



Create or modify access policy statements

ONTAP 9

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Create or modify access policy statements

Learn about ONTAP S3 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.

Add access rules to the default ONTAP S3 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 storage VM 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. Learn more about `vserver object-store-server bucket policy` in the [ONTAP command reference](#).

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.

Beginning with ONTAP 9.9.1, if you plan to support AWS client object tagging functionality with the ONTAP S3 server, the actions `GetObjectTagging`, `PutObjectTagging`, and `DeleteObjectTagging` need to be allowed using the bucket or group policies.

The procedure you follow depends on the interface that you use—System Manager or the CLI:

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.

 Beginning with ONTAP 9.14.1, you can specify variables for the bucket policy in the **Resources** field. These variables are placeholders that are replaced with contextual values when the policy is evaluated. For example, If `${aws:username}` is specified as a variable for a policy, then this variable is replaced with the request context username, and the policy action can be performed as configured for that user.

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:

<code>-effect</code>	The statement may allow or deny access
<code>-action</code>	You can specify <code>*</code> to mean all actions, or a list of one or more of the following: <code>GetObject</code> , <code>PutObject</code> , <code>DeleteObject</code> , <code>ListBucket</code> , <code>GetBucketAcl</code> , <code>GetObjectAcl</code> , <code>ListBucketMultipartUploads</code> , and <code>ListMultipartUploadParts</code> .

-principal	<p>A list of one or more S3 users or groups.</p> <ul style="list-style-type: none"> • A maximum of 10 users or groups can be specified. • If an S3 group is specified, it must be in the form group/group_name. • * can be specified to mean public access; that is, access without an access-key and secret-key. • If no principal is specified, all S3 users in the storage VM are granted access.
-resource	<p>The bucket and any object it contains. The wildcard characters * and ? can be used to form a regular expression for specifying a resource. For a resource, you can specify variables in a policy. These are policy variables are placeholders that are replaced with the contextual values when the policy is evaluated.</p>

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 storage VM 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 storage VM 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"
```

Beginning with ONTAP 9.14.1, you can specify variables for a bucket policy. The following example creates a server bucket policy statement for the storage VM svm1 and bucket1, and specifies \${aws:username} as a variable for a policy resource. When the policy is evaluated, the policy variable is replaced with the request context username, and the policy action can be performed as configured for that user. For example, when the following policy statement is evaluated, \${aws:username} is replaced with the user performing the S3 operation. If a user user1 performs the operation, that user is granted access to bucket1 as bucket1/user1/*.

```
cluster1::> object-store-server bucket policy statement create -vserver
svm1 -bucket bucket1 -effect allow -action * -principal - -resource
bucket1,bucket1/${aws:username}/*##
```

Create or modify an ONTAP S3 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. Learn more about `vserver object-store-server policy` in the [ONTAP command reference](#).

Beginning with ONTAP 9.9.1, if you plan to support AWS client object tagging functionality with the ONTAP S3 server, the actions `GetObjectTagging`, `PutObjectTagging`, and `DeleteObjectTagging` need to be allowed using the bucket or group policies.

The procedure you follow depends on the interface that you use—System Manager or the CLI:

System Manager

Use System Manager to create or modify an object store server policy

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.

CLI

Use the CLI to create or modify an object store server policy

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:

<code>-effect</code>	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.

Learn more about the commands described in this procedure in the [ONTAP command reference](#).

Configure external directory services for ONTAP S3 access

Beginning with ONTAP 9.14.1, services for external directories have been integrated with ONTAP S3 object storage. This integration simplifies user and access management through external directory services.

You can provide user groups belonging to an external directory service with access to your ONTAP object storage environment. Lightweight Directory Access Protocol (LDAP) is an interface for communicating with directory services, such as Active Directory, that provide a database and services for identity and access management (IAM). To provide access, you need to configure LDAP groups in your ONTAP S3 environment. After you have configured access, the group members have permissions to ONTAP S3 buckets. For information about LDAP, see [Learn about using LDAP name services on ONTAP NFS SVMs](#).

You can also configure Active Directory user groups for fast bind mode, so that user credentials can be validated and third-party and open-source S3 applications can be authenticated over LDAP connections.

Before you begin

Ensure the following before configuring LDAP groups and enabling the fast bind mode for group access:

1. An S3-enabled storage VM containing an S3 server has been created. See [Create an SVM for S3](#).
2. A bucket has been created in that storage VM. See [Create a bucket](#).
3. DNS is configured on the storage VM. See [Configure DNS services](#).
4. A self-signed root certification authority (CA) certificate of the LDAP server is installed on the storage VM. See [Install self-signed root CA certificates on the SVM](#).
5. An LDAP client is configured with TLS enabled on the SVM. See [Create LDAP client configurations for ONTAP NFS access](#) and [Associate LDAP client configurations with ONTAP NFS SVMs](#) for information.

Configure S3 access for LDAP

1. Specify LDAP as the *name service database* of the SVM for the group and password to LDAP:

```
ns-switch modify -vserver <vserver-name> -database group -sources
files,ldap
ns-switch modify -vserver <vserver-name> -database passwd -sources
files,ldap
```

Learn more about the vserver services name-service ns-switch modify command in the ONTAP command reference.

2. Create an object store bucket policy statement with the `principal` set to the LDAP group to which you want to grant access:

```
object-store-server bucket policy statement create -bucket <bucket-name>
-effect allow -principal nasgroup/<ldap-group-name> -resource <bucket-
name>, <bucket-name>/*
```

Example: The following example creates a bucket policy statement for `buck1`. The policy allows access for the LDAP group `group1` to the resource (bucket and its objects) `buck1`.

```
vserver object-store-server bucket policy add-statement -bucket buck1
-effect allow -action
GetObject,PutObject,DeleteObject,ListBucket,GetBucketAcl,GetObjectAcl, Li
stBucketMultipartUploads,ListMultipartUploadParts,
ListBucketVersions,GetObjectTagging,PutObjectTagging,DeleteObjectTagging
,GetBucketVersioning,PutBucketVersioning -principal nasgroup/group1
-resource buck1, buck1/*
```

3. Verify that a user from the LDAP group `group1` is able to perform S3 operations from the S3 client.

Use LDAP fast bind mode for authentication

1. Specify LDAP as the *name service database* of the SVM for the group and password to LDAP:

```
ns-switch modify -vserver <vserver-name> -database group -sources
files,ldap
ns-switch modify -vserver <vserver-name> -database passwd -sources
files,ldap
```

Learn more about the vserver services name-service ns-switch modify command in the ONTAP command reference.

2. Ensure that an LDAP user accessing the S3 bucket has permissions defined in the bucket-policies. For more information, see [Modify a bucket policy](#).
3. Verify that a user from the LDAP group can perform the following operations:

- a. Configure the access key on the S3 client in this format:

"NTAPFASTBIND" + base64-encode (user-name:password)

Example: "NTAPFASTBIND" + base64-encode(ldapuser:password), which results in
NTAPFASTBINDbGRhcHVzZXI6cGFzc3dvcmQ=



The S3 client might prompt for a secret key. In the absence of a secret key, any password of at least 16 characters can be entered.

- b. Perform basic S3 operations from the S3 client for which the user has permissions.

Base64 credentials

ONTAP S3's default configuration excludes HTTP and exclusively uses HTTPS and a Transport Layer Security (TLS) connection. ONTAP can generate self-signed certificates, but the recommended best practice is to use certificates from a third-party certificate authority (CA). When you use CA certificates, you create a trusted relationship between client applications and the ONTAP object store server.

Be aware that credentials encoded using Base64 are easily decoded. Using HTTPS will prevent encoded credentials from being captured by man-in-the-middle packet sniffers.

Do not use LDAP fast-bind mode for authentication when creating pre-signed URLs. Authentication is based exclusively on the Base64 access key that is included in the pre-signed URL. The user name and password will be revealed to anyone decoding the Base64 access key.

Authentication method is nsswitch and LDAP is enabled example

```
$curl -siku <user>:<user_password> -X POST  
https://<LIF_IP_Address>/api/protocols/s3/services/<SVM_UUID>/users -d  
{ "comment": "<S3_user_name>", "name": <user>, "key_time_to_live": "PT6H3M" }
```



Direct the API to the cluster management LIF, not to the SVM's data LIF. If you want to allow users to generate their own keys, you must add HTTP permissions to their role to use curl. This permission is in addition to S3 API permissions.

Configure S3 access for Active Directory or SMB servers

If the nasgroup specified in the bucket policy statement or the users who are part of the nasgroup do not have UID and GID set, lookups fail when these attributes are not found. Active Directory uses SID, not UID. If SID entries cannot be mapped to UID, the necessary data needs to be brought to ONTAP.

To do so, use [vserver active-directory create](#) so that the SVM can authenticate with Active Directory and get the necessary user and group information.

Alternatively, use [vserver cifs create](#) to create a SMB server in an Active Directory domain.

If you have different domain names for name servers and object stores, you might experience lookup failures. To avoid lookup failures, NetApp recommends using trusted domains for resource authorization in UPN format:

nasgroup/group@trusted_domain.com

Trusted domains are those that have been added to the SMB server trusted domains list. Learn how to [add, remove, and modify preferred trusted domains](#) in the SMB server list.

Generate keys when the authentication method is domain and trusted domains are configured in Active Directory

Use the `s3/services/<svm_uuid>/users` endpoint with users specified in UPN format. Example:

```
$curl -siku FQDN\\user:<user_password> -X POST
https://<LIF_IP_Address>/api/protocols/s3/services/<SVM_UUID>/users -d
{"comment": "<S3_user_name>",
"name": <user@fqdn>, "key_time_to_live": "PT6H3M"}
```



Direct the API to the cluster management LIF, not to the SVM's data LIF. If you want to allow users to generate their own keys, you must add HTTP permissions to their role to use curl. This permission is in addition to S3 API permissions.

Generate keys when the authentication method is domain and there are no trusted domains

This action is possible when LDAP is disabled or when non-POSIX users have not configured UID and GID. Example:

```
$curl -siku FQDN\\user:<user_password> -X POST
https://<LIF_IP_Address>/api/protocols/s3/services/<SVM_UUID>/users -d
{"comment": "<S3_user_name>",
"name": <user[@fqdn]>, "key_time_to_live": "PT6H3M"}
```



Direct the API to the cluster management LIF, not to the SVM's data LIF. If you want to allow users to generate their own keys, you must add HTTP permissions to their role to use curl. This permission is in addition to S3 API permissions. You only need to add the optional domain value (@fqdn) to a user name if there are no trusted domains.

Enable LDAP or domain users to generate their own ONTAP S3 access keys

Beginning with ONTAP 9.14.1, as an ONTAP administrator, you can create custom roles and grant them to local or domain groups or Lightweight Directory Access Protocol (LDAP) groups, so that the users belonging to those groups can generate their own access and secret keys for S3 client access.

You have to perform a few configuration steps on your storage VM so that the custom role can be created and assigned to the user that invokes the API for access key generation.



If LDAP is disabled, you can [configure external directory services for ONTAP S3 access](#) to allow users to generate access keys.

Before you begin

Ensure the following:

1. An S3-enabled storage VM containing an S3 server has been created. See [Create an SVM for S3](#).
2. A bucket has been created in that storage VM. See [Create a bucket](#).
3. DNS is configured on the storage VM. See [Configure DNS services](#).
4. A self-signed root certification authority (CA) certificate of the LDAP server is installed on the storage VM. See [Install self-signed root CA certificates on the SVM](#).
5. An LDAP client is configured with TLS enabled on the storage VM. See [Create LDAP client configurations for ONTAP NFS access](#).
6. Associate the client configuration with the Vserver. See [Associate LDAP client configurations with ONTAP NFS SVMs](#). Learn more about `vserver services name-service ldap create` in the [ONTAP command reference](#).
7. If you are using a data storage VM, create a management network interface (LIF) and on the VM, and also a service policy for the LIF. Learn more about `network interface create` and `network interface service-policy create` in the [ONTAP command reference](#).

Configure users for access key generation

Example 1. Steps

LDAP users

1. Specify LDAP as the *name service database* of the storage VM for the group and password to LDAP:

```
ns-switch modify -vserver <vserver-name> -database group -sources
files,ldap
ns-switch modify -vserver <vserver-name> -database passwd -sources
files,ldap
```

Learn more about vserver services name-service ns-switch modify in the [ONTAP command reference](#).

2. Create a custom role with access to S3 user REST API endpoint:

```
security login rest-role create -vserver <vserver-name> -role <custom-role-name> -api "/api/protocols/s3/services/*/users" -access <access-type>
In this example, the s3-role role is generated for users on the storage VM svm-1, to which all access rights, read, create, and update are granted.
```

```
security login rest-role create -vserver svm-1 -role s3role -api
"/api/protocols/s3/services/*/users" -access all
```

Learn more about security login rest-role create in the [ONTAP command reference](#).

3. Create an LDAP user group with the security login command and add the new custom role for accessing the S3 user REST API endpoint. Learn more about security login create in the [ONTAP command reference](#).

```
security login create -user-or-group-name <ldap-group-name>
-application http -authentication-method nsswitch -role <custom-role-name> -is-ns-switch-group yes
```

In this example, the LDAP group ldap-group-1 is created in svm-1, and the custom role s3role is added to it for accessing the API endpoint, along with enabling LDAP access in the fast bind mode.

```
security login create -user-or-group-name ldap-group-1 -application
http -authentication-method nsswitch -role s3role -is-ns-switch
-group yes -second-authentication-method none -vserver svm-1 -is
-ldap-fastbind yes
```

For more information, see [Use LDAP fast bind for nsswitch authentication for ONTAP NFS SVMs](#).

Learn more about security login create in the [ONTAP command reference](#).

Adding the custom role to the LDAP group allows users in that group a limited access to the ONTAP /api/protocols/s3/services/{svm.uuid}/users endpoint. By invoking the API, the LDAP group users can generate their own access and secret keys to access the S3 client. They can generate the keys for only themselves and not for other users.

Domain users

1. Create a custom role with access to S3 user REST API endpoint:

```
security login rest-role create -vserver <vserver-name> -role <custom-role-name> -api "/api/protocols/s3/services/*/*users" -access <access-type>
```

In this example, the s3-role role is generated for users on the storage VM svm-1, to which all access rights, read, create, and update are granted.

```
security login rest-role create -vserver svm-1 -role s3role -api "/api/protocols/s3/services/*/*users" -access all
```

Learn more about `security login rest-role create` in the [ONTAP command reference](#).

1. Create a domain user group with the `security login create` command and add the new custom role for accessing the S3 user REST API endpoint. Learn more about `security login create` in the [ONTAP command reference](#).

```
security login create -vserver <vserver-name> -user-or-group-name domain\<group-name> -application http -authentication-method domain -role <custom-role-name>
```

In this example, the domain group domain\group1 is created in svm-1, and the custom role s3role is added to it for accessing the API endpoint.

```
security login create -user-or-group-name domain\group1 -application http -authentication-method domain -role s3role -vserver svm-1
```

Learn more about `security login create` in the [ONTAP command reference](#).

Adding the custom role to the domain group allows users in that group a limited access to the ONTAP /api/protocols/s3/services/{svm.uuid}/users endpoint. By invoking the API, the domain group users can generate their own access and secret keys to access the S3 client. They can generate the keys for only themselves and not for other users.

As an S3 or LDAP user, generate your own access keys

Beginning with ONTAP 9.14.1, you can generate your own access and secret keys for accessing S3 clients, if

your administrator has granted you the role to generate your own keys. You can generate keys for only yourself by using the following ONTAP REST API endpoint.

Create an S3 user and generate keys

This REST API call uses the following method and endpoint. For more information on this endpoint, see the reference [API documentation](#).

HTTP method	Path
POST	/api/protocols/s3/services/{svm.uuid}/users

For domain users, use the following format for the S3 user name: `user@fqdn`, where `fqdn` is the fully qualified domain name of the domain.

Curl example

```
curl
--request POST \
--location "https://$FQDN_IP /api/protocols/s3/services/{svm.uuid}/users "
\
--include \
--header "Accept: */*" \
--header "Authorization: Basic $BASIC_AUTH"
--data '{"name":"user1@example.com"}'
```

JSON output example

```
{
  "records": [
    {
      "access_key": "4KX07KF7ML8YNWY01JWG",
      "_links": {
        "next": {
          "href": "/api/resourcelink"
        },
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "user1@example.com",
      "secret_key": "<secret_key_value>"
    }
  ],
  "num_records": "1"
}
```

Regenerate keys for an S3 user

If an S3 user already exists, you can regenerate their access and secret keys. This REST API call uses the

following method and endpoint.

HTTP method	Path
PATCH	/api/protocols/s3/services/{svm.uuid}/users/{name}

Curl example

```
curl
--request PATCH \
--location "https://$FQDN_IP
/api/protocols/s3/services/{svm.uuid}/users/{name} " \
--include \
--header "Authorization: Basic $BASIC_AUTH" \
--data '{"regenerate_keys":"True"}'
```

JSON output example

```
{
  "records": [
    {
      "access_key": "DX12U609DMRVD8U30Z1M",
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "user1@example.com",
      "secret_key": "<secret_key_value>"
    }
  ],
  "num_records": "1"
}
```

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