AWS Serverless Application Repository
Developer Guide
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What Is the AWS Serverless Application Repository?

The AWS Serverless Application Repository makes it easy for developers and enterprises to quickly find, deploy, and publish serverless applications in the AWS Cloud. For more information about serverless applications, see Serverless Computing and Applications on the AWS website.

The AWS Serverless Application Repository is deeply integrated with the AWS Lambda console, so that developers of all levels can get started with serverless computing without needing to learn anything new. You can use category keywords to browse for applications such as web and mobile backends, data processing applications, or chatbots. You can also search for applications by name, publisher, or event source. To use an application, you simply choose it, configure any required fields, and deploy it with a few clicks.

You can also easily publish applications, sharing them publicly with the community at large, or privately within your team or across your organization. To publish a serverless application (or app), you can use the AWS Management Console, AWS Command Line Interface (AWS CLI), or AWS SDKs to upload your code. Along with your code, you upload a simple manifest file, also known as an AWS Serverless Application Model (AWS SAM) template. For more information about AWS SAM, see AWS Serverless Application Model (AWS SAM).

In this guide, you can learn about the two ways to work with the AWS Serverless Application Repository:

- **Consuming Applications (p. 2)** – Browse for applications and view information about them, including source code and readme files. Also install, configure, and deploy applications of your choosing.
- **Publishing Applications (p. 3)** – Configure and upload applications to make them available to other developers, and publish new versions of applications.
Consuming Applications and Publishing Applications

Following, you can find information on how to consume and publish serverless applications through the AWS Serverless Application Repository.

Topics
- Consuming Applications (p. 2)
- Publishing Applications (p. 3)

Consuming Applications

Following, you can find out how to find and deploy serverless applications that have been published to the AWS Serverless Application Repository. You can browse for applications that are publicly available without having an AWS account by visiting the public site. Alternatively, you can browse for applications from within the AWS Lambda console.

Browsing, Searching, and Deploying Applications

Find, configure, and deploy an application in the AWS Serverless Application Repository by using the following procedure.

To find and configure an application in the AWS Serverless Application Repository

1. Open the AWS Serverless Application Repository public home page, or open the AWS Lambda console and choose Serverless Application Repository.
2. Browse or search for an application.
3. Choose an application to view more details about it, such as its capabilities and the number of times it has been deployed by AWS customers. (Note: The deployment counts are shown for the region in which you are trying to deployment application)
4. On the application detail page, you can view the application's permissions, application resources via the SAM template, license, and readme file. You can also find the Source code URL link for applications that are publicly shared.
5. Configure the application in the Configure application parameters section. For guidance on configuring a particular application, see that application’s readme file. For example, configuration requirements might include specifying the name of an Amazon DynamoDB table, an Amazon S3 bucket, or an Amazon API Gateway API that you want the application to have access to.
6. Choose Deploy. Doing this takes you to the Deployment status page.
7. On the Deployment status page you can view the progress of your deployment. While waiting for your deployment to complete, you can search and browse for other applications, and return to this page through the Lambda console.

After your application has been successfully deployed, you can review and manage the resources that have been created using existing AWS tools.
Publishing Applications

Following, you can find how to make your serverless applications available for others to find and deploy. You can publish serverless applications by using the AWS Management Console, the AWS Command Line Interface (AWS CLI), or an AWS SDK.

To publish an application, you first upload the application code. You'll also need to upload a simple manifest file, also known as an AWS Serverless Application Model (AWS SAM) template. For more information about using AWS SAM, see Using the AWS Serverless Application Model (AWS SAM) (p. 5).

Note
To make the serverless applications that you publish available to developers in other AWS Regions, publish your applications to either US East (N. Virginia) (us-east-1) or US East (Ohio) (us-east-2). Publishing your application in any other AWS Region restricts its availability to that AWS Region. For more information about AWS Serverless Application Repository regions and endpoints, see Regions and Endpoints in the AWS General Reference.

Before you publish an application to the AWS Serverless Application Repository, you will need the following:

- A valid AWS account.
- A valid AWS Serverless Application Model (AWS SAM) template that defines the AWS resources used. For more information about AWS SAM, see AWS Serverless Application Model (AWS SAM).
- A package for your application that you created using the AWS CloudFormation package command for the AWS CLI. This command packages the local artifacts (local paths) that your AWS SAM template references. For more details, see package in the AWS CloudFormation documentation.
- A URL pointing to your application's source code, in case you want to publish your application publicly.
- A readme.txt file. This file should describe how customers can use your application, and how to configure it before deploying it in their own AWS accounts.
- A license.txt file.
- A valid Amazon S3 bucket policy that grants the service read permissions for artifacts uploaded to Amazon S3 when you packaged your application. Following is an example of such a policy.

```
{
   "Version": "2012-10-17",
   "Statement": [ 
       { 
         "Effect": "Allow",
         "Principal": { 
           "Service": "serverlessrepo.amazonaws.com"
         },
         "Action": "s3:GetObject",
         "Resource": "arn:aws:s3:::<your-bucket-name>/*"
       }
   ]
}
```

Publishing an Application Through the AWS Management Console

You can create and publish an application through the AWS Management Console as described following.
Creating a New Application Through the Console

Create a new application in the AWS Serverless Application Repository by using the following procedure.

**To create a new application in the AWS Serverless Application Repository**

1. Open the AWS Serverless Application Repository console and choose **Publish applications**.
2. On the **Publish an application** page, type the indicated application information into the following boxes:
   - Application Name
   - Author
   - Description
   - Search labels (space delimited)
   - SPDX license
   - Readme.txt file
   - Semantic version
   - Source code URL (required only for publicly shared applications)
   - AWS SAM template file
3. Choose **Publish application**.

Sharing an Application Through the Console

Make your application publicly available using the following procedure.

**To make your application publicly available**

1. Open the AWS Serverless Application Repository console.
2. On the navigation pane, choose **My Applications** to bring up the list of applications that you have created.
3. Choose the application that you want to share.
4. In the **Application Details** section, move the **Visibility** slider to **Application is public**.

Publishing a New Version of an Existing Application Through the Console

Publish a new version of an application that you already created using the following procedure.

**To publish a new version of an application**

1. Open the AWS Serverless Application Repository console.
2. On the navigation pane, choose **My Applications** to bring up the list of applications that you have created.
3. Choose the application that you want to publish a new version for.
4. Choose **Publish new version**.
5. For **AWS SAM template file**, type the name of the new AWS SAM template file for this version.
6. Choose **Publish**.
Publishing an Application Through the AWS CLI

You can create and publish an application through the AWS CLI as described following.

Creating a New Application Through the AWS CLI

To create a new application using the AWS CLI, you first need to gather the same items required for publishing through the AWS Management Console, described preceding. You then use the awsserverlessrepo create-application function, passing it each of these items as parameters.

For more information about the parameters to be passed to this function, type awsserverlessrepo create-application help at the AWS CLI.

Sharing an Application Through the AWS CLI

To make your application publicly available using the AWS CLI, you can use the awsserverlessrepo put-application-policy function, passing the application ID and policy statement as parameters.

For more information about the parameters to be passed to this function, type awsserverlessrepo put-application-policy help at the AWS CLI.

Publishing a New Version of an Existing Application Through the AWS CLI

To create a new version of an application using the AWS CLI, you can use the awsserverlessrepo create-application-version function, passing the application ID, semantic version, new SAM template, and source code URL as parameters.

For more information about the parameters to be passed to this function, type awsserverlessrepo create-application-version help at the AWS CLI.

Using the AWS Serverless Application Model (AWS SAM)

The AWS Serverless Application Model (AWS SAM) is a model that defines serverless applications. AWS SAM is natively supported by AWS CloudFormation and defines simplified syntax for expressing serverless resources. The specification currently covers APIs, AWS Lambda functions, and Amazon DynamoDB tables. The specification is available under Apache 2.0 for AWS partners and customers to adopt and extend within their own tool sets. For details on the specification, see AWS Serverless Application Model.

AWS SAM supports special resource types that simplify how to express functions, APIs, mappings, and DynamoDB tables for serverless applications, in addition to some features for these services like environment variables. The AWS CloudFormation description of these resources conforms to the AWS Serverless Application Model. To deploy your application, specify the resources that you need as part of your application. You specify these along with their associated permissions policies in an AWS CloudFormation template file (written in either JSON or YAML). You then package your deployment artifacts, and deploy the template.

Requesting new AWS Resources for AWS Serverless Application Repository

The sections below list AWS Resources and Policy Templates currently supported by AWS Serverless Application Repository. If you would like to request new AWS Resources and/or Policy Templates to be added, please contact AWS Support.
Supported AWS Resources in the AWS Serverless Application Repository

Serverless applications that you publish to the AWS Serverless Application Repository can include additional AWS CloudFormation resources. The following is a complete list of supported resources:

- AWS::Serverless::Function
- AWS::Serverless::Api
- AWS::Serverless::SimpleTable
- AWS::Lambda::Alias
- AWS::Lambda::Version
- AWS::Lambda::EventSourceMapping
- AWS::ApiGateway::Account
- AWS::ApiGateway::ApiKey
- AWS::ApiGateway::Authorizer
- AWS::ApiGateway::BasePathMapping
- AWS::ApiGateway::ClientCertificate
- AWS::ApiGateway::Deployment
- AWS::ApiGateway::DocumentationPart
- AWS::ApiGateway::DocumentationVersion
- AWS::ApiGateway::DomainName
- AWS::ApiGateway::GatewayResponse
- AWS::ApiGateway::Method
- AWS::ApiGateway::Model
- AWS::ApiGateway::RequestValidator
- AWS::ApiGateway::Resource
- AWS::ApiGateway::RestApi
- AWS::ApiGateway::Stage
- AWS::ApiGateway::UsagePlan
- AWS::ApiGateway::UsagePlanKey
- AWS::Cognito::IdentityPool
- AWS::Cognito::UserPool
- AWS::Cognito::UserPoolClient
- AWS::Cognito::UserPoolGroup
- AWS::Cognito::UserPoolUser
- AWS::Cognito::UserPoolUserToGroupAttachment
- AWS::DynamoDB::Table
- AWS::Logs::Destination
- AWS::Logs::LogGroup
- AWS::Logs::LogStream
- AWS::Logs::MetricFilter
- AWS::Logs::SubscriptionFilter
- AWS::Kinesis::Streams
- AWS::S3::Bucket
- AWS::SNS::Subscription
- AWS::SNS::Topic
AWS::SQS::Queue
AWS::CloudWatch::Alarm
AWS::CloudWatch::Dashboard

**Policy Templates**

When you add a serverless application to the AWS Serverless Application Repository, AWS SAM allows you to choose from a list of policy templates. When you choose one of these templates, your AWS Lambda functions are scoped to the resources that are used by your application. The following lists the permissions that are applied to each policy template in the policy templates list. AWS SAM automatically populates the placeholder items (such as AWS Region and account ID) with the appropriate information.

The following example shows that the SQSPollerPolicy policy expects a QueueName as a resource. The AWS SAM template retrieves the name of the "MyQueue" Amazon SQS queue, which can be created in the same application or requested as a parameter to the application.

```
MyFunction:
  Type: 'AWS::Serverless::Function'
  Properties:
    CodeUri: ${codeuri}
    Handler: hello.handler
    Runtime: python2.7
    Policies:
      - SQSPollerPolicy:
        QueueName:
          Fn::GetAtt: ['MyQueue', "QueueName"]
```

**SQSPollerPolicy: Gives Permissions to Poll an Amazon SQS Queue**

```
"Statement": [
  {
    "Effect": "Allow",
    "Action": [
      "sqs:DeleteMessage",
      "sqs:ReceiveMessage"
    ],
    "Resource": {
      "Fn::Sub": [
        "arn:AWS::Partition:sqs:AWS::Region:AWS::Account:queueName",
        {
          "queueName": {
            "Ref": "QueueName"
          }
        }
      ]
    }
  }
]
```

**LambdaInvokePolicy: Gives Permission to Invoke a Lambda Function, Alias, or Version**
"Statement": [
  {
    "Effect": "Allow",
    "Action": [
      "lambda:InvokeFunction"
    ],
    "Resource": {
      "Fn::Sub": [
        "$\{\text{arn:}\{\text{AWS:Partition}:\{AWS:Region}:\{AWS:AccountId}:function:}
        \#{\text{functionName}}\}*",
        {
          "functionName": {
            "Ref": "FunctionName"
          }
        }
      ]
    }
  }
]

CloudWatchPutMetricPolicy: Gives Permissions to Put Metrics to CloudWatch

"Statement": [
  {
    "Effect": "Allow",
    "Action": [
      "cloudwatch:PutMetricData"
    ],
    "Resource": "*"
  }
]

EC2DescribePolicy: Gives Permission to Describe Amazon EC2 Instances

"Statement": [
  {
    "Effect": "Allow",
    "Action": [
      "ec2:DescribeRegions",
      "ec2:DescribeInstances"
    ],
    "Resource": "*"
  }
]

DynamoDBCrudPolicy: Gives CRUD Access to a DynamoDB Table

"Statement": [
  {
    "Effect": "Allow",
    "Action": [
      "dynamodb:GetItem",
      "dynamodb:PutItem",
      "dynamodb:UpdateItem",
      "dynamodb:DeleteItem"
    ],
    "Resource": "*"
  }
]
"Action": [
    "dynamodb:GetItem",
    "dynamodb:DeleteItem",
    "dynamodb:PutItem",
    "dynamodb:Scan",
    "dynamodb:Query",
    "dynamodb:UpdateItem",
    "dynamodb:BatchWriteItem",
    "dynamodb:BatchGetItem"
],
"Resource": {
    "Fn::Sub": [ 
        "arn:${AWS::Partition}:dynamodb:${AWS::Region}:${AWS::AccountId}:table/
#{tableName}",
        { 
            "tableName": { 
                "Ref": "TableName"
            } 
        }
    ]
}
]

**DynamoDBReadPolicy: Gives Read-Only Access to a DynamoDB Table**

"Statement": [
    { 
        "Effect": "Allow",
        "Action": [
            "dynamodb:GetItem",
            "dynamodb:Scan",
            "dynamodb:Query",
            "dynamodb:BatchGetItem"
        ],
        "Resource": {
            "Fn::Sub": [ 
                "arn:${AWS::Partition}:dynamodb:${AWS::Region}:${AWS::AccountId}:table/
#{tableName}",
                { 
                    "tableName": { 
                        "Ref": "TableName"
                    } 
                }
            ]
        }
    }
]

**SESSendBouncePolicy: Gives SendBounce Permission to an Amazon SES Identity**

"Statement": [
    { 
        "Effect": "Allow",

"Action": [ "ses:SendBounce" ],
"Resource": {
"Fn::Sub": [
  "arn:${AWS::Partition}:ses:${AWS::Region}:${AWS::AccountId}:identity/
  ${identityName}",
  { "identityName": { "Ref": "IdentityName" } }
]
}

ElasticsearchHttpPostPolicy: Gives POST Permissions to Amazon Elasticsearch Service

"Statement": [
  { "Effect": "Allow", "Action": [ "es:ESHttpPost" ], "Resource": {
    "Fn::Sub": [
      "arn:${AWS::Partition}:es:${AWS::Region}:${AWS::AccountId}:domain/
      ${domainName}",
      { "domainName": { "Ref": "DomainName" } }
    ]
  }
]

S3ReadPolicy: Gives Read Permissions to Objects in the Amazon S3 Bucket

"Statement": [
"arn:${AWS::Partition}:s3:::${bucketName}",
{
  "bucketName": {
    "Ref": "BucketName"
  }
}
},
  "Fn::Sub": [
    "arn:${AWS::Partition}:s3:::${bucketName}/*",
    {
      "bucketName": {
        "Ref": "BucketName"
      }
    }
  ]
]
]

S3CrudPolicy: Gives CRUD Permissions to Objects in the Amazon S3 Bucket

"Statement": [
  {
    "Effect": "Allow",
    "Action": [
      "s3:GetObject",
      "s3:ListBucket",
      "s3:GetBucketLocation",
      "s3:GetObjectVersion",
      "s3:PutObject",
      "s3:GetLifecycleConfiguration",
      "s3:PutLifecycleConfiguration"
    ],
    "Resource": [
      {
        "Fn::Sub": [
          "arn:${AWS::Partition}:s3:::${bucketName}",
          {
            "bucketName": {
              "Ref": "BucketName"
            }
          }
        ]
      },
      {
        "Fn::Sub": [
          "arn:${AWS::Partition}:s3:::${bucketName}/*",
          {
            "bucketName": {
              "Ref": "BucketName"
            }
          }
        ]
      }
    ]
  }
]
AMIDescribePolicy: Gives Permissions to Describe Amazon Machine Images (AMIs)

```
"Statement": [
    {
        "Effect": "Allow",
        "Action": ["ec2:DescribeImages"],
        "Resource": {
            "Fn::Sub": "arn:${AWS::Partition}:ec2:${AWS::Region}:${AWS::AccountId}:image/*"
        }
    }
]
```

CloudFormationDescribeStacksPolicy: Gives Permission to Describe AWS CloudFormation Stacks

```
"Statement": [
    {
        "Effect": "Allow",
        "Action": ["cloudformation:DescribeStacks"],
        "Resource": {
            "Fn::Sub": "arn:${AWS::Partition}:cloudformation:${AWS::Region}:${AWS::AccountId}:stack/*"
        }
    }
]
```

RekognitionNoDataAccessPolicy: Gives Permission to Compare and Detect Faces and Labels

```
"Statement": [
    {
        "Effect": "Allow",
        "Action": [
            "rekognition:CompareFaces",
            "rekognition:DetectFaces",
            "rekognition:DetectLabels",
            "rekognition:DetectModerationLabels"
        ],
        "Resource": {
            "Fn::Sub": [
                "arn:${AWS::Partition}:rekognition:${AWS::Region}:${AWS::AccountId}:collection/${collectionId}"
            ]
        }
    }
]
```
**RekognitionReadPolicy: Gives Permission to List and Search Faces**

```
"Statement": [
  {
    "Effect": "Allow",
    "Action": [
      "rekognition:ListCollections",
      "rekognition:ListFaces",
      "rekognition:SearchFaces",
      "rekognition:SearchFacesByImage"
    ],
    "Resource": {
      "Fn::Sub": [
        "arn:${AWS::Partition}:rekognition:${AWS::Region}:${AWS::AccountId}:collection/${collectionId}",
        {
          "collectionId": {
            "Ref": "CollectionId"
          }
        }
      ]
    }
  }
]
```

**RekognitionWriteOnlyAccessPolicy: Gives Permission to Create Collection and Index Faces**

```
"Statement": [
  {
    "Effect": "Allow",
    "Action": [
      "rekognition:CreateCollection",
      "rekognition:IndexFaces"
    ],
    "Resource": {
      "Fn::Sub": [
        "arn:${AWS::Partition}:rekognition:${AWS::Region}:${AWS::AccountId}:collection/${collectionId}",
        {
          "collectionId": {
            "Ref": "CollectionId"
          }
        }
      ]
    }
  }
]
```
**SQSSendMessagePolicy**: Gives Permission to Send Message to Amazon SQS Queue

```
"Statement": [
  {
    "Effect": "Allow",
    "Action": ["sqs:SendMessage"]
  },
  "Resource": {
    "Fn::Sub": [
      "arn:${AWS::Partition}:sqs:${AWS::Region}:${AWS::AccountId}:${queueName}",
      {
        "queueName": {
          "Ref": "QueueName"
        }
      }
    ]
  }
]
```

**SNSPublishMessagePolicy**: Gives Permission to Publish a Message to an Amazon SNS Topic

```
"Statement": [
  {
    "Effect": "Allow",
    "Action": ["sns:Publish"]
  },
  "Resource": {
    "Fn::Sub": [
      "arn:${AWS::Partition}:sns:${AWS::Region}:${AWS::AccountId}:${topicName}",
      {
        "topicName": {
          "Ref": "TopicName"
        }
      }
    ]
  }
]
```

**VPCAccessPolicy**: Gives Access to Create, Delete, Describe, and Detach Elastic Network Interfaces

```
"Statement": [
  {
    "Effect": "Allow",
  },
  "Resource": {
    "Fn::Sub": [
      "arn:${AWS::Partition}:ec2:${AWS::Region}:${AWS::AccountId}:network-interface",
      {
        "networkInterfaceId": {
          "Ref": "NetworkInterfaceId"
        }
      }
    ]
  }
]
```
"Effect": "Allow",
"Action": [
  "ec2:CreateNetworkInterface",
  "ec2:DeleteNetworkInterface",
  "ec2:DescribeNetworkInterfaces",
  "ec2:DetachNetworkInterface"
],
"Resource": {
  "Fn::Sub": "arn:${AWS::Partition}:ec2:${AWS::Region}:
${AWS::AccountId}:network-interface/*"
}
]

DynamoDBStreamReadPolicy: Gives Permission to Describe and Read a DynamoDB Stream and Records

"Statement": [
  {
    "Effect": "Allow",
    "Action": [
      "dynamodb:DescribeStream",
      "dynamodb:GetRecords",
      "dynamodb:GetShardIterator",
      "dynamodb:ListStreams"
    ],
    "Resource": {
      "Fn::Sub": 
      "arn:${AWS::Partition}:dynamodb:${AWS::Region}:${AWS::AccountId}:table/
${tableName}/${streamName}",
      {
        "tableName": {
          "Ref": "TableName"
        },
        "streamName": {
          "Ref": "StreamName"
        }
      }
    }
  }
]

KinesisStreamReadPolicy: Gives Permission to List and Read an Amazon Kinesis Stream

"Statement": [
  {
    "Effect": "Allow",
    "Action": [
      "kinesis:ListStreams",
      "kinesis:DescribeLimits"
    ],
    "Resource": {
      "Fn::Sub": "arn:${AWS::Partition}:kinesis:${AWS::Region}:
${AWS::AccountId}:stream/*"


```
{
  "Effect": "Allow",
  "Action": [
    "kinesis:DescribeStream",
    "kinesis:GetRecords",
    "kinesis:GetShardIterator"
  ],
  "Resource": {
    "Fn::Sub": [
      "arn:${AWS::Partition}:kinesis:${AWS::Region}:${AWS::AccountId}:stream/
      ${streamName}",
      "StreamName": {
        "Ref": "StreamName"
      }
    ]
  }
}

SESCrudPolicy: Gives Permission to Send Email and Verify Identity

```

```
"Statement": [
  {
    "Effect": "Allow",
    "Action": [
      "ses:GetIdentityVerificationAttributes",
      "ses:SendEmail",
      "ses:VerifyEmailIdentity"
    ],
    "Resource": {
      "Fn::Sub": [
        "arn:${AWS::Partition}:ses:${AWS::Region}:${AWS::AccountId}:identity/
        ${identityName}",
        "IdentityName": {
          "Ref": "IdentityName"
        }
      ]
    }
  }
]

SNSCrudPolicy: Gives Permissions to Create, Publish, and Subscribe to Amazon SNS Topics

```

```
"Statement": [
  {
    "Effect": "Allow",
    "Action": [
      "sns:ListSubscriptionsByTopic",
      "sns:Publish",
      "sns:Subscribe"
    ],
    "Resource": {
      "Fn::Sub": [
        "arn:${AWS::Partition}:sns:${AWS::Region}:${AWS::AccountId}:topic/
        ${topicName}",
        "TopicName": {
          "Ref": "TopicName"
        }
      ]
    }
  }
]```
KinesisCrudPolicy: Gives Permission to Create, Publish, and Delete an Amazon Kinesis Stream

```
"Statement": [ 
  { 
    "Effect": "Allow", 
    "Action": [ 
      "kinesis:AddTagsToStream", 
      "kinesis:CreateStream", 
      "kinesis:DecreaseStreamRetentionPeriod", 
      "kinesis:DeleteStream", 
      "kinesis:DescribeStream", 
      "kinesis:GetShardIterator", 
      "kinesis:IncreaseStreamRetentionPeriod", 
      "kinesis:ListTagsForStream", 
      "kinesis:MergeShards", 
      "kinesis:PutRecord", 
      "kinesis:PutRecords", 
      "kinesis:SplitShard", 
      "kinesis:RemoveTagsFromStream" 
    ], 
    "Resource": 
    "Fn::Sub": [ 
      "arn:${AWS::Partition}:kinesis:${AWS::Region}:${AWS::AccountId}:stream/
      ${streamName}" , 
      { 
        "streamName": { 
          "Ref": "StreamName" 
        } 
      } 
    ] 
  } 
]
```

KMSDecryptPolicy: Gives Permission to Decrypt with an AWS KMS Key

```
"Statement": [ 
  { 
    "Effect": "Allow", 
    "Action": [ 
      "kms:Decrypt" 
    ], 
    "Resource": 
    "Fn::Sub": [ 
      "arn:${AWS::Partition}:kms:${AWS::Region}:${AWS::AccountId}:${keyArn}" , 
      { 
        "keyArn": { 
          "Ref": "KeyId" 
        } 
      } 
    ] 
  } 
]
```
"Statement": [
    {
        "Action": "kms:Decrypt",
        "Effect": "Allow",
        "Resource": {
            "Fn::Sub": [
                "arn:${AWS::Partition}:kms:${AWS::Region}:${AWS::AccountId}:key/${keyId}",
                {
                    "KeyId": {
                        "Ref": "KeyId"
                    }
                }
            ]
        }
    }
]
# AWS Serverless Application Repository Limits

Following, you can find a table that lists the limits that AWS Serverless Application Repository imposes for each AWS account for each AWS Region.

<table>
<thead>
<tr>
<th>Resource</th>
<th>Default Limit per AWS Account per AWS Region</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public applications</td>
<td>100</td>
</tr>
<tr>
<td>Free Amazon S3 storage for code packages</td>
<td>5 GB</td>
</tr>
</tbody>
</table>
Troubleshooting the AWS Serverless Application Repository

When you use the AWS Serverless Application Repository, you might encounter issues when you create, update, or delete your applications. Use this section to help troubleshoot common issues that you might encounter. You can also search for answers and post questions in the AWS Serverless Application Repository forums.

Note
Applications in the AWS Serverless Application Repository are deployed by using AWS CloudFormation. For information on troubleshooting AWS CloudFormation issues, see the AWS CloudFormation Troubleshooting Guide.

Topics
- You Can't Make an Application Public (p. 20)
- A Limit Was Exceeded (p. 20)
- Updating an Application's Readme File Doesn't Immediately Reflect on the Public Site (p. 20)
- You Can't Deploy the Same Application Twice (p. 21)
- Why Is My Application Not Publicly Available (p. 21)
- Contacting Support (p. 21)

You Can't Make an Application Public

If you can't make your application public, you might be missing a license file for your application that is approved by the Open Source Initiative (OSI).

To make your application public, you need an OSI-approved license file, and also a successfully published version of the application with a source code URL for the version. You can't update the license of an application after the application is created.

If you can't make your application public because you are missing a license file, delete the application and create a new one with the same name. Make sure that you provide it with one or more open-source licenses approved by the Open Source Initiative (OSI) organization.

A Limit Was Exceeded

If you receive an error message indicating that a limit was exceeded, check to see if you reached a resource limit. For AWS Serverless Application Repository limits, see AWS Serverless Application Repository Limits (p. 19).

Updating an Application's Readme File Doesn't Immediately Reflect on the Public Site

When you make your application public, the contents of your application can take up to 24 hours to update. If you experience delays longer than 24 hours, try contacting AWS Support for help. For details, see following.
You Can’t Deploy the Same Application Twice

The application name that you provide is used as the name of the AWS CloudFormation stack. If you have problems deploying an application, make sure that you don’t have an existing AWS CloudFormation stack with the same name. If you do, provide a different application name or delete the existing stack to deploy the application with the same name.

Why Is My Application Not Publicly Available

Applications are private by default. In order to make your application public, follow the steps here.

Contacting Support

If you can't find troubleshooting solutions in this section or through the AWS Serverless Application Repository forums and you have AWS Premium Support, you can create a technical support case at AWS Support.

Before you contact AWS Support, make sure to get the Amazon Resource Name (ARN) for the application that you have questions about. You can find the application ARN in the AWS Serverless Application Repository Management Console.
Resources

The AWS Serverless Application Repository REST API includes the following resources.

Topics
- Applications (p. 22)
- Applications applicationId (p. 36)
- Applications applicationId Changesets (p. 48)
- Applications applicationId Policy (p. 53)
- Applications applicationId Versions (p. 58)
- Applications applicationId Versions semanticVersion (p. 62)

Applications

URI

/aplications

HTTP Methods

GET

Operation ID: ListApplications

Lists applications owned by the requester.

Query Parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxItems</td>
<td>String</td>
<td>False</td>
<td>The total number of items to return.</td>
</tr>
<tr>
<td>nextToken</td>
<td>String</td>
<td>False</td>
<td>A token to specify where to start paginating.</td>
</tr>
</tbody>
</table>

Responses

<table>
<thead>
<tr>
<th>Status Code</th>
<th>Response Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>ApplicationPage</td>
<td>Success</td>
</tr>
<tr>
<td>400</td>
<td>BadRequestException</td>
<td>One of the parameters in the request is invalid.</td>
</tr>
</tbody>
</table>
Status Code | Response Model | Description |
--- | --- | --- |
500 | InternalServerErrorException (p. 25) | The AWS Serverless Application Repository service encountered an internal error. |
403 | ForbiddenException (p. 25) | The client is not authenticated. |
404 | NotFoundException (p. 25) | The resource (for example, an access policy statement) specified in the request doesn’t exist. |

**POST**

Operation ID: CreateApplication

Creates an application, optionally including an AWS SAM file to create the first application version in the same call.

**Responses**

| Status Code | Response Model | Description |
--- | --- | --- |
201 | Application (p. 24) | Success |
400 | BadRequestException (p. 25) | One of the parameters in the request is invalid. |
500 | InternalServerErrorException (p. 25) | The AWS Serverless Application Repository service encountered an internal error. |
403 | ForbiddenException (p. 25) | The client is not authenticated. |
429 | TooManyRequestsException (p. 25) | The client is sending more than the allowed number of requests per unit of time. |
409 | ConflictException (p. 25) | The resource already exists. |

**Schemas**

**Request Bodies**

**Example POST**

```json
{
  "name (p. 30)": "string",
  "description (p. 30)": "string",
  "author (p. 30)": "string",
  "spdxLicenseId (p. 30)": "string",
  "licenseBody (p. 30)": "string",
  "licenseUrl (p. 30)": "string",
  "readmeBody (p. 31)": "string",
  "readmeUrl (p. 31)": "string",
  "labels (p. 31)": [ ...
```
Response Bodies

Example ApplicationPage

```json
{
  "applications (p. 27)": [
    {
      "applicationId (p. 28)": "string",
      "name (p. 28)": "string",
      "description (p. 28)": "string",
      "author (p. 28)": "string",
      "spdxLicenseId (p. 28)": "string",
      "labels (p. 28)": ["string"],
      "creationTime (p. 29)": "string",
      "homePageUrl (p. 29)": "string"
    }
  ],
  "nextToken (p. 28)": "string"
}
```

Example Application

```json
{
  "applicationId (p. 26)": "string",
  "name (p. 26)": "string",
  "description (p. 26)": "string",
  "author (p. 26)": "string",
  "spdxLicenseId (p. 26)": "string",
  "licenseUrl (p. 26)": "string",
  "readmeUrl (p. 27)": "string",
  "labels (p. 27)": ["string"],
  "creationTime (p. 27)": "string",
  "homePageUrl (p. 27)": "string",
  "version (p. 27)": {
    "applicationId (p. 35)": "string",
    "semanticVersion (p. 35)": "string",
    "sourceCodeUrl (p. 36)": "string",
    "templateUrl (p. 36)": "string",
    "creationTime (p. 36)": "string",
    "parameterDefinitions (p. 36)": [
      {
        "name (p. 33)": "string",
        "defaultValue (p. 33)": "string",
        "description (p. 33)": "string",
        "type (p. 33)": "string",
        "noEcho (p. 34)": boolean,
        "allowedPattern (p. 34)": "string",
        "constraintDescription (p. 34)": "string",
        "minValue (p. 34)": integer,
```
"maxValue (p. 34)": integer,
"minLength (p. 34)": integer,
"maxLength (p. 35)": integer,
"allowedValues (p. 35)": [
  "string"
],
"referencedByResources (p. 35)": [
  "string"
]
}

Example BadRequestException

{
  "message (p. 29)": "string",
  "errorCode (p. 29)": "string"
}

Example ForbiddenException

{
  "message (p. 32)": "string",
  "errorCode (p. 32)": "string"
}

Example NotFoundException

{
  "message (p. 32)": "string",
  "errorCode (p. 33)": "string"
}

Example ConflictException

{
  "message (p. 29)": "string",
  "errorCode (p. 29)": "string"
}

Example TooManyRequestsException

{
  "message (p. 35)": "string",
  "errorCode (p. 35)": "string"
}

Example InternalServerErrorException

{
  "message (p. 32)": "string",
  "errorCode (p. 32)": "string"
}
Properties

Application

applicationId

The application Amazon Resource Name (ARN).

Type: string  
Required: True

name

The name of the application.

Minimum length=1. Maximum length=140

Pattern: "[a-zA-Z0-9\-]+";

Type: string  
Required: True

description

The description of the application.

Minimum length=1. Maximum length=256

Type: string  
Required: True

author

The name of the author publishing the app.

Minimum length=1. Maximum length=127.

Pattern "^[a-z0-9][([a-z0-9][\-]*)((?!-))[a-z0-9])?$";

Type: string  
Required: True

spdxLicenseId

A valid identifier from https://spdx.org/licenses/.

Type: string  
Required: False

licenseUrl

A link to a license file of the app that matches the spdxLicenseId value of your application.

Maximum size 5 MB
Properties

**readmeUrl**

A link to the readme file in Markdown language that contains a more detailed description of the application and how it works.

Maximum size 5 MB

**labels**

Labels to improve discovery of apps in search results.

Minimum length=1. Maximum length=127. Maximum number of labels: 10

Pattern: "^[a-zA-Z0-9+-\_:\/@]+$";

**creationTime**

The date and time this resource was created.

**homePageUrl**

A URL with more information about the application, for example the location of your GitHub repository for the application.

**version**

Version information about the application.

**ApplicationPage**

**applications**

An array of application summaries.
**nextToken**
The token to request the next page of results.

- **Type:** string
- **Required:** False

**ApplicationSummary**

**applicationId**
The application Amazon Resource Name (ARN).

- **Type:** string
- **Required:** True

**name**
The name of the application.
Minimum length=1. Maximum length=140
Pattern: "[a-zA-Z0-9\-]+";

- **Type:** string
- **Required:** True

**description**
The description of the application.
Minimum length=1. Maximum length=256

- **Type:** string
- **Required:** True

**author**
The name of the author publishing the app.
Minimum length=1. Maximum length=127.
Pattern: "^[a-z0-9][([a-z0-9]-(?!-))*[a-z0-9]]$";

- **Type:** string
- **Required:** True

**spdxLicenseId**
A valid identifier from https://spdx.org/licenses/.

- **Type:** string
- **Required:** False

**labels**
Labels to improve discovery of apps in search results.
Properties

Minimum length=1. Maximum length=127. Maximum number of labels: 10
Pattern: "^[a-zA-Z0-9+\-_:\/@]+$";
  Type: Array of type string
  Required: False

creationTime
The date and time this resource was created.
  Type: string
  Required: False

homePageUrl
A URL with more information about the application, for example the location of your GitHub repository for the application.
  Type: string
  Required: False

BadRequestException

message
One of the parameters in the request is invalid.
  Type: string
  Required: False

errorCode
400
  Type: string
  Required: False

ConflictException

message
The resource already exists.
  Type: string
  Required: False

errorCode
409
  Type: string
  Required: False
CreateApplicationInput

name
The name of the application that you want to publish.
Minimum length=1. Maximum length=140
Pattern: "[a-zA-Z-0-9\-\-]*";
  Type: string
  Required: True

description
The description of the application.
Minimum length=1. Maximum length=256
  Type: string
  Required: True

author
The name of the author publishing the app.
Minimum length=1. Maximum length=127.
Pattern: "^[a-z0-9][a-z0-9-]?[a-z0-9]$";
  Type: string
  Required: True

spdxLicenseId
A valid identifier from https://spdx.org/licenses/.
  Type: string
  Required: False

licenseBody
A raw text file that contains the license of the app that matches the spdxLicenseId value of your application.
Maximum size 5 MB
  Type: string
  Required: False

licenseUrl
A link to a license file of the app that matches the spdxLicenseId value of your application.
Maximum size 5 MB
  Type: string
**Properties**

- **readmeBody**
  A text readme file in Markdown language that contains a more detailed description of the application and how it works.
  Maximum size 5 MB
  
  - **Type:** string
  - **Required:** False

- **readmeUrl**
  A link to the readme file in Markdown language that contains a more detailed description of the application and how it works.
  Maximum size 5 MB

  - **Type:** string
  - **Required:** False

- **labels**
  Labels to improve discovery of apps in search results.
  Minimum length=1. Maximum length=127. Maximum number of labels: 10
  Pattern: "^[a-zA-Z0-9-.\/:@]+$";

  - **Type:** Array of type string
  - **Required:** False

- **homePageUrl**
  A URL with more information about the application, for example the location of your GitHub repository for the application.

  - **Type:** string
  - **Required:** False

- **semanticVersion**
  The semantic version of the application:

  [https://semver.org/](https://semver.org/)

  - **Type:** string
  - **Required:** False

- **templateBody**
  The raw packaged AWS SAM template of your application.

  - **Type:** string
  - **Required:** False
templateUrl
A link to the packaged AWS SAM template of your application.

    Type: string
    Required: False

sourceCodeUrl
A link to a public repository for the source code of your application.

    Type: string
    Required: False

ForbiddenException

message
The client is not authenticated.

    Type: string
    Required: False

errorCode
403

    Type: string
    Required: False

InternalServerErrorException

message
The AWS Serverless Application Repository service encountered an internal error.

    Type: string
    Required: False

errorCode
500

    Type: string
    Required: False

NotFoundException

message
The resource (for example, an access policy statement) specified in the request doesn't exist.

    Type: string
    Required: False
**errorCode**

404  
Type: string  
Required: False

**ParameterDefinition**

**name**

The name of the parameter.  
Type: string  
Required: True

**defaultValue**

A value of the appropriate type for the template to use if no value is specified when a stack is created. If you define constraints for the parameter, you must specify a value that adheres to those constraints.  
Type: string  
Required: False

**description**

A string of up to 4,000 characters that describes the parameter.  
Type: string  
Required: False

**type**

The type of the parameter.

Valid values: String | Number | List<Number> | CommaDelimitedList  
String: A literal string.  
For example, users can specify "MyUserName".

Number: An integer or float. AWS CloudFormation validates the parameter value as a number. However, when you use the parameter elsewhere in your template (for example, by using the Ref intrinsic function), the parameter value becomes a string.  
For example, users might specify "8888".

List<Number>: An array of integers or floats that are separated by commas. AWS CloudFormation validates the parameter value as numbers. However, when you use the parameter elsewhere in your template (for example, by using the Ref intrinsic function), the parameter value becomes a list of strings.  
For example, users might specify "80,20", and then Ref results in ["80", "20"].

CommaDelimitedList: An array of literal strings that are separated by commas. The total number of strings should be one more than the total number of commas. Also, each member string is space-trimmed.
For example, users might specify "test,dev,prod", and then Ref results in ["test", "dev", "prod"].

    Type: string
    Required: False

**noEcho**

Whether to mask the parameter value whenever anyone makes a call that describes the stack. If you set the value to true, the parameter value is masked with asterisks (*****).

    Type: boolean
    Required: False

**allowedPattern**

A regular expression that represents the patterns to allow for String types.

    Type: string
    Required: False

**constraintDescription**

A string that explains a constraint when the constraint is violated. For example, without a constraint description, a parameter that has an allowed pattern of \[A-Za-z0-9\]+ displays the following error message when the user specifies an invalid value:

Malformed input-Parameter MyParameter must match pattern \[A-Za-z0-9\]+

By adding a constraint description, such as "must contain only uppercase and lowercase letters and numbers," you can display the following customized error message:

Malformed input-Parameter MyParameter must contain only uppercase and lowercase letters and numbers.

    Type: string
    Required: False

**minValue**

A numeric value that determines the smallest numeric value that you want to allow for Number types.

    Type: integer
    Required: False

**maxValue**

A numeric value that determines the largest numeric value that you want to allow for Number types.

    Type: integer
    Required: False

**minLength**

An integer value that determines the smallest number of characters that you want to allow for String types.
Properties

Type: integer
Required: False

**maxLength**

An integer value that determines the largest number of characters that you want to allow for `String` types.

Type: integer
Required: False

allowedValues

An array containing the list of values allowed for the parameter.

Type: Array of type string
Required: False

referencedByResources

A list of AWS SAM resources that use this parameter.

Type: Array of type string
Required: True

**TooManyRequestsException**

message

The client is sending more than the allowed number of requests per unit of time.

Type: string
Required: False

errorCode

429

Type: string
Required: False

Version

applicationId

The application Amazon Resource Name (ARN).

Type: string
Required: True

semanticVersion

The semantic version of the application:
https://semver.org/

Type: string
Required: True

sourceCodeUrl

A link to a public repository for the source code of your application.

Type: string
Required: False

templateUrl

A link to the packaged AWS SAM template of your application.

Type: string
Required: True

creationTime

The date and time this resource was created.

Type: string
Required: True

parameterDefinitions

An array of parameter types supported by the application.

Type: Array of type ParameterDefinition (p. 33)
Required: True

Applications applicationId

URI

/applications/ applicationId

HTTP Methods

GET

Operation ID: GetApplication

Gets the specified application.

Path Parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>applicationId</td>
<td>String</td>
<td>True</td>
<td>The ID of the application to get.</td>
</tr>
</tbody>
</table>
Query Parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>semanticVersion</td>
<td>String</td>
<td>False</td>
<td>The semantic version of the application to get.</td>
</tr>
</tbody>
</table>

Responses

<table>
<thead>
<tr>
<th>Status Code</th>
<th>Response Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>Application (p. 39)</td>
<td>Success</td>
</tr>
<tr>
<td>400</td>
<td>BadRequestException (p. 40)</td>
<td>One of the parameters in the request is invalid.</td>
</tr>
<tr>
<td>500</td>
<td>InternalServerException</td>
<td>The AWS Serverless Application Repository service encountered an internal error.</td>
</tr>
<tr>
<td>403</td>
<td>ForbiddenException (p. 40)</td>
<td>The client is not authenticated.</td>
</tr>
<tr>
<td>404</td>
<td>NotFoundException (p. 40)</td>
<td>The resource (for example, an access policy statement) specified in the request doesn't exist.</td>
</tr>
<tr>
<td>429</td>
<td>TooManyRequestsException (p. 39)</td>
<td>The client is sending more than the allowed number of requests per unit of time.</td>
</tr>
</tbody>
</table>

DELETE

Operation ID: DeleteApplication

Deletes the specified application.

Path Parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>applicationId</td>
<td>String</td>
<td>True</td>
<td>The ID of the application to get.</td>
</tr>
</tbody>
</table>

Responses

<table>
<thead>
<tr>
<th>Status Code</th>
<th>Response Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>400</td>
<td>BadRequestException (p. 40)</td>
<td>One of the parameters in the request is invalid.</td>
</tr>
<tr>
<td>500</td>
<td>InternalServerException</td>
<td>The AWS Serverless Application Repository service encountered an internal error.</td>
</tr>
<tr>
<td>204</td>
<td>None</td>
<td>Success</td>
</tr>
</tbody>
</table>
### PATCH

**Operation ID:** UpdateApplication

Updates the specified application.

#### Path Parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>applicationId</td>
<td>String</td>
<td>True</td>
<td>The ID of the application to get</td>
</tr>
</tbody>
</table>

#### Responses

<table>
<thead>
<tr>
<th>Status Code</th>
<th>Response Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>Application (p. 39)</td>
<td>Success</td>
</tr>
<tr>
<td>400</td>
<td>BadRequestException (p. 40)</td>
<td>One of the parameters in the request is invalid.</td>
</tr>
<tr>
<td>500</td>
<td>InternalServerErrorException</td>
<td>The AWS Serverless Application Repository service encountered an internal error.</td>
</tr>
<tr>
<td>403</td>
<td>ForbiddenException (p. 40)</td>
<td>The client is not authenticated.</td>
</tr>
<tr>
<td>404</td>
<td>NotFoundException (p. 40)</td>
<td>The resource (for example, an access policy statement) specified in the request doesn't exist.</td>
</tr>
<tr>
<td>429</td>
<td>TooManyRequestsException (p. 40)</td>
<td>The client is sending more than the allowed number of requests per unit of time.</td>
</tr>
<tr>
<td>409</td>
<td>ConflictException (p. 40)</td>
<td>The resource already exists.</td>
</tr>
</tbody>
</table>
Schemas

Request Bodies

Example PATCH

```
{
    "description (p. 46)": "string",
    "author (p. 47)": "string",
    "readmeBody (p. 47)": "string",
    "readmeUrl (p. 47)": "string",
    "labels (p. 47)": [
        "string"
    ],
    "homePageUrl (p. 47)": "string"
}
```

Response Bodies

Example Application

```
{
    "applicationId (p. 40)": "string",
    "name (p. 41)": "string",
    "description (p. 41)": "string",
    "author (p. 41)": "string",
    "spdxLicenseId (p. 41)": "string",
    "licenseUrl (p. 41)": "string",
    "readmeUrl (p. 41)": "string",
    "labels (p. 42)": [
        "string"
    ],
    "creationTime (p. 42)": "string",
    "homePageUrl (p. 42)": "string",
    "version (p. 42)": {
        "applicationId (p. 47)": "string",
        "semanticVersion (p. 48)": "string",
        "sourceCodeUrl (p. 48)": "string",
        "templateUrl (p. 48)": "string",
        "creationTime (p. 48)": "string",
        "parameterDefinitions (p. 48)": [
            {
                "name (p. 44)": "string",
                "defaultValue (p. 44)": "string",
                "description (p. 44)": "string",
                "type (p. 44)": "string",
                "noEcho (p. 45)": boolean,
                "allowedPattern (p. 45)": "string",
                "constraintDescription (p. 45)": "string",
                "minValue (p. 45)": integer,
                "maxValue (p. 45)": integer,
                "minLength (p. 46)": integer,
                "maxLength (p. 46)": integer,
                "allowedValues (p. 46)": [
                    "string"
                ],
                "referencedByResources (p. 46)": [
                    "string"
                ]
            }
        ]
    }
}
```
Example BadRequestException

```json
{
    "message (p. 42)": "string",
    "errorCode (p. 42)": "string"
}
```

Example ForbiddenException

```json
{
    "message (p. 43)": "string",
    "errorCode (p. 43)": "string"
}
```

Example NotFoundException

```json
{
    "message (p. 43)": "string",
    "errorCode (p. 44)": "string"
}
```

Example ConflictException

```json
{
    "message (p. 43)": "string",
    "errorCode (p. 43)": "string"
}
```

Example TooManyRequestsException

```json
{
    "message (p. 46)": "string",
    "errorCode (p. 46)": "string"
}
```

Example InternalServerErrorException

```json
{
    "message (p. 43)": "string",
    "errorCode (p. 43)": "string"
}
```

Properties

Application

applicationId

The application Amazon Resource Name (ARN).
Properties

Type: string
Required: True

name
The name of the application.
Minimum length=1. Maximum length=140
Pattern: "[a-zA-Z0-9\-]+";
    Type: string
    Required: True

description
The description of the application.
Minimum length=1. Maximum length=256
    Type: string
    Required: True

author
The name of the author publishing the app.
Minimum length=1. Maximum length=127.
Pattern "^[a-z0-9][([a-z0-9]-?(?!-))[a-z0-9]]?";
    Type: string
    Required: True

spdxLicenseId
A valid identifier from https://spdx.org/licenses/.
    Type: string
    Required: False

licenseUrl
A link to a license file of the app that matches the spdxLicenseId value of your application.
Maximum size 5 MB
    Type: string
    Required: False

readmeUrl
A link to the readme file in Markdown language that contains a more detailed description of the application and how it works.
Properties

Maximum size 5 MB

 Type: string
 Required: False

labels

Labels to improve discovery of apps in search results.
Minimum length=1. Maximum length=127. Maximum number of labels: 10

Pattern: "^[a-zA-Z0-9+\-_\.\/@]+$";

 Type: Array of type string
 Required: False

creationTime

The date and time this resource was created.

 Type: string
 Required: False

homePageUrl

A URL with more information about the application, for example the location of your GitHub repository for the application.

 Type: string
 Required: False

version

Version information about the application.

 Type: Version (p. 47)
 Required: False

BadRequestException

message

One of the parameters in the request is invalid.

 Type: string
 Required: False

errorCode

400

 Type: string
 Required: False
ConflictException

message
The resource already exists.

   Type: string
   Required: False

errorCode
409

   Type: string
   Required: False

ForbiddenException

message
The client is not authenticated.

   Type: string
   Required: False

errorCode
403

   Type: string
   Required: False

InternalServerErrorException

message
The AWS Serverless Application Repository service encountered an internal error.

   Type: string
   Required: False

errorCode
500

   Type: string
   Required: False

NotFoundException

message
The resource (for example, an access policy statement) specified in the request doesn't exist.
Properties

errorCode
404

ParameterDefinition

name
The name of the parameter.

defaultValue
A value of the appropriate type for the template to use if no value is specified when a stack is created. If you define constraints for the parameter, you must specify a value that adheres to those constraints.

description
A string of up to 4,000 characters that describes the parameter.

type
The type of the parameter.

Valid values: String | Number | List<Number> | CommaDelimitedList

String: A literal string.

For example, users can specify "MyUserName".

Number: An integer or float. AWS CloudFormation validates the parameter value as a number. However, when you use the parameter elsewhere in your template (for example, by using the Ref intrinsic function), the parameter value becomes a string.

For example, users might specify "8888".

List<Number>: An array of integers or floats that are separated by commas. AWS CloudFormation validates the parameter value as numbers. However, when you use the parameter elsewhere in your template (for example, by using the Ref intrinsic function), the parameter value becomes a list of strings.

For example, users might specify "80,20", and then Ref results in ["80", "20"].
CommaDelimitedList: An array of literal strings that are separated by commas. The total number of strings should be one more than the total number of commas. Also, each member string is space-trimmed.

For example, users might specify "test,dev,prod", and then Ref results in ["test", "dev", "prod"].

**Type**: string  
**Required**: False

noEcho

Whether to mask the parameter value whenever anyone makes a call that describes the stack. If you set the value to true, the parameter value is masked with asterisks (****).

**Type**: boolean  
**Required**: False

allowedPattern

A regular expression that represents the patterns to allow for String types.

**Type**: string  
**Required**: False

constraintDescription

A string that explains a constraint when the constraint is violated. For example, without a constraint description, a parameter that has an allowed pattern of [A-Za-z0-9]+ displays the following error message when the user specifies an invalid value:

Malformed input-Parameter MyParameter must match pattern [A-Za-z0-9]*

By adding a constraint description, such as "must contain only uppercase and lowercase letters and numbers," you can display the following customized error message:

Malformed input-Parameter MyParameter must contain only uppercase and lowercase letters and numbers.

**Type**: string  
**Required**: False

minValue

A numeric value that determines the smallest numeric value that you want to allow for Number types.

**Type**: integer  
**Required**: False

maxValue

A numeric value that determines the largest numeric value that you want to allow for Number types.

**Type**: integer  
**Required**: False
**minLength**
An integer value that determines the smallest number of characters that you want to allow for `String` types.

*Type*: integer  
*Required*: False

**maxLength**
An integer value that determines the largest number of characters that you want to allow for `String` types.

*Type*: integer  
*Required*: False

**allowedValues**
An array containing the list of values allowed for the parameter.

*Type*: Array of type string  
*Required*: False

**referencedByResources**
A list of AWS SAM resources that use this parameter.

*Type*: Array of type string  
*Required*: True

**TooManyRequestsException**

**message**
The client is sending more than the allowed number of requests per unit of time.

*Type*: string  
*Required*: False

**errorCode**
429

*Type*: string  
*Required*: False

**UpdateApplicationInput**

**description**
The description of the application.

Minimum length=1. Maximum length=256

*Type*: string
Required: False

author

The name of the author publishing the app.
Minimum length=1. Maximum length=127.
Pattern "^[a-z0-9][((a-z0-9)[-(_-])](-(?!-))[a-z0-9])+$";

Type: string
Required: False

readmeBody

A text readme file in Markdown language that contains a more detailed description of the application and how it works.
Maximum size 5 MB

Type: string
Required: False

readmeUrl

A link to the readme file in Markdown language that contains a more detailed description of the application and how it works.
Maximum size 5 MB

Type: string
Required: False

labels

Labels to improve discovery of apps in search results.
Minimum length=1. Maximum length=127. Maximum number of labels: 10
Pattern: "^[a-zA-Z0-9+\-_:\/@]+$";

Type: Array of type string
Required: False

homePageUrl

A URL with more information about the application, for example the location of your GitHub repository for the application.

Type: string
Required: False

Version

applicationId

The application Amazon Resource Name (ARN).
Applications applicationId Changesets

URI

/applications/ applicationId /changesets

HTTP Methods

POST

Operation ID: CreateCloudFormationChangeSet
Creates an AWS CloudFormation change set for the given application.

Path Parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>applicationId</td>
<td>String</td>
<td>True</td>
<td>The ID of the application to get.</td>
</tr>
</tbody>
</table>

Responses

<table>
<thead>
<tr>
<th>Status Code</th>
<th>Response Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>201</td>
<td>ChangeSetDetails (p. 49)</td>
<td>Success</td>
</tr>
<tr>
<td>400</td>
<td>BadRequestException (p. 50)</td>
<td>One of the parameters in the request is invalid.</td>
</tr>
<tr>
<td>500</td>
<td>InternalServerErrorException (p. 51)</td>
<td>The AWS Serverless Application Repository service encountered an internal error.</td>
</tr>
<tr>
<td>403</td>
<td>ForbiddenException (p. 50)</td>
<td>The client is not authenticated.</td>
</tr>
<tr>
<td>429</td>
<td>TooManyRequestsException (p. 51)</td>
<td>The client is sending more than the allowed number of requests per unit of time.</td>
</tr>
</tbody>
</table>

Schemas

Request Bodies

Example POST

```json
{
  "stackName (p. 51)": "string",
  "semanticVersion (p. 51)": "string",
  "parameterOverides (p. 51)": [
    {
      "name (p. 52)": "string",
      "value (p. 52)": "string"
    }
  ]
}
```

Response Bodies

Example ChangeSetDetails

```json
{
  "applicationId (p. 50)": "string",
  "semanticVersion (p. 51)": "string",
  "changeSetId (p. 51)": "string",
  "stackId (p. 51)": "string"
}
```
Example BadRequestException

```json
{
  "message (p. 50)": "string",
  "errorCode (p. 50)": "string"
}
```

Example ForbiddenException

```json
{
  "message (p. 52)": "string",
  "errorCode (p. 52)": "string"
}
```

Example TooManyRequestsException

```json
{
  "message (p. 53)": "string",
  "errorCode (p. 53)": "string"
}
```

Example InternalServerErrorException

```json
{
  "message (p. 52)": "string",
  "errorCode (p. 52)": "string"
}
```

Properties

**BadRequestException**

**message**

One of the parameters in the request is invalid.

- **Type:** string
- **Required:** False

**errorCode**

400

- **Type:** string
- **Required:** False

**ChangeSetDetails**

**applicationId**

The application Amazon Resource Name (ARN).

- **Type:** string
**Properties**

**Required**: True

**semanticVersion**
The semantic version of the application:

https://semver.org/

  **Type**: string
  **Required**: True

**changeSetId**
The Amazon Resource Name (ARN) of the change set.

Length constraints: Minimum length of 1.

Pattern: ARN:[-a-zA-Z0-9/]*

  **Type**: string
  **Required**: True

**stackId**
The unique ID of the stack.

  **Type**: string
  **Required**: True

**CreateCloudFormationChangeSetInput**

**stackName**
The name or the unique ID of the stack for which you are creating a change set. AWS CloudFormation generates the change set by comparing this stack's information with the information that you submit, such as a modified template or different parameter input values.

Constraints: Minimum length of 1.

Pattern: ([a-zA-Z][-a-zA-Z0-9]*)|(arn: aws|aws-us-gov|aws-cn:[-a-zA-Z0-9_/\+]*)

  **Type**: string
  **Required**: True

**semanticVersion**
The semantic version of the application:

https://semver.org/

  **Type**: string
  **Required**: False

**parameterOverrides**
A list of parameter values for the parameters of the application.
ForbiddenException

**message**
The client is not authenticated.

  **Type:** string
  **Required:** False

**errorCode**
403

  **Type:** string
  **Required:** False

InternalServerException

**message**
The AWS Serverless Application Repository service encountered an internal error.

  **Type:** string
  **Required:** False

**errorCode**
500

  **Type:** string
  **Required:** False

ParameterValue

**name**
The key associated with the parameter. If you don't specify a key and value for a particular parameter, AWS CloudFormation uses the default value that is specified in your template.

  **Type:** string
  **Required:** True

**value**
The input value associated with the parameter.

  **Type:** string
  **Required:** True
TooManyRequestsException

message

The client is sending more than the allowed number of requests per unit of time.

  Type: string
  Required: False

errorCode

429

  Type: string
  Required: False

Applications applicationId Policy

URI

/applications/ applicationId /policy

HTTP Methods

GET

Operation ID: GetApplicationPolicy

Gets the policy for the specified application.

Path Parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>applicationId</td>
<td>String</td>
<td>True</td>
<td>The ID of the application to get.</td>
</tr>
</tbody>
</table>

Responses

<table>
<thead>
<tr>
<th>Status Code</th>
<th>Response Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>ApplicationPolicy (p. 55)</td>
<td>Success</td>
</tr>
<tr>
<td>400</td>
<td>BadRequestException (p. 55)</td>
<td>One of the parameters in the request is invalid.</td>
</tr>
<tr>
<td>500</td>
<td>InternalServerErrorException</td>
<td>The AWS Serverless Application Repository service encountered an internal error.</td>
</tr>
<tr>
<td>403</td>
<td>ForbiddenException (p. 55)</td>
<td>The client is not authenticated.</td>
</tr>
</tbody>
</table>
### Status Code

<table>
<thead>
<tr>
<th>Status Code</th>
<th>Response Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>404</td>
<td>Not Found Exception (p. 55)</td>
<td>The resource (for example, an access policy statement) specified in the request doesn't exist.</td>
</tr>
<tr>
<td>429</td>
<td>Too Many Requests Exception (p. 55)</td>
<td>The client is sending more than the allowed number of requests per unit of time.</td>
</tr>
</tbody>
</table>

### PUT

Operation ID: PutApplicationPolicy

Puts the policy for the specified application.

#### Path Parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>applicationId</td>
<td>String</td>
<td>True</td>
<td>The ID of the application to get.</td>
</tr>
</tbody>
</table>

#### Responses

<table>
<thead>
<tr>
<th>Status Code</th>
<th>Response Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>ApplicationPolicy (p. 55)</td>
<td>Success</td>
</tr>
<tr>
<td>400</td>
<td>BadRequestException (p. 55)</td>
<td>One of the parameters in the request is invalid.</td>
</tr>
<tr>
<td>500</td>
<td>Internal Server Error Exception</td>
<td>The AWS Serverless Application Repository service encountered an internal error.</td>
</tr>
<tr>
<td>403</td>
<td>ForbiddenException (p. 55)</td>
<td>The client is not authenticated.</td>
</tr>
<tr>
<td>404</td>
<td>Not Found Exception (p. 55)</td>
<td>The resource (for example, an access policy statement) specified in the request doesn't exist.</td>
</tr>
<tr>
<td>429</td>
<td>Too Many Requests Exception (p. 55)</td>
<td>The client is sending more than the allowed number of requests per unit of time.</td>
</tr>
</tbody>
</table>

### Schemas

#### Request Bodies

Example PUT

```json
{
}
```
"statements (p. 56)" : [  
  {  
    "statementId (p. 56)" : "string",
    "principals (p. 56)" : [  
      "string"
    ],
    "actions (p. 56)" : [  
      "string"
    ]
  },
}

Response Bodies

Example ApplicationPolicy

{  
  "statements (p. 56)" : [  
    {  
      "statementId (p. 56)" : "string",
      "principals (p. 56)" : [  
        "string"
      ],
      "actions (p. 56)" : [  
        "string"
      ]
    },
  ]
}

Example BadRequestException

{  
  "message (p. 56)" : "string",
  "errorCode (p. 57)" : "string"
}

Example ForbiddenException

{  
  "message (p. 57)" : "string",
  "errorCode (p. 57)" : "string"
}

Example NotFoundException

{  
  "message (p. 57)" : "string",
  "errorCode (p. 57)" : "string"
}

Example TooManyRequestsException

{  
  "message (p. 58)" : "string",
  "errorCode (p. 58)" : "string"
}
Example InternalServerErrorException

```
{
  "message (p. 57)": "string",
  "errorCode (p. 57)": "string"
}
```

Properties

**ApplicationPolicy**

*statements*

An array of policy statements applied to the application.

  Type: Array of type ApplicationPolicyStatement (p. 56)
  Required: True

**ApplicationPolicyStatement**

*statementId*

A unique ID for the statement.

  Type: string
  Required: False

*principals*

An AWS account ID, or * to make the application public.

  Type: Array of type string
  Required: True

*actions*

A list of supported actions:

- GetApplication
- CreateCloudFormationChangeSet
- ListApplicationVersions
- SearchApplications
- Deploy (Note: This action enables all other actions preceding.)

  Type: Array of type string
  Required: True

**BadRequestException**

*message*

One of the parameters in the request is invalid.
Properties

**Type**: string  
**Required**: False

**errorCode**

400

**Type**: string  
**Required**: False

**ForbiddenException**

**message**

The client is not authenticated.

**Type**: string  
**Required**: False

**errorCode**

403

**Type**: string  
**Required**: False

**InternalServerErrorException**

**message**

The AWS Serverless Application Repository service encountered an internal error.

**Type**: string  
**Required**: False

**errorCode**

500

**Type**: string  
**Required**: False

**NotFoundException**

**message**

The resource (for example, an access policy statement) specified in the request doesn't exist.

**Type**: string  
**Required**: False

**errorCode**

404
Type: string
Required: False

TooManyRequestsException

message
The client is sending more than the allowed number of requests per unit of time.

Type: string
Required: False

errorCode
429
Type: string
Required: False

Applications applicationId Versions

URI

/applications/ applicationId /versions

HTTP Methods

GET

Operation ID: ListApplicationVersions

Lists versions for the specified application.

Path Parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>applicationId</td>
<td>String</td>
<td>True</td>
<td>The ID of the application to get.</td>
</tr>
</tbody>
</table>

Query Parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>maxItems</td>
<td>String</td>
<td>False</td>
<td>The total number of items to return.</td>
</tr>
<tr>
<td>nextToken</td>
<td>String</td>
<td>False</td>
<td>A token to specify where to start paginating.</td>
</tr>
</tbody>
</table>

## Responses

<table>
<thead>
<tr>
<th>Status Code</th>
<th>Response Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>ApplicationVersionPage (p. 59)</td>
<td>Success</td>
</tr>
<tr>
<td>400</td>
<td>BadRequestException (p. 59)</td>
<td>One of the parameters in the request is invalid.</td>
</tr>
<tr>
<td>500</td>
<td>InternalServerErrorException (p. 60)</td>
<td>The AWS Serverless Application Repository service encountered an internal error.</td>
</tr>
<tr>
<td>403</td>
<td>ForbiddenException (p. 59)</td>
<td>The client is not authenticated.</td>
</tr>
<tr>
<td>404</td>
<td>NotFoundException (p. 60)</td>
<td>The resource (for example, an access policy statement) specified in the request doesn't exist.</td>
</tr>
<tr>
<td>429</td>
<td>TooManyRequestsException (p. 60)</td>
<td>The client is sending more than the allowed number of requests per unit of time.</td>
</tr>
</tbody>
</table>

## Schemas

### Response Bodies

**Example ApplicationVersionPage**

```json
{
    "versions (p. 60)": [
        {
            "applicationId (p. 62)": "string",
            "semanticVersion (p. 62)": "string",
            "sourceCodeUrl (p. 62)": "string",
            "creationTime (p. 62)": "string"
        }
    ],
    "nextToken (p. 60)": "string"
}
```

**Example BadRequestException**

```json
{
    "message (p. 60)": "string",
    "errorCode (p. 60)": "string"
}
```

**Example ForbiddenException**

```json
{
    "message (p. 61)": "string",
    "errorCode (p. 61)": "string"
}
```
Example `NotFoundException`

```json
{
  "message (p. 61)": "string",
  "errorCode (p. 61)": "string"
}
```

Example `TooManyRequestsException`

```json
{
  "message (p. 61)": "string",
  "errorCode (p. 61)": "string"
}
```

Example `InternalServerErrorException`

```json
{
  "message (p. 61)": "string",
  "errorCode (p. 61)": "string"
}
```

**Properties**

**ApplicationVersionPage**

`versions`

An array of version summaries for the application.

- **Type**: Array of type `VersionSummary (p. 62)`
- **Required**: True

`nextToken`

The token to request the next page of results.

- **Type**: string
- **Required**: False

**BadRequestException**

`message`

One of the parameters in the request is invalid.

- **Type**: string
- **Required**: False

`errorCode`

400

- **Type**: string
- **Required**: False
ForbiddenException

message
The client is not authenticated.

  Type: string
  Required: False

errorCode
403
  Type: string
  Required: False

InternalServerErrorException

message
The AWS Serverless Application Repository service encountered an internal error.

  Type: string
  Required: False

errorCode
500
  Type: string
  Required: False

NotFoundException

message
The resource (for example, an access policy statement) specified in the request doesn't exist.

  Type: string
  Required: False

errorCode
404
  Type: string
  Required: False

TooManyRequestsException

message
The client is sending more than the allowed number of requests per unit of time.
Applications applicationId Versions semanticVersion

URI

/applications/ applicationId /versions/ semanticVersion
HTTP Methods

PUT

Operation ID: CreateApplicationVersion

Creates an application version.

Path Parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>applicationId</td>
<td>String</td>
<td>True</td>
<td>The ID of the application to get.</td>
</tr>
<tr>
<td>semanticVersion</td>
<td>String</td>
<td>True</td>
<td>The semantic version of the new version.</td>
</tr>
</tbody>
</table>

Responses

<table>
<thead>
<tr>
<th>Status Code</th>
<th>Response Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>201</td>
<td>Version (p. 64)</td>
<td>Success</td>
</tr>
<tr>
<td>400</td>
<td>BadRequestException (p. 64)</td>
<td>One of the parameters in the request is invalid.</td>
</tr>
<tr>
<td>500</td>
<td>InternalServerErrorException (p. 65)</td>
<td>The AWS Serverless Application Repository service encountered an internal error.</td>
</tr>
<tr>
<td>403</td>
<td>ForbiddenException (p. 64)</td>
<td>The client is not authenticated.</td>
</tr>
<tr>
<td>429</td>
<td>TooManyRequestsException (p. 64)</td>
<td>The client is sending more than the allowed number of requests per unit of time.</td>
</tr>
<tr>
<td>409</td>
<td>ConflictException (p. 64)</td>
<td>The resource already exists.</td>
</tr>
</tbody>
</table>

Schemas

Request Bodies

Example PUT

```json
{
  "templateBody (p. 65)": "string",
  "templateUrl (p. 66)": "string",
  "sourceCodeUrl (p. 66)": "string"
}
```
Response Bodies

Example Version

```json
{
  "applicationId (p. 69)": "string",
  "semanticVersion (p. 69)": "string",
  "sourceCodeUrl (p. 69)": "string",
  "templateUrl (p. 69)": "string",
  "creationTime (p. 70)": "string",
  "parameterDefinitions (p. 70)": [
    {
      "name (p. 66)": "string",
      "defaultValue (p. 67)": "string",
      "description (p. 67)": "string",
      "type (p. 67)": "string",
      "noEcho (p. 67)": boolean,
      "allowedPattern (p. 67)": "string",
      "constraintDescription (p. 68)": "string",
      "minValue (p. 68)": integer,
      "maxValue (p. 68)": integer,
      "minLength (p. 68)": integer,
      "maxLength (p. 68)": integer,
      "allowedValues (p. 68)": [
        "string"
      ],
      "referencedByResources (p. 69)": [
        "string"
      ]
    }
  ]
}
```

Example BadRequestException

```json
{
  "message (p. 65)": "string",
  "errorCode (p. 65)": "String"
}
```

Example ForbiddenException

```json
{
  "message (p. 66)": "string",
  "errorCode (p. 66)": "String"
}
```

Example ConflictException

```json
{
  "message (p. 65)": "string",
  "errorCode (p. 65)": "String"
}
```

Example TooManyRequestsException

```json
{
}
```
Properties

BadRequestException

message
One of the parameters in the request is invalid.

Type: string
Required: False

errorCode
400

Type: string
Required: False

ConflictException

message
The resource already exists.

Type: string
Required: False

errorCode
409

Type: string
Required: False

CreateApplicationVersionInput

templateBody
The raw packaged AWS SAM template of your application.

Type: string
Required: False
templateUrl
A link to the packaged AWS SAM template of your application.

Type: string
Required: False

sourceCodeUrl
A link to a public repository for the source code of your application.

Type: string
Required: False

ForbiddenException
message
The client is not authenticated.

Type: string
Required: False

errorCode
403

Type: string
Required: False

InternalServerErrorException
message
The AWS Serverless Application Repository service encountered an internal error.

Type: string
Required: False

errorCode
500

Type: string
Required: False

ParameterDefinition
name
The name of the parameter.

Type: string
Required: True
**defaultValue**

A value of the appropriate type for the template to use if no value is specified when a stack is created. If you define constraints for the parameter, you must specify a value that adheres to those constraints.

  * **Type:** string
  * **Required:** False

**description**

A string of up to 4,000 characters that describes the parameter.

  * **Type:** string
  * **Required:** False

**type**

The type of the parameter.

Valid values: `String` | `Number` | `List<Number>` | `CommaDelimitedList`

- **String:** A literal string.
  
  For example, users can specify "MyUserName".

- **Number:** An integer or float. AWS CloudFormation validates the parameter value as a number. However, when you use the parameter elsewhere in your template (for example, by using the `Ref` intrinsic function), the parameter value becomes a string.

  For example, users might specify "8888".

- **List<Number>:** An array of integers or floats that are separated by commas. AWS CloudFormation validates the parameter value as numbers. However, when you use the parameter elsewhere in your template (for example, by using the `Ref` intrinsic function), the parameter value becomes a list of strings.

  For example, users might specify "80,20", and then `Ref` results in `["80","20"]`.

- **CommaDelimitedList:** An array of literal strings that are separated by commas. The total number of strings should be one more than the total number of commas. Also, each member string is space-trimmed.

  For example, users might specify "test,dev,prod", and then `Ref` results in `["test","dev","prod"]`.

  * **Type:** string
  * **Required:** False

**noEcho**

Whether to mask the parameter value whenever anyone makes a call that describes the stack. If you set the value to true, the parameter value is masked with asterisks (*****).

  * **Type:** boolean
  * **Required:** False

**allowedPattern**

A regular expression that represents the patterns to allow for `String` types.
Type: string
Required: False

**constraintDescription**

A string that explains a constraint when the constraint is violated. For example, without a constraint
description, a parameter that has an allowed pattern of `[A-Za-z0-9]+` displays the following error
message when the user specifies an invalid value:

Malformed input-Parameter MyParameter must match pattern [A-Za-z0-9]+ By adding a constraint
description, such as "must contain only uppercase and lowercase letters and
numbers," you can display the following customized error message:

Malformed input-Parameter MyParameter must contain only uppercase and lowercase
letters and numbers.

Type: string
Required: False

**minValue**

A numeric value that determines the smallest numeric value that you want to allow for **Number**
types.

Type: integer
Required: False

**maxValue**

A numeric value that determines the largest numeric value that you want to allow for **Number**
types.

Type: integer
Required: False

**minLength**

An integer value that determines the smallest number of characters that you want to allow for **String**
types.

Type: integer
Required: False

**maxLength**

An integer value that determines the largest number of characters that you want to allow for **String**
types.

Type: integer
Required: False

**allowedValues**

An array containing the list of values allowed for the parameter.

Type: Array of type string
Properties

**Required**: False

**referencedByResources**
A list of AWS SAM resources that use this parameter.

  * **Type**: Array of type string
  * **Required**: True

**TooManyRequestsException**

**message**
The client is sending more than the allowed number of requests per unit of time.

  * **Type**: string
  * **Required**: False

**errorCode**
429

  * **Type**: string
  * **Required**: False

**Version**

**applicationId**
The application Amazon Resource Name (ARN).

  * **Type**: string
  * **Required**: True

**semanticVersion**
The semantic version of the application:

https://semver.org/

  * **Type**: string
  * **Required**: True

**sourceCodeUrl**
A link to a public repository for the source code of your application.

  * **Type**: string
  * **Required**: False

**templateUrl**
A link to the packaged AWS SAM template of your application.
Properties

**Type**: string
**Required**: True

**creationTime**
The date and time this resource was created.

**Type**: string
**Required**: True

**parameterDefinitions**
An array of parameter types supported by the application.

**Type**: Array of type ParameterDefinition (p. 66)
**Required**: True
Document History

The following table describes the documentation for this release of the AWS Serverless Application Repository.

- **API version:** latest
- **Latest documentation update:** February 20, 2018

<table>
<thead>
<tr>
<th>Change</th>
<th>Description</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public release</td>
<td>Public release of the AWS Serverless Application Repository, which is now available in 14 AWS Regions. For more information about the AWS Regions where the AWS Serverless Application Repository is available and AWS Serverless Application Repository endpoints, see <a href="https://docs.aws.amazon.com/serverless_application_repository/latest/userguide/regions-and-endpoints.html">Regions and Endpoints in the AWS General Reference</a></td>
<td>In this release</td>
</tr>
<tr>
<td>New guide</td>
<td>This is the first, preview release of the AWS Serverless Application Repository Developer Guide.</td>
<td>November 30, 2017</td>
</tr>
</tbody>
</table>
AWS Glossary

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