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What Is AWS Resource Groups?

You can organize your AWS resources, and make it easier to manage and automate tasks on large numbers of resources at one time, by working with resource groups. This guide shows you how to create and manage resource groups in AWS Resource Groups.

You can access Resource Groups through any of the following entry points.

- On the navigation bar of the AWS Management Console, at the upper left.
- In the AWS Systems Manager console, from the left navigation pane entry for Resource Groups.
- By using the Resource Groups API, in AWS CLI commands or AWS SDK programming languages.

To work with resource groups on the AWS Management Console home

1. Sign in to the AWS Management Console.
2. On the navigation bar, choose Resource Groups.
3. Choose the an existing resource group from Saved Groups, or choose Create a Group.

To work with resource groups in AWS Systems Manager

1. Sign in to the AWS Management Console.

Topics
What Are Resource Groups?

In AWS, a resource is an entity that you can work with. Examples include an Amazon EC2 instance, an AWS CloudFormation stack, or an Amazon S3 bucket. If you work with multiple resources, you might find it useful to manage them as a group rather than move from one AWS service to another for each task. If you manage large numbers of related resources, such as EC2 instances that make up an application layer, you likely need to perform bulk actions on multiples of these resources at one time. Examples of bulk actions might be applying updates or security patches, upgrading applications, opening or closing ports to network traffic, or collecting specific log and monitoring data from your fleet of instances.

A resource group is a collection of AWS resources that are all in the same AWS region, and that match criteria provided in a query. You build queries in the Resource Groups console, or pass them as arguments to Resource Groups commands in the AWS CLI. Queries include lists of resources that are specified in the following format `AWS::service::resource`, and tags. Tags are keys that help identify and sort your resources within your organization; optionally, tags include values for keys.

By default, the AWS Management Console is organized by AWS service. But with Resource Groups, you can create a custom console that organizes and consolidates information based on criteria that you specify in tags. The following list describes some of the cases in which tagging and resource grouping can help organize your resources.

- An application that has different phases, such as development, staging, and production
- Projects managed by multiple departments or individuals
- A set of AWS resources that you use together for a common project, or that you want to manage or monitor as a group
- A set of resources related to applications that run on a specific platform, such as Android or iOS

For example, you are developing a web application, and you are maintaining separate sets of resources for your alpha, beta, and release stages. Each version runs on Amazon EC2 with an Amazon Elastic Block Store storage volume. You use Elastic Load Balancing to manage traffic and Route 53 to manage your domain. Without Resource Groups, you might have to access multiple consoles just to check the status of your services or modify the settings for one version of your application.

With Resource Groups, you use a single page to view and manage your resources. For example, let's say you use the tool to create a resource group for each version—alpha, beta, and release—of your application. To check your resources for the alpha version of your application, open your resource group. Then view the consolidated information on your resource group page. To modify a specific resource, choose the resource's links on your resource group page to access the service console that has the settings that you need.

How Resource Groups Work

A resource group is a collection of specified types of resources that share one or more tags or portions of tags. To create a resource group, you build a query that identifies the resource types you want that have tags that members of the group should have in common.
The new Resource Groups feature permissions are at the account level, so as long as users sharing your account have the correct IAM permissions, they can work with resource groups that you create. In the older, classic Resource Groups, however, if you use AWS Identity and Access Management (IAM) to create multiple users in the same account, those users have their own individual resource groups. These groups are not visible to other users. For information about creating IAM users, see Creating an IAM User in the IAM User Guide.

Tags function as properties of a resource, so they are shared across your entire account. Users in a department can draw from a common vocabulary (tags) within the department or account to create resource groups that are meaningful to their roles and responsibilities. Having a common pool of tags also means that when users share a resource group, they don't have to worry about missing or conflicting tag information.

How Tagging Works

Tags are key and value pairs that act as metadata for organizing your AWS resources. With most AWS resources, you have the option of adding tags when you create the resource, whether it's an Amazon EC2 instance, an Amazon S3 bucket, or other resource. However, you can also add tags to multiple resources at once by using Tag Editor. You build a query for resources of various types, and then add, remove, or replace tags for the resources in your search results. Queries assign an AND operator to tags, so any resource that matches the specified resource types and all specified tags is returned by the query.

For more information about tagging, see Working with Tag Editor (p. 9) in this guide. For more information about tagging, see Tag Basics in the Amazon EC2 User Guide for Linux Instances.

Supported Resources

You can add tags to many AWS resources in the AWS Management Console, or by using the AWS CLI. This topic describes resources that are currently supported by tags.

Topics

- Supported Resources for Resource Groups (p. 3)
- Supported Resources for Tag Editor Tagging (p. 5)

Supported Resources for Resource Groups

You can use the Resource Groups tool in the AWS Management Console to create groups for the following tagged AWS resources.

Important

A resource group based on a query for All supported resource types can add members automatically over time, as new resources are supported by Resource Groups. When you run automations or other bulk tasks on an existing resource group based on All supported resource types, be aware that the actions might be run on many more resources than were in the group when you first created it. This might also mean that automations or tasks that you created for other resources are applied to unintended resources, or resources on which the tasks cannot be completed.
## Supported Resources for Resource Groups

<table>
<thead>
<tr>
<th>Service</th>
<th>Resources</th>
</tr>
</thead>
</table>
| Amazon Elastic Compute Cloud (Amazon EC2)                    | • Instance  
|                                                              | • Security group    
|                                                              | • Snapshot          
|                                                              | • Virtual private cloud (VPC)      
|                                                              | • Volume            |
| Amazon ElastiCache                                           | • Cache cluster                                                   |
|                                                              | • Snapshot
| Elastic Load Balancing                                      | • Load balancer (V2)                                           |
| Amazon EMR                                                   | • Cluster
| Kinesis                                                      | • Stream
| Amazon Relational Database Service (Amazon RDS)             | • Database instance  
|                                                              | • Database snapshot                                    |
| Amazon Redshift                                              | • Cluster
| Amazon Route 53                                              | (Supported only in the US East (N. Virginia) Region, us-east-1.) |
|                                                              | • Health check  
|                                                              | • Hosted zone
| Amazon Simple Storage Service (Amazon S3)                    | • Bucket
| AWS Storage Gateway                                          | • Gateway
### Supported Resources for Tag Editor Tagging

You can use Tag Editor in the AWS Management Console to tag the following AWS resources. For more information, see [Working with Tag Editor (p. 9)](#).

<table>
<thead>
<tr>
<th>Service</th>
<th>Resources</th>
</tr>
</thead>
</table>
| Amazon ElastiCache | • Cache cluster  
• Snapshot |
| Amazon Elastic Compute Cloud (Amazon EC2) | • AMI  
• Instance  
• Network interface  
• Reserved Instance  
• Security group  
• Snapshot  
• Spot Instance request  
• Volume |
| Elastic Load Balancing | • Load balancer |
| Amazon EMR | • Cluster |
| Amazon Glacier | • Vault |
| Kinesis | • Stream |
| Amazon Relational Database Service (Amazon RDS) | • Database instance  
• Database option group  
• Database parameter group  
• Database security group  
• Database snapshot  
• Database subnet group  
• Event subscription  
• Reserved database instance |
| Amazon Redshift | • Cluster  
• Hardware security module (HSM) client certificate  
• HSM connection  
• Parameter group  
• Snapshot  
• Subnet group |
| Amazon Route 53 | • Domain  
• Health check  
• Hosted zone |
| Amazon Simple Storage Service (Amazon S3) | • Bucket |
| AWS Storage Gateway | • Gateway |
| Amazon Virtual Private Cloud | • Customer gateway |
Getting Started with AWS Resource Groups

In AWS, a resource is an entity that you can work with. Examples include an Amazon EC2 instance, an Amazon S3 bucket, or an Amazon Route 53 hosted zone. If you work with multiple resources, you might find it useful to manage them as a group rather than move from one AWS service to another for each task.

This section shows you how to get started with AWS Resource Groups. First, organize AWS resources by tagging them in Tag Editor. Then build queries in Resource Groups that include the resource types you want in a group, and tags that you’ve applied to resources.

After you've created resource groups in Resource Groups, use AWS Systems Manager tools such as Automation to simplify management tasks on your groups of resources. You can also use groups as the basis for viewing monitoring and configuration insights in AWS Systems Manager.

For more information about getting started with AWS Systems Manager features and tools, see the AWS Systems Manager User Guide.

Topics
- Prerequisites for Working with AWS Resource Groups (p. 6)
- Working with Tag Editor (p. 9)
- Build Queries and Groups in AWS Resource Groups (p. 14)

Prerequisites for Working with AWS Resource Groups

Before you get started working with resource groups, be sure you have an active AWS account with existing resources, and appropriate rights to tag resources and create groups.

Topics
- Sign Up for AWS (p. 6)
- Create Resources (p. 7)
- Setting Up Permissions (p. 7)

Sign Up for AWS

If you do not have an AWS account, use the following procedure to create one.

To sign up for AWS

2. Follow the online instructions.

Create Resources

You can create an empty resource group, but won't be able to see insights or perform any tasks on resource group members until there are resources in the group. For more information about the supported resource types, see Supported Resources (p. 3).

Setting Up Permissions

To make full use of Resource Groups and Tag Editor, you might need additional permissions to tag resources or to see a resource's tag keys and values. These permissions fall into the following categories:

- Permissions for individual services so that you can tag resources from those services and include them in resource groups.
- Permissions that are required to use the Tag Editor console and API.
- Permissions that are required to use the new AWS Resource Groups console and API.

Note

The managed policies that were used for legacy Resource Groups, ResourceGroupsandTagEditorFullAccess and ResourceGroupsandTagEditorReadOnlyAccess, do not grant access to AWS Resource Groups.

If you are an administrator, you can provide permissions for your users by creating policies through the AWS Identity and Access Management (AWS IAM) service. You first create IAM users or groups, and then apply the policies with the permissions that they need. For general information about creating and attaching IAM policies, see Working with Policies.

Permissions for Individual Services

Important

This section describes permissions required for individual services if you want to tag resources from those services' consoles and APIs and include them in resource groups.

As described in What Are Resource Groups? (p. 2), each resource group represents a collection of resources of specified types that share one or more tag keys or values. To add tags to a resource, you need the necessary permissions for the service to which the resource belongs. For example, to tag Amazon EC2 instances, you must have permissions to the tagging actions in that service's API, such as those listed in the Amazon EC2 user guide.

To make full use of the Resource Groups feature, you need other permissions that allow you to access a service's console and interact with the resources there. For examples of such policies for Amazon EC2, see Example Policies for Working in the Amazon EC2 Console in the Amazon EC2 User Guide for Linux Instances.

Granting Permissions for Using Tag Editor

For information about how to grant permissions for Tag Editor and the legacy Resource Groups console, see Obtaining Permissions for Resource Groups and Tag Editor in the AWS Management Console Help. Permissions shown in this topic are for using the new AWS Resource Groups service.

Granting Permissions for Using AWS Resource Groups

This section describes required permissions for the new AWS Resource Groups service. For information about how to assign permissions for using legacy Resource Groups, see Obtaining Permissions for Resource Groups and Tag Editor. The managed policies that
were used for legacy Resource Groups, ResourceGroupsandTagEditorFullAccess and ResourceGroupsandTagEditorReadOnlyAccess, do not grant access to AWS Resource Groups.

To add a policy for using AWS Resource Groups to a user, do the following.

1. Open the IAM console.
2. In the navigation pane, choose Users.
3. Find the user to whom you want to grant AWS Resource Groups permissions. Choose the user's name to open the user properties page.
4. Choose Add permissions.
5. Choose Attach existing policies directly.

6. Choose Create policy.
7. On the JSON tab, paste the following policy statement.

   ```json
   {       "Version": "2012-10-17",       "Statement": [ {           "Effect": "Allow",           "Action": "resource-groups:*",           "Resource": "*"       }]   }
   ```

9. Give the new policy a name and description. To distinguish this policy from any policies for legacy Resource Groups, the name should be different...
from `ResourceGroupsandTagEditorFullAccess`. For example, `AWSResourceGroupsQueryAPIAccess`.

### Review policy

Before you create this policy, provide the required information and review this policy.

10. Choose **Create policy**.
11. Now that the policy is saved in IAM, you can attach it to other users. For more information about how to add a policy to a user, see Adding Permissions by Attaching Policies Directly to the User in the IAM User Guide.

## Working with Tag Editor

Tags are words or phrases that act as metadata for identifying and organizing your AWS resources. The tag limit varies with the resource, but most can have up to 50 tags. Each tag consists of a key and a value. For more about tagging, see Using Cost Allocation Tags in the AWS Billing and Cost Management User Guide.

You can add tags to resources when you create the resource or add, change, or remove those tags one resource at a time within each resource’s console. To add to multiple resources at once, you need to use Tag Editor. With Tag Editor, you search for the resources that you want to tag, and then add, remove, or edit tags for the resources in your search results.

### To start Tag Editor

1. Sign in to the AWS Management Console.
2. On the navigation bar, choose **Resource Groups**, and then choose **Tag Editor**.

Not all resources can have tags applied. To see if a resource supports tagging, consult the documentation for that resource’s service.

For information about permissions and roles that are required to tag resources, see Setting Up Permissions (p. 7).

### Topics

- Searching for Resources to Tag (p. 10)
Searching for Resources to Tag

With Tag Editor, you can locate all the resources that are available for tagging. For more information, see Supported Resources for Tag Editor Tagging (p. 5).

To search for resources to tag

1. Sign in to the AWS Management Console, choose Resource Groups, and then choose Tag Editor.
2. For Regions, choose the regions that you want to search in. Repeat for as many regions as you want. To remove a region, choose the x by its name.
3. For Resource types, choose the kind of resources that you want to locate. Repeat for as many resource types as you want. To remove a region or resource type, choose the x by its name. To search for all resource types or all regions, select All resource types.
4. (Optional) To limit your search to resources that already have certain tag keys or values, in the first Tags box choose the name of a tag key. Type in the box to search for a key based on characters that it contains.
5. (Optional) In the next Tags box, do any of the following:
   - Leave the box empty to search for all resources with the specified key and any value.
   - Select Not tagged to search for resources that do not have the specified tag key.
   - Select Empty value to search for resources that have the specified tag key but no value.
   - Type one or more characters to find resources with the values that you are looking for. Select a value from the list to find an exact match or select the Contains: option to find values that contain the characters that you typed.
     - If you don’t see any values listed, you might not have permissions to view available tags. In that case, you can simply type in a complete value and press Enter to start searching.
   - Choose the x next to an item that you added to remove it from the search criteria.

You can add multiple values for each tag key. Doing so potentially increases the number of resources in the search results because the results include resources tagged with any of the selected values. The search is case sensitive.

Note
Before a key and its values appear in this list, they must have been applied to at least one resource in the current account. If you don’t see a tag that you just applied to a resource, try refreshing your browser window.

6. (Optional) To further refine your group, continue using the Tags boxes at the bottom to specify more tag keys and values. The search results contain only those resources that have all the specified tags, so the more tags you specify, the fewer resources Tag Editor finds.
7. When you have the settings that you want, choose Find resources.
Finding Untagged Resources

You might find it useful to know what resources in your account have yet to be tagged. You might also want to know what resources have tag keys but no tag values. You can use Tag Editor to find these resources.

1. Sign into the AWS Management Console and open Tag Editor at https://resources.console.aws.amazon.com/r/tags.
2. For Regions, select the regions that you want to include.
3. For Resource types, select the resource types that you want to search for.
4. For Tags, select a tag key that you want to apply to resources that do not already have it.
5. In the next box, do either or both of the following, depending on your goal:
   - Choose Not tagged to find resources with no specified tags.
   - Choose Empty value to find resources that are tagged with your specified key but that have no tag value.
6. Choose Find Resources to have Tag Editor find all such resources and list them at the bottom of the page.
7. (Optional) Use any of the methods discussed in Tagging Resources (p. 12) to add tags to the resources in the search results.

Customizing Tag Search Results

After completing a search, you can sort and filter the results of your tag search to find the tags and resources that you need to work with.

To customize tag search results

Do any of the following:

- To limit the display to resources that contain a keyword, type the keyword in the filter box above the table. For example, you could type elasticbeanstalk to see all resources whose ID indicates that they are associated with the Elastic Beanstalk service.

- To sort the list by any column, choose the column heading name. To reverse the sort order, choose the name again.

- To change the width of a table column, drag the divider between the column headings.

- To add or remove columns of existing tag keys to the results, choose the cog icon above the table and select or deselect a tag key. To search for and limit what items appear in the list, type a full or partial keyword or words in the box at the top.
Tagging Resources

After you have located the resources (p. 10) that you want to tag, you can add, remove, or edit the tags for all or some of your search results as a group.

To apply a new tag to one or more resources, you begin by creating a tag key.

**To create a tag key**

1. Search for the resources (p. 10) whose tags you want to manage.
2. Choose Create a new tag key.
3. Type the name of your new key, and then choose Add key. Repeat for as many tag keys as you want to create.

   **Note**
   
   The new tag key does not actually exist until a value for the new key is applied to a resource. A tag does not exist unless it is applied to a resource.

**To edit or apply tags for a single resource**

1. Search for the resources (p. 10) whose tags you want to manage.
2. Customize the search results (p. 11) table to make it easy to find the resource that you want.
3. Do any of the following:

   * To add a tag to a resource, choose the + (➕) icon, type a value, and choose the check mark icon (✔). You can apply a tag to a resource without specifying a value.

   * To edit the tag value of a resource, choose the pencil icon (📝) by its value and edit the value. Choose the check mark icon or press Enter.

   * To remove an existing tag value, choose the X icon (❌) next to the value.
To apply an existing tag key, choose the cog icon (⚙️) and select the key that you want, as explained in Customizing Tag Search Results (p. 11). Then choose the + icon in the column for that key, type a new value, and either choose the check mark icon or press Enter.

To modify a resource's tag in its own console, choose the blue icon (🔗). Then use the settings in that console to edit or apply tags.

To edit or apply tags for multiple resources

1. Search for the resources (p. 10) whose tags you want to manage.
2. Customize the search results (p. 11) table to make it easy to find the resource that you want.
3. Select the check box for each resource whose tags you want to modify. To manage tags for all the resources in the list, select the check box in the column heading row.
4. Choose Edit tags for selected. Modify the keys or values, and then choose Apply changes.
5. Repeat the preceding step as needed.

Scenario: Implementing a New Tagging Strategy

Consider a situation where you have a medium to large working environment with multiple resources used by various employees. You decide to use tagging to help you organize and get better oversight of your account’s resources. But how to proceed when there are dozens of resources to tag? Fortunately, Tag Editor can simplify the process.

1. Make a plan.

Before you begin, sketch out a plan of the tag keys and values that will help you organize your resources. For example, you might want all resources to have tag keys like Project, Cost Center, and Environment. Remember, too, that each resource cannot have more than 50 tags.

2. Open Tag Editor.

Sign into the AWS Management Console and open Tag Editor at https://resources.console.aws.amazon.com/r/tags.

3. Find all resources in your account.

For Regions, select all regions that apply. For Resource types, select All resource types. Leave both Tags boxes empty. Then choose Find resources. For more information, see Searching for Resources to Tag (p. 10).

4. Select all the found resources.

The Tag Editor search results appear at the bottom of the page. When the list shows the resources that you want to tag, select the top check box to select all resources. Choose Edit tags for selected.

5. Apply tag keys with empty elements.

In Add/edit tags, under Add tags, in the space provided, type the key name that you want to add, such as Project. Repeat for your other new keys, such as Cost Center and Environment. Choose Apply changes.

Tip

If any of your selected resources have reached the maximum of 50 tags, a message warns you before you choose Apply changes. You can pause the pointer over the number of affected resources in the message to see a pop-up list of the specific resources.

6. Add values for each tag key.
The next step is to add tag values that will help you distinguish individual resources that share tag keys. There are a couple of ways to do this depending on whether you plan on adding the same values to many resources or just a few.

a. **Bulk add values.**

Start by selecting the check box at the top of the table again to clear all the check boxes. Then select individual check boxes for just those resources that need a specific tag value.

Choose **Edit tags for selected**. In **Add/edit tags**, under **Applied tags**, type a new value in the **Value** column next to a tag key. For example, you might add a billing code in the value for the **Cost Center** key or type **Production** for the **Environment** key.

Note that if the **Value** column shows **Multiple values**, you can still type in a new value. However, your new value will replace all the key's existing values for the selected resources.

When you're done, choose **Apply changes**.

b. **Add individual tag values.**

If you want each resource to have its own unique value, you can edit tag values right in the search results table. Start by choosing the cog icon above the table and selecting the check boxes for your new keys. To continue our example, you might select the check boxes for **Project**, **Cost Center**, and **Environment**. This makes your keys appear as columns in the search results table.

For a given resource, locate the column that displays the tag key whose value you want to edit. Choose the pencil icon, and then type the new value in the box. Press **Enter** to complete the editing.

7. Repeat **Step 6** for other resources in your list.

### Build Queries and Groups in AWS Resource Groups

In AWS Resource Groups, a **query** is the foundation of a group. To build a query, you choose the types of resources that you want to be part of the group, and then specify the tags that are shared by the resources that you want to be members of the group. For example, if you want to create a resource group that has all of the Amazon EC2 instances and Amazon S3 buckets that you are using to run the testing stage of an application, and you have instances and buckets that are tagged this way, you choose the **AWS::EC2::Instance** and **AWS::S3::Bucket** resource types from the drop-down list, and then specify the tag key **Stage**, with a tag value of **Test**.

In the AWS CLI, you build a query and create your resource group in the same command. The AWS CLI command shown in this topic creates a group.

**To build a query and create a group in Resource Groups by using the AWS Management Console**

1. Open Resource Groups from the AWS Systems Manager console, or from the top left of the AWS Management Console.

2. Choose **Create a resource group**.
3. On the Create a resource group page, choose the resource types that you want to be in your resource group. For the purposes of this walkthrough, we are choosing AWS::EC2::Instance and AWS::S3::Bucket.

4. In the tag string boxes, specify a tag key, or a tag key and value pair, to limit the EC2 instances and S3 buckets in your account to only those that are tagged with your specified values. Choose + or press Enter when you've finished your tag. In this example, we filter for resources that have a tag key of Stage. The tag value is optional, but narrows the results of the query further. To add more tags, choose +. Queries assign an AND operator to tags, so any resource that matches the specified resource types and all specified tags is returned by the query.
5. Choose **View group resources** to return the list of EC2 instances and S3 buckets in your account that match the specified tag key or keys.

6. To create a resource group based on your query, specify a name, and optionally, add a description.

   a. In the **Group name** box, type a name for your resource group.

      A resource group name can have a maximum of 127 characters, including letters, numbers, hyphens, dots, and underscores. The name cannot start with `AWS` or `aws`; these are reserved. A resource group name must be unique within the current region in your account.

   b. Optionally, in the **Group description** box, type a description of your group.

   c. Optionally, in the **Group tags** area, you can add tag key and value pairs that apply only to the resource group, not the member resources in the group.

7. When you are finished, choose **Create group**.

**To create a group in Resource Groups by using the AWS CLI**

In an AWS CLI command, you build a query and create a resource group based on the query in a single command.

1. In an AWS CLI session, type the following, and then press **Enter**, replacing the values for group name, resource types, tag keys, and tag values with your own. A resource group name can have a maximum of 127 characters, including letters, numbers, hyphens, dots, and underscores. The name cannot start with `AWS` or `aws`; these are reserved. A resource group name must be unique within your account.

```
aws resource-groups create-group --name resource-group-name --resource-query '{"Type":"TAG_FILTERS_1_0","Query":{"ResourceTypeFilters":["resource_type1","resource_type2"],"TagFilters":[{"Key":"Key1","Values":["Value1"],"Value2"}],{"Key":"Key2","Values":["Value1","Value2"]}}}
```

The following command is an example.
Update Groups in AWS Resource Groups

To update a resource group in Resource Groups, you can edit the query and tags that are the basis of your group. You can add and remove resources from your group only by applying changes to the query or tags; you cannot select specific resources to add to or remove from your group. The best way to add or remove a specific resource from a group is to edit the resource's tags, then verify that your resource group tag query either includes or omits the tag depending on whether you want the resource in your group.

In the AWS CLI, you update groups in two commands; `update-group`, which you run to update a group's description, and `update-group-query`, which you run to update the resource query and tags that determine the group's member resources.

To update a query and group in Resource Groups by using the AWS Management Console

1. Open Resource Groups from the AWS Systems Manager console, or from the top left of the AWS Management Console.
2. Under **Saved resource groups** in the navigation pane, choose an existing group, and then choose **Edit**.
3. On the **Edit group** page, in the **Grouping criteria** area, add or remove resource types as desired. To remove a resource type, choose **X** on the resource type's label. Choose **View group resources** to see how the changes affect your group's resource members. In this walkthrough, we add the resource type **AWS::RDS::DBInstance** to the query.
4. Edit tags, if necessary. In this example, we filter for resources that have a tag key of **Stage**, and add a tag value of **Test**. The tag value is optional, but narrows the results of the query further.
5. In the Additional information area, you can edit the group description. You cannot edit an existing group's name.

6. In the Group tags area, add or remove tags as desired. Group tags are metadata about your resource group; they do not affect member resources. To change the resources that are returned by the resource group's query, edit tags in the Grouping criteria area.

7. Choose View query results to return the updated list of EC2 instances, S3 buckets, and Amazon RDS database instances in your account that match the specified tag keys. If you do not see resources in the list that you expect, be sure that the resources are tagged with tags that you specified in the Grouping criteria area.

8. When you are finished, choose Save changes.

To update a group in Resource Groups by using the AWS CLI

In the AWS CLI, you update a group's query and update a resource group's description by using two different commands. You cannot change the name of a group by using the AWS CLI.

1. If you do not want to change the description of your group, skip this step and go on to the next. In an AWS CLI session, type the following, and then press Enter, replacing the values for group name and description with your own.
Delete Groups from AWS Resource Groups

You can delete resource groups from AWS Resource Groups by using either the Resource Groups console or the AWS CLI. Deleting a resource group does not delete the resources that are members of the group, or tags on member resources; it deletes only the group structure, and any group-level tags.

To delete resource groups in the AWS Management Console

1. In the AWS Systems Manager console navigation pane, or from the Resource Groups drop-down menu on the AWS home page, choose Saved Resource Groups.
2. Choose the resource group that you want to delete.
3. On the group's detail page, choose Delete.
4. When you are prompted to confirm the deletion, choose Delete.

To delete resource groups by using the AWS CLI

1. Type the following command, replacing resource_group_name with the name of your group, and then press Enter.

   ```bash
   aws resource-groups delete-group --group-name resource_group_name
   ```

2. When you are prompted to confirm the deletion, type yes, and then press Enter.
Viewing Insights about AWS Resource Groups

Insights show detailed information about the resources in your groups, such as AWS CloudTrail logs, and results of evaluations against AWS Config rules. AWS Trusted Advisor reports and the Personal Health Dashboard show events and recommendations at the account level. The AWS CloudTrail and AWS Config views show information about a single, selected resource group at a time.

Topics
- Included Insights (p. 20)
- Amazon CloudWatch Dashboards (p. 21)
- AWS Systems Manager Inventory and Compliance (p. 21)

Included Insights

Choosing Insights in the AWS Systems Manager left navigation pane shows monitoring views that are built-in, or included by default. Choose a resource group, and the page displays group members' rule compliance from AWS Config, or event log data from CloudTrail. The Personal Health Dashboard shows events by region in your account. Recommendations from Trusted Advisor are also per account. The following shows an example of a Trusted Advisor view for an account.

On the AWS Config tab, data includes rule compliance, compliance by resource type, and a history of configuration changes on group resources.

For more information about how to drill down, interpret, and use the data shown by these insights, see the following AWS User Guides.
- AWS Config Developer Guide
- AWS CloudTrail User Guide
- AWS Trusted Advisor User Guide
Amazon CloudWatch Dashboards

The Dashboards by CloudWatch page in AWS Systems Manager shows data directly from the CloudWatch service.

To create a new CloudWatch dashboard in the AWS Systems Manager console

2. Enter a name for the dashboard, such as the name of the service for which you want to view CloudWatch data.
3. Choose Create dashboard.
4. Choose the graphical format in which you want CloudWatch displayed, and then choose Configure.

For more information about how to use and change CloudWatch metrics, see the Amazon CloudWatch User Guide.

AWS Systems Manager Inventory and Compliance

The Inventory insights show software and packages (excluding AWS components) that are installed on instances in a group that you are managing with AWS Systems Manager, or that are tagged with a tag that you specify in the search box at the top of the page. The following screenshot shows an example of operating systems that are installed in the inventory of a group's instances.

Inventory data comes from AWS Systems Manager. For more information about how to work with inventory data, see Systems Manager Inventory Management in the AWS Systems Manager User Guide.

The Compliance insights show compliance with patch and configuration standards that you set by using AWS Systems Manager. For more information about how to set up patch baselines and configuration associations against which tagged or grouped resources can be measured, see Systems Manager Configuration Compliance in the AWS Systems Manager User Guide.
# Document History for User Guide

The following table describes the documentation for this release of AWS Resource Groups.

- **API version:** 2017-11-27
- **Latest documentation update:** November 29, 2017

<table>
<thead>
<tr>
<th>Change</th>
<th>Description</th>
<th>Date</th>
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<tbody>
<tr>
<td>Initial release</td>
<td>Initial release of the next generation of AWS Resource Groups</td>
<td>November 29, 2017</td>
</tr>
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</table>
AWS Glossary

For the latest AWS terminology, see the AWS Glossary in the AWS General Reference.