



Use S3 setup wizard

StorageGRID software

NetApp

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Use S3 setup wizard

Use S3 setup wizard: Considerations and requirements

You can use the S3 setup wizard to configure StorageGRID as the object storage system for an S3 application.

When to use the S3 setup wizard

The S3 setup wizard guides you through each step of configuring StorageGRID for use with an S3 application. As part of completing the wizard, you download files that you can use to enter values into the S3 application. Use the wizard to configure your system more quickly and to make sure your settings conform to StorageGRID best practices.

If you have the [Root access permission](#), you can complete the S3 setup wizard when you start using the StorageGRID Grid Manager, or you can access and complete the wizard at any later time. Depending on your requirements, you can also configure some or all of the required items manually and then use the wizard to assemble the values that an S3 application needs.

Before using the wizard

Before using the wizard, confirm you have completed these prerequisites.

Obtain IP addresses and set up VLAN interfaces

If you will configure a high availability (HA) group, you know which nodes the S3 application will connect to and which StorageGRID network will be used. You also know which values to enter for the subnet CIDR, gateway IP address, and virtual IP (VIP) addresses.

If you plan to use a virtual LAN to segregate the traffic from the S3 application, you have already configured the VLAN interface. See [Configure VLAN interfaces](#).

Configure identity federation and SSO

If you plan to use identity federation or single sign-on (SSO) for your StorageGRID system, you have enabled these features. You also know which federated group should have root access for the tenant account that the S3 application will use. See [Use identity federation](#) and [Configure single sign-on](#).

Obtain and configure domain names

You know which fully qualified domain name (FQDN) to use for StorageGRID. Domain name server (DNS) entries will map this FQDN to the virtual IP (VIP) addresses of the HA group that you create using the wizard.

If you plan to use S3 virtual hosted-style requests, you should have [configured S3 endpoint domain names](#). Using virtual hosted-style requests is recommended.

Review load balancer and security certificate requirements

If you plan to use the StorageGRID load balancer, you have reviewed the general considerations for load balancing. You have the certificates you will upload or the values you need to generate a certificate.

If you plan to use an external (third-party) load balancer endpoint, you have the fully qualified domain name (FQDN), port, and certificate for that load balancer.

Configure any grid federation connections

If you want to allow the S3 tenant to clone account data and replicate bucket objects to another grid using a grid federation connection, confirm the following before starting the wizard:

- You have [configured the grid federation connection](#).
- The status of the connection is **Connected**.
- You have Root access permission.

Access and complete the S3 setup wizard

You can use the S3 setup wizard to configure StorageGRID for use with an S3 application. The setup wizard provides the values the application needs to access a StorageGRID bucket and to save objects.

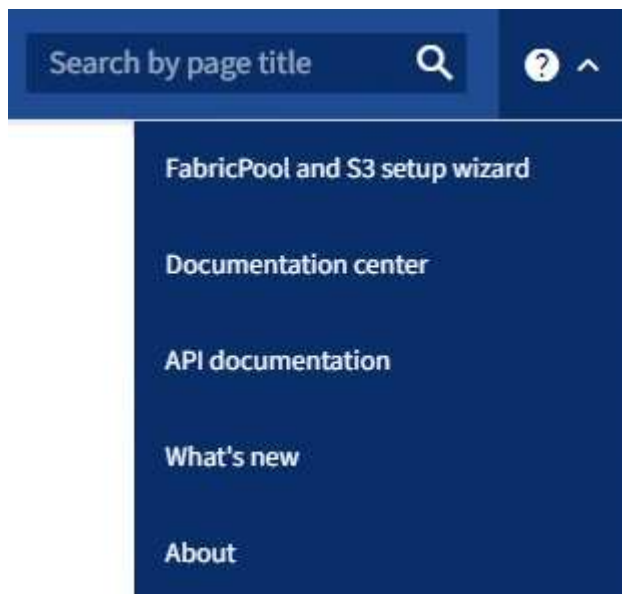
Before you begin

- You have the [Root access permission](#).
- You have reviewed the [considerations and requirements](#) for using the wizard.

Access the wizard

Steps

1. Sign in to the Grid Manager using a [supported web browser](#).
2. If the **FabricPool and S3 setup wizard** banner appears on the dashboard, select the link in the banner. If the banner no longer appears, select the help icon from the header bar in the Grid Manager and select **FabricPool and S3 setup wizard**.



3. In the S3 application section of the FabricPool and S3 setup wizard page, select **Configure now**.

Step 1 of 6: Configure HA group

An HA group is a collection of nodes that each contain the StorageGRID Load Balancer service. An HA group can contain Gateway Nodes, Admin Nodes, or both.

You can use an HA group to help keep the S3 data connections available. If the active interface in the HA group fails, a backup interface can manage the workload with little impact to S3 operations.

For details about this task, see [Manage high availability groups](#).

Steps

1. If you plan to use an external load balancer, you don't need to create an HA group. Select **Skip this step** and go to [Step 2 of 6: Configure load balancer endpoint](#).
2. To use the StorageGRID load balancer, you can create a new HA group or use an existing HA group.

Create HA group

- a. To create a new HA group, select **Create HA group**.
- b. For the **Enter details** step, complete the following fields.

Field	Description
HA group name	A unique display name for this HA group.
Description (optional)	The description of this HA group.

- c. For the **Add interfaces** step, select the node interfaces you want to use in this HA group.

Use the column headers to sort the rows, or enter a search term to locate interfaces more quickly.

You can select one or more nodes, but you can select only one interface for each node.

- d. For the **Prioritize interfaces** step, determine the Primary interface and any backup interfaces for this HA group.

Drag rows to change the values in the **Priority order** column.

The first interface in the list is the Primary interface. The Primary interface is the active interface unless a failure occurs.

If the HA group includes more than one interface and the active interface fails, the virtual IP (VIP) addresses move to the first backup interface in the priority order. If that interface fails, the VIP addresses move to the next backup interface, and so on. When failures are resolved, the VIP addresses move back to the highest priority interface available.

- e. For the **Enter IP addresses** step, complete the following fields.

Field	Description
Subnet CIDR	<p>The address of the VIP subnet in CIDR notation — an IPv4 address followed by a slash and the subnet length (0-32).</p> <p>The network address must not have any host bits set. For example, 192.16.0.0/22.</p>
Gateway IP address (optional)	If the S3 IP addresses used to access StorageGRID aren't on the same subnet as the StorageGRID VIP addresses, enter the StorageGRID VIP local gateway IP address. The local gateway IP address must be within the VIP subnet.
Virtual IP address	<p>Enter at least one and no more than ten VIP addresses for the active interface in the HA group. All VIP addresses must be within the VIP subnet.</p> <p>At least one address must be IPv4. Optionally, you can specify additional IPv4 and IPv6 addresses.</p>

- f. Select **Create HA group** and then select **Finish** to return to the S3 setup wizard.
- g. Select **Continue** to go to the load balancer step.

Use existing HA group

- a. To use an existing HA group, select the HA group name from the **Select an HA group**.
- b. Select **Continue** to go to the load balancer step.

Step 2 of 6: Configure load balancer endpoint

StorageGRID uses a load balancer to manage the workload from client applications. Load balancing maximizes speed and connection capacity across multiple Storage Nodes.

You can use the StorageGRID Load Balancer service, which exists on all Gateway and Admin Nodes, or you can connect to an external (third-party) load balancer. Using the StorageGRID load balancer is recommended.

For details about this task, see [Considerations for load balancing](#).

To use the StorageGRID Load Balancer service, select the **StorageGRID load balancer** tab and then create or select the load balancer endpoint you want to use. To use an external load balancer, select the **External load balancer** tab and provide details about the system you have already configured.

Create endpoint

Steps

1. To create a load balancer endpoint, select **Create endpoint**.
2. For the **Enter endpoint details** step, complete the following fields.

Field	Description
Name	A descriptive name for the endpoint.
Port	<p>The StorageGRID port you want to use for load balancing. This field defaults to 10433 for the first endpoint you create, but you can enter any unused external port. If you enter 80 or 443, the endpoint is configured only on Gateway Nodes, because these ports are reserved on Admin Nodes.</p> <p>Note: Ports used by other grid services aren't permitted. See the Network port reference.</p>
Client type	Must be S3 .
Network protocol	<p>Select HTTPS.</p> <p>Note: Communicating with StorageGRID without TLS encryption is supported but not recommended.</p>

3. For the **Select binding mode** step, specify the binding mode. The binding mode controls how the endpoint is accessed using any IP address or using specific IP addresses and network interfaces.

Mode	Description
Global (default)	<p>Clients can access the endpoint using the IP address of any Gateway Node or Admin Node, the virtual IP (VIP) address of any HA group on any network, or a corresponding FQDN.</p> <p>Use the Global setting (default) unless you need to restrict the accessibility of this endpoint.</p>
Virtual IPs of HA groups	<p>Clients must use a virtual IP address (or corresponding FQDN) of an HA group to access this endpoint.</p> <p>Endpoints with this binding mode can all use the same port number, as long as the HA groups you select for the endpoints don't overlap.</p>
Node interfaces	Clients must use the IP addresses (or corresponding FQDNs) of selected node interfaces to access this endpoint.
Node type	Based on the type of node you select, clients must use either the IP address (or corresponding FQDN) of any Admin Node or the IP address (or corresponding FQDN) of any Gateway Node to access this endpoint.

4. For the Tenant access step, select one of the following:

Field	Description
Allow all tenants (default)	All tenant accounts can use this endpoint to access their buckets.
Allow selected tenants	Only the selected tenant accounts can use this endpoint to access their buckets.
Block selected tenants	The selected tenant accounts can't use this endpoint to access their buckets. All other tenants can use this endpoint.

5. For the **Attach certificate** step, select one of the following:

Field	Description
Upload certificate (recommended)	Use this option to upload a CA-signed server certificate, certificate private key, and optional CA bundle.
Generate certificate	Use this option to generate a self-signed certificate. See Configure load balancer endpoints for details of what to enter.
Use StorageGRID S3 certificate	Use this option only if you have already uploaded or generated a custom version of the StorageGRID global certificate. See Configure S3 API certificates for details.

6. Select **Finish** to return to the S3 setup wizard.
7. Select **Continue** to go to the tenant and bucket step.



Changes to an endpoint certificate can take up to 15 minutes to be applied to all nodes.

Use existing load balancer endpoint

Steps

1. To use an existing endpoint, select its name from the **Select a load balancer endpoint**.
2. Select **Continue** to go to the tenant and bucket step.

Use external load balancer

Steps

1. To use an external load balancer, complete the following fields.

Field	Description
FQDN	The fully qualified domain name (FQDN) of the external load balancer.
Port	The port number that the S3 application will use to connect to the external load balancer.

Field	Description
Certificate	Copy the server certificate for the external load balancer and paste it into this field.

2. Select **Continue** to go to the tenant and bucket step.

Step 3 of 6: Create tenant and bucket

A tenant is an entity that can use S3 applications to store and retrieve objects in StorageGRID. Each tenant has its own users, access keys, buckets, objects, and a specific set of capabilities.

A bucket is a container used to store a tenant's objects and object metadata. Although tenants might have many buckets, the wizard helps you to create a tenant and a bucket in the quickest and easiest way. If you need to add buckets or set options later, you can use the Tenant Manager.

For details about this task, see [Create tenant account](#) and [Create S3 bucket](#).

Steps

1. Enter a name for the tenant account.

Tenant names don't need to be unique. When the tenant account is created, it receives a unique, numeric account ID.

2. Define root access for the tenant account, based on whether your StorageGRID system uses [identity federation](#), [single sign-on \(SSO\)](#), or both.

Option	Do this
If identity federation is not enabled	Specify the password to use when signing into the tenant as the local root user.
If identity federation is enabled	<ol style="list-style-type: none"> 1. Select an existing federated group to have Root access permission for the tenant. 2. Optionally, specify the password to use when signing in to the tenant as the local root user.
If both identity federation and single sign-on (SSO) are enabled	Select an existing federated group to have Root access permission for the tenant. No local users can sign in.

3. If you want the wizard to create the access key ID and secret access key for the root user, select **Create root user S3 access key automatically**.

Select this option if the only user for the tenant will be the root user. If other users will use this tenant, [use Tenant Manager](#) to configure keys and permissions.

4. If you want to create a bucket for this tenant now, select **Create bucket for this tenant**.



If S3 Object Lock is enabled for the grid, the bucket created in this step doesn't have S3 Object Lock enabled. If you need to use an S3 Object Lock bucket for this S3 application, don't select to create a bucket now. Instead, use Tenant Manager to [create the bucket](#) later.

- a. Enter the name of the bucket that the S3 application will use. For example, `s3-bucket`.

You can't change the bucket name after creating the bucket.

- b. Select the **Region** for this bucket.


Use the default region (`us-east-1`) unless you expect to use ILM in the future to filter objects based on the bucket's region.

5. Select **Create and continue**.

Step 4 of 6: Download data

In the download data step, you can download one or two files to save the details of what you just configured.

Steps

1. If you selected **Create root user S3 access key automatically**, do one or both of the following:
 - Select **Download access keys** to download a `.csv` file containing the tenant account name, access key ID, and secret access key.
 - Select the copy icon () to copy the access key ID and secret access key to the clipboard.
2. Select **Download configuration values** to download a `.txt` file containing the settings for the load balancer endpoint, tenant, bucket, and the root user.
3. Save this information to a secure location.



Don't close this page until you have copied both access keys. The keys will not be available after you close this page. Make sure to save this information in a secure location because it can be used to obtain data from your StorageGRID system.

4. If prompted, select the checkbox to confirm that you have downloaded or copied the keys.
5. Select **Continue** to go to the ILM rule and policy step.

Step 5 of 6: Review ILM rule and ILM policy for S3

Information lifecycle management (ILM) rules control the placement, duration, and ingest behavior of all objects in your StorageGRID system. The ILM policy included with StorageGRID makes two replicated copies of all objects. This policy is in effect until you activate at least one new policy.

Steps

1. Review the information provided on the page.
2. If you want to add specific instructions for the objects belonging to the new tenant or bucket, create a new rule and a new policy. See [Create ILM rule](#) and [Use ILM policies](#).
3. Select **I have reviewed these steps and understand what I need to do**.
4. Select the checkbox to indicate that you understand what to do next.
5. Select **Continue** to go to **Summary**.

Step 6 of 6: Review summary

Steps

1. Review the summary.
2. Make note of the details in the next steps, which describe the additional configuration that might be needed before you connect to the S3 client. For example, selecting **Sign in as root** takes you to the Tenant Manager, where you can add tenant users, create additional buckets, and update bucket settings.
3. Select **Finish**.
4. Configure the application using the file you downloaded from StorageGRID or the values you obtained manually.

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