



Configure S3 access to an SVM

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Configure S3 access to an SVM

Create an SVM for ONTAP S3

Although S3 can coexist with other protocols in an SVM, you might want to create a new SVM to isolate the namespace and workload.

About this task

If you are only providing S3 object storage from an SVM, the S3 server does not require any DNS configuration. However, you might want to configure DNS on the SVM if other protocols are used.

When you configure S3 access to a new storage VM using System Manager, you are prompted to enter certificate and networking information, and the storage VM and S3 object storage server are created in a single operation.

Example 1. Steps

System Manager

You should be prepared to enter the S3 server name as a Fully Qualified Domain Name (FQDN), which clients will use for S3 access. The S3 server FQDN must not begin with a bucket name.

You should be prepared to enter IP addresses for interface role Data.

If you are using an external-CA signed certificate, you will be prompted to enter it during this procedure; you also have the option to use a system-generated certificate.

1. Enable S3 on a storage VM.

- a. Add a new storage VM: Click **Storage > Storage VMs**, then click **Add**.

If this is a new system with no existing storage VMs: Click **Dashboard > Configure Protocols**.

If you are adding an S3 server to an existing storage VM: Click **Storage > Storage VMs**, select a storage VM, click **Settings**, and then click  under **S3**.

- b. Click **Enable S3**, then enter the S3 Server Name.

- c. Select the certificate type.

Whether you select system-generated certificate or one of your own, it will be required for client access.

- d. Enter the network interfaces.

2. If you selected the system-generated certificate, you see the certificate information when the new storage VM creation is confirmed. Click **Download** and save it for client access.

- The secret key will not be displayed again.

- If you need the certificate information again: Click **Storage > Storage VMs**, select the storage VM, and click **Settings**.

CLI

1. Verify that S3 is licensed on your cluster:

```
system license show -package s3
```

If it is not, contact your sales representative.

2. Create an SVM:

```
vserver create -vserver <svm_name> -subtype default -rootvolume
<root_volume_name> -aggregate <aggregate_name> -rootvolume-security
-style unix -language C.UTF-8 -data-services <data-s3-server>
-ipspace <ipspace_name>
```

- Use the UNIX setting for the **-rootvolume-security-style** option.

- Use the default C.UTF-8 -language option.
- The ipspace setting is optional.

3. Verify the configuration and status of the newly created SVM:

```
vserver show -vserver <svm_name>
```

The Vserver Operational State field must display the running state. If it displays the initializing state, it means that some intermediate operation such as root volume creation failed, and you must delete the SVM and re-create it.

Examples

The following command creates an SVM for data access in the IPspace ipspaceA:

```
cluster-1::> vserver create -vserver svml.example.com -rootvolume
root_svml -aggregate aggr1 -rootvolume-security-style unix -language
C.UTF-8 -data-services data-s3-server -ipspace ipspaceA

[Job 2059] Job succeeded:
Vserver creation completed
```

The following command shows that an SVM was created with a root volume of 1 GB, and it was started automatically and is in running state. The root volume has a default export policy that does not include any rules, so the root volume is not exported upon creation. By default, the vsadmin user account is created and is in the locked state. The vsadmin role is assigned to the default vsadmin user account.

```
cluster-1::> vserver show -vserver svm1.example.com
                           Vserver: svm1.example.com
                           Vserver Type: data
                           Vserver Subtype: default
                           Vserver UUID: b8375669-19b0-11e5-b9d1-
00a0983d9736
                           Root Volume: root_svm1
                           Aggregate: aggr1
                           NIS Domain: -
                           Root Volume Security Style: unix
                           LDAP Client: -
                           Default Volume Language Code: C.UTF-8
                           Snapshot Policy: default
                           Comment:
                           Quota Policy: default
                           List of Aggregates Assigned: -
                           Limit on Maximum Number of Volumes allowed: unlimited
                           Vserver Admin State: running
                           Vserver Operational State: running
                           Vserver Operational State Stopped Reason: -
                           Allowed Protocols: nfs, cifs
                           Disallowed Protocols: -
                           QoS Policy Group: -
                           Config Lock: false
                           IPspace Name: ipspaceA
```

Create and install a CA certificate on an ONTAP S3-enabled SVM

S3 clients require a Certificate Authority (CA) certificate to send HTTPS traffic to the S3-enabled SVM. CA certificates creates a trusted relationship between client applications and the ONTAP object store server. You should install a CA certificate on ONTAP before using it as an object store accessible to remote clients.

About this task

Although it is possible to configure an S3 server to use HTTP only, and although it is possible to configure clients without a CA certificate requirement, it is a best practice to secure HTTPS traffic to ONTAP S3 servers with a CA certificate.

A CA certificate is not necessary for a local tiering use case, where IP traffic is going over cluster LIFs only.

The instructions in this procedure will create and install an ONTAP self-signed certificate. Although ONTAP can generate self-signed certificates, using signed certificates from a third-party certificate authority is the recommended best practice.; see the administrator authentication documentation for more information.

Administrator authentication and RBAC

Learn more about `security certificate` and additional configuration options in the [ONTAP command reference](#).

Steps

1. Create a self-signed digital certificate:

```
security certificate create -vserver svm_name -type root-ca -common-name  
ca_cert_name
```

The `-type root-ca` option creates and installs a self-signed digital certificate to sign other certificates by acting as a certificate authority (CA).

The `-common-name` option creates the SVM's Certificate Authority (CA) name and will be used when generating the certificate's complete name.

The default certificate size is 2048 bits.

Example

```
cluster-1::> security certificate create -vserver svm1.example.com -type  
root-ca -common-name svm1_ca
```

The certificate's generated name for reference:

```
svm1_ca_159D1587CE21E9D4_svm1_ca
```

When the certificate's generated name is displayed; be sure to save it for later steps in this procedure.

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

2. Generate a certificate signing request:

```
security certificate generate-csr -common-name s3_server_name  
[additional_options]
```

The `-common-name` parameter for the signing request must be the S3 server name (FQDN).

You can provide the location and other detailed information about the SVM if desired.

The `-dns-name` parameter is often required by clients to specify the Subject Alternate Name extension which provides a list of DNS names.

The `-ipaddr` parameter is often required by clients to specify the Subject Alternate Name extension which provides a list of IP addresses.

You are prompted to keep a copy of your certificate request and private key for future reference.

Learn more about `security certificate generate-csr` in the [ONTAP command reference](#).

3. Sign the CSR using SVM_CA to generate S3 Server's certificate:

```
security certificate sign -vserver svm_name -ca ca_cert_name -ca-serial  
ca_cert_serial_number [additional_options]
```

Enter the command options that you used in previous steps:

- ° -ca — the common name of the CA that you entered in Step 1.
- ° -ca-serial — the CA serial number from Step 1. For example, if the CA certificate name is *svm1_ca_159D1587CE21E9D4_svm1_ca*, the serial number is *159D1587CE21E9D4*.

By default, the signed certificate will expire in 365 days. You can select another value, and specify other signing details.

When prompted, copy and enter the certificate request string you saved in Step 2.

A signed certificate is displayed; save it for later use.

4. Install the signed certificate on the S3-enabled SVM:

```
security certificate install -type server -vserver svm_name
```

When prompted, enter the certificate and private key.

You have the option to enter intermediate certificates if a certificate chain is desired.

When the private key and the CA-signed digital certificate are displayed; save them for future reference.

5. Get the public key certificate:

```
security certificate show -vserver svm_name -common-name ca_cert_name -type  
root-ca -instance
```

Save the public key certificate for later client-side configuration.

Example

```

cluster-1::> security certificate show -vserver svml.example.com -common
-name svml_ca -type root-ca -instance

          Name of Vserver: svml.example.com
          FQDN or Custom Common Name: svml_ca
          Serial Number of Certificate: 159D1587CE21E9D4
          Certificate Authority: svml_ca
          Type of Certificate: root-ca
          (DEPRECATED) -Certificate Subtype: -
          Unique Certificate Name: svml_ca_159D1587CE21E9D4_svml_ca
          Size of Requested Certificate in Bits: 2048
          Certificate Start Date: Thu May 09 10:58:39 2020
          Certificate Expiration Date: Fri May 08 10:58:39 2021
          Public Key Certificate: -----BEGIN CERTIFICATE-----
MIIDZ ... ==
-----END CERTIFICATE-----
          Country Name: US
          State or Province Name:
          Locality Name:
          Organization Name:
          Organization Unit:
          Contact Administrator's Email Address:
          Protocol: SSL
          Hashing Function: SHA256
          Self-Signed Certificate: true
          Is System Internal Certificate: false

```

Related information

- [security certificate install](#)
- [security certificate show](#)
- [security certificate sign](#)

Create the ONTAP S3 service data policy

You can create service policies for S3 data and management services. An S3 service data policy is required to enable S3 data traffic on LIFs.

About this task

An S3 service data policy is required if you are using data LIFs and intercluster LIFs. It is not required if you are using cluster LIFs for the local tiering use case.

When a service policy is specified for a LIF, the policy is used to construct a default role, failover policy, and data protocol list for the LIF.

Although multiple protocols can be configured for SVMs and LIFs, it is a best practice for S3 to be the only

protocol when serving object data.

Steps

1. Change the privilege setting to advanced:

```
set -privilege advanced
```

2. Create a service data policy:

```
network interface service-policy create -vserver svm_name -policy policy_name  
-services data-core,data-s3-server
```

The `data-core` and `data-s3-server` services are the only ones required to enable ONTAP S3, although other services can be included as needed.

Learn more about `network interface service-policy create` in the [ONTAP command reference](#).

Create data LIFs for ONTAP S3

If you created a new SVM, the dedicated LIFs you create for S3 access should be data LIFs.

Before you begin

- The underlying physical or logical network port must have been configured to the administrative `up` status. Learn more about `up` in the [ONTAP command reference](#).
- If you are planning to use a subnet name to allocate the IP address and network mask value for a LIF, the subnet must already exist.

Subnets contain a pool of IP addresses that belong to the same layer 3 subnet. They are created using the `network subnet create` command.

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

- The LIF service policy must already exist.
- As a best practice, LIFs used for data access (`data-s3-server`) and LIFs used for management operations (`management-https`) should be separate. Both services should not be enabled on the same LIF.
- DNS records should only have IP addresses of the LIFs which have `data-s3-server` associated with them. If IP addresses of other LIFs are specified in the DNS record, ONTAP S3 requests may be served by other servers resulting in unexpected responses or data loss.

About this task

- You can create both IPv4 and IPv6 LIFs on the same network port.
- If you have a large number of LIFs in your cluster, you can verify the LIF capacity supported on the cluster by using the `network interface capacity show` command and the LIF capacity supported on each node by using the `network interface capacity details show` command (at the advanced privilege level).

Learn more about `network interface capacity show` and `network interface capacity details show` in the [ONTAP command reference](#).

- If you are enabling remote FabricPool capacity (cloud) tiering, you must also configure intercluster LIFs.

Steps

1. Create a LIF:

```
network interface create -vserver svm_name -lif lif_name -service-policy
service_policy_names -home-node node_name -home-port port_name {-address
IP_address -netmask IP_address | -subnet-name subnet_name} -firewall-policy
data -auto-revert {true|false}
```

- -home-node is the node to which the LIF returns when the `network interface revert` command is run on the LIF.

Learn more about `network interface revert` in the [ONTAP command reference](#).

You can also specify whether the LIF should automatically revert to the home-node and home-port with the `-auto-revert` option.

- -home-port is the physical or logical port to which the LIF returns when the `network interface revert` command is run on the LIF.
- You can specify an IP address with the `-address` and `-netmask` options, or you enable allocation from a subnet with the `-subnet_name` option.
- When using a subnet to supply the IP address and network mask, if the subnet was defined with a gateway, a default route to that gateway is added automatically to the SVM when a LIF is created using that subnet.
- If you assign IP addresses manually (without using a subnet), you might need to configure a default route to a gateway if there are clients or domain controllers on a different IP subnet. Learn more about `network route create` and creating a static route within an SVM in the [ONTAP command reference](#).
- For the `-firewall-policy` option, use the same default `data` as the LIF role.

You can create and add a custom firewall policy later if desired.



Beginning with ONTAP 9.10.1, firewall policies are deprecated and wholly replaced with LIF service policies. For more information, see [Configure firewall policies for LIFs](#).

- `-auto-revert` allows you to specify whether a data LIF is automatically reverted to its home node under circumstances such as startup, changes to the status of the management database, or when the network connection is made. The default setting is `false`, but you can set it to `false` depending on network management policies in your environment.
- The `-service-policy` option specifies the data and management services policy you created and any other policies you need.

2. If you want to assign an IPv6 address in the `-address` option:

- a. Use the `network ndp prefix show` command to view the list of RA prefixes learned on various interfaces.

The `network ndp prefix show` command is available at the advanced privilege level.

- b. Use the format `prefix:id` to construct the IPv6 address manually.

`prefix` is the prefix learned on various interfaces.

For deriving the `id`, choose a random 64-bit hexadecimal number.

3. Verify that the LIF was created successfully by using the `network interface show` command.
4. Verify that the configured IP address is reachable:

To verify an...	Use...
IPv4 address	<code>network ping</code>
IPv6 address	<code>network ping6</code>

Examples

The following command shows how to create an S3 data LIF that is assigned with the `my-S3-policy` service policy:

```
network interface create -vserver svml.example.com -lif lif2 -home-node
node2 -homeport e0d -service-policy my-S3-policy -subnet-name ipspace1
```

The following command shows all the LIFs in cluster-1. Data LIFs `datalif1` and `datalif3` are configured with IPv4 addresses, and `datalif4` is configured with an IPv6 address:

```
cluster-1::> network interface show
```

Vserver	Logical Interface	Status Admin/Oper	Network Address/Mask	Current Node	Current Port	Is
Home						
cluster-1	cluster_mgmt	up/up	192.0.2.3/24	node-1	e1a	
true						
node-1	clus1	up/up	192.0.2.12/24	node-1	e0a	
true						
true	clus2	up/up	192.0.2.13/24	node-1	e0b	
true						
node-2	mgmt1	up/up	192.0.2.68/24	node-1	e1a	
true						
true	clus1	up/up	192.0.2.14/24	node-2	e0a	
true						
true	clus2	up/up	192.0.2.15/24	node-2	e0b	
true						
true	mgmt1	up/up	192.0.2.69/24	node-2	e1a	
vs1.example.com	dataif1	up/down	192.0.2.145/30	node-1	e1c	
true						
vs3.example.com	dataif3	up/up	192.0.2.146/30	node-2	e0c	
true						
true	dataif4	up/up	2001::2/64	node-2	e0c	
5 entries were displayed.						

Related information

- [network ping](#)
- [network interface](#)
- [network ndp prefix show](#)

Create intercluster LIFs for remote FabricPool tiering with ONTAP S3

If you are enabling remote FabricPool capacity (cloud) tiering using ONTAP S3, you must configure intercluster LIFs. You can configure intercluster LIFs on ports shared with the

data network. Doing so reduces the number of ports you need for intercluster networking.

Before you begin

- The underlying physical or logical network port must have been configured to the administrative up status. Learn more about up in the [ONTAP command reference](#).
- The LIF service policy must already exist.

About this task

Intercluster LIFs are not required for local Fabric pool tiering or for serving external S3 apps.

Steps

1. List the ports in the cluster:

```
network port show
```

The following example shows the network ports in cluster01:

cluster01::> network port show							Speed	
(Mbps)	Node	Port	IPspace	Broadcast	Domain	Link	MTU	Admin/Oper
cluster01-01	e0a	Cluster	Cluster	up	1500	auto/1000		
	e0b	Cluster	Cluster	up	1500	auto/1000		
	e0c	Default	Default	up	1500	auto/1000		
	e0d	Default	Default	up	1500	auto/1000		
cluster01-02	e0a	Cluster	Cluster	up	1500	auto/1000		
	e0b	Cluster	Cluster	up	1500	auto/1000		
	e0c	Default	Default	up	1500	auto/1000		
	e0d	Default	Default	up	1500	auto/1000		

Learn more about `network port show` in the [ONTAP command reference](#).

2. Create intercluster LIFs on the system SVM:

```
network interface create -vserver Cluster -lif LIF_name -service-policy default-intercluster -home-node node -home-port port -address port_IP -netmask netmask
```

The following example creates intercluster LIFs `cluster01_icl01` and `cluster01_icl02`:

```

cluster01::> network interface create -vserver Cluster -lif
cluster01_icl01 -service-
policy default-intercluster -home-node cluster01-01 -home-port e0c
-address 192.168.1.201
-netmask 255.255.255.0

cluster01::> network interface create -vserver Cluster -lif
cluster01_icl02 -service-
policy default-intercluster -home-node cluster01-02 -home-port e0c
-address 192.168.1.202
-netmask 255.255.255.0

```

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

3. Verify that the intercluster LIFs were created:

```
network interface show -service-policy default-intercluster
```

```

cluster01::> network interface show -service-policy default-intercluster
      Logical      Status      Network          Current
      Current Is
      Vserver      Interface  Admin/Oper Address/Mask      Node      Port
      Home
      -----
      -----
      cluster01
          cluster01_icl01
          up/up      192.168.1.201/24  cluster01-01  e0c
      true
          cluster01_icl02
          up/up      192.168.1.202/24  cluster01-02  e0c
      true

```

4. Verify that the intercluster LIFs are redundant:

```
network interface show -service-policy default-intercluster -failover
```

The following example shows that the intercluster LIFs `cluster01_icl01` and `cluster01_icl02` on the `e0c` port will fail over to the `e0d` port.

```

cluster01::> network interface show -service-policy default-intercluster
-failover
      Logical          Home          Failover          Failover
Vserver  Interface    Node:Port    Policy          Group
-----
cluster01
      cluster01_icl01 cluster01-01:e0c  local-only
192.168.1.201/24
      Failover Targets: cluster01-01:e0c,
                           cluster01-01:e0d
      cluster01_icl02 cluster01-02:e0c  local-only
192.168.1.201/24
      Failover Targets: cluster01-02:e0c,
                           cluster01-02:e0d

```

Learn more about `network interface show` in the [ONTAP command reference](#).

Create the ONTAP S3 object store server

The ONTAP object store server manages data as S3 objects, as opposed to file or block storage provided by ONTAP NAS and SAN servers.

Before you begin

You should be prepared to enter the S3 server name as a Fully Qualified Domain Name (FQDN), which clients will use for S3 access. The FQDN must not begin with a bucket name. When accessing buckets using virtual-hosted-style, the server name will be used as `mydomain.com`. For example, `bucketname.mydomain.com`.

You should have a self-signed CA certificate (created in previous steps) or a certificate signed by an external CA vendor. A CA certificate is not necessary for a local tiering use case, where IP traffic is going over cluster LIFs only.

About this task

When an object store server is created, a root user with UID 0 is created. No access key or secret key is generated for this root user. The ONTAP administrator must run the `object-store-server users regenerate-keys` command to set the access key and secret key for this user.



As a NetApp best practice, do not use this root user. Any client application that uses the access key or secret key of the root user has full access to all buckets and objects in the object store.

Learn more about `vserver object-store-server` in the [ONTAP command reference](#).

Example 2. Steps

System Manager

Use this procedure if you are adding an S3 server to an existing storage VM. To add an S3 server to a new storage VM, see [Create a storage SVM for S3](#).

You should be prepared to enter IP addresses for interface role Data.

1. Enable S3 on an existing storage VM.

- a. Select the storage VM: click **Storage > Storage VMs**, select a storage VM, click **Settings**, and then click  under **S3**.
- b. Click **Enable S3**, then enter the S3 Server Name.
- c. Select the certificate type.

Whether you select system-generated certificate or one of your own, it will be required for client access.

- d. Enter the network interfaces.

2. If you selected the system-generated certificate, you see the certificate information when the new storage VM creation is confirmed. Click **Download** and save it for client access.
 - The secret key will not be displayed again.
 - If you need the certificate information again: click **Storage > Storage VMs**, select the storage VM, and click **Settings**.

CLI

1. Create the S3 server:

```
vserver object-store-server create -vserver svm_name -object-store-server s3_server_fqdn -certificate-name server_certificate_name -comment text [additional_options]
```

You can specify additional options when creating the S3 server or at any time later.

- If you are configuring local tiering, the SVM name can either be a data SVM or system SVM (cluster) name.
- The certificate name should be the name of the server certificate (end user or leaf certificate), and not server CA certificate (intermediate or root CA certificate).
- HTTPS is enabled by default on port 443. You can change the port number with the **-secure-listener-port** option.

When HTTPS is enabled, CA certificates are required for correct integration with SSL/TLS. Beginning with ONTAP 9.15.1, TLS 1.3 is supported with S3 object storage.

- HTTP is disabled by default. When enabled, the server listens on port 80. You can enable it with the **-is-http-enabled** option, or change the port number with the **-listener-port** option.

When HTTP is enabled, the request and responses are sent over the network in clear text.

2. Verify that S3 is configured:

```
vserver object-store-server show
```

Example

This command verifies the configuration values of all object storage servers:

```
cluster1::> vserver object-store-server show

Vserver: vs1

Object Store Server Name: s3.example.com
    Administrative State: up
    Listener Port For HTTP: 80
    Secure Listener Port For HTTPS: 443
        HTTP Enabled: false
        HTTPS Enabled: true
    Certificate for HTTPS Connections: svm1_ca
        Comment: Server comment
```

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