

# **Create or modify access policy statements**ONTAP 9

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# **Table of Contents**

Create or modify access policy statements	 	 	 	1
About bucket and object store server policies	 	 	 	1
Modify a bucket policy	 	 	 	1
Create or modify an object store server policy	 	 	 	3

# Create or modify access policy statements

## About bucket and object store server policies

User and group access to S3 resources is controlled by bucket and object store server policies. If you have a small number of users or groups, controlling access at the bucket level is probably sufficient, but if you have many users and groups, it is easier to control access at the object store server level.

### Modify a bucket policy

You can add access rules to the default bucket policy. The scope of its access control is the containing bucket, so it is most appropriate when there is a single bucket.

#### Before you begin

An S3-enabled SVM containing an S3 server and a bucket must already exist.

You must have already created users or groups before granting permissions.

#### About this task

You can add new statements for new users and groups, or you can modify the attributes of existing statements. For more options, see the vserver object-store-server bucket policy man pages.

User and group permissions can be granted when the bucket is created or as needed later. You can also modify the bucket capacity and QoS policy group assignment.

Unresolved directive in s3-config/create-modify-bucket-policy-task.adoc - include::\_include/s3-aws-condition.adoc[]

#### CLI

#### **Steps**

1. Add a statement to a bucket policy:

vserver object-store-server bucket policy add-statement -vserver svm\_name
-bucket bucket\_name -effect {allow|deny} -action object\_store\_actions
-principal user\_and\_group\_names -resource object\_store\_resources [-sid
text] [-index integer]

The following parameters define access permissions:

-effect	The statement may allow or deny access
-action	You can specify * to mean all actions, or a list of one or more of the following: GetObject, PutObject, DeleteObject, ListBucket, GetBucketAcl, GetObjectAcl, ListBucketMultipartUploads, and ListMultipartUploadParts.
-principal	<ul> <li>A list of one or more S3 users or groups.</li> <li>A maximum of 10 users or groups can be specified.</li> <li>If an S3 group is specified, it must be in the form group/group_name.</li> <li>* can be specified to mean public access; that is, access without an access-key and secret-key.</li> <li>If no principal is specified, all S3 users in the SVM are granted access.</li> </ul>
-resource	The bucket and any object it contains. The wildcard characters * and ? can be used to form a regular expression for specifying a resource.

You can optionally specify a text string as comment with the -sid option.

#### **Examples**

The following example creates an object store server bucket policy statement for the SVM svm1.example.com and bucket1 which specifies allowed access to a readme folder for object store server user user1.

cluster1::> vserver object-store-server bucket policy statement create
-vserver svm1.example.com -bucket bucket1 -effect allow -action
GetObject, PutObject, DeleteObject, ListBucket -principal user1 -resource
bucket1/readme/\* -sid "fullAccessToReadmeForUser1"

The following example creates an object store server bucket policy statement for the SVM svm1.example.com and bucket1 which specifies allowed access to all objects for object store server group group1.

cluster1::> vserver object-store-server bucket policy statement create
-vserver svm1.example.com -bucket bucket1 -effect allow -action
GetObject, PutObject, DeleteObject, ListBucket -principal group/group1
-resource bucket1/\* -sid "fullAccessForGroup1"

#### **System Manager**

#### **Steps**

- 1. Edit the bucket: click **Storage > Buckets**, click the desired bucket, and then click **Edit**. When adding or modifying permissions, you can specify the following parameters:
  - Principal: the user or group to whom access is granted.
  - Effect: allows or denies access to a user or group.
  - · Actions: permissible actions in the bucket for a given user or group.
  - Resources: paths and names of objects within the bucket for which access is granted or denied.

The defaults **bucketname** and **bucketname**/\* grant access to all objects in the bucket. You can also grant access to single objects; for example, **bucketname**/\*\_readme.txt.

 Conditions (optional): expressions that are evaluated when access is attempted. For example, you can specify a list of IP addresses for which access will be allowed or denied.

### Create or modify an object store server policy

You can create policies that can apply to one or more buckets in an object store. Object store server policies can be attached to groups of users, thereby simplifying the management of resource access across multiple buckets.

#### Before you begin

An S3-enabled SVM containing an S3 server and a bucket must already exist.

#### About this task

You can enable access policies at the SVM level by specifying a default or custom policy in an object storage server group. The policies do not take effect until they are specified in the group definition.



When you use object storage server policies, you specify principals (that is, users and groups) in the group definition, not in the policy itself.

There are three read-only default policies for access to ONTAP S3 resources:

- FullAccess
- NoS3Access
- ReadOnlyAccess

You can also create new custom policies, then add new statements for new users and groups, or you can modify the attributes of existing statements. For more options, see the vserver object-store-server policy command reference.

Unresolved directive in s3-config/create-modifyi-object-store-server-policy-task.adoc - include::_include/s3- aws-condition.adoc[]	

#### CLI

#### **Steps**

1. Create an object storage server policy:

vserver object-store-server policy create -vserver svm\_name -policy
policy name [-comment text]

2. Create a statement for the policy:

vserver object-store-server policy statement create -vserver svm\_name
-policy policy\_name -effect {allow|deny} -action object\_store\_actions
-resource object store resources [-sid text]

The following parameters define access permissions:

-effect	The statement may allow or deny access
-action	You can specify * to mean all actions, or a list of one or more of the following: GetObject, PutObject, DeleteObject, ListBucket, GetBucketAcl, GetObjectAcl, ListAllMyBuckets, ListBucketMultipartUploads, and ListMultipartUploadParts.
-resource	The bucket and any object it contains. The wildcard characters * and ? can be used to form a regular expression for specifying a resource.

You can optionally specify a text string as comment with the -sid option.

By default, new statements are added to the end of the list of statements, which are processed in order. When you add or modify statements later, you have the option to modify the statement's -index setting to change the processing order.

#### **System Manager**

#### Steps

- 1. Edit the storage VM: click **Storage > storage VMs**, click the storage VM, click **Settings** and then click **^** under S3.
- 2. Add a user: click **Policies**, then click **Add**.
  - a. Enter a policy name and select from a list of groups.
  - b. Select an existing default policy or add a new one.

When adding or modifying a group policy, you can specify the following parameters:

- Group: the groups to whom access is granted.
- Effect: allows or denies access to one or more groups.

- Actions: permissible actions in one or more buckets for a given group.
- Resources: paths and names of objects within one or more buckets for which access is granted or denied. For example:
  - \* grants access to all buckets in the storage VM.
  - bucketname and bucketname/\* grant access to all objects in a specific bucket.
  - bucketname/readme.txt grants access to an object in a specific bucket.
- c. If desired, add statements to existing policies.

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