

# Amazon Resource Names (ARNs) and AWS Service Namespaces


Amazon Resource Names (ARNs) uniquely identify AWS resources. We require an ARN when you need to specify a resource unambiguously across all of AWS, such as in IAM policies, Amazon Relational Database Service (Amazon RDS) tags, and API calls.

## Topics

- [ARN Format](#)
- [Example ARNs](#)
- [Paths in ARNs](#)
- [AWS Service Namespaces](#)

## ARN Format

Here are some example ARNs:

 **Copy**


```
<!-- Elastic Beanstalk application version -->
arn:aws:elasticbeanstalk:us-east-1:123456789012:environment/My App/MyEnvironment

<!-- IAM user name -->
arn:aws:iam::123456789012:user/David

<!-- Amazon RDS instance used for tagging -->
arn:aws:rds:eu-west-1:123456789012:db:mysql-db

<!-- Object in an Amazon S3 bucket -->
arn:aws:s3::my_corporate_bucket/exampleobject.png
```

The following are the general formats for ARNs; the specific components and values used depend on the AWS service.

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```
arn:partition:service:region:account-id:resource
arn:partition:service:region:account-id:resourcetype/resource
arn:partition:service:region:account-id:resourcetype:resource
```

*partition*

The partition that the resource is in. For standard AWS regions, the partition is `aws`. If you have resources in other partitions, the partition is `aws-partitionname`. For

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### *service*

The service namespace that identifies the AWS product (for example, Amazon S3, IAM, or Amazon RDS). For a list of namespaces, see [AWS Service Namespaces](#).

### *region*

The region the resource resides in. Note that the ARNs for some resources do not require a region, so this component might be omitted.

### *account*

The [ID](#) of the AWS account that owns the resource, without the hyphens. For example, 123456789012. Note that the ARNs for some resources don't require an account number, so this component might be omitted.

### *resource*, *resourcetype:resource*, or *resourcetype/resource*

The content of this part of the ARN varies by service. It often includes an indicator of the type of resource—for example, an IAM user or Amazon RDS database—followed by a slash (/) or a colon (:), followed by the resource name itself. Some services allow paths for resource names, as described in [Paths in ARNs](#).

## Example ARNs

The following sections provide syntax and examples of the ARNs for different services. For more information about using ARNs in a specific AWS service, see the documentation for that service.

Some services support IAM resource-level permissions. For more information, see [AWS Services That Work with IAM](#).

### Topics

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- [Amazon Simple Workflow Service \(Amazon SWF\)](#)
- [AWS Step Functions](#)
- [AWS Storage Gateway](#)
- [AWS Trusted Advisor](#)
- [AWS WAF](#)

## Amazon API Gateway

Syntax:

```
arn:aws:apigateway:region::resource-path  
arn:aws:execute-api:region:account-id:api-id/stage-name/HTTP-VERB/resource-path
```



Examples:

```
arn:aws:apigateway:us-east-1::/restapis/a123456789012bc3de45678901f23a45/*  
arn:aws:apigateway:us-east-1::a123456789012bc3de45678901f23a45:/test/mydemoresour  
arn:aws:apigateway:*::a123456789012bc3de45678901f23a45:*/petstorewalkthrough/pet  
arn:aws:execute-api:us-east-1:123456789012:qsxrty/test/GET/mydemoresource/*
```



## AWS Artifact

Syntax:

```
arn:aws:artifact:::report-package/document-type/report-type
```



Examples:

```
arn:aws:artifact:::report-package/Certifications and Attestations/SOC/*  
arn:aws:artifact:::report-package/Certifications and Attestations/ISO/*  
arn:aws:artifact:::report-package/Certifications and Attestations/PCI/*
```



## Auto Scaling

Syntax:

```
arn:aws:autoscaling:region:account-id:scalingPolicy:policyid:autoScalingGroupName  
arn:aws:autoscaling:region:account-id:autoScalingGroup:groupid:autoScalingGroupNa
```



Example:



```
arn:aws:autoscaling:us-east-1:123456789012:scalingPolicy:c7a27f55-d35e-4153-b044-
```

## AWS Certificate Manager

Syntax:



```
arn:aws:acm:region:account-id:certificate/certificate-id
```

Example:



```
arn:aws:acm:us-east-1:123456789012:certificate/12345678-1234-1234-1234-1234567890
```

## AWS CloudFormation

Syntax:



```
arn:aws:cloudformation:region:account-id:stack/stackname/additionalidentifier
```



```
arn:aws:cloudformation:region:account-id:changeSet/changesetname/additionalident
```

Examples:



```
arn:aws:cloudformation:us-east-1:123456789012:stack/MyProductionStack/abc9dbf0-41
```



```
arn:aws:cloudformation:us-east-1:123456789012:changeSet/MyProductionChangeSet/abc
```

## Amazon CloudSearch

Syntax:



```
arn:aws:cloudsearch:region:account-id:domain/domainname
```

Example:



```
arn:aws:cloudsearch:us-east-1:123456789012:domain/imdb-movies
```

## AWS CloudTrail

Syntax:

```
arn:aws:cloudtrail:region:account-id:trail/trailname
```



Example:

```
arn:aws:cloudtrail:us-east-1:123456789012:trail/mytrailname
```



## Amazon CloudWatch Events

Syntax:

```
arn:aws:events:region:*:*
```



Examples:

```
arn:aws:events:us-east-1*:*  
arn:aws:events:us-east-1:123456789012:*  
arn:aws:events:us-east-1:123456789012:rule/my-rule
```



## Amazon CloudWatch Logs

Syntax:

```
arn:aws:logs:region:*:*
```



Examples:

```
arn:aws:logs:us-east-1*:*  
arn:aws:logs:us-east-1:123456789012:*  
arn:aws:logs:us-east-1:123456789012:log-group:my-log-group  
arn:aws:logs:us-east-1:123456789012:log-group:my-log-group:*  
arn:aws:logs:us-east-1:123456789012:log-group:my-log-group*  
arn:aws:logs:us-east-1:123456789012:log-group:my-log-group:log-stream:my-log-stream  
arn:aws:logs:us-east-1:123456789012:log-group:my-log-group:log-stream:my-log-stream*  
arn:aws:logs:us-east-1:123456789012:log-group:my-log-group*:log-stream:my-log-stream
```



## AWS CodeBuild

### Syntax:

```
arn:aws:codebuild:region:account-id:resourcetype/resource
```



### Examples:

```
arn:aws:codebuild:us-east-1:123456789012:project/my-demo-project  
arn:aws:codebuild:us-east-1:123456789012:build/my-demo-project:7b7416ae-89b4-46cc
```



## AWS CodeCommit

### Syntax:

```
arn:aws:codecommit:region:account-id:resource-specifier
```



### Example:

```
arn:aws:codecommit:us-east-1:123456789012:MyDemoRepo
```



## AWS CodeDeploy

### Syntax:

```
arn:aws:codedeploy:region:account-id:resource-type:resource-specifier  
arn:aws:codedeploy:region:account-id:resource-type/resource-specifier
```



### Example:

```
arn:aws:codedeploy:us-east-1:123456789012:application:WordPress_App  
arn:aws:codedeploy:us-east-1:123456789012:instance/AssetTag*
```



## Amazon Cognito User Pools

### Syntax:

```
arn:aws:cognito-idp:region:account-id:userpool/user-pool-id
```



### Example:



```
arn:aws:cognito-idp:us-east-1:123456789012:userpool/us-east-1:1a1a1a1a-ffff-1111-
```

## Amazon Cognito Federated Identities

Syntax:



```
arn:aws:cognito-identity:region:account-id:identitypool/identity-pool-id
```

Example:



```
arn:aws:cognito-identity:us-east-1:123456789012:/identitypool/us-east-1:1a1a1a1a-
```

## Amazon Cognito Sync

Syntax:



```
arn:aws:cognito-sync:region:account-id:identitypool/identity-pool-id
```



```
arn:aws:cognito-sync:region:account-id:identitypool/identity-pool-id/identity/id
```



```
arn:aws:cognito-sync:region:account-id:identitypool/identity-pool-id/identity/id
```

Example:



```
arn:aws:cognito-sync:us-east-1:123456789012:identitypool/us-east-1:1a1a1a1a-ffff-
```

## AWS Config

Syntax:



```
arn:aws:config:region:account-id:config-rule/config-rule-name
```

Example:



```
arn:aws:config:us-east-1:123456789012:config-rule/MyConfigRule
```



## AWS CodePipeline

Syntax:

```
arn:aws:codepipeline:region:account-id:resource-specifier
```



Example:

```
arn:aws:codepipeline:us-east-1:123456789012:MyDemoPipeline
```



## AWS CodeStar

Syntax:

```
arn:aws:codestar:region:account-id:resource-specifier
```



Example:

```
arn:aws:codestar:us-east-1:123456789012:my-first-projec
```



## AWS Direct Connect

Syntax:

```
arn:aws:directconnect:region:account-id:dxcon/connection-id  
arn:aws:directconnect:region:account-id:dxlag/lag-id  
arn:aws:directconnect:region:account-id:dxvif/virtual-interface-id
```



Examples:

```
arn:aws:directconnect:us-east-1:123456789012:dxcon/dxcon-fgase048  
arn:aws:directconnect:us-east-1:123456789012:dxlag/dxlag-ffy7zraq  
arn:aws:directconnect:us-east-1:123456789012:dxvif/dxvif-fgrb110x
```



## Amazon DynamoDB

Syntax:

```
arn:aws:dynamodb:region:account-id:table/tablename
```



Example:

```
arn:aws:dynamodb:us-east-1:123456789012:table/books_table
```



## Amazon EC2 Container Registry (Amazon ECR)

Syntax:

```
arn:aws:ecr:region:account-id:repository/repository-name
```



Example:

```
arn:aws:ecr:us-east-1:123456789012:repository/my-repository
```



## Amazon EC2 Container Service (Amazon ECS)

Syntax:

```
arn:aws:ecs:region:account-id:cluster/cluster-name  
arn:aws:ecs:region:account-id:container-instance/container-instance-id  
arn:aws:ecs:region:account-id:task-definition/task-definition-family-name:task-definition-id  
arn:aws:ecs:region:account-id:service/service-name  
arn:aws:ecs:region:account-id:task/task-id  
arn:aws:ecs:region:account-id:container/container-id
```



Examples:

```
arn:aws:ecs:us-east-1:123456789012:cluster/my-cluster  
arn:aws:ecs:us-east-1:123456789012:container-instance/403125b0-555c-4473-86b5-659  
arn:aws:ecs:us-east-1:123456789012:task-definition/hello_world:8  
arn:aws:ecs:us-east-1:123456789012:service/sample-webapp  
arn:aws:ecs:us-east-1:123456789012:task/labf0f6d-a411-4033-b8eb-a4eed3ad252a  
arn:aws:ecs:us-east-1:123456789012:container/476e7c41-17f2-4c17-9d14-412566202c8a
```



## Amazon Elastic Compute Cloud (Amazon EC2)

Syntax:

```
arn:aws:ec2:region:account-id:customer-gateway/cgw-id  
arn:aws:ec2:region:account-id:dedicated-host/host-id  
arn:aws:ec2:region:account-id:dhcp-options/dhcp-options-id  
arn:aws:ec2:region::image/image-id
```



```

arn:aws:ec2:region:account-id:instance/instance-id
arn:aws:iam::account:instance-profile/instance-profile-name
arn:aws:ec2:region:account-id:internet-gateway/igw-id
arn:aws:ec2:region:account-id:key-pair/key-pair-name
arn:aws:ec2:region:account-id:network-acl/nacl-id
arn:aws:ec2:region:account-id:network-interface/eni-id
arn:aws:ec2:region:account-id:placement-group/placement-group-name
arn:aws:ec2:region:account-id:route-table/route-table-id
arn:aws:ec2:region:account-id:security-group/security-group-id
arn:aws:ec2:region:account-id:snapshot/snapshot-id
arn:aws:ec2:region:account-id:subnet/subnet-id
arn:aws:ec2:region:account-id:volume/volume-id
arn:aws:ec2:region:account-id:vpc/vpc-id
arn:aws:ec2:region:account-id:vpc-peering-connection/vpc-peering-connection-id
arn:aws:ec2:region:account-id:vpn-connection/vpn-id
arn:aws:ec2:region:account-id:vpn-gateway/vgw-id

```

## Examples:

```

arn:aws:ec2:us-east-1:123456789012:dedicated-host/h-12345678
arn:aws:ec2:us-east-1::image/ami-1a2b3c4d
arn:aws:ec2:us-east-1:123456789012:instance/*
arn:aws:ec2:us-east-1:123456789012:volume/*
arn:aws:ec2:us-east-1:123456789012:volume/vol-1a2b3c4d

```



## AWS Elastic Beanstalk

### Syntax:

```

arn:aws:elasticbeanstalk:region:account-id:application/applicationname
arn:aws:elasticbeanstalk:region:account-id:applicationversion/applicationname/version-label
arn:aws:elasticbeanstalk:region:account-id:environment/applicationname/environmentname
arn:aws:elasticbeanstalk:region::solutionstack/solutionstackname
arn:aws:elasticbeanstalk:region:account-id:configurationtemplate/applicationname/template-name

```



### Examples:

```

arn:aws:elasticbeanstalk:us-east-1:123456789012:application/My App
arn:aws:elasticbeanstalk:us-east-1:123456789012:applicationversion/My App/My Version
arn:aws:elasticbeanstalk:us-east-1:123456789012:environment/My App/MyEnvironment
arn:aws:elasticbeanstalk:us-east-1::solutionstack/32bit Amazon Linux running Tomcat
arn:aws:elasticbeanstalk:us-east-1:123456789012:configurationtemplate/My App/MyTemplate

```



## Amazon Elastic File System

### Syntax:



```
arn:aws:elasticfilesystem:region:account-id:file-system/file-system-id
```

Example:

```
arn:aws:elasticfilesystem:us-east-1:123456789012:file-system-id/fs12345678
```



## Elastic Load Balancing (Application Load Balancer)

Syntax:

```
arn:aws:elasticloadbalancing:region:account-id:loadbalancer/app/load-balancer-name
arn:aws:elasticloadbalancing:region:account-id:listener/app/load-balancer-name/listener-name
arn:aws:elasticloadbalancing:region:account-id:listener-rule/app/load-balancer-name/listener-name/listener-rule-name
arn:aws:elasticloadbalancing:region:account-id:targetgroup/target-group-name/target-group-id
```



Examples:

```
arn:aws:elasticloadbalancing:us-east-1:123456789012:loadbalancer/app/my-load-balancer
arn:aws:elasticloadbalancing:us-east-1:123456789012:listener/app/my-load-balancer
arn:aws:elasticloadbalancing:us-east-1:123456789012:listener-rule/app/my-load-balancer
arn:aws:elasticloadbalancing:us-east-1:123456789012:targetgroup/my-targets/73e2d6
```



## Elastic Load Balancing (Classic Load Balancer)

Syntax:

```
arn:aws:elasticloadbalancing:region:account-id:loadbalancer/name
```



Example:

```
arn:aws:elasticloadbalancing:us-east-1:123456789012:loadbalancer/my-load-balancer
```



## Amazon Elastic Transcoder

Syntax:

```
arn:aws:elastictranscoder:region:account-id:resource/id
```



Example:

```
arn:aws:elastictranscoder:us-east-1:123456789012:preset/*
```



## Amazon ElastiCache

Syntax:

```
arn:aws:elasticache:region:account-id:resourcetype:resourcename
```



Examples:

```
arn:aws:elasticache:us-east-2:123456789012:cluster:myCluster  
arn:aws:elasticache:us-east-2:123456789012:snapshot:mySnapshot
```



## Amazon Elasticsearch Service

Syntax:

```
arn:aws:es:region:account-id:domain/domain-name
```



Example:

```
arn:aws:es:us-east-1:123456789012:domain/streaming-logs
```



## Amazon Glacier

Syntax:

```
arn:aws:glacier:region:account-id:vaults/vaultname
```



Examples:

```
arn:aws:glacier:us-east-1:123456789012:vaults/examplevault  
arn:aws:glacier:us-east-1:123456789012:vaults/example*  
arn:aws:glacier:us-east-1:123456789012:vaults/*
```



## AWS Health / Personal Health Dashboard

Syntax:



```
arn:aws:health:region::event/event-id
arn:aws:health:region:account-id:entity/entity-id
```

## Examples:

```
arn:aws:health:us-east-1::event/AWS_EC2_EXAMPLE_ID
arn:aws:health:us-east-1:123456789012:entity/AVh5GGT7u11arKr1sE1K
```



## AWS Identity and Access Management (IAM)

### Syntax:

```
arn:aws:iam::account-id:root
arn:aws:iam::account-id:user/user-name
arn:aws:iam::account-id:group/group-name
arn:aws:iam::account-id:role/role-name
arn:aws:iam::account-id:policy/policy-name
arn:aws:iam::account-id:instance-profile/instance-profile-name
arn:aws:sts::account-id:federated-user/user-name
arn:aws:sts::account-id:assumed-role/role-name/role-session-name
arn:aws:iam::account-id:mfa/virtual-device-name
arn:aws:iam::account-id:server-certificate/certificate-name
arn:aws:iam::account-id:saml-provider/provider-name
arn:aws:iam::account-id:oidc-provider/provider-name
```



### Examples:

```
arn:aws:iam::123456789012:root
arn:aws:iam::123456789012:user/Bob
arn:aws:iam::123456789012:user/division_abc/subdivision_xyz/Bob
arn:aws:iam::123456789012:group/Developers
arn:aws:iam::123456789012:group/division_abc/subdivision_xyz/product_A/Developers
arn:aws:iam::123456789012:role/S3Access
arn:aws:iam::123456789012:role/application_abc/component_xyz/S3Access
arn:aws:iam::123456789012:policy/UsersManageOwnCredentials
arn:aws:iam::123456789012:policy/division_abc/subdivision_xyz/UsersManageOwnCred
arn:aws:iam::123456789012:instance-profile/Webserver
arn:aws:sts::123456789012:federated-user/Bob
arn:aws:sts::123456789012:assumed-role/Accounting-Role/Mary
arn:aws:iam::123456789012:mfa/BobJonesMFA
arn:aws:iam::123456789012:server-certificate/ProdServerCert
arn:aws:iam::123456789012:server-certificate/division_abc/subdivision_xyz/ProdSer
arn:aws:iam::123456789012:saml-provider/ADFSProvider
arn:aws:iam::123456789012:oidc-provider/GoogleProvider
```



For more information about IAM ARNs, see [IAM ARNs](#) in IAM User Guide.

## AWS IoT

### Syntax:

```
arn:aws:iot:your-region:account-id:cert/cert-ID  
arn:aws:iot:your-region:account-id:policy/policy-name  
arn:aws:iot:your-region:account-id:rule/rule-name  
arn:aws:iot:your-region:account-id:client/client-id/rule-name
```



### Examples:

```
arn:aws:iot:your-region:123456789012:cert/123a456b789c123d456e789f123a456b789c123  
arn:aws:iot:123456789012:policy/MyIoTPolicy  
arn:aws:iot:your-region:123456789012:rule/MyIoTRule  
arn:aws:iot:your-region:123456789012:client/client101
```



## AWS Key Management Service (AWS KMS)

### Syntax:

```
arn:aws:kms:region:account-id:key/key-id  
arn:aws:kms:region:account-id:alias/alias
```



### Examples:

```
arn:aws:kms:us-east-1:123456789012:key/12345678-1234-1234-1234-123456789012  
arn:aws:kms:us-east-1:123456789012:alias/example-alias
```



## Amazon Kinesis Firehose (Firehose)

### Syntax:

```
arn:aws:firehose:region:account-id:deliverystream/delivery-stream-name
```



### Example:

```
arn:aws:firehose:us-east-1:123456789012:deliverystream/example-stream-name
```



## Amazon Kinesis Streams (Streams)

### Syntax:



```
arn:aws:kinesis:region:account-id:stream/stream-name
```

Example:

```
arn:aws:kinesis:us-east-1:123456789012:stream/example-stream-name
```



## AWS Lambda (Lambda)

Syntax:

```
arn:aws:lambda:region:account-id:function:function-name  
arn:aws:lambda:region:account-id:function:function-name:alias-name  
arn:aws:lambda:region:account-id:function:function-name:version  
arn:aws:lambda:region:account-id:event-source-mappings:event-source-mapping-id
```



Examples:

```
arn:aws:lambda:us-east-1:123456789012:function:ProcessKinesisRecords  
arn:aws:lambda:us-east-1:123456789012:function:ProcessKinesisRecords:your alias  
arn:aws:lambda:us-east-1:123456789012:function:ProcessKinesisRecords:1.0  
arn:aws:lambda:us-east-1:123456789012:event-source-mappings:kinesis-stream-arn
```



## Amazon Machine Learning (Amazon ML)

Syntax:

```
arn:aws:machinelearning:region:account-id:datasource/datasourceID  
arn:aws:machinelearning:region:account-id:mlmodel/mlmodelID  
arn:aws:machinelearning:region:account-id:batchprediction/batchpredictionID  
arn:aws:machinelearning:region:account-id:evaluation/evaluationID
```



Examples:

```
arn:aws:machinelearning:us-east-1:123456789012:datasource/my-datasource-1  
arn:aws:machinelearning:us-east-1:123456789012:mlmodel/my-mlmodel  
arn:aws:machinelearning:us-east-1:123456789012:batchprediction/my-batchprediction  
arn:aws:machinelearning:us-east-1:123456789012:evaluation/my-evaluation
```



## AWS Organizations

Syntax:





```
arn:aws:organizations:region:master-account-id:organization/o-organization-id
arn:aws:organizations:region:master-account-id:root/o-organization-id/r-root-id
arn:aws:organizations:region:master-account-id:account/o-organization-id/account-id
arn:aws:organizations:region:master-account-id:ou/o-organization-id/r-root-id/ou-id
arn:aws:organizations:region:master-account-id:policy/o-organization-id/policy-type
arn:aws:organizations:region:master-account-id:handshake/o-organization-id/handshake-id
```

Example:

```
arn:aws:organizations:us-east-1:123456789012:organization/o-a1b2c3d4e5example
arn:aws:organizations:us-east-1:123456789012:root/o-a1b2c3d4e5/r-f6g7h8i9j0example
arn:aws:organizations:us-east-1:123456789012:account/o-a1b2c3d4e5/123456789012
arn:aws:organizations:us-east-1:123456789012:ou/o-a1b2c3d4e5/ou-1a2b3c-k9l8m7n6o5
arn:aws:organizations:us-east-1:123456789012:policy/o-a1b2c3d4e5/service_control_policy
arn:aws:organizations:us-east-1:123456789012:handshake/o-a1b2c3d4e5/h-u2v4w5x8y0e
```



## AWS Mobile Hub

Syntax:

```
arn:aws:mobilehub:region:account-id:project/projectID
```



Examples:

```
arn:aws:mobilehub:us-east-1:123456789012:project/a01234567-b012345678-123c-d01345
```



## Amazon Polly

Syntax:

```
arn:aws:polly:region:account-id:lexicon/LexiconName
```



Example:

```
arn:aws:polly:us-east-1:123456789012:lexicon/myLexicon
```



## Amazon Redshift

Syntax:

```
arn:aws:redshift:region:account-id:cluster:clustername
arn:aws:redshift:region:account-id:dbuser:clustername/dbusername
```



```
arn:aws:redshift:region:account-id:parametergroup:parametergroupname
arn:aws:redshift:region:account-id:securitygroup:securitygroupname
arn:aws:redshift:region:account-id:snapshot:clustername/snapshotname
arn:aws:redshift:region:account-id:subnetgroup:subnetgroupname
```

### Examples:

```
arn:aws:redshift:us-east-1:123456789012:cluster:my-cluster
arn:aws:redshift:us-east-1:123456789012:my-cluster/my-dbuser-name
arn:aws:redshift:us-east-1:123456789012:parametergroup:my-parameter-group
arn:aws:redshift:us-east-1:123456789012:securitygroup:my-public-group
arn:aws:redshift:us-east-1:123456789012:snapshot:my-cluster/my-snapshot20130807
arn:aws:redshift:us-east-1:123456789012:subnetgroup:my-subnet-10
```



## Amazon Relational Database Service (Amazon RDS)

ARNs are used in Amazon RDS only with tags for DB instances. For more information, see [Tagging a DB Instance](#) in the Amazon Relational Database Service User Guide.

### Syntax:

```
arn:aws:rds:region:account-id:db:db-instance-name
arn:aws:rds:region:account-id:snapshot:snapshot-name
arn:aws:rds:region:account-id:cluster:db-cluster-name
arn:aws:rds:region:account-id:cluster-snapshot:cluster-snapshot-name
arn:aws:rds:region:account-id:og:option-group-name
arn:aws:rds:region:account-id:pg:parameter-group-name
arn:aws:rds:region:account-id:cluster-pg:cluster-parameter-group-name
arn:aws:rds:region:account-id:secgrp:security-group-name
arn:aws:rds:region:account-id:subgrp:subnet-group-name
arn:aws:rds:region:account-id:es:subscription-name
```



### Examples:

```
arn:aws:rds:us-east-1:123456789012:db:mysql-db-instance1
arn:aws:rds:us-east-1:123456789012:snapshot:my-snapshot2
arn:aws:rds:us-east-1:123456789012:cluster:my-cluster1
arn:aws:rds:us-east-1:123456789012:cluster-snapshot:cluster1-snapshot7
arn:aws:rds:us-east-1:123456789012:og:mysql-option-group1
arn:aws:rds:us-east-1:123456789012:pg:mysql-repl-pg1
arn:aws:rds:us-east-1:123456789012:cluster-pg:aurora-pg3
arn:aws:rds:us-east-1:123456789012:secgrp:dev-secgrp2
arn:aws:rds:us-east-1:123456789012:subgrp:prod-subgrp1
arn:aws:rds:us-east-1:123456789012:es:monitor-events2
```



## Amazon Route 53

### Syntax:



```
arn:aws:route53:::hostedzone/zoneid
arn:aws:route53:::change/changeid
```

Note that Amazon Route 53 does not require an account number or region in ARNs.

Examples:



```
arn:aws:route53:::hostedzone/Z148QEXAMPLE8V
arn:aws:route53:::change/C2RDJ5EXAMPLE2
arn:aws:route53:::change/*
```

## Amazon EC2 Systems Manager (SSM)

Syntax:



```
arn:aws:ssm:region:account-id:document/document_name
arn:aws:ssm:region:account-id:parameter/parameter_name
arn:aws:ssm:region:account-id:patchbaseline/baseline_id
arn:aws:ssm:region:account-id:maintenancewindow/window_id
arn:aws:ssm:region:account-id:automation-execution/execution_id
arn:aws:ssm:region:account-id:automation-Activity/activity_name
arn:aws:ssm:region:account-id:automation-definition/definitionName:version
arn:aws:ssm:region:account-id:managed-instance/instance_id
arn:aws:ssm:region:account-id:managed-instance-inventory/instance_id
```

Examples:



```
arn:aws:ssm:us-east-1:123456789012:document/highAvailabilityServerSetup
arn:aws:ssm:us-east-1:123456789012:parameter/myParameterName
arn:aws:ssm:us-east-1:123456789012:patchbaseline/pb-12345678901234567
arn:aws:ssm:us-east-1:123456789012:maintenancewindow/mw-12345678901234567
arn:aws:ssm:us-east-1:123456789012:automation-execution/123456-6789-1a2b3-c4d5-e1
arn:aws:ssm:us-east-1:123456789012:automation-activity/myActivityName
arn:aws:ssm:us-east-1:123456789012:automation-definition/myDefinitionName:1
arn:aws:ssm:us-east-1:123456789012:managed-instance/mi-12345678901234567
arn:aws:ssm:us-east-1:123456789012:managed-instance-inventory/i-12345661
```

## Amazon Simple Notification Service (Amazon SNS)

Syntax:



```
arn:aws:sns:region:account-id:topicname
arn:aws:sns:region:account-id:topicname:subscriptionid
```

Examples:



```
arn:aws:sns:*:123456789012:my_corporate_topic  
arn:aws:sns:us-east-1:123456789012:my_corporate_topic:02034b43-fefa-4e07-a5eb-3be
```

## Amazon Simple Queue Service (Amazon SQS)

Syntax:



```
arn:aws:sqs:region:account-id:queueName
```

Example:



```
arn:aws:sqs:us-east-1:123456789012:queue1
```

## Amazon Simple Storage Service (Amazon S3)

Syntax:



```
arn:aws:s3:::bucket_name  
arn:aws:s3:::bucket_name/key_name
```

### Note

Amazon S3 does not require an account number or region in ARNs. If you specify an ARN for a policy, you can also use a wildcard "\*" character in the relative-ID part of the ARN.

Examples:



```
arn:aws:s3:::my_corporate_bucket  
arn:aws:s3:::my_corporate_bucket/exampleobject.png  
arn:aws:s3:::my_corporate_bucket/*  
arn:aws:s3:::my_corporate_bucket/Development/*
```

For more information, see [Specifying Resources in a Policy](#) in the Amazon Simple Storage Service Developer Guide.

## Amazon Simple Workflow Service (Amazon SWF)

Syntax:



```
arn:aws:swf:region:account-id:/domain/domain_name
```

## Examples:

```
arn:aws:swf:us-east-1:123456789012:/domain/department1
arn:aws:swf:*:123456789012:/domain/*
```



## AWS Step Functions

### Syntax:

```
arn:aws:states:region:account-id:activity:activityName
arn:aws:states:region:account-id:stateMachine:stateMachineName
arn:aws:states:region:account-id:execution:stateMachineName:executionName
```



### Examples:

```
arn:aws:states:us-east-1:123456789012:activity:HelloActivity
arn:aws:states:us-east-1:123456789012:stateMachine:HelloStateMachine
arn:aws:states:us-east-1:123456789012:execution:HelloStateMachine:HelloStateMach
```



## AWS Storage Gateway

### Syntax:

```
arn:aws:storagegateway:region:account-id:gateway/gateway-id
arn:aws:storagegateway:region:account-id:gateway/gateway-id/volume/volume-id
arn:aws:storagegateway:region:account-id:tape/tapebarcode
arn:aws:storagegateway:region:account-id:gateway/gateway-id/target/iSCSItarget
arn:aws:storagegateway:region:account-id:gateway/gateway-id/device/vtldevice
```



### Examples:

```
arn:aws:storagegateway:us-east-1:123456789012:gateway/sgw-12A3456B
arn:aws:storagegateway:us-east-1:123456789012:gateway/sgw-12A3456B/volume/vol-112
arn:aws:storagegateway:us-east-1:123456789012:tape/AMZNC8A26D
arn:aws:storagegateway:us-east-1:123456789012:gateway/sgw-12A3456B/target/iqn.199
arn:aws:storagegateway:us-east-1:123456789012:gateway/sgw-12A3456B/device/AMZN_SC
```



### Note

For each AWS Storage Gateway resource, you can specify a wild card (\*).

## AWS Trusted Advisor

### Syntax:

```
arn:aws:trustedadvisor:*:account-id:checks/categorycode/checkid
```



### Example:

```
arn:aws:trustedadvisor*:123456789012:checks/fault_tolerance/BueAdJ7NrP
```



## AWS WAF

### Syntax:

```
arn:aws:waf:::account-id:resource-type/resource-id
```



### Examples:

```
arn:aws:waf::123456789012:rule/41b5b052-1e4a-426b-8149-3595be6342c2
arn:aws:waf::123456789012:webacl/3bffd3ed-fa2e-445e-869f-a6a7cf153fd3
arn:aws:waf::123456789012:ipset/3f74bd8c-f046-4970-ala7-41aa52e05480
arn:aws:waf::123456789012:bytematchset/d131bc0b-57be-4536-af1d-4894fd28acc4
arn:aws:waf::123456789012:sqliinjectionset/2be79d6f-2f41-4c9b-8192-d719676873f0
arn:aws:waf::123456789012:changetoken/03ba2197-fc98-4ac0-a67d-5b839762b16b
```



## Paths in ARNs

Some services let you specify a path for the resource name. For example, in Amazon S3, the resource identifier is an object name that can include slashes (/) to form a path. Similarly, IAM user names and group names can include paths.

In some circumstances, paths can include a wildcard character, namely an asterisk (\*). For example, if you are writing an IAM policy and in the `Resource` element you want to specify all IAM users that have the path `product_1234`, you can use a wildcard like this:

```
arn:aws:iam::123456789012:user/Development/product_1234/*
```



Similarly, in the `Resource` element of an IAM policy, at the end of the ARN you can specify `user/*` to mean all users or `group/*` to mean all groups, as in the following examples:

```
"Resource": "arn:aws:iam::123456789012:user/*"  
"Resource": "arn:aws:iam::123456789012:group/*"
```



You cannot use a wildcard to specify all users in the `Principal` element in a resource-based policy or a role trust policy. Groups are not supported as principals in any policy.

The following example shows ARNs for an Amazon S3 bucket in which the resource name includes a path:

```
arn:aws:s3:::my_corporate_bucket/*  
arn:aws:s3:::my_corporate_bucket/Development/*
```



You cannot use a wildcard in the portion of the ARN that specifies the resource type, such as the term `user` in an IAM ARN.

The following is not allowed:

```
arn:aws:iam::123456789012:u*
```

## AWS Service Namespaces

When you create AWS IAM policies or work with Amazon Resource Names (ARNs), you identify an AWS service using a namespace. For example, the namespace for Amazon S3 is `s3`, and the namespace for Amazon EC2 is `ec2`. You use namespaces when identifying actions and resources.

The following example shows an IAM policy where the value of the `Action` elements and the values in the `Resource` and `Condition` elements use namespaces to identify the services for the actions and resources.

```
{  
  "Version": "2012-10-17",  
  "Statement": [  
    {  
      "Effect": "Allow",  
      "Action": "ec2:*",  
      "Resource": [  
        "arn:aws:ec2:us-west-2:123456789012:customer-gateway/*",  
        "arn:aws:ec2:us-west-2:123456789012:dhcp-options/*",  
        "arn:aws:ec2:us-west-2::image/*",  
        "arn:aws:ec2:us-west-2:123456789012:instance/*",  
        "arn:aws:iam::123456789012:instance-profile/*",  
      ]  
    }  
  ]  
}
```



```
    "arn:aws:ec2:us-west-2:123456789012:internet-gateway/*",
    "arn:aws:ec2:us-west-2:123456789012:key-pair/*",
    "arn:aws:ec2:us-west-2:123456789012:network-acl/*",
    "arn:aws:ec2:us-west-2:123456789012:network-interface/*",
    "arn:aws:ec2:us-west-2:123456789012:placement-group/*",
    "arn:aws:ec2:us-west-2:123456789012:route-table/*",
    "arn:aws:ec2:us-west-2:123456789012:security-group/*",
    "arn:aws:ec2:us-west-2::snapshot/*",
    "arn:aws:ec2:us-west-2:123456789012:subnet/*",
    "arn:aws:ec2:us-west-2:123456789012:volume/*",
    "arn:aws:ec2:us-west-2:123456789012:vpc/*",
    "arn:aws:ec2:us-west-2:123456789012:vpc-peering-connection/*"
  ],
  {
    "Effect": "Allow",
    "Action": "s3:*",
    "Resource": "arn:aws:s3:::example_bucket/marketing/*"
  },
  {
    "Effect": "Allow",
    "Action": "s3:ListBucket*",
    "Resource": "arn:aws:s3:::example_bucket",
    "Condition": {"StringLike": {"s3:prefix": "marketing/*"}}
  }
]
```

The following table contains the namespace for each AWS service.

Service	Namespace
API Gateway	apigateway
Amazon AppStream	appstream
AWS Artifact	artifact
Auto Scaling	autoscaling
AWS Billing and Cost Management	aws-portal
AWS Certificate Manager (ACM)	acm
AWS CloudFormation	cloudformation
Amazon CloudFront	cloudfront
AWS CloudHSM	cloudhsm
Amazon CloudSearch	cloudsearch
AWS CloudTrail	cloudtrail
Amazon CloudWatch	cloudwatch
Amazon CloudWatch Events	events



Amazon CloudWatch Logs	logs
AWS CodeBuild	codebuild
AWS CodeCommit	codecommit
AWS CodeDeploy	codedeploy
AWS CodePipeline	codepipeline
AWS CodeStar	codestar
Amazon Cognito Your User Pools	cognito-idp
Amazon Cognito Federated Identities	cognito-identity
Amazon Cognito Sync	cognito-sync
AWS Config	config
AWS Data Pipeline	datapipeline
AWS Database Migration Service (AWS DMS)	dms
AWS Device Farm	devicefarm
AWS Direct Connect	directconnect
AWS Directory Service	ds
Amazon DynamoDB	dynamodb
Amazon Elastic Compute Cloud (Amazon EC2)	ec2
Amazon EC2 Container Registry (Amazon ECR)	ecr
Amazon EC2 Container Service (Amazon ECS)	ecs
Amazon EC2 Systems Manager (SSM)	ssm
AWS Elastic Beanstalk	elasticbeanstalk
Amazon Elastic File System (Amazon EFS)	elasticfilesystem
Elastic Load Balancing	elasticloadbalancing
Amazon EMR	elasticmapreduce
Amazon Elastic Transcoder	elastictranscoder
Amazon ElastiCache	elasticache
Amazon Elasticsearch Service (Amazon ES)	es
Amazon GameLift	gamelift
Amazon Glacier	glacier

AWS Health / Personal Health Dashboard	health
AWS Identity and Access Management (IAM)	iam
AWS Import/Export	importexport
Amazon Inspector	inspector
AWS IoT	iot
AWS Key Management Service (AWS KMS)	kms
Amazon Kinesis Analytics	kinesisanalytics
Amazon Kinesis Firehose	firehose
Amazon Kinesis Streams	kinesis
AWS Lambda	lambda
Amazon Lightsail	lightsail
Amazon Machine Learning	machinelearning
AWS Marketplace	aws-marketplace
AWS Marketplace Management Portal	aws-marketplace-management
Amazon Mobile Analytics	mobileanalytics
AWS Mobile Hub	mobilehub
AWS OpsWorks	opsworks
AWS OpsWorks for Chef Automate	opsworks-cm
AWS Organizations	organizations
Amazon Polly	polly
Amazon Redshift	redshift
Amazon Relational Database Service (Amazon RDS)	rds
Amazon Route 53	route53
Amazon Route 53 Domains	route53domains
AWS Security Token Service (AWS STS)	sts
AWS Service Catalog	servicecatalog
Amazon Simple Email Service (Amazon SES)	ses
Amazon Simple Notification Service (Amazon SNS)	sns
Amazon Simple Queue Service (Amazon SQS)	sqs

Amazon Simple Storage Service (Amazon S3)	s3
Amazon Simple Workflow Service (Amazon SWF)	swf
Amazon SimpleDB	sdb
AWS Step Functions	states
AWS Storage Gateway	storagegateway
AWS Support	support
AWS Trusted Advisor	trustedadvisor
Amazon Virtual Private Cloud (Amazon VPC)	ec2
AWS WAF	waf
Amazon WorkDocs	workdocs
Amazon WorkMail	workmail
Amazon WorkSpaces	workspaces

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