



Creating a tenant account

StorageGRID

NetApp

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Creating a tenant account

You must create at least one tenant account to control access to the storage in your StorageGRID system.

What you'll need

- You must be signed in to the Grid Manager using a supported browser.
- You must have specific access permissions.

Steps

1. Select **Tenants**.

The Tenant Accounts page appears and lists any existing tenant accounts.

Tenant Accounts

View information for each tenant account.

Note: Depending on the timing of ingests, network connectivity, and node status, the usage data shown might be out of date. To view more recent values, select the tenant and select **View Details**.



The screenshot shows the 'Tenant Accounts' page. At the top, there are buttons for 'Create', 'View details', 'Edit', 'Actions', and 'Export to CSV'. To the right is a search bar with a magnifying glass icon. Below the header is a table with the following columns: 'Display Name', 'Space Used', 'Quota Utilization', 'Quota', 'Object Count', and 'Sign in'. Each column has a sorting icon (up/down arrows) and a question mark icon. The table is currently empty, displaying the message 'No results found.' At the bottom of the page is a pagination control with the text 'Show 20 rows per page'.

2. Select **Create**.

The Create Tenant Account page appears. The fields included on the page depend on whether single sign-on (SSO) has been enabled for the StorageGRID system.

- If SSO is not being used, the Create Tenant Account page looks like this.

Create Tenant Account

Tenant Details

Display Name

Protocol

S3

Swift

Storage Quota (optional)

GB

Authentication

Configure how the tenant account will be accessed.

Uses Own Identity Source

Specify a password for the tenant's local root user.

Username root

Password

Confirm Password

- If SSO is enabled, the Create Tenant Account page looks like this.

Create Tenant Account

Tenant Details

Display Name	S3 tenant (SSO enabled)	
Protocol	<input checked="" type="radio"/> S3	<input type="radio"/> Swift
Allow Platform Services	<input checked="" type="checkbox"/>	
Storage Quota (optional)	<input type="text"/>	GB <input type="button" value="▼"/>

Authentication

Because single sign-on is enabled, the tenant must use the Grid Manager's identity federation service, and no local users can sign in. You must select an existing federated group to have the initial Root Access permission for the tenant.

Uses Own Identity Source
Single sign-on is enabled. The tenant cannot use its own identity source.

Root Access Group

Related information

[Using identity federation](#)

[Configuring single sign-on](#)

Creating a tenant account if StorageGRID is not using SSO

When you create a tenant account, you specify a name, a client protocol, and optionally a storage quota. If StorageGRID is not using single sign-on (SSO), you must also specify whether the tenant account will use its own identity source and configure the initial password for the tenant's local root user.

About this task

If the tenant account will use the identity source that was configured for the Grid Manager, and you want to grant Root Access permission for the tenant account to a federated group, you must have imported that federated group into the Grid Manager. You do not need to assign any Grid Manager permissions to this admin group. See the instructions for [managing admin groups](#).

Steps

1. In the **Display Name** text box, enter a display name for this tenant account.

Display names do not need to be unique. When the tenant account is created, it receives a unique, numeric Account ID.

2. Select the client protocol that will be used by this tenant account, either **S3** or **Swift**.
3. For S3 tenant accounts, keep the **Allow Platform Services** check box selected unless you do not want this tenant to use platform services for S3 buckets.

If platform services are enabled, a tenant can use features, such as CloudMirror replication, that access external services. You might want to disable the use of these features to limit the amount of network bandwidth or other resources a tenant consumes. See “Managing platform services.”

4. In the **Storage Quota** text box, optionally enter the maximum number of gigabytes, terabytes, or petabytes that you want to make available for this tenant’s objects. Then, select the units from the drop-down list.

Leave this field blank if you want this tenant to have an unlimited quota.



A tenant’s storage quota represents a logical amount (object size), not a physical amount (size on disk). ILM copies and erasure coding do not contribute to the amount of quota used. If the quota is exceeded, the tenant account cannot create new objects.



To monitor each tenant account’s storage usage, select **Usage**. Tenant accounts can also monitor their own storage usage from the Dashboard in the Tenant Manager or with the Tenant Management API. Note that a tenant’s storage usage values might become out of date if nodes are isolated from other nodes in the grid. The totals will be updated when network connectivity is restored.

5. If the tenant will manage its own groups and users, follow these steps.

- a. Select the **Uses Own Identity Source** check box (default).



If this check box is selected and you want to use identity federation for tenant groups and users, the tenant must configure its own identity source. See the instructions for using tenant accounts.

- b. Specify a password for the tenant’s local root user.

6. If the tenant will use the groups and users configured for the Grid Manager, follow these steps.

- a. Unselect the **Uses Own Identity Source** check box.

- b. Do either or both of the following:

- In the Root Access Group field, select an existing federated group from the Grid Manager that should have the initial Root Access permission for the tenant.



If you have adequate permissions, the existing federated groups from the Grid Manager are listed when you click the field. Otherwise, enter the group’s unique name.

- Specify a password for the tenant’s local root user.

7. Click **Save**.

The tenant account is created.

8. Optionally, access the new tenant. Otherwise, go to the step for [accessing the tenant later](#).

If you are...	Do this...
Accessing the Grid Manager on a restricted port	<p>Click Restricted to learn more about accessing this tenant account.</p> <p>The URL for the Tenant Manager has this format:</p> <p><code>https://FQDN_or_Admin_Node_IP:port/?accountId=20-digit-account-id/</code></p> <ul style="list-style-type: none">• <i>FQDN_or_Admin_Node_IP</i> is a fully qualified domain name or the IP address of an Admin Node• <i>port</i> is the tenant-only port• <i>20-digit-account-id</i> is the tenant's unique account ID
Accessing the Grid Manager on port 443 but you did not set a password for the local root user	Click Sign In , and enter the credentials for a user in the Root Access federated group.
Accessing the Grid Manager on port 443 and you set a password for the local root user	Go to the next step to sign in as root .

9. Sign in to the tenant as root:

a. From the Configure Tenant Account dialog box, click the **Sign in as root** button.

Configure Tenant Account

✓ Account S3 tenant created successfully.

If you are ready to configure this tenant account, sign in as the tenant's root user. Then, click the links below.

[Sign in as root](#)

- [Buckets](#) - Create and manage buckets.
- [Groups](#) - Manage user groups, and assign group permissions.
- [Users](#) - Manage local users, and assign users to groups.

[Finish](#)

A green check mark appears on the button, indicating that you are now signed in to the tenant account as the root user.

b. Click the links to configure the tenant account.

Each link opens the corresponding page in the Tenant Manager. To complete the page, see the instructions for using tenant accounts.

c. Click **Finish**.

10. To access the tenant later:

If you are using...	Do one of these...
Port 443	<ul style="list-style-type: none"> From the Grid Manager, select Tenants, and click Sign in to the right of the tenant name. Enter the tenant's URL in a web browser: $\text{https://FQDN_or_Admin_Node_IP/?accountId=20-digit-account-id/}$ <ul style="list-style-type: none"> $FQDN_or_Admin_Node_IP$ is a fully qualified domain name or the IP address of an Admin Node $20-digit-account-id$ is the tenant's unique account ID
A restricted port	<ul style="list-style-type: none"> From the Grid Manager, select Tenants, and click Restricted. Enter the tenant's URL in a web browser: $\text{https://FQDN_or_Admin_Node_IP:port/?accountId=20-digit-account-id}$ <ul style="list-style-type: none"> $FQDN_or_Admin_Node_IP$ is a fully qualified domain name or the IP address of an Admin Node $port$ is the tenant-only restricted port $20-digit-account-id$ is the tenant's unique account ID

Related information

[Controlling access through firewalls](#)

[Managing platform services for S3 tenant accounts](#)

[Use a tenant account](#)

Creating a tenant account if SSO is enabled

When you create a tenant account, you specify a name, a client protocol, and optionally a storage quota. If single sign-on (SSO) is enabled for StorageGRID, you also specify which federated group has Root Access permission to configure the tenant account.

Steps

1. In the **Display Name** text box, enter a display name for this tenant account.

Display names do not need to be unique. When the tenant account is created, it receives a unique, numeric Account ID.

2. Select the client protocol that will be used by this tenant account, either **S3** or **Swift**.
3. For S3 tenant accounts, keep the **Allow Platform Services** check box selected unless you do not want this tenant to use platform services for S3 buckets.

If platform services are enabled, a tenant can use features, such as CloudMirror replication, that access external services. You might want to disable the use of these features to limit the amount of network bandwidth or other resources a tenant consumes. See “Managing platform services.”

4. In the **Storage Quota** text box, optionally enter the maximum number of gigabytes, terabytes, or petabytes that you want to make available for this tenant’s objects. Then, select the units from the drop-down list.

Leave this field blank if you want this tenant to have an unlimited quota.



A tenant’s storage quota represents a logical amount (object size), not a physical amount (size on disk). ILM copies and erasure coding do not contribute to the amount of quota used. If the quota is exceeded, the tenant account cannot create new objects.



To monitor each tenant account’s storage usage, select **Usage**. Tenant accounts can also monitor their own storage usage from the Dashboard in the Tenant Manager or with the Tenant Management API. Note that a tenant’s storage usage values might become out of date if nodes are isolated from other nodes in the grid. The totals will be updated when network connectivity is restored.

5. Notice that the **Uses Own Identity Source** check box is unchecked and disabled.

Because SSO is enabled, the tenant must use the identity source that was configured for the Grid Manager. No local users can sign in.

6. In the **Root Access Group** field, select an existing federated group from the Grid Manager to have the initial Root Access permission for the tenant.



If you have adequate permissions, the existing federated groups from the Grid Manager are listed when you click the field. Otherwise, enter the group’s unique name.

7. Click **Save**.

The tenant account is created. The Tenant Accounts page appears, and it includes a row for the new tenant.

8. If you are a user in the Root Access group, optionally click the **Sign in** link for the new tenant to immediately access the Tenant Manager, where you can configure the tenant. Otherwise, provide the URL for the **Sign in** link to the tenant account’s administrator. (The URL for a tenant is the fully qualified domain name or IP address of any Admin Node, followed by `/?accountId=20-digit-account-id`.)



An access denied message is displayed if you click **Sign in**, but you do not belong to the Root Access group for the tenant account.

Related information

[Configuring single sign-on](#)

[Managing platform services for S3 tenant accounts](#)

[Use a tenant account](#)

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