribute=ChangeTypeId, Value={\it CT\_ID}
```

Note

You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \": [\"email@example.com\"]}}" to the RFC parameters part of the request (not the execution parameters). For a list of all CreateRfc parameters, see the AMS Change Management API Reference.

INLINE CREATE:

Issue the create RFC command with execution parameters provided inline (escape quotation marks when providing execution parameters inline), and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws amscm create-rfc --change-type-id "ct-0loed9dzig1ze" --change-type-version
"1.0" --title "Update RDS storage" --execution-parameters "{\"DocumentName\":
\"AWSManagedServices-UpdateRDSStorage\",\"Region\":\"us-east-1\",\"Parameters\":
{\"DBInstanceIdentifier\":[\"rt123456789\"], \"AllocatedStorage\": [\"100\"],,
\"ApplyImmediately\": \"true\"}}"
```

TEMPLATE CREATE:

1. Output the execution parameters for this change type to a JSON file named UpdateStorageParams.json.

```
aws amscm get-change-type-version --change-type-id "ct-0loed9dzig1ze" --query
"ChangeTypeVersion.ExecutionInputSchema" --output text > UpdateStorageParams.json
```

2. Modify and save the execution parameters JSON file. For example, you can replace the contents with something like this:

```
{
  "DocumentName": "AWSManagedServices-UpdateRDSStorage",
  "Region": "us-east-1",
  "Parameters": {
    "DBInstanceIdentifier": [
        "rt123456789"
    ],
    "AllocatedStorage": [
        "100"
    ],
    "ApplyImmediately": "false"
}
```

3. Output the JSON template to a file in your current folder; this example names it UpdateStorageRfc.json:

```
aws amscm create-rfc --generate-cli-skeleton > UpdateStorageRfc.json
```

4. Modify and save the UpdateStorageRfc.json file. For example, you can replace the contents with something like this:

```
{
    "ChangeTypeVersion": "1.0",
    "ChangeTypeId": "ct-0loed9dzig1ze",
    "Title": "Update RDS storage"
}
```

5. Create the RFC, specifying the execution parameters file and the UpdateStorageRfc file:

```
aws amscm create-rfc --cli-input-json file://UpdateStorageRfc.json --execution-
parameters file://UpdateStorageParams.json
```

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

Tips



AMS employs drift detection on certain stacks, including RDS stacks, to determine if configuration changes. The AMS disallows updates to an RDS stack that has been determined to have configuration drift. The RFC will fail with the following error message: "Update cannot be performed on this stack, please contact AMS for further assistance."

To learn more about Amazon RDS, including size recommendations, see <u>Amazon Relational</u> <u>Database Service Documentation</u>.

To update an RDS stack for Aurora, see RDS Database Stack | Update.

Update an RDS multi-AZ deployment

Updating an RDS multi-AZ deployment with the Console

Screenshot of this change type in the AMS console:

Change RDS MultiAZ Setting Create with older version		
ID	Execution mode Automated	Version
ct-36jq7gvwyty8h	Admated	1.0 (only version)
Classification		
Management -> Advanced stack of	components -> RDS database stack -> Updat	te MultiAZ setting
Description		
deployed across multiple availabi case, the change might cause star	lity zones (AZs). The RDS instance can be stack drift. To avoid causing stack drift, please u	etting determines whether or not the DB instance is andalone or belong to a CloudFormation stack; in the latter use ct-12w49boaiwtzp instead, or ct-361tlo1k7339x if the
RDS instance was provisioned via	CFN ingestion.	

- Navigate to the Create RFC page: In the left navigation pane of the AMS console click RFCs to open the RFCs list page, and then click Create RFC.
- 2. Choose a popular change type (CT) in the default **Browse change types** view, or select a CT in the **Choose by category** view.
 - Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.
 - To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.
 - Choose by category: Select a category, subcategory, item, and operation and the CT details box opens with an option to Create with older version if applicable. Click Create RFC to open the Run RFC page.
- 3. On the **Run RFC** page, open the CT name area to see the CT details box. A **Subject** is required (this is filled in for you if you choose your CT in the **Browse change types** view). Open the **Additional configuration** area to add information about the RFC.
 - In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the **Additional configuration** area.

- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.
- 5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Updating an RDS multi-AZ deployment with the CLI

How it works:

- 1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id *ID* command with the returned RFC ID.

Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

```
aws amscm list-change-type-version-summaries --filter Attribute=ChangeTypeId, Value=CT\_ID
```

Note

You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \": [\"email@example.com\"]}}" to the RFC parameters part of the request (not the execution parameters). For a list of all CreateRfc parameters, see the AMS Change Management API Reference.

INLINE CREATE:

Issue the create RFC command with execution parameters provided inline (escape quotation marks when providing execution parameters inline), and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws amscm create-rfc --change-type-id "ct-36jq7gvwyty8h" --change-type-version
"1.0" --title "Update RDS Multiple AZ" --execution-parameters "{\"DocumentName\":
\"AWSManagedServices-UpdateRDSMultiAZ\",\"Region\":\"us-east-1\",\"Parameters\":
{\"DBInstanceIdentifier\":[\"rt123456789\"], \"MultiAZ\": \"true\",\"ApplyImmediately
\": \"true\"}}"
```

TEMPLATE CREATE:

1. Output the execution parameters for this change type to a JSON file named UpdateMultipleAzParams.json.

```
aws amscm get-change-type-version --change-type-id "ct-36jq7gvwyty8h"
  --query "ChangeTypeVersion.ExecutionInputSchema" --output text >
  UpdateMultipleAzParams.json
```

2. Modify and save the execution parameters JSON file. For example, you can replace the contents with something like this:

3. Output the JSON template to a file in your current folder; this example names it UpdateMultipleAzRfc.json:

```
aws amscm create-rfc --generate-cli-skeleton > UpdateMultipleAzRfc.json
```

4. Modify and save the UpdateMultipleAzRfc.json file. For example, you can replace the contents with something like this:

```
"ChangeTypeVersion":
                        "1.0",
"ChangeTypeId":
                         "ct-36jq7gvwyty8h",
"Title":
                        "Update RDS Multiple AZ"
```

Create the RFC, specifying the execution parameters file and the UpdateMultipleAzRfc file:

```
aws amscm create-rfc --cli-input-json file://UpdateMultipleAzRfc.json --execution-
parameters file://UpdateMultipleAzParams.json
```

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

Tips



Note

AMS employs drift detection on certain stacks, including RDS stacks, to determine if configuration changes. The AMS disallows updates to an RDS stack that has been determined to have configuration drift. The RFC will fail with the following error message: "Update cannot be performed on this stack, please contact AMS for further assistance."

To learn more about Amazon RDS, including size recommendations, see Amazon Relational **Database Service Documentation.**

To update an RDS stack for Aurora, see RDS Database Stack | Update.

Update an RDS instance type

Updating an RDS instance type with the Console

Screenshot of this change type in the AMS console:

Update Instance Type Create with older ver		
ID	Execution mode	Version
ct-13swbwdxg106z	Automated	1.0 (only version)
Classification		
Management -> Advanced stack	components -> RDS database stack -> Updat	te instance type
Description		
Change the DB instance type three	ough direct API calls. The RDS instance can b	e standalone or belong to a CloudFormation stack; in the
latter case, the change might cau	ise stack drift. To avoid causing stack drift, p	lease use ct-12w49boaiwtzp instead, or ct-361tlo1k7339x
if the RDS instance was provision	ed via CFN ingestion.	

- 1. Navigate to the **Create RFC** page: In the left navigation pane of the AMS console click **RFCs** to open the RFCs list page, and then click **Create RFC**.
- 2. Choose a popular change type (CT) in the default **Browse change types** view, or select a CT in the **Choose by category** view.
 - Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.
 - To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.
 - **Choose by category**: Select a category, subcategory, item, and operation and the CT details box opens with an option to **Create with older version** if applicable. Click **Create RFC** to open the **Run RFC** page.
- 3. On the Run RFC page, open the CT name area to see the CT details box. A Subject is required (this is filled in for you if you choose your CT in the Browse change types view). Open the Additional configuration area to add information about the RFC.
 - In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the **Additional configuration** area.

- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.
- 5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Updating an RDS instance type with the CLI

How it works:

- 1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id *ID* command with the returned RFC ID.

Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

```
aws amscm list-change-type-version-summaries --filter Attribute=ChangeTypeId, Value=CT\_ID
```

Note

You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \\": [\"email@example.com\"]}}" to the RFC parameters part of the request (not the execution parameters). For a list of all CreateRfc parameters, see the AMS Change Management API Reference.

INLINE CREATE:

Issue the create RFC command with execution parameters provided inline (escape quotation marks when providing execution parameters inline), and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws amscm create-rfc --change-type-id "ct-13swbwdxg106z" --change-type-version
"1.0" --title "Update rds instance type" --execution-parameters "{\"DocumentName\":
\"AWSManagedServices-UpdateRDSInstanceType\",\"Region\":\"us-east-1\",\"Parameters\":
{\"DBInstanceIdentifier\":[\"rt123456789\"], \"DBInstanceClass\": [\"db.m4.large\"],
\"ApplyImmediately\": \"true\"}}"
```

TEMPLATE CREATE:

1. Output the execution parameters for this change type to a JSON file named UpdateInstanceTypeParams.json.

```
aws amscm get-change-type-version --change-type-id "ct-13swbwdxg106z"
  --query "ChangeTypeVersion.ExecutionInputSchema" --output text >
  UpdateInstanceTypeParams.json
```

2. Modify and save the execution parameters JSON file. For example, you can replace the contents with something like this:

Output the JSON template to a file in your current folder; this example names it UpdateInstanceTypeRfc.json:

```
aws amscm create-rfc --generate-cli-skeleton > UpdateInstanceTypeRfc.json
```

4. Modify and save the UpdateInstanceTypeRfc.json file. For example, you can replace the contents with something like this:

```
{
    "ChangeTypeVersion": "1.0",
    "ChangeTypeId": "ct-13swbwdxg106z",
    "Title": "Update RDS instance type"
}
```

5. Create the RFC, specifying the execution parameters file and the UpdateInstanceTypeRfc file:

```
aws amscm create-rfc --cli-input-json file://UpdateInstanceTypeRfc.json --
execution-parameters file://UpdateInstanceTypeParams.json
```

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

Tips



AMS employs drift detection on certain stacks, including RDS stacks, to determine if configuration changes. The AMS disallows updates to an RDS stack that has been determined to have configuration drift. The RFC will fail with the following error message: "Update cannot be performed on this stack, please contact AMS for further assistance."

To learn more about Amazon RDS, including size recommendations, see <u>Amazon Relational</u> <u>Database Service Documentation</u>.

To update an RDS stack for Aurora, see RDS Database Stack | Update.

Update S3 bucket versioning

Updating S3 bucket versioning with the Console

Screenshot of this change type in the AMS console:

Change S3 Bucket Versioning Setting Create with older version			
ID	Execution mode	Version	
ct-2hh93eyzmwbkd	Automated	1.0 (only version)	
Classification			
Management -> Advanced stack o	components -> S3 storage -> Update version	ling	
Description			
Change S3 bucket versioning sett	ing through direct API calls. The S3 bucket o	an be standalone or belong to a CloudFormation stack; in	
		ft, please use ct-1gi93jhvj28eg instead, or ct-	
361tlo1k7339x if the S3 bucket v	as provisioned via CFN ingestion.		

How it works:

- Navigate to the Create RFC page: In the left navigation pane of the AMS console click RFCs to open the RFCs list page, and then click Create RFC.
- 2. Choose a popular change type (CT) in the default **Browse change types** view, or select a CT in the **Choose by category** view.
 - Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.
 - To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.
 - Choose by category: Select a category, subcategory, item, and operation and the CT details box opens with an option to Create with older version if applicable. Click Create RFC to open the Run RFC page.
- 3. On the **Run RFC** page, open the CT name area to see the CT details box. A **Subject** is required (this is filled in for you if you choose your CT in the **Browse change types** view). Open the **Additional configuration** area to add information about the RFC.
 - In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the **Additional configuration** area.

- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.
- 5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Updating S3 bucket versioning with the CLI

How it works:

- 1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id *ID* command with the returned RFC ID.

Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

```
aws amscm list-change-type-version-summaries --filter Attribute=ChangeTypeId, Value=CT\_ID
```

Note

You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \": [\"email@example.com\"]}}" to the RFC parameters part of the request (not the execution parameters). For a list of all CreateRfc parameters, see the AMS Change Management API Reference.

INLINE CREATE:

Issue the create RFC command with execution parameters provided inline (escape quotation marks when providing execution parameters inline), and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws amscm create-rfc --change-type-id "ct-2hh93eyzmwbkd" --change-type-version
"1.0" --title "Update bucket versioning" --execution-parameters "{\"DocumentName\":
\"AWSManagedServices-UpdateBucketVersioning\",\"Region\":\"us-east-1\",\"Parameters\":
{\"BucketName\":[\"BucketName\"],\"Versioning\": \"Enabled\"}}"
```

TEMPLATE CREATE:

1. Output the execution parameters for this change type to a JSON file named UpdateBucketVersioningParams.json.

```
aws amscm get-change-type-version --change-type-id "ct-2hh93eyzmwbkd"
  --query "ChangeTypeVersion.ExecutionInputSchema" --output text >
  UpdateBucketVersioningParams.json
```

2. Modify and save the execution parameters JSON file. For example, you can replace the contents with something like this:

```
{
  "DocumentName": "AWSManagedServices-UpdateBucketVersioning",
  "Region": "us-east-1",
  "Parameters": {
     "BucketName": [
        "BucketName"
     ],
     "Versioning": "Enabled"
  }
}
```

Output the JSON template to a file in your current folder; this example names it UpdateBucketVersioningRfc.json:

```
aws amscm create-rfc --generate-cli-skeleton > UpdateBucketVersioningRfc.json
```

4. Modify and save the UpdateBucketVersioningRfc.json file. For example, you can replace the contents with something like this:

```
{
```

```
"ChangeTypeVersion": "1.0",
"ChangeTypeId": "ct-2hh93eyzmwbkd",
"Title": "Update bucket versioning"
}
```

5. Create the RFC, specifying the execution parameters file and the UpdateRdsRfc file:

```
aws amscm create-rfc --cli-input-json file://UpdateBucketVersioningRfc.json --
execution-parameters file://UpdateBucketVersioningParams.json
```

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

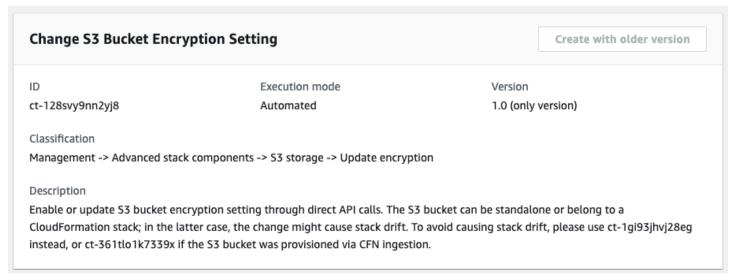
Tips

To learn more about Amazon S3, see Amazon Simple Storage Service Documentation.

Update S3 bucket encryption

Updating S3 bucket encryption with the Console

Screenshot of this change type in the AMS console:



How it works:

1. Navigate to the **Create RFC** page: In the left navigation pane of the AMS console click **RFCs** to open the RFCs list page, and then click **Create RFC**.

- 2. Choose a popular change type (CT) in the default **Browse change types** view, or select a CT in the **Choose by category** view.
 - Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.
 - To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.
 - **Choose by category**: Select a category, subcategory, item, and operation and the CT details box opens with an option to **Create with older version** if applicable. Click **Create RFC** to open the **Run RFC** page.
- 3. On the **Run RFC** page, open the CT name area to see the CT details box. A **Subject** is required (this is filled in for you if you choose your CT in the **Browse change types** view). Open the **Additional configuration** area to add information about the RFC.
 - In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the **Additional configuration** area.
- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.
- 5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Updating S3 bucket encryption with the CLI

How it works:

- 1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id *ID* command with the returned RFC ID.

Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

```
aws amscm list-change-type-version-summaries --filter
Attribute=ChangeTypeId, Value=CT_ID
```

Note

You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \\": [\"email@example.com\"]}}" to the RFC parameters part of the request (not the execution parameters). For a list of all CreateRfc parameters, see the AMS Change Management API Reference.

INLINE CREATE:

Issue the create RFC command with execution parameters provided inline (escape quotation marks when providing execution parameters inline), and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws amscm create-rfc --change-type-id "ct-128svy9nn2yj8" --change-type-version
"1.0" --title "Update bucket encryption" --execution-parameters "{\"DocumentName\":
\"AWSManagedServices-UpdateBucketEncryption\",\"Region\":\"us-east-1\",\"Parameters
\":{\"BucketName\":[\"BucketName\"],\"ServerSideEncryption\": \"KmsManagedKeys\",
\"KMSKeyId\":[\"01234567-abcd-abcd-abcd-0123456789ab\"]}}"
```

TEMPLATE CREATE:

1. Output the execution parameters for this change type to a JSON file named UpdateBucketEncryptionParams.json.

```
aws amscm get-change-type-version --change-type-id "ct-128svy9nn2yj8"
    --query "ChangeTypeVersion.ExecutionInputSchema" --output text >
    UpdateBucketEncryptionParams.json
```

2. Modify and save the execution parameters JSON file. For example, you can replace the contents with something like this:

```
{
```

```
"DocumentName": "AWSManagedServices-UpdateBucketEncryption",
"Region": "us-east-1",
"Parameters": {
    "BucketName": [
        "BucketName"
    ],
    "ServerSideEncryption": "KmsManagedKeys",
    "KMSKeyId": [
        "01234567-abcd-abcd-0123456789ab"
    ]
}
```

Output the JSON template to a file in your current folder; this example names it UpdateBucketEncryptionRfc.json:

```
aws amscm create-rfc --generate-cli-skeleton > UpdateBucketEncryptionRfc.json
```

4. Modify and save the UpdateBucketEncryptionRfc.json file. For example, you can replace the contents with something like this:

```
{
"ChangeTypeVersion": "1.0",
"ChangeTypeId": "ct-128svy9nn2yj8",
"Title": "Update bucket encryption"
}
```

5. Create the RFC, specifying the execution parameters file and the UpdateBucketEncryptionRfc file:

```
aws amscm create-rfc --cli-input-json file://UpdateBucketEncryptionRfc.json --
execution-parameters file://UpdateBucketEncryptionParams.json
```

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

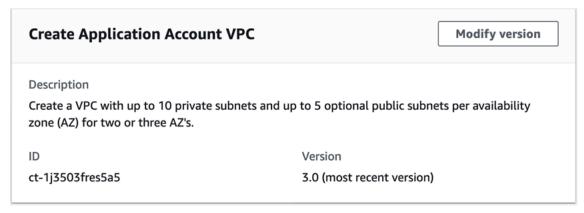
Tips

To learn more about Amazon S3, see Amazon Simple Storage Service Documentation.

Updating an application account (review required)

Updating an application account with the Console

Screenshot of this change type in the AMS console:



How it works:

- 1. Navigate to the **Create RFC** page: In the left navigation pane of the AMS console click **RFCs** to open the RFCs list page, and then click **Create RFC**.
- 2. Choose a popular change type (CT) in the default **Browse change types** view, or select a CT in the **Choose by category** view.
 - Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.
 - To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.
 - Choose by category: Select a category, subcategory, item, and operation and the CT details box opens with an option to Create with older version if applicable. Click Create RFC to open the Run RFC page.
- 3. On the **Run RFC** page, open the CT name area to see the CT details box. A **Subject** is required (this is filled in for you if you choose your CT in the **Browse change types** view). Open the **Additional configuration** area to add information about the RFC.
 - In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the **Additional configuration** area.

- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.
- 5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Updating an application account with the CLI

How it works:

- 1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id *ID* command with the returned RFC ID.

Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

```
aws amscm list-change-type-version-summaries --filter Attribute=ChangeTypeId, Value={\it CT\_ID}
```

Note

You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \": [\"email@example.com\"]}}" to the RFC parameters part of the request (not the execution parameters). For a list of all CreateRfc parameters, see the AMS Change Management API Reference.

INLINE CREATE:



Note

Run this change type from your Application account.

Issue the create RFC command with execution parameters provided inline (escape quotes when providing execution parameters inline), and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws amscm create-rfc --change-type-id "ct-0fuztxgwy37rf" --change-type-version
 "1.0" --title "Child Application Account RFC" --execution-parameters ""{\"RfcId\":
\"7cc277c6-9b55-1f63-361b-5811fce9f830\",\"Comment\":\"test RFC\"}""
```

TEMPLATE CREATE:

Output the execution parameters JSON schema for this change type to a file; this example names it CreateAppAcctVpcParams.json:

```
aws amscm get-change-type-version --change-type-id "ct-0fuztxgwy37rf" --query
 "ChangeTypeVersion.ExecutionInputSchema" -- output text > UpdateAppAcctParams.json
```

Modify and save the UpdateAppAcctParams file. For example, you can replace the contents with something like this:

```
"RfcId": "7cc277c6-9b55-1f63-361b-5811fce9f830",
  "Comment": "test RFC"
}
```

Output the RFC template JSON file to a file; this example names it UpdateAppAcctRfc.json:

```
aws amscm create-rfc --generate-cli-skeleton > UpdateAppAcctRfc.json
```

Modify and save the UpdateAppAcctRfc.json file. For example, you can replace the contents with something like this:

```
"ChangeTypeVersion":
                         "1.0",
"ChangeTypeId":
                         "ct-0fuztxgwy37rf",
"Title":
                         "Child Application Account RFC"
```

}

5. Create the RFC, specifying the UpdateAppAcctRfc file and the UpdateAppAcctParams file:

```
aws amscm create-rfc --cli-input-json file://UpdateAppAcctRfc.json --execution-parameters file://UpdateAppAcctParams.json
```

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

Tips

A

Important

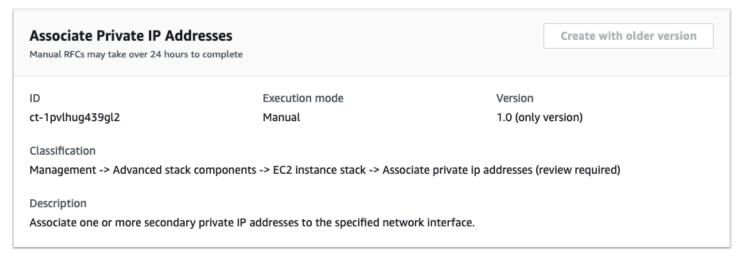
To create an additional public subnet in a new availability zone (AZ), a private subnet must already be present.

- This change type is now at version 3.0 and it has been automated (it is no longer manually run by AMS). The 2.0 version of this change type was a "review required" (manual) change type.
- To learn more about AMS multi-account landing zone, see VPC sharing: A new approach to multiple accounts and VPC management.

Associate private IP addresses (review required) ct-1pvlhug439gl2

Associate private IP addresses with the console

The following shows this change type in the AMS console.



How it works:

- Navigate to the Create RFC page: In the left navigation pane of the AMS console click RFCs to open the RFCs list page, and then click Create RFC.
- 2. Choose a popular change type (CT) in the default **Browse change types** view, or select a CT in the **Choose by category** view.
 - Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.
 - To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.
 - Choose by category: Select a category, subcategory, item, and operation and the CT details box opens with an option to Create with older version if applicable. Click Create RFC to open the Run RFC page.
- 3. On the **Run RFC** page, open the CT name area to see the CT details box. A **Subject** is required (this is filled in for you if you choose your CT in the **Browse change types** view). Open the **Additional configuration** area to add information about the RFC.
 - In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the **Additional configuration** area.
- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.
- 5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Creating a pre-ingest instance with the CLI

How it works:

1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.

2. Submit the RFC: aws amscm submit-rfc --rfc-id ID command with the returned RFC ID.

Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

```
aws amscm list-change-type-version-summaries --filter
Attribute=ChangeTypeId, Value=CT_ID
```

Note

You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \": [\"email@example.com\"]}}" to the RFC parameters part of the request (not the execution parameters). For a list of all CreateRfc parameters, see the AMS Change Management API Reference.

INLINE CREATE:

Issue the create RFC command with execution parameters provided inline (escape quotation marks when providing execution parameters inline), and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws amscm create-rfc --title="Associate Private IP Addresses" --description="Associate Private IP Addresses" --ct-id="ct-1pvlhug439gl2" --ct-version="1.0" --input-params="{\"NetworkInterfaceId\":\"eni-0123456789abcdef0\",\"PrivateIpAddresses\":[\"10.0.0.82\",\"10.0.0.83\"]}"
```

TEMPLATE CREATE:

1. Output the execution parameters for this change type to a JSON file; this example names it AssociatePrivateIPAddressesParams.json:

```
aws amscm get-change-type-version --change-type-id "ct-1pvlhug439g12"
  --query "ChangeTypeVersion.ExecutionInputSchema" --output text >
  AssociatePrivateIPAddressesParams.json
```

2. Modify and save the AssociatePrivateIPAddressesParams file. For example, you can replace the contents with something like this:

```
{
    "NetworkInterfaceId": "eni-0123456789abcdef0",
    "PrivateIpAddresses": ["10.0.0.82", "10.0.0.83"]
}
}
```

3. Output the RFC template to a file in your current folder; this example names it AssociatePrivateIPAddressesRfc.json:

```
aws amscm create-rfc --generate-cli-skeleton > AssociatePrivateIPAddressesRfc.json
```

4. Modify and save the AssociatePrivateIPAddressesRfc.json file. For example, you can replace the contents with something like this:.

```
{
  "ChangeTypeVersion": "1.0",
  "ChangeTypeId": "ct-1pvlhug439g12",
  "Title": "Associate Private IP Addresses"
}
```

5. Create the RFC, specifying the AssociatePrivateIPAddressesRfc file and the AssociatePrivateIPAddressesParams file:

```
aws amscm create-rfc --cli-input-json file://AssociatePrivateIPAddressesRfc.json
   --execution-parameters file://AssociatePrivateIPAddressesParams.json
```

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

Tips

For more information about Amazon EC2 IP addresses, see Amazon EC2 instance IP addressing.

If needed, see EC2 instance stack create fail.

Create Amazon RDS option group (review required)

Creating an Amazon RDS Option Group with the Console

Screenshot of this change type in the AMS console:

▼ Create RDS Option Group

Manual RFCs may take over 24 hours to complete

ID Execution mode Version

ct-10yi1sd9nst1c Manual 1.0 (only version)

Classification

Deployment -> Advanced stack components -> RDS database stack -> Create option group (review required)

Description

An option group specifies features (options), and their settings, that you then associate with an Amazon RDS DB instance. When you associate a DB instance with an option group, the specified options and option settings are enabled for that DB instance.

How it works:

- Navigate to the Create RFC page: In the left navigation pane of the AMS console click RFCs to open the RFCs list page, and then click Create RFC.
- Choose a popular change type (CT) in the default Browse change types view, or select a CT in the Choose by category view.
 - Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.
 - To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.
 - **Choose by category**: Select a category, subcategory, item, and operation and the CT details box opens with an option to **Create with older version** if applicable. Click **Create RFC** to open the **Run RFC** page.
- 3. On the Run RFC page, open the CT name area to see the CT details box. A Subject is required (this is filled in for you if you choose your CT in the Browse change types view). Open the Additional configuration area to add information about the RFC.

In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the **Additional configuration** area.

- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.
- 5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Creating an Amazon RDS Option Group with the CLI

How it works:

- 1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id *ID* command with the returned RFC ID.

Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

```
aws amscm list-change-type-version-summaries --filter
Attribute=ChangeTypeId, Value=CT_ID
```

Note

You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \": [\"email@example.com\"]}}" to the RFC parameters part of the request (not the execution parameters). For a list of all CreateRfc parameters, see the AMS Change Management API Reference.

INLINE CREATE:

Issue the create RFC command with execution parameters provided inline (escape quotation marks when providing execution parameters inline), and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws amscm create-rfc --change-type-id "ct-10yi1sd9nst1c" --change-type-version
"1.0" --title "Create option group (review required)" --execution-parameters
"{\"OptionGroupName\": \"CreatingTheOptionGroup\", \"Description\": \"RDS option
group\", \"EngineName\": \"sqlserver-ee\", \"MajorEngineVersion\": \"10.01\",
\"DBInstanceName\": \"database-1\", \"Priority\": \"Medium\"}"
```

TEMPLATE CREATE:

1. Output the execution parameters for this change type to a JSON file named CreateRdsOptionGroupParams.json.

```
aws amscm get-change-type-version --change-type-id "ct-10yi1sd9nst1c"
   --query "ChangeTypeVersion.ExecutionInputSchema" --output text >
   CreateRdsOptionGroupParams.json
```

Modify and save the execution parameters JSON file. For example, you can replace the contents with something like this:

```
{
  "OptionGroupName": "OptionGroup",
  "EngineName": "sqlserver-ee",
  "MajorEngineVersion": "10.01"
}
```

3. Output the JSON template to a file in your current folder; this example names it CreateRdsOptionGroupRfc.json:

```
aws amscm create-rfc --generate-cli-skeleton > CreateRdsOptionGroupRfc.json
```

4. Modify and save the CreateRdsOptionGroupRfc.json file. For example, you can replace the contents with something like this:

```
{
"ChangeTypeVersion": "1.0",
"ChangeTypeId": "ct-10yi1sd9nst1c",
```

```
"Title": "RDS-Create-RFC"
}
```

5. Create the RFC, specifying the execution parameters file and the CreateRdsOptionGroupRfc file:

```
aws amscm create-rfc --cli-input-json file://CreateRdsOptionGroupRfc.json --
execution-parameters file://CreateRdsOptionGroupParams.json
```

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

Tips

- To learn more about Amazon RDS DB option groups, see Working with option groups.
- You can add up to 50 tags, but to do so you must enable the Advanced view.

Remove TGW static route

Networking account: Remove a TGW static route with the Console

Screenshot of this change type in the AMS console:

Remove TGW Static Route				
ID	Execution mode	Version		
ct-0rmgrnr9w8mzh	Automated	1.0 (most recent version)		
Classification				
Management -> Manage	d landing zone -> Networking	account -> Remove TGW static route		
Description				
Remove the specified TGW static route from the specified transit gateway (TGW) route table.				
Use this multi-account la	ınding zone (MALZ) change typ	oe only in a Networking account.		

How it works:

 Navigate to the Create RFC page: In the left navigation pane of the AMS console click RFCs to open the RFCs list page, and then click Create RFC.

- 2. Choose a popular change type (CT) in the default **Browse change types** view, or select a CT in the **Choose by category** view.
 - Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.
 - To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.
 - Choose by category: Select a category, subcategory, item, and operation and the CT details box opens with an option to Create with older version if applicable. Click Create RFC to open the Run RFC page.
- 3. On the **Run RFC** page, open the CT name area to see the CT details box. A **Subject** is required (this is filled in for you if you choose your CT in the **Browse change types** view). Open the **Additional configuration** area to add information about the RFC.
 - In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the **Additional configuration** area.
- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.
- 5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Networking account: Remove a TGW static route with the CLI

How it works:

- 1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id *ID* command with the returned RFC ID.

Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

```
aws amscm list-change-type-version-summaries --filter
Attribute=ChangeTypeId, Value=CT_ID
```

Note

You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \\": [\"email@example.com\"]}}" to the RFC parameters part of the request (not the execution parameters). For a list of all CreateRfc parameters, see the AMS Change Management API Reference.

INLINE CREATE:

Issue the create RFC command with execution parameters provided inline (escape quotes when providing execution parameters inline), and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws amscm create-rfc --change-type-id "ct-0rmgrnr9w8mzh" --change-type-version "1.0" --title "Remove TGW Static Route" --execution-parameters "{\"DocumentName \": \"AWSManagedServices-RemoveRouteFromTGWRouteTable\",\"Region\": \"us-east-1\",\"Parameters\": {\"TransitGatewayRouteTableId\": \"tgw-rtb-06ddc751c0c0c881c\",\"DestinationCidrBlock\": \"10.16.1.0/24\"}}"
```

TEMPLATE CREATE:

1. Output the execution parameters JSON schema for this change type to a file; this example names it RemoveTgwStaticRouteParams.json:

```
aws amscm get-change-type-version --change-type-id "ct-0rmgrnr9w8mzh"
  --query "ChangeTypeVersion.ExecutionInputSchema" --output text >
RemoveTgwStaticRouteParams.json
```

2. Modify and save the RemoveTgwStaticRouteParams file. For example, you can replace the contents with something like this:

```
{
```

```
"DocumentName": "AWSManagedServices-RemoveRouteFromTGWRouteTable",
   "Region": "us-east-1",
   "Parameters": {
        "TransitGatewayRouteTableId": "tgw-rtb-06ddc751c0c0c881c",
        "DestinationCidrBlock": "10.16.1.0/24"
    }
}
```

3. Output the RFC template JSON file to a file; this example names it RemoveTgwStaticRouteRfc.json:

```
aws amscm create-rfc --generate-cli-skeleton > RemoveTgwStaticRouteRfc.json
```

4. Modify and save the RemoveTgwStaticRouteRfc.json file. For example, you can replace the contents with something like this:

```
{
  "ChangeTypeVersion": "1.0",
  "ChangeTypeId": "ct-0rmgrnr9w8mzh",
  "Title": "Remove TGW Static Route"
}
```

5. Create the RFC, specifying the RemoveTgwStaticRouteRfc file and the RemoveTgwStaticRouteParams file:

```
aws amscm create-rfc --cli-input-json file://RemoveTgwStaticRouteRfc.json --
execution-parameters file://RemoveTgwStaticRouteParams.json
```

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

Tips



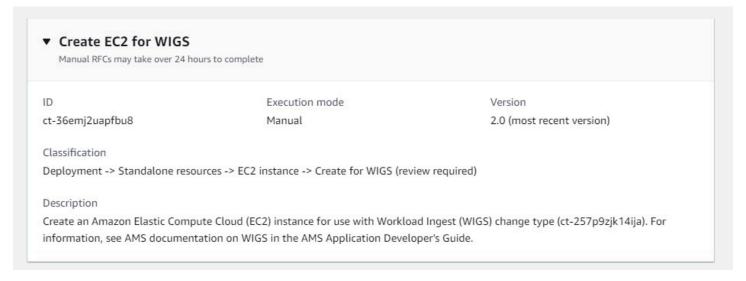
This Change Type is only valid in Multi-account Landing Zone (MALZ) Networking accounts.

To learn more about AMS multi-account landing zones, see <u>AWS Managed Services (AMS) Now</u> Offers Managed Landing Zones.

Create for WIGS (Review Required)

Creating an instance for WIGS with the console

The following shows this change type in the AMS console.



How it works:

- Navigate to the Create RFC page: In the left navigation pane of the AMS console click RFCs to open the RFCs list page, and then click Create RFC.
- 2. Choose a popular change type (CT) in the default **Browse change types** view, or select a CT in the **Choose by category** view.
 - Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.
 - To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.
 - Choose by category: Select a category, subcategory, item, and operation and the CT details box opens with an option to Create with older version if applicable. Click Create RFC to open the Run RFC page.
- 3. On the **Run RFC** page, open the CT name area to see the CT details box. A **Subject** is required (this is filled in for you if you choose your CT in the **Browse change types** view). Open the **Additional configuration** area to add information about the RFC.

In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the **Additional configuration** area.

- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.
- 5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Creating an instance for WIGS with the CLI

How it works:

- 1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id *ID* command with the returned RFC ID.

Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

```
aws amscm list-change-type-version-summaries --filter
Attribute=ChangeTypeId, Value=CT_ID
```

Note

You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \": [\"email@example.com\"]}}" to the RFC parameters part of the request (not the execution parameters). For a list of all CreateRfc parameters, see the AMS Change Management API Reference.

INLINE CREATE:

Issue the create RFC command with execution parameters provided inline (escape quotation marks when providing execution parameters inline), and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws amscm create-rfc --change-type-id "ct-36emj2uapfbu8" --change-type-version "2.0"
--title "Create Pre-Ingestion Instance" --execution-parameters "{\"InstanceVpcId
\": \"vpc-1234567890abcdef0\",\"InstanceAmiId\": \"ami-1234567890abcdef0\",
\"InstanceEBSOptimized\": false,\"InstanceRootVolumeSize\": 60,\"InstanceNameTagValue
\": \"temp-wigs\",\"InstanceType\": \"t3.large\",\"InstanceSubnetId\":
\"subnet-0bb1c79de3EXAMPLE\"}"
```

TEMPLATE CREATE:

 Output the execution parameters for this change type to a JSON file; this example names it CreateEc2PreIngestParams.json:

```
aws amscm get-change-type-version --change-type-id "ct-36emj2uapfbu8"
   --query "ChangeTypeVersion.ExecutionInputSchema" --output text >
   CreateEc2PreIngestParams.json
```

2. Modify and save the CreateEc2PreIngestParams file. For example, you can replace the contents with something like this:

```
{
    "InstanceVpcId": "vpc-1234567890abcdef0",
    "InstanceAmiId": "ami-1234567890abcdef0",
    "InstanceEBSOptimized": false,
    "InstanceRootVolumeSize": 60,
    "InstanceSubnetId": "subnet-1234567890abcdef0",
    "InstanceType": "t3.large",
    "InstanceNameTagValue": "temp-wigs",
}
```

3. Output the RFC template to a file in your current folder; this example names it CreateEc2PreIngestRfc.json:

```
aws amscm create-rfc --generate-cli-skeleton > CreateEc2PreIngestRfc.json
```

4. Modify and save the CreateEc2PreIngestRfc.json file. For example, you can replace the contents with something like this:.

```
{
    "ChangeTypeVersion": "2.0",
    "ChangeTypeId": "ct-36emj2uapfbu8",
    "Title": "Create Pre-Ingestion Instance"
}
```

5. Create the RFC, specifying the CreateEc2PreIngestRfc file and the CreateEc2PreIngestParams file:

```
aws amscm create-rfc --cli-input-json file://CreateEc2PreIngestRfc.json --
execution-parameters file://CreateEc2PreIngestParams.json
```

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

Tips

To use the AWS Marketplace AMI, you must subscribe to the AMI from your AWS Marketplace
account and agree to the terms of the AMI. AMS can't perform these actions for you because,
as a buyer, you perform these actions yourself. If you need additional IAM permissions for these
actions, use the Identity and Access Management (IAM) | Create EC2 Instance Profile change type
in a separate RFC to request them.

Modify EBS volume

Modifying an EBS Volume with the Console

Screenshot of this change type, in the AMS console:

Modify EBS Volume

Modify version

Description

Modify an EBS Volume that is not attached to an EC2 instance in an Auto Scaling group. If you resize the volume, then you may need to extend the operating system (OS) file system on the volume to use any newly allocated space. If a drift is introduced in the CloudFormation stack that was used to create the volume, then the automation can try to remediate the stack drift for stacks that are not created using CloudFormation ingest change type (ct-36cn2avfrrj9v).

ID Version

ct-1wle0ai4en6km 1.0 (only version)

How it works:

- Navigate to the Create RFC page: In the left navigation pane of the AMS console click RFCs to open the RFCs list page, and then click Create RFC.
- 2. Choose a popular change type (CT) in the default **Browse change types** view, or select a CT in the **Choose by category** view.
 - Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.
 - To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.
 - Choose by category: Select a category, subcategory, item, and operation and the CT details box opens with an option to Create with older version if applicable. Click Create RFC to open the Run RFC page.
- 3. On the **Run RFC** page, open the CT name area to see the CT details box. A **Subject** is required (this is filled in for you if you choose your CT in the **Browse change types** view). Open the **Additional configuration** area to add information about the RFC.

In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the **Additional configuration** area.

- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.
- 5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Modifying an EBS Volume with the CLI

How it works:

- 1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id ID command with the returned RFC ID.

Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

```
aws amscm list-change-type-version-summaries --filter Attribute=ChangeTypeId, Value=CT\_ID
```

Note

You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \": [\"email@example.com\"]}}" to the RFC parameters part of the request (not the execution parameters). For a list of all CreateRfc parameters, see the AMS Change Management API Reference.

INLINE CREATE:

Issue the create RFC command with execution parameters provided inline (escape quotes when providing execution parameters inline), and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws amscm create-rfc --change-type-id "ct-1wle0ai4en6km" --change-type-version
"2.0" --title "Modify EBS Volume" --execution-parameters "{\"DocumentName\":
\"AWSManagedServices-ModifyEBSVolumes\",\"Region\":\"us-east-1\",\"Parameters
\":{\"VolumeIds\":[\"vol-1234567890abcdef1\",\"vol-1234567890abcdef2\",
\"vol-1234567890abcdef3\",\"vol-1234567890abcdef4\",\"vol-1234567890abcdef5\"],
\"CreateSnapshot\":[\"False\"],\"VolumeType\":[\"gp3\"],\"VolumeSize\":[\"40\"],\"Iops
\":[\"3000\"],\"Throughput\":[\"200\"],\"RemediateStackDrift\":[\"False\"]}}"
```

TEMPLATE CREATE:

 Output the execution parameters JSON schema for this change type to a JSON file; this example names it ModifyEBSVolumeParams.json:

```
aws amscm get-change-type-version --change-type-id "ct-1wle0ai4en6km"
    --query "ChangeTypeVersion.ExecutionInputSchema" --output text >
    ModifyEBSVolumeParams.json
```

2. Modify and save the ModifyEBSVolumeParams file.

```
{
"DocumentName" : "AWSManagedServices-ModifyEBSVolumes",
"Region": "us-east-1",
"Parameters" : {
  "VolumeIds" : [
          "vol-1234567890abcdef1",
          "vol-1234567890abcdef2",
          "vol-1234567890abcdef3",
          "vol-1234567890abcdef4",
          "vol-1234567890abcdef5"
      ],
  "CreateSnapshot" : [
    "False"
  ],
  "VolumeType" : [
    "qp3"
```

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```
"VolumeSize" : [
    "40"
],
"Iops" : [
    "3000"
],
"Throughput" : [
    "200"
],
"RemediateStackDrift" : [
    "False"
]
}
```

3. Output the RFC template to a file in your current folder; this example names it ModifyEBSVolumeRfc.json:

```
aws amscm create-rfc --generate-cli-skeleton > ModifyEBSVolumeRfc.json
```

4. Modify and save the ModifyEBSVolumeRfc.json file. For example, you can replace the contents with something like this:

```
{
  "ChangeTypeVersion": "2.0",
  "ChangeTypeId": "ct-1wle0ai4en6km",
  "Title": "Modify EBS Volume"
}
```

Create the RFC, specifying the ModifyEBSVolumeRfc file and the ModifyEBSVolumeParams file:

```
aws amscm create-rfc --cli-input-json file://ModifyEBSVolumeRfc.json --execution-
parameters file://ModifyEBSVolumeParams.json
```

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

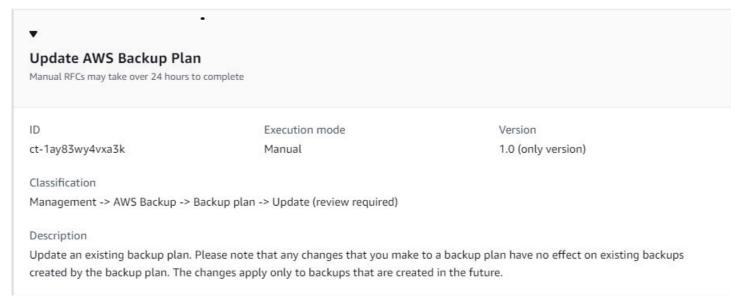
Tips

To learn more about Amazon EBS, see Amazon Elastic Block Store (EBS).

Update AWS Backup plan (review required)

Updating an AWS Backup plan with the console

The following shows this change type in the AMS console.



How it works:

- Navigate to the Create RFC page: In the left navigation pane of the AMS console click RFCs to open the RFCs list page, and then click Create RFC.
- 2. Choose a popular change type (CT) in the default **Browse change types** view, or select a CT in the **Choose by category** view.
 - Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.
 - To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.
 - Choose by category: Select a category, subcategory, item, and operation and the CT details box opens with an option to Create with older version if applicable. Click Create RFC to open the Run RFC page.
- 3. On the **Run RFC** page, open the CT name area to see the CT details box. A **Subject** is required (this is filled in for you if you choose your CT in the **Browse change types** view). Open the **Additional configuration** area to add information about the RFC.

In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the **Additional configuration** area.

- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.
- 5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Updating an AWS Backup plan with the CLI

How it works:

- 1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id *ID* command with the returned RFC ID.

Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

```
aws amscm list-change-type-version-summaries --filter
Attribute=ChangeTypeId, Value=CT_ID
```

Note

You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \": [\"email@example.com\"]}}" to the RFC parameters part of the request (not the execution parameters). For a list of all CreateRfc parameters, see the AMS Change Management API Reference.

INLINE CREATE:

Issue the create RFC command with execution parameters provided inline (escape quotation marks when providing execution parameters inline), and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws amscm create-rfc --change-type-id "ct-lay83wy4vxa3k" --change-type-version

"1.0" --title "Update AWSBackup Plan" --execution-parameters ""{\"BackupPlanName
\":\"PLAN_NAME\",\"ResourceTagKey\":\"TAG_KEY\",\"ResourceTagValue\":
\"TAG_VALUE\",\"BackupRuleName\":\"RULE_NAME\",\"BackupRuleVault\":\"VAULT\",
\"BackupRuleCompletionWindowMinutes\":120,\"BackupRuleScheduleExpression\":\"cron(0)

1 ? * * *)\",\"BackupRuleDeleteAfterDays\":90,\"BackupRuleMoveToColdStorageAfterDays
\":365,\"BackupRuleStartWindowMinutes\":60,\"BackupRuleRecoveryPointTagKey
\":\"TAG_KEY\",\"BackupRuleRecoveryPointTagValue\":\"TAG_VALUE\,
\"BackupRuleEnableContinuousBackup\":\"false\",\"BackupRuleCopyActionsDestVaultArn
\":\"VAULT\",\"BackupRuleCAMoveToColdStorageAfterDays\":0,
\"BackupRuleCopyActionsDeleteAfterDays\":90}\""
```

TEMPLATE CREATE:

1. Output the execution parameters JSON schema for this change type to a JSON file; this example names it UpdateBackupPlanParams.json:

```
aws amscm get-change-type-version --change-type-id "ct-1ay83wy4vxa3k"
  --query "ChangeTypeVersion.ExecutionInputSchema" --output text >
  UpdateBackupPlanParams.json
```

2. Modify and save the UpdateBackupPlanParams file.

```
"BackupPlanName": "MyCustomBackupPlan",
"ResourceTagKey": "custom_backup_test",
"ResourceTagValue": "true",
"WindowsVSS": "disabled",
"BackupRuleName": "BackupRule",
"BackupRuleVault": "ams-custom-backups",
"BackupRuleCompletionWindowMinutes": 1440,
"BackupRuleScheduleExpression": "cron(0 2 ? * * *)",
"BackupRuleDeleteAfterDays": 0,
"BackupRuleMoveToColdStorageAfterDays": 0,
"BackupRuleStartWindowMinutes": 180,
"BackupRuleRecoveryPointTagKey": "test",
```

```
"BackupRuleRecoveryPointTagValue": "test",
"BackupRuleEnableContinuousBackup": "false",
"BackupRuleCopyActionsDestVaultArn": "",
"BackupRuleCAMoveToColdStorageAfterDays": 0,
"BackupRuleCopyActionsDeleteAfterDays": 0
}
```

3. Output the RFC template to a file in your current folder; this example names it UpdateBackupPlanRfc.json:

```
aws amscm create-rfc --generate-cli-skeleton > UpdateBackupPlanRfc.json
```

4. Modify and save the UpdateBackupPlanRfc.json file. For example, you can replace the contents with something like this:

```
{
    "ChangeTypeVersion": "1.0",
    "ChangeTypeId": "ct-lay83wy4vxa3k",
    "Title": "Update AWS Backup Plan"
}
```

5. Create the RFC, specifying the UpdateBackupPlanRfc file and the UpdateBackupPlanParams file:

```
aws amscm create-rfc --cli-input-json file://UpdateBackupPlanRfc.json --execution-parameters file://UpdateBackupPlanParams.json
```

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

Tips



Not all resource types supported by AWS Backup are enabled by default. Review the enabled resource types in your account using <u>Getting Started 1: Service Opt-In</u>.

To learn more about AWS Backup, see AWS Backup: How It Works.

Before creating backup plans, confirm supported resources at Feature availability by resource.

Confirm offboarding



Important

After confirming your intent to offboard the application account, you have 48 hours to run the Management account: Offboard Application account change type (ct-0vdiy51oyrhhm). After 48 hours, the offboarding request fails and the process of confirming and then offboarding must be restarted.

Application account: Confirming offboarding with the Console

Screenshot of this change type in the AMS console:

Confirm A	Account Off	boarding
-----------	-------------	----------

Execution mode Version

ct-2wlfo2jxj2rkj Automated 1.0 (only version)

Classification

Management -> Managed landing zone -> Application account -> Confirm offboarding

Description

Confirm offboarding of the specified application account. Run this from the application account that you want offboarded. Once confirmed, run the Execute offboarding CT (ct-0vdiy51oyrhhm) from the associated management account. Note that this offboarding is intended for account closure and cannot be undone

How it works:

- 1. Navigate to the Create RFC page: In the left navigation pane of the AMS console click RFCs to open the RFCs list page, and then click Create RFC.
- 2. Choose a popular change type (CT) in the default **Browse change types** view, or select a CT in the **Choose by category** view.
 - Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.

To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.

- **Choose by category**: Select a category, subcategory, item, and operation and the CT details box opens with an option to **Create with older version** if applicable. Click **Create RFC** to open the **Run RFC** page.
- 3. On the **Run RFC** page, open the CT name area to see the CT details box. A **Subject** is required (this is filled in for you if you choose your CT in the **Browse change types** view). Open the **Additional configuration** area to add information about the RFC.

In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the **Additional configuration** area.

- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.
- 5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Application account: Confirming offboarding with the CLI

How it works:

- 1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id *ID* command with the returned RFC ID.

Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

aws amscm list-change-type-version-summaries --filter
Attribute=ChangeTypeId, Value=CT_ID



Note

You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \" : [\"email@example.com\"]}}" to the RFC parameters part of the request (not the execution parameters). For a list of all CreateRfc parameters, see the AMS Change Management API Reference.

INLINE CREATE:



Note

Run this change type from your Application account.

Issue the create RFC command with execution parameters provided inline (escape quotes when providing execution parameters inline), and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws amscm create-rfc --change-type-id "ct-2wlfo2jxj2rkj" --change-type-version "1.0" --
title "Confirm Offboarding" --execution-parameters "{\"AccountID\": \"00000000000\",
\"AccountEmail\": \"email@amazon.com\"}"
```

TEMPLATE CREATE:

Output the execution parameters JSON schema for this change type to a file; this example names it ConfirmAppAcctOffBParams.json:

```
aws amscm get-change-type-version --change-type-id "ct-2wlfo2jxj2rkj"
 --query "ChangeTypeVersion.ExecutionInputSchema" --output text >
ConfirmAppAcctOffBParams.json
```

Modify and save the ConfirmAppAcctOffBParams file. For example, you can replace the contents with something like this:

```
"AccountID": "000000000000",
```

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```
"AccountEmail": "email@amazon.com",
}
```

3. Output the RFC template JSON file to a file; this example names it ConfirmAppAcctOffBRfc.json:

```
aws amscm create-rfc --generate-cli-skeleton > ConfirmAppAcctOffBRfc.json
```

4. Modify and save the ConfirmAppAcctOffBRfc.json file. For example, you can replace the contents with something like this:

```
{
  "ChangeTypeVersion": "1.0",
  "ChangeTypeId": "ct-2wlfo2jxj2rkj",
  "Title": "Confirm Offboarding"
}
```

5. Create the RFC, specifying the ConfirmAppAcctOffBRfc file and the ConfirmAppAcctOffBParams file:

```
aws amscm create-rfc --cli-input-json file://ConfirmAppAcctOffBRfc.json --
execution-parameters file://ConfirmAppAcctOffBParams.json
```

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

Tips

- The second step to offboarding the AMS multi-account landing zone Application account is to submit the <u>Management account</u>: <u>Offboard Application account</u> change type (ct-0vdiy51oyrhhm) from the application account within 48 hours of successfully running this change type confirming the intent to offboard.
- For application accounts (other than Customer Managed), run this from the Application account
 that you want offboarded. After successful confirmation, run the <u>Offboard application account</u>
 CT (ct-0vdiy51oyrhhm) from the associated management account. Offboarding is intended for
 account closure and cannot be undone.

 Do not use this CT for Customer Managed application accounts. Go directly to Offboard application account CT (ct-0vdiy51oyrhhm).

Management account: Offboard Application account



Important

You have 48 hours to offboard the specified application account after successfully running the Confirm offboarding change type (ct-2wlfo2jxj2rkj). After 48 hours, the offboarding request fails and the process of confirming and then offboarding must be restarted.

Management account: Offboarding an Application account with the Console

Screenshot of this change type in the AMS console:

Offboard Application Account

ID Execution mode Version

ct-0vdiy51oyrhhm 2.0 (most recent Automated

version)

Classification

Management -> Managed landing zone -> Management account -> Offboard application account

Description

Offboard the specified application account. Run this from the management account for the application account that you want offboarded. You must first confirm the offboarding request by submitting the Confirm offboarding CT (ct-2wlfo2jxj2rkj) from the application account. If you are offboarding a customer-managed account, then ct-2wlfo2jxj2rkj is not needed. After you successfully submit both CTs, AMS can't undo the offboarding, repurpose the account, or help you to remediate issues in the account.

How it works:

1. Navigate to the Create RFC page: In the left navigation pane of the AMS console click RFCs to open the RFCs list page, and then click **Create RFC**.

- 2. Choose a popular change type (CT) in the default **Browse change types** view, or select a CT in the **Choose by category** view.
 - Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.
 - To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.
 - Choose by category: Select a category, subcategory, item, and operation and the CT details box opens with an option to Create with older version if applicable. Click Create RFC to open the Run RFC page.
- 3. On the **Run RFC** page, open the CT name area to see the CT details box. A **Subject** is required (this is filled in for you if you choose your CT in the **Browse change types** view). Open the **Additional configuration** area to add information about the RFC.
 - In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the **Additional configuration** area.
- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.
- 5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Management account: Offboarding an Application account with the CLI

How it works:

- 1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id *ID* command with the returned RFC ID.

Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

```
aws amscm list-change-type-version-summaries --filter Attribute=ChangeTypeId, Value=CT\_ID
```



You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \": [\"email@example.com\"]}}" to the RFC parameters part of the request (not the execution parameters). For a list of all CreateRfc parameters, see the AMS Change Management API Reference.

INLINE CREATE:



Run this change type from the Management account associated with the application account being offboarded.

Issue the create RFC command with execution parameters provided inline (escape quotes when providing execution parameters inline), and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws amscm create-rfc --change-type-id "ct-0vdiy51oyrhhm" --change-type-version
"2.0" --title "Run Offboarding" --execution-parameters "{\"AccountID\":
\"000000000000\\",\"AccountEmail\": \"email@amazon.com\\",\"Confirmation\\": \"confirm\\",
\"DeleteTransitGatewayAttachment\\":true}"
```

TEMPLATE CREATE:

1. Output the execution parameters JSON schema for this change type to a file; this example names it RunAppAcctOffBParams.json:

```
aws amscm get-change-type-version --change-type-id "ct-0vdiy51oyrhhm" --query "ChangeTypeVersion.ExecutionInputSchema" --output text > RunAppAcctOffBParams.json
```

2. Modify and save the RunAppAcctOffBParams file. For example, you can replace the contents with something like this:

```
{
  "AccountID": "00000000000",
  "AccountEmail": "email@amazon.com",
  "Confirmation": "confirm",
  "DeleteTransitGatewayAttachment" : true
}
```

3. Output the RFC template JSON file to a file; this example names it RunAppAcctOffBRfc.json:

```
aws amscm create-rfc --generate-cli-skeleton > RunAppAcctOffBRfc.json
```

4. Modify and save the RunAppAcctOffBRfc.json file. For example, you can replace the contents with something like this:

```
{
  "ChangeTypeVersion": "2.0",
  "ChangeTypeId": "ct-0vdiy51oyrhhm",
  "Title": "Execute Offboarding"
}
```

5. Create the RFC, specifying the RunAppAcctOffBRfc file and the RunAppAcctOffBParams file:

```
aws amscm create-rfc --cli-input-json file://RunAppAcctOffBRfc.json --
execution-parameters file://RunAppAcctOffBParams.json
```

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

Tips

• The first step to offboarding the AMS multi-account landing zone Application account is to submit the Confirm offboarding CT (ct-2wlfo2jxj2rkj) from the application account.

Run this change type within 48 hours of successfully running the confirmation change type.

• There is no prerequisite or confirmation CT for Customer Managed application accounts.

- Note that offboarding is irreversible.
- If you intend to self-operate the account after offboarding from AMS, then make sure to specify DeleteTransitGatewayAttachment parameter as false to retain connectivity.

Deploy AMS Resource Scheduler Solution

Deploying AMS Resource Scheduler solution with the console

The following shows this change type in the AMS console.

Deploy AMS Resource Scheduler

ID Execution mode Version

ct-0ywnhc8e5k9z5 Automated 2.0 (most recent version)

Classification

Deployment -> AMS Resource Scheduler -> Solution -> Deploy

Description

Deploy the AMS Resource Scheduler solution in the account. The AMS Resource Scheduler lets you schedule automatic start and/or stop for Auto Scaling groups, EC2s, and RDS instances. Note that the Resource Scheduler deploys in an enabled state, by default; you can manage that with the AMS Resource Scheduler Disable and Enable change types.

How it works:

- Navigate to the Create RFC page: In the left navigation pane of the AMS console click RFCs to open the RFCs list page, and then click Create RFC.
- 2. Choose a popular change type (CT) in the default **Browse change types** view, or select a CT in the **Choose by category** view.
 - Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.
 - To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.
 - Choose by category: Select a category, subcategory, item, and operation and the CT details box opens with an option to Create with older version if applicable. Click Create RFC to open the Run RFC page.

- 3. On the **Run RFC** page, open the CT name area to see the CT details box. A **Subject** is required (this is filled in for you if you choose your CT in the **Browse change types** view). Open the **Additional configuration** area to add information about the RFC.
 - In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the **Additional configuration** area.
- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.
- 5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Deploying AMS Resource Scheduler solution with the CLI

How it works:

- 1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id *ID* command with the returned RFC ID.

Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

```
aws amscm list-change-type-version-summaries --filter
Attribute=ChangeTypeId, Value=CT_ID
```

Note

You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \" : [\"email@example.com\"]}}" to the RFC parameters part of the request (not

the execution parameters). For a list of all CreateRfc parameters, see the <u>AMS Change</u> Management API Reference.

INLINE CREATE:

Issue the create RFC command with execution parameters provided inline (escape quotes when providing execution parameters inline), and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws amscm create-rfc --change-type-id ct-0ywnhc8e5k9z5 --change-type-version "2.0" --title "Deploy Resource Scheduler" --execution-parameters '{"DocumentName":"AWSManagedServices-HandleAMSResourceSchedulerStack-Admin", "Region": "us-east-1", "Parameters": {"SchedulingActive": ["Yes"], "ScheduledServices": ["ec2, rds, autoscaling"], "TagName": ["Schedule"], "DefaultTimezone": ["America/New_York"], "Action": ["Deploy"]}}'
```

TEMPLATE CREATE:

1. Output the execution parameters JSON schema for this change type to a JSON file; this example names it DeployResSchedulerParams.json:

```
aws amscm get-change-type-version --change-type-id "ct-0ywnhc8e5k9z5"
   --query "ChangeTypeVersion.ExecutionInputSchema" --output text >
   DeployResSchedulerParams.json
```

2. Modify and save the DeployResSchedulerParams file.

```
"DefaultTimezone": [
    "America/New_York"
],
    "Action": [
        "Deploy"
    ]
}
```

3. Output the RFC template to a file in your current folder; this example names it DeployResSchedulerRfc.json:

```
aws amscm create-rfc --generate-cli-skeleton > DeployResSchedulerRfc.json
```

4. Modify and save the DeployResSchedulerRfc.json file. For example, you can replace the contents with something like this:

```
{
    "ChangeTypeVersion": "2.0",
    "ChangeTypeId": "ct-0ywnhc8e5k9z5",
    "Title": "Deploy AMS Resource Scheduler"
}
```

5. Create the RFC, specifying the DeployResSchedulerRfc file and the DeployResSchedulerParams file:

```
aws amscm create-rfc --cli-input-json file://DeployResSchedulerRfc.json --
execution-parameters file://DeployResSchedulerParams.json
```

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

Tips

For background information, see <u>How the AMS Resource Scheduler works</u>. For a quick-start tutorial, see AMS Resource Scheduler quick start.

AMS Resource Scheduler is based on the AWS Instance Scheduler; to learn more, see <u>AWS Instance</u> Scheduler.

Update AMS Resource Scheduler Solution

Updating AMS Resource Scheduler solution with the console

The following shows this change type in the AMS console.

Update AMS Resource Scheduler

ID Execution mode Version

ct-2c7ve50jost1v Automated 2.0 (most recent version)

Classification

Management -> AMS Resource Scheduler -> Solution -> Update

Description

Update the AMS Resource Scheduler solution in the account.

How it works:

- Navigate to the Create RFC page: In the left navigation pane of the AMS console click RFCs to open the RFCs list page, and then click Create RFC.
- 2. Choose a popular change type (CT) in the default **Browse change types** view, or select a CT in the **Choose by category** view.
 - Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.
 - To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.
 - Choose by category: Select a category, subcategory, item, and operation and the CT details box opens with an option to Create with older version if applicable. Click Create RFC to open the Run RFC page.
- 3. On the **Run RFC** page, open the CT name area to see the CT details box. A **Subject** is required (this is filled in for you if you choose your CT in the **Browse change types** view). Open the **Additional configuration** area to add information about the RFC.

In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the **Additional configuration** area.

- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.
- 5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Updating AMS Resource Scheduler solution with the CLI

How it works:

- 1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id *ID* command with the returned RFC ID.

Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

```
aws amscm list-change-type-version-summaries --filter
Attribute=ChangeTypeId, Value=CT_ID
```

Note

You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \": [\"email@example.com\"]}}" to the RFC parameters part of the request (not the execution parameters). For a list of all CreateRfc parameters, see the AMS Change Management API Reference.

INLINE CREATE:

Issue the create RFC command with execution parameters provided inline (escape quotes when providing execution parameters inline), and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws amscm create-rfc --change-type-id ct-2c7ve50jost1v --change-type-
version "2.0" --title "Update Resource Scheduler Configurations"
   --execution-parameters '{"DocumentName":"AWSManagedServices-
HandleAMSResourceSchedulerStack-Admin", "Region":"us-east-1", "Parameters":
{"SchedulingActive":["Yes"], "ScheduledServices":["ec2, rds, autoscaling"], "TagName":
["Schedule"], "DefaultTimezone":["America/New_York"], "Action":["Update"]}}'
```

TEMPLATE CREATE:

 Output the execution parameters JSON schema for this change type to a JSON file; this example names it UpdateResSchedulerParams.json:

```
aws amscm get-change-type-version --change-type-id "ct-2c7ve50jost1v"
   --query "ChangeTypeVersion.ExecutionInputSchema" --output text >
   UpdateResSchedulerParams.json
```

2. Modify and save the UpdateResSchedulerParams file.

```
{
  "DocumentName": "AWSManagedServices-HandleAMSResourceSchedulerStack-Admin",
  "Region": "us-east-1",
  "Parameters": {
    "SchedulingActive": [
      "Yes"
    ],
    "ScheduledServices": [
      "ec2, rds, autoscaling"
    ],
    "TagName": [
      "Schedule"
    ],
    "DefaultTimezone": [
      "America/New_York"
    ],
    "Action": [
      "Update"
```

```
]
}
}
```

3. Output the RFC template to a file in your current folder; this example names it UpdateResSchedulerRfc.json:

```
aws amscm create-rfc --generate-cli-skeleton > UpdateResSchedulerRfc.json
```

4. Modify and save the UpdateResSchedulerRfc.json file. For example, you can replace the contents with something like this:

```
{
    "ChangeTypeVersion": "2.0",
    "ChangeTypeId": "ct-2c7ve50jost1v",
    "Title": "Update Resource Scheduler Configurations"
}
```

5. Create the RFC, specifying the UpdateResSchedulerRfc file and the UpdateResSchedulerParams file:

```
aws amscm create-rfc --cli-input-json file://UpdateResSchedulerRfc.json --
execution-parameters file://UpdateResSchedulerParams.json
```

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

Tips

For background information, see <u>How the AMS Resource Scheduler works</u>. For a quick-start tutorial, see <u>AMS Resource Scheduler quick start</u>.

AMS Resource Scheduler is based on the AWS Instance Scheduler; to learn more, see <u>AWS Instance</u> Scheduler.

Delete or deactivate access key

Deleting or deactivating access key with the console

)	Execution mode	Version
t-37qquo9wbpa8x	Automated	1.0 (only version)
lassification		
lanagement -> Advanced stack	components -> Identity and Access Manager	nent (IAM) -> Delete or deactivate access key

How it works:

- Navigate to the Create RFC page: In the left navigation pane of the AMS console click RFCs to open the RFCs list page, and then click Create RFC.
- 2. Choose a popular change type (CT) in the default **Browse change types** view, or select a CT in the **Choose by category** view.
 - Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.
 - To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.
 - **Choose by category**: Select a category, subcategory, item, and operation and the CT details box opens with an option to **Create with older version** if applicable. Click **Create RFC** to open the **Run RFC** page.
- 3. On the **Run RFC** page, open the CT name area to see the CT details box. A **Subject** is required (this is filled in for you if you choose your CT in the **Browse change types** view). Open the **Additional configuration** area to add information about the RFC.
 - In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the **Additional configuration** area.

- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.
- 5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Deleting or deactivating access key with the CLI

How it works:

- 1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id *ID* command with the returned RFC ID.

Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

```
aws amscm list-change-type-version-summaries --filter Attribute=ChangeTypeId, Value=CT\_ID
```

Note

You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \": [\"email@example.com\"]}}" to the RFC parameters part of the request (not the execution parameters). For a list of all CreateRfc parameters, see the AMS Change Management API Reference.



Note

When pasting in a policy document, note that the RFC only accepts policy pastes up to 5,000 characters. If your file has more than 5,000 characters, create a service request to upload the policy and then refer to that service request in the RFC that you open for IAM.

INLINE CREATE:

Issue the create RFC command with execution parameters provided inline (escape quotes when providing execution parameters inline), and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws amscm create-rfc --change-type-id "ct-37qquo9wbpa8x" --change-type-version "1.0"
 --title "Delete or deactivate access key" --execution-parameters "{\"DocumentName\":
\"AWSManagedServices-DeactivateIAMAccessKey\",\"Region\": \"us-east-1\",\"Parameters
\": {\"UserName\": \"test-user\", \"AccessKeyId\": \"AKIAIOSFODNN7EXAMPLE\", \"Delete
\": false}}"
```

TEMPLATE CREATE:

Output the execution parameters JSON schema for this change type to a file; example names it DeactivatelamAccessKeyParams.json:

```
aws amscm get-change-type-version --change-type-id "ct-37qquo9wbpa8x"
 --query "ChangeTypeVersion.ExecutionInputSchema" --output text >
DeactivateIamAccessKeyParams.json
```

Modify and save the DeactivatelamAccessKey file; example creates an IAM Role with policy documents pasted inline.

```
"DocumentName": "AWSManagedServices-DeactivateIAMAccessKey",
"Region": "us-east-1",
"Parameters": {
  "UserName": "test-user",
  "AccessKeyId": "AKIAIOSFODNN7EXAMPLE",
  "Delete": false
}
}
```

}

3. Output the RFC template JSON file to a file named DeactivateIamAccessKeyRfc.json:

```
aws amscm create-rfc --generate-cli-skeleton > DeactivateIamAccessKeyRfc.json
```

4. Modify and save the DeactivateIamAccessKeyRfc.json file. For example, you can replace the contents with something like this:

```
{
    "ChangeTypeVersion": "1.0",
    "ChangeTypeId": "ct-37qquo9wbpa8x",
    "Title": "Delete or Deactivate Access Key"
}
```

5. Create the RFC, specifying the DeactivatelamAccessKeyRfc.json file and the CreatelamResourceNrrParams file:

```
aws amscm create-rfc --cli-input-json file://DeactivateIamAccessKeyRfc.json --
execution-parameters file://DeactivateIamAccessKeyParams.json
```

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

Tips

For information about AWS Identity and Access Management, see <u>AWS Identity and Access</u>
 <u>Management (IAM)</u> and for policy information, see <u>Managed policies</u> and inline policies. For information about AMS permissions, see <u>Deploying IAM resources</u>.

Create access key

Creating access key with the console

▼ Create Access Key

ID Execution mode Version

ct-2hhqzgxvkcig8 Automated 2.0 (most recent version)

Classification

Deployment -> Advanced stack components -> Identity and Access Management (IAM) -> Create access key

Description

Create a new AWS secret access key and corresponding AWS access key ID for the specified user.

How it works:

- Navigate to the Create RFC page: In the left navigation pane of the AMS console click RFCs to open the RFCs list page, and then click Create RFC.
- 2. Choose a popular change type (CT) in the default **Browse change types** view, or select a CT in the **Choose by category** view.
 - Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.
 - To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.
 - Choose by category: Select a category, subcategory, item, and operation and the CT details box opens with an option to Create with older version if applicable. Click Create RFC to open the Run RFC page.
- 3. On the **Run RFC** page, open the CT name area to see the CT details box. A **Subject** is required (this is filled in for you if you choose your CT in the **Browse change types** view). Open the **Additional configuration** area to add information about the RFC.

In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the **Additional configuration** area.

- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.
- 5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Creating access key with the CLI

How it works:

- 1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id *ID* command with the returned RFC ID.

Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

```
aws amscm list-change-type-version-summaries --filter Attribute=ChangeTypeId, Value=CT\_ID
```

Note

You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \": [\"email@example.com\"]}}" to the RFC parameters part of the request (not the execution parameters). For a list of all CreateRfc parameters, see the AMS Change Management API Reference.



Note

When pasting in a policy document, note that the RFC only accepts policy pastes up to 5,000 characters. If your file has more than 5,000 characters, create a service request to upload the policy and then refer to that service request in the RFC that you open for IAM.

INLINE CREATE:

Issue the create RFC command with execution parameters provided inline (escape quotes when providing execution parameters inline), and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws amscm create-rfc --change-type-id "ct-2hhqzgxvkcig8" --change-type-version
 "2.0" --title "Create access key" --execution-parameters "{\"DocumentName\":
 \"AWSManagedServices-CreateIAMAccessKey\",\"Region\": \"us-east-1\",\"Parameters\":
 {\"UserARN\": \"arn:aws:iam::012345678910:user/myusername\"}}"
```

TEMPLATE CREATE:

Output the execution parameters JSON schema for this change type to a file; example names it CreatelamAccessKeyParameters.json:

```
aws amscm get-change-type-version --change-type-id "ct-2hhqzgxvkcig8"
 --query "ChangeTypeVersion.ExecutionInputSchema" --output text >
 CreateIamAccessKeyParameters.json
```

Modify and save the CreatelamAccessKeyParameters.json file; example creates an IAM Role with policy documents pasted inline.

```
{
    "DocumentName": "AWSManagedServices-CreateIAMAccessKey",
    "Region": "ap-southeast-2",
    "Parameters": {
        "UserARN": "arn:aws:iam::012345678910:user/myusername"
    }
  }
}
```

Output the RFC template JSON file to a file named CreatelamAccessKeyRfc.json:

```
aws amscm create-rfc --generate-cli-skeleton > CreateIamAccessKeyRfc.json
```

4. Modify and save the CreatelamAccessKeyRfc.json file. For example, you can replace the contents with something like this:

```
{
  "ChangeTypeVersion": "2.0",
  "ChangeTypeId": "ct-2hhqzgxvkcig8",
  "Title": "Create IAM access key"
}
```

Create the RFC, specifying the CreatelamAccessKeyRfc.json file and the CreatelamAccessKeyParameters.json file:

```
aws amscm create-rfc --cli-input-json file://CreateIamAccessKeyRFC.json --
execution-parameters file://CreateIamAccessKeyParameters.json
```

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

Tips

For information about AWS Identity and Access Management, see <u>AWS Identity and Access</u>
 <u>Management (IAM)</u> and for policy information, see <u>Managed policies</u> and inline policies. For information about AMS permissions, see <u>Deploying IAM resources</u>.

Enable Detailed Monitoring

Enable detailed monitoring with the console

The following shows this change type in the AMS console.

Enable Detailed Monitoring Manual RFCs may take over 24 hours to complete

Execution mode Version ID

ct-211l2gxvsrrhy Manual 1.0 (only version)

Classification

Management -> Advanced stack components -> EC2 instance stack -> Enable detailed monitoring (review required)

Description

Enable detailed monitoring for the specified EC2 instance. Detailed monitoring incurs a charge. EC2 detailed monitoring provides more frequent metrics, published at one-minute intervals, instead of the five-minute intervals used in Amazon EC2 basic monitoring.

How it works:

- 1. Navigate to the Create RFC page: In the left navigation pane of the AMS console click RFCs to open the RFCs list page, and then click Create RFC.
- 2. Choose a popular change type (CT) in the default Browse change types view, or select a CT in the **Choose by category** view.
 - Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.
 - To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click Create RFC to open the Run RFC page. If applicable, a Create with older version option appears next to the Create RFC button.
 - Choose by category: Select a category, subcategory, item, and operation and the CT details box opens with an option to Create with older version if applicable. Click Create RFC to open the Run RFC page.
- 3. On the Run RFC page, open the CT name area to see the CT details box. A Subject is required (this is filled in for you if you choose your CT in the Browse change types view). Open the **Additional configuration** area to add information about the RFC.

In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the Additional configuration area.

- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.
- 5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Enable detailed monitoring with the CLI

How it works:

- 1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id ID command with the returned RFC ID.

Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

```
aws amscm list-change-type-version-summaries --filter Attribute=ChangeTypeId, Value=CT\_ID
```

Note

You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \": [\"email@example.com\"]}}" to the RFC parameters part of the request (not the execution parameters). For a list of all CreateRfc parameters, see the AMS Change Management API Reference.

INLINE CREATE:

Issue the create RFC command with execution parameters provided inline (escape quotation marks when providing execution parameters inline), and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws amscm create-rfc --change-type-id "ct-21112gxvsrrhy" --change-type-version "1.0"
   --title "Enable Detailed Monitoring" --execution-parameters "{\"InstanceIds\":
   [\"i-1234567890abcdef0\",\"i-1234567890abcdef1\"]}"
```

TEMPLATE CREATE:

 Output the execution parameters for this change type to a JSON file; this example names it EnableDetailedMonitoringParams.json:

```
aws amscm get-change-type-version --change-type-id "ct-21112gxvsrrhy"
  --query "ChangeTypeVersion.ExecutionInputSchema" --output text >
  EnableDetailedMonitoringParams.json
```

2. Modify and save the EnableDetailedMonitoringParams file, retaining only the parameters that you want to change. For example, you can replace the contents with something like this:

```
{
    "InstanceIds": ["i-0cc489fa851c31a21","i-0cc489fa851c31a22"]
}
```

3. Output the RFC template to a file in your current folder; this example names it EnableDetailedMonitoringRfc.json:

```
aws amscm create-rfc --generate-cli-skeleton > EnableDetailedMonitoringRfc.json
```

4. Modify and save the EnableDetailedMonitoringRfc file. For example, you can replace the contents with something like this:

```
{
   "ChangeTypeVersion": "1.0",
   "ChangeTypeId": "ct-21112gxvsrrhy",
   "Title": "Enable Detailed Monitoring"
}
```

5. Create the RFC, specifying the EnableDetailedMonitoringRfc file and the EnableDetailedMonitoringParams file:

```
aws amscm create-rfc --cli-input-json file://EnableDetailedMonitoringRfc.json --
execution-parameters file://EnableDetailedMonitoringParams.json
```

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

Tips

For more information about Amazon EC2, including size recommendations, see <u>Amazon Elastic</u> Compute Cloud Documentation.

Update the DeleteOnTermination option (review required)

Updating the DeleteOnTermination option with the Console

Screenshot of this change type in the AMS console:

▼ Update DeleteOnTerm Manual RFCs may take over 24 hou			
ID	Execution mode	Version	
ct-2aaaqid7asjy6	Manual	1.0 (only version)	
Classification			
Management -> Advanced stack of	components -> EC2 instance stack -> Update	DeleteOnTermination (review required)	
Description			
Update the EBS volume DeleteOr	Termination property of the specified EC2 i	nstance devices.	

How it works:

- 1. Navigate to the **Create RFC** page: In the left navigation pane of the AMS console click **RFCs** to open the RFCs list page, and then click **Create RFC**.
- 2. Choose a popular change type (CT) in the default **Browse change types** view, or select a CT in the **Choose by category** view.
 - Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.

To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.

- Choose by category: Select a category, subcategory, item, and operation and the CT details box opens with an option to Create with older version if applicable. Click Create RFC to open the Run RFC page.
- 3. On the **Run RFC** page, open the CT name area to see the CT details box. A **Subject** is required (this is filled in for you if you choose your CT in the **Browse change types** view). Open the **Additional configuration** area to add information about the RFC.
 - In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the **Additional configuration** area.
- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.
- 5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Updating the DeleteOnTermination option with the CLI

How it works:

- 1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id *ID* command with the returned RFC ID.

Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

aws amscm list-change-type-version-summaries --filter
Attribute=ChangeTypeId, Value=CT_ID



Note

You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \" : [\"email@example.com\"]}}" to the RFC parameters part of the request (not the execution parameters). For a list of all CreateRfc parameters, see the AMS Change Management API Reference.

INLINE CREATE:

Issue the create RFC command with execution parameters provided inline (escape quotation marks when providing execution parameters inline), and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws amscm create-rfc --change-type-id "ct-2aaaqid7asjy6" --change-type-version
 "1.0" --title "Update DeleteOnTermination" --execution-parameters "{\"InstanceId
\": \"i-1234567890abcdef0\", \"DeviceNames\": [\"/dev/sda1\", \"/dev/xvda\"],
\"DeleteOnTermination\": \"False\"}"
```

TEMPLATE CREATE:

Output the execution parameters for this change type to a JSON file; this example names it UpdateDeleteOnTerminationParams.json:

```
aws amscm get-change-type-version --change-type-id "ct-2aaaqid7asjy6"
 --query "ChangeTypeVersion.ExecutionInputSchema" --output text >
UpdateDeleteOnTerminationParames.json
```

Modify and save the UpdateDeleteOnTerminationParams.json file, retaining only the parameters that you want to change. For example, you can replace the contents with something like this:

```
"InstanceId": "i-0cc489fa851c31a21",
"DeviceNames": [
  "/dev/sda1",
  "/dev/xvda"
],
```

```
"DeleteOnTermination": "False"
}
```

3. Output the RFC template to a file in your current folder; this example names it UpdateDeleteOnTerminationRfc.json:

```
aws amscm create-rfc --generate-cli-skeleton > UpdateDeleteOnTerminationRfc.json
```

4. Modify and save the UpdateDeleteOnTerminationRfc.json file. For example, you can replace the contents with something like this:

```
{
"ChangeTypeVersion": "1.0",
"ChangeTypeId": "ct-2aaaqid7asjy6",
"Title": "Update DeleteOnTermination"
}
```

5. Create the RFC, specifying the UpdateDeleteOnTerminationRfc.json file and the UpdateDeleteOnTerminationParams.json file:

```
aws amscm create-rfc --cli-input-json file://UpdateDeleteOnTerminationRfc.json --
execution-parameters file://UpdateDeleteOnTerminationParams.json
```

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

6. You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

Tips

To learn more about Amazon EC2, including size recommendations, see <u>Amazon Elastic Compute</u> Cloud Documentation.

Update RDS maintainance window (review required)

Updating an RDS maintainance window with the Console

Screenshot of this change type in the AMS console:

▼ Update RDS Maintenance Window

Manual RFCs may take over 24 hours to complete

ID Execution mode Version

ct-27jjy5wnrfef2 Manual 1.0 (only version)

Classification

Management -> Advanced stack components -> RDS database stack -> Update maintenance window (review required)

Description

Update RDS maintenance window in a weekly time range (in UTC) during which system maintenance can occur. Changing RDS maintenance window doesn't result in an outage. If moving this window to the current time, there must be at least 30 minutes between the current time and end of the window to ensure pending changes are applied.

How it works:

- Navigate to the Create RFC page: In the left navigation pane of the AMS console click RFCs to open the RFCs list page, and then click Create RFC.
- 2. Choose a popular change type (CT) in the default **Browse change types** view, or select a CT in the **Choose by category** view.
 - Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.
 - To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.
 - Choose by category: Select a category, subcategory, item, and operation and the CT details box opens with an option to Create with older version if applicable. Click Create RFC to open the Run RFC page.
- 3. On the Run RFC page, open the CT name area to see the CT details box. A Subject is required (this is filled in for you if you choose your CT in the Browse change types view). Open the Additional configuration area to add information about the RFC.

In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the **Additional configuration** area.

- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.
- 5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Updating an RDS maintainance window with the CLI

How it works:

- 1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id *ID* command with the returned RFC ID.

Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

```
aws amscm list-change-type-version-summaries --filter Attribute=ChangeTypeId, Value=CT\_ID
```

Note

You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \": [\"email@example.com\"]}}" to the RFC parameters part of the request (not the execution parameters). For a list of all CreateRfc parameters, see the AMS Change Management API Reference.

INLINE CREATE:

Issue the create RFC command with execution parameters provided inline (escape quotation marks when providing execution parameters inline), and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws amscm create-rfc --change-type-id "ct-27jjy5wnrfef2" --change-type-version "1.0"
   --title "Update RDS Maintenance Window" --execution-parameters "{\"DBIdentifierArn\":
   \"arn:aws:rds:us-east-1:123456789101:db:database-1\", \"PreferredMaintenanceWindow\":
   \"Sun:04:00-Sun:04:30\"}"
```

TEMPLATE CREATE:

1. Output the execution parameters for this change type to a JSON file named UpdateRDSMaintenanceWindowParams.json.

```
aws amscm get-change-type-version --change-type-id "ct-27jjy5wnrfef2"
   --query "ChangeTypeVersion.ExecutionInputSchema" --output text >
   UpdateRDSMaintenanceWindowParams.json
```

2. Modify and save the execution parameters JSON file. For example, you can replace the contents with something like this:

```
{
   "DBIdentifierArn": "arn:aws:rds:us-east-1:123456789101:db:database-1",
   "PreferredMaintenanceWindow": "Sun:04:00-Sun:04:30"
}
```

3. Output the JSON template to a file in your current folder; this example names it UpdateRDSMaintenanceWindowRfc.json:

```
aws amscm create-rfc --generate-cli-skeleton > UpdateRDSMaintenanceWindowRfc.json
```

4. Modify and save the UpdateRDSMaintenanceWindowRfc.json file. For example, you can replace the contents with something like this:

```
{
  "ChangeTypeVersion": "1.0",
  "ChangeTypeId": "ct-27jjy5wnrfef2",
  "Title": "Update RDS Maintenance Window"
}
```

Create the RFC, specifying the execution parameters file and the UpdateRDSMaintenanceWindowRfc.json file:

```
aws amscm create-rfc --cli-input-json file://UpdateRDSMaintenanceWindowRfc.json --
execution-parameters file://UpdateRDSMaintenanceWindowParams.json
```

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

Tips



Note

AMS employs drift detection on certain stacks, including RDS stacks, to determine if configuration changes. The AMS disallows updates to an RDS stack that has been determined to have configuration drift. The RFC will fail with the following error message: "Update cannot be performed on this stack, please contact AMS for further assistance."

To learn more about Amazon RDS, including size recommendations, see Amazon Relational **Database Service Documentation.**

Update RDS performance insights (review required)

Updating an RDS performance insights with the Console

Screenshot of this change type in the AMS console:

▼ Update Performance Insights.

Manual RFCs may take over 24 hours to complete

ID Execution mode Version

ct-31eyj2hlvqjwu Manual 1.0 (only version)

Classification

Management -> Advanced stack components -> RDS database stack -> Update Performance Insights (review required)

Description

Update Performance Insights for a DB instance or Multi-AZ DB cluster. Amazon RDS Performance Insights is a database performance tuning and monitoring feature that helps you assess the load on your database. You can change settings, enable, or disable the feature.

How it works:

- Navigate to the Create RFC page: In the left navigation pane of the AMS console click RFCs to open the RFCs list page, and then click Create RFC.
- 2. Choose a popular change type (CT) in the default **Browse change types** view, or select a CT in the **Choose by category** view.
 - Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.
 - To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.
 - Choose by category: Select a category, subcategory, item, and operation and the CT details box opens with an option to Create with older version if applicable. Click Create RFC to open the Run RFC page.
- 3. On the **Run RFC** page, open the CT name area to see the CT details box. A **Subject** is required (this is filled in for you if you choose your CT in the **Browse change types** view). Open the **Additional configuration** area to add information about the RFC.
 - In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the **Additional configuration** area.

- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.
- 5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Updating performance insights with the CLI

How it works:

- 1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id *ID* command with the returned RFC ID.

Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

```
aws amscm list-change-type-version-summaries --filter Attribute=ChangeTypeId, Value=CT\_ID
```

Note

You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \": [\"email@example.com\"]}}" to the RFC parameters part of the request (not the execution parameters). For a list of all CreateRfc parameters, see the AMS Change Management API Reference.

INLINE CREATE:

Issue the create RFC command with execution parameters provided inline (escape quotation marks when providing execution parameters inline), and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws amscm create-rfc --change-type-id "ct-31eyj2hlvqjwu" --change-type-
version "1.0" --title "Update Performance Insights." --execution-parameters
  "{\"DBIdentifierArn\": \"arn:aws:rds:us-east-1:123456789012:cluster:database-1\",
  \"PerformanceInsights\": \"true\", \"PerformanceInsightsKMSKeyId\": \"default\",
  \"PerformanceInsightsRetentionPeriod\": \"7 days\"}"
```

TEMPLATE CREATE:

1. Output the execution parameters for this change type to a JSON file named UpdatePerformanceInsightsParams.json.

```
aws amscm get-change-type-version --change-type-id "ct-31eyj2hlvqjwu"
   --query "ChangeTypeVersion.ExecutionInputSchema" --output text >
   UpdatePerformanceInsightsParams.json
```

2. Modify and save the execution parameters JSON file. For example, you can replace the contents with something like this:

```
{
   "DBIdentifierArn": "arn:aws:rds:us-east-1:123456789101:cluster:database-1",
   "PerformanceInsights": "true",
   "PerformanceInsightsKMSKeyId": "default",
   "PerformanceInsightsRetentionPeriod": "7 days"
}
```

3. Output the JSON template to a file in your current folder; this example names it UpdatePerformanceInsightsRfc.json:

```
aws amscm create-rfc --generate-cli-skeleton > UpdatePerformanceInsightsRfc.json
```

4. Modify and save the UpdatePerformanceInsightsRfc.json file. For example, you can replace the contents with something like this:

```
{
"ChangeTypeVersion": "1.0",
"ChangeTypeId": "ct-31eyj2hlvqjwu",
"Title": "Update Performance Insights"
```

}

Create the RFC, specifying the execution parameters file and the UpdateRdsRfc file:

```
aws amscm create-rfc --cli-input-json file://UpdatePerformanceInsightsRfc.json --
execution-parameters file://UpdatePerformanceInsightsParams.json
```

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

Tips



Note

AMS employs drift detection on certain stacks, including RDS stacks, to determine if configuration changes. The AMS disallows updates to an RDS stack that has been determined to have configuration drift. The RFC will fail with the following error message: "Update cannot be performed on this stack, please contact AMS for further assistance."

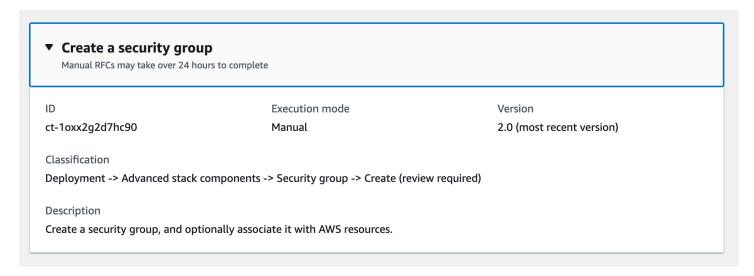
To learn more about Amazon RDS, including size recommendations, see Amazon Relational **Database Service Documentation.**

To update an RDS stack for Aurora, see RDS Database Stack | Update.

Create security group (review required)

Creating a Security Group (review required) with the Console

Screenshot of this change type in the AMS console:



How it works:

- Navigate to the Create RFC page: In the left navigation pane of the AMS console click RFCs to open the RFCs list page, and then click Create RFC.
- 2. Choose a popular change type (CT) in the default **Browse change types** view, or select a CT in the **Choose by category** view.
 - Browse by change type: You can click on a popular CT in the Quick create area to immediately open the Run RFC page. Note that you cannot choose an older CT version with quick create.
 - To sort CTs, use the **All change types** area in either the **Card** or **Table** view. In either view, select a CT and then click **Create RFC** to open the **Run RFC** page. If applicable, a **Create with older version** option appears next to the **Create RFC** button.
 - Choose by category: Select a category, subcategory, item, and operation and the CT details box opens with an option to Create with older version if applicable. Click Create RFC to open the Run RFC page.
- 3. On the **Run RFC** page, open the CT name area to see the CT details box. A **Subject** is required (this is filled in for you if you choose your CT in the **Browse change types** view). Open the **Additional configuration** area to add information about the RFC.
 - In the **Execution configuration** area, use available drop-down lists or enter values for the required parameters. To configure optional execution parameters, open the **Additional configuration** area.
- 4. When finished, click **Run**. If there are no errors, the **RFC successfully created** page displays with the submitted RFC details, and the initial **Run output**.

5. Open the **Run parameters** area to see the configurations you submitted. Refresh the page to update the RFC execution status. Optionally, cancel the RFC or create a copy of it with the options at the top of the page.

Creating a Security Group (review required) with the CLI

How it works:

- 1. Use either the Inline Create (you issue a create-rfc command with all RFC and execution parameters included), or Template Create (you create two JSON files, one for the RFC parameters and one for the execution parameters) and issue the create-rfc command with the two files as input. Both methods are described here.
- 2. Submit the RFC: aws amscm submit-rfc --rfc-id *ID* command with the returned RFC ID.

Monitor the RFC: aws amscm get-rfc --rfc-id *ID* command.

To check the change type version, use this command:

```
aws amscm list-change-type-version-summaries --filter
Attribute=ChangeTypeId, Value=CT_ID
```

Note

You can use any CreateRfc parameters with any RFC whether or not they are part of the schema for the change type. For example, to get notifications when the RFC status changes, add this line, --notification "{\"Email\": {\"EmailRecipients \": [\"email@example.com\"]}}" to the RFC parameters part of the request (not the execution parameters). For a list of all CreateRfc parameters, see the AMS Change Management API Reference.

INLINE CREATE:

Issue the create RFC command with execution parameters provided inline (escape quotes when providing execution parameters inline), and then submit the returned RFC ID. For example, you can replace the contents with something like this:

```
aws --profile saml amscm create-rfc --change-type-id "ct-1oxx2g2d7hc90" --change-type-version "2.0" --title "Test-SG-RR" --execution-parameters "{\"Description\":\"Test-SG-RR\", \"Name\":\"Test-SG-IC\", \"InboundRules\":{\"Protocol\":\"TCP\", \"PortRange \":\"49152-65535\, \"Source\":\"203.0.113.5/32\"}, \"OutboundRules\":{\"Protocol\":\"TCP\", \"PortRange\":\"49152-65535\, \"Destination\":\"203.0.113.5/32\"}}"
```

TEMPLATE CREATE:

1. Output the execution parameters JSON schema for this change type to a file; this example names it CreateSgRrParams.json.

```
aws amscm get-change-type-version --change-type-id "ct-loxx2g2d7hc90" --query
"ChangeTypeVersion.ExecutionInputSchema" --output text > CreateSgRrParams.json
```

2. Modify and save the CreateSgRrParams file. For example, you can replace the contents with something like this:

```
{
"Description":
                     "SG-Create-With-Review",
"Name":
                     "My-SG",
"VpcId":
                     "vpc-12345abc",
"InboundRules":
                     "TRAFFIC_PROTOCOL",
    "Protocol":
    "PortRange":
                     "PORT_RANGE",
    "Source":
                     "TRAFFIC_SOURCE"
    },
"OutboundRules":
                     "TRAFFIC_PROTOCOL",
    "Protocol":
    "PortRange":
                     "PORT_RANGE",
    "Destination": "TRAFFIC_DESTINATION"
    }
}
```

3. Output the RFC template JSON file to a file named CreateSgRrRfc.json:

```
aws amscm create-rfc --generate-cli-skeleton > CreateSgRrRfc.json
```

4. Modify and save the CreateSgRrRfc.json file. For example, you can replace the contents with something like this:

```
{
```

```
"ChangeTypeVersion": "2.0",
"ChangeTypeId": "ct-1oxx2g2d7hc90",
"Title": "SG-Create-RR-RFC"
}
```

5. Create the RFC, specifying the CreateSgRrRfc file and the CreateSgRrParams file:

```
aws amscm create-rfc --cli-input-json file://CreateSgRrRfc.json --execution-
parameters file://CreateSgRrParams.json
```

You receive the ID of the new RFC in the response and can use it to submit and monitor the RFC. Until you submit it, the RFC remains in the editing state and does not start.

Tips

Note

There is an automated change type for creating a security group, Deployment | Advanced stack components | Security group | Create (no review required) (ct-3pc215bnwb6p7) that provides options for TCP and ICMP ingress and egress rules. If those rules are adequate, the Create (auto) change type will execute more quickly than this change type. For details, see Security Group | Create.

Note

Once the security group is created, use <u>Security Group | Associate</u> to associate the security group with your AMS resources. In order to delete a security group, it must have associated resources.

Note

Outbound rules are not required; however, if they are not specified, then a "127.0.0.1/32 Blackhole Rule" is used, meaning that the resource will only be able to communicate to itself and not with other resources. You can see this default outbound rule when using the AMS console, but not when using the AMS API/CLI.

This is a "review required" change type (an AMS operator must review and run the CT), which means that the RFC can take longer to run and you might have to communicate with AMS through the RFC details page correspondance option. Additionally, if you schedule a "review required" change type RFC, be sure to allow at least 24 hours, if approval does not happen before the scheduled start time, the RFC is rejected automatically.

To learn more about AWS security groups and creating security groups, see <u>Security Group Rules</u> <u>Reference</u>; this page can help you determine the rules you want and, importantly, how to name your security group so choosing it when creating other resources is intuitive. Also see <u>Amazon EC2</u> <u>Security Groups for Linux Instances</u> and/or <u>Security Groups for Your VPC</u>.

To better understand general AWS security, see Best Practices for Security, Identity, & Compliance.

Once the security group is created, use <u>Security Group | Associate</u> to associate the security group with your AMS resources. In order to delete a security group, it must have associated resources.