



Managing tenants

StorageGRID

NetApp

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Managing tenants

As a grid administrator, you create and manage the tenant accounts that S3 and Swift clients use to store and retrieve objects, monitor storage usage, and manage the actions that clients are able to perform using your StorageGRID system.

What tenant accounts are

Tenant accounts allow client applications that use the Simple Storage Service (S3) REST API or the Swift REST API to store and retrieve objects on StorageGRID.

Each tenant account supports the use of a single protocol, which you specify when you create the account. To store and retrieve objects to a StorageGRID system with both protocols, you must create two tenant accounts: one for S3 buckets and objects, and one for Swift containers and objects. Each tenant account has its own account ID, authorized groups and users, buckets or containers, and objects.

Optionally, you can create additional tenant accounts if you want to segregate the objects stored on your system by different entities. For example, you might set up multiple tenant accounts in either of these use cases:

- **Enterprise use case:** If you are administering a StorageGRID system in an enterprise application, you might want to segregate the grid's object storage by the different departments in your organization. In this case, you could create tenant accounts for the Marketing department, the Customer Support department, the Human Resources department, and so on.



If you use the S3 client protocol, you can simply use S3 buckets and bucket policies to segregate objects between the departments in an enterprise. You do not need to use tenant accounts. See the instructions for implementing S3 client applications for more information.

- **Service provider use case:** If you are administering a StorageGRID system as a service provider, you can segregate the grid's object storage by the different entities that will lease the storage on your grid. In this case, you would create tenant accounts for Company A, Company B, Company C, and so on.

Creating and configuring tenant accounts

When you create a tenant account, you specify the following information:

- Display name for the tenant account.
- Which client protocol will be used by the tenant account (S3 or Swift).
- For S3 tenant accounts: Whether the tenant account has permission to use platform services with S3 buckets. If you permit tenant accounts to use platform services, you must ensure that the grid is configured to support their use. See “Managing platform services.”
- Optionally, a storage quota for the tenant account—the maximum number of gigabytes, terabytes, or petabytes available for the tenant's objects. If the quota is exceeded, the tenant cannot create new objects.



A tenant's storage quota represents a logical amount (object size), not a physical amount (size on disk).

- If identity federation is enabled for the StorageGRID system, which federated group has Root Access permission to configure the tenant account.

- If single sign-on (SSO) is not in use for the StorageGRID system, whether the tenant account will use its own identity source or share the grid's identity source, and the initial password for the tenant's local root user.

After a tenant account is created, you can perform the following tasks:

- **Manage platform services for the grid:** If you enable platform services for tenant accounts, ensure that you understand how platform services messages are delivered and the networking requirements that the use of platform services place on your StorageGRID deployment.
- **Monitor a tenant account's storage usage:** After tenants begin using their accounts, you can use Grid Manager to monitor how much storage each tenant consumes.

If you have set quotas for tenants, you can enable the **Tenant quota usage high** alert to determine if tenants are consuming their quotas. If enabled, this alert is triggered when a tenant has used 90% of its quota. For more information, see the alerts reference in the instructions for monitoring and troubleshooting StorageGRID.

- **Configure client operations:** You can configure if some types of client operations are forbidden.

Configuring S3 tenants

After an S3 tenant account is created, tenant users can access the Tenant Manager to perform tasks such as the following:

- Setting up identity federation (unless the identity source is shared with the grid) and creating local groups and users
- Managing S3 access keys
- Creating and managing S3 buckets
- Monitoring storage usage
- Using platform services (if enabled)



S3 tenant users can create and manage S3 access key and buckets with the Tenant Manager, but they must use an S3 client application to ingest and manage objects.

Configuring Swift tenants

After a Swift tenant account is created, the tenant's root user can access the Tenant Manager to perform tasks such as the following:

- Setting up identity federation (unless the identity source is shared with the grid), and creating local groups and users
- Monitoring storage usage



Swift users must have the Root Access permission to access the Tenant Manager. However, the Root Access permission does not allow users to authenticate into the Swift REST API to create containers and ingest objects. Users must have the Swift Administrator permission to authenticate into the Swift REST API.

Related information

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**.



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	<input type="text" value="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"/> <input type="button" value="GB"/>

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.

Sign in as root ✓

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](#)

Changing the password for a tenant's local root user

You might need to change the password for a tenant's local root user if the root user is locked out of the account.

What you'll need

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

About this task

If single sign-on (SSO) is enabled for your StorageGRID system, the local root user cannot sign in to the tenant account. To perform root user tasks, users must belong to a federated group that has the Root Access permission for the tenant.

Steps

1. Select **Tenants**.

The Tenant Accounts page appears and lists all 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**.

	Display Name	Space Used	Quota Utilization	Quota	Object Count	Sign in
●	Account01	500.00 KB	0.00%	20.00 GB	100	
○	Account02	2.50 MB	0.01%	30.00 GB	500	
○	Account03	605.00 MB	4.03%	15.00 GB	31,000	
○	Account04	1.00 GB	10.00%	10.00 GB	200,000	
○	Account05	0 bytes	—	Unlimited	0	

2. Select the tenant account you want to edit.

If your system includes more than 20 items, you can specify how many rows are shown on each page at one time. Use the search box to search for a tenant account by display name or tenant ID.

The **View Details**, **Edit**, and **Actions** buttons become enabled.

3. From the **Actions** drop-down, select **Change Root Password**.

Change Root User Password - Account03

Username	root
New Password	<input type="password"/> *****
Confirm New Password	<input type="password"/>

Cancel **Save**

4. Enter the new password for the tenant account.

5. Select **Save**.

Related information

[Controlling administrator access to StorageGRID](#)

Editing a tenant account

You can edit a tenant account to change the display name, change the identity source setting, allow or disallow platform services, or enter a storage quota.

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 all existing tenant accounts.

Tenant Accounts

View information for each tenant account.

Note: Depending on the timing of ingest, 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**.



	Display Name	Space Used	Quota Utilization	Quota	Object Count	Sign in
<input checked="" type="radio"/>	Account01	500.00 KB	0.00%	20.00 GB	100	
<input type="radio"/>	Account02	2.50 MB	0.01%	30.00 GB	500	
<input type="radio"/>	Account03	605.00 MB	4.03%	15.00 GB	31,000	
<input type="radio"/>	Account04	1.00 GB	10.00%	10.00 GB	200,000	
<input type="radio"/>	Account05	0 bytes	—	Unlimited	0	

2. Select the tenant account you want to edit.

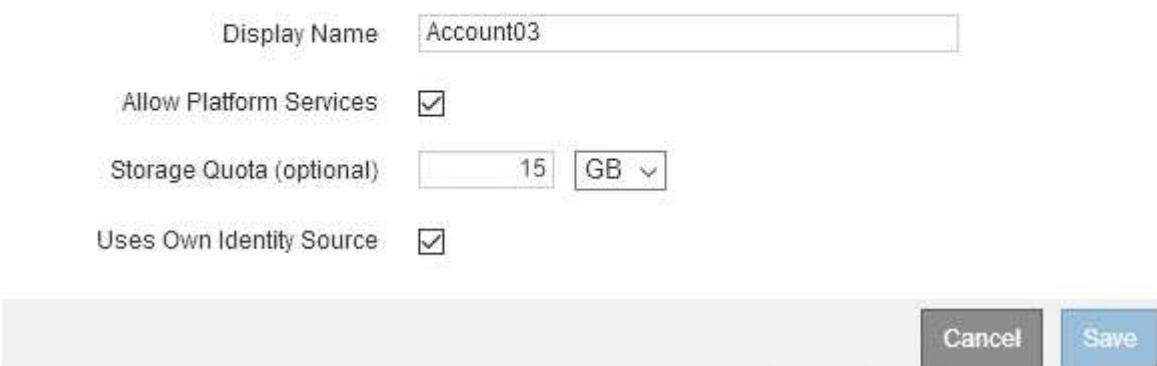
If your system includes more than 20 items, you can specify how many rows are shown on each page at one time. Use the search box to search for a tenant account by display name or tenant ID.

3. Select **Edit**.

The Edit Tenant Account page appears. This example is for a grid that does not use single sign-on (SSO). This tenant account has not configured its own identity source.

Edit Tenant Account

Tenant Details



Display Name	Account03
Allow Platform Services	<input checked="" type="checkbox"/>
Storage Quota (optional)	<input type="text" value="15"/> GB
Uses Own Identity Source	<input checked="" type="checkbox"/>

4. Change the values for the fields as required.

- Change the display name for this tenant account.
- Change the setting of the **Allow Platform Services** check box to determine whether the tenant account can use platform services for their S3 buckets.



If you disable platform services for a tenant who is already using them, the services that they have configured for their S3 buckets will stop working. No error message is sent to the tenant. For example, if the tenant has configured CloudMirror replication for an S3 bucket, they can still store objects in the bucket, but copies of those objects will no longer be made in the external S3 bucket that they have configured as an endpoint.

- c. For **Storage Quota**, change the number of maximum number of gigabytes, terabytes, or petabytes available for this tenant's objects, or leave the 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.



To monitor each tenant account's storage usage, select **Usage**. Tenant accounts can also monitor their own 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.

- d. Change the setting of the **Uses Own Identity Source** check box to determine whether the tenant account will use its own identity source or the identity source that was configured for the Grid Manager.



If the **Uses Own Identity Source** check box is:

- Disabled and checked, the tenant has already enabled its own identity source. A tenant must disable its identity source before it can use the identity source that was configured for the Grid Manager.
- Disabled and unchecked, SSO is enabled for the StorageGRID system. The tenant must use the identity source that was configured for the Grid Manager.

5. Select **Save**.

Related information

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

[Use a tenant account](#)

Deleting a tenant account

You can delete a tenant account if you want to permanently remove the tenant's access to the system.

What you'll need

- You must be signed in to the Grid Manager using a supported browser.
- You must have specific access permissions.
- You must have removed all buckets (S3), containers (Swift), and objects associated with the tenant account.

Steps

1. Select **Tenants**.

2. Select the tenant account you want to delete.

If your system includes more than 20 items, you can specify how many rows are shown on each page at one time. Use the search box to search for a tenant account by display name or tenant ID.

3. From the **Actions** drop-down, select **Remove**.

4. Select **OK**.

Related information

[Controlling administrator access to StorageGRID](#)

Managing platform services for S3 tenant accounts

If you enable platform services for S3 tenant accounts, you must configure your grid so that tenants can access the external resources necessary to use these services.

- [What platform services are](#)
- [Networking and ports for platform services](#)
- [Per-site delivery of platform services messages](#)
- [Troubleshooting platform services](#)

What platform services are

Platform services include CloudMirror replication, event notifications, and the search integration service.

These services allow tenants to use the following functionality with their S3 buckets:

- **CloudMirror replication:** The StorageGRID CloudMirror replication service is used to mirror specific objects from a StorageGRID bucket to a specified external destination.

For example, you might use CloudMirror replication to mirror specific customer records into Amazon S3 and then leverage AWS services to perform analytics on your data.



CloudMirror replication is not supported if the source bucket has S3 Object Lock enabled.

- **Notifications:** Per-bucket event notifications are used to send notifications about specific actions performed on objects to a specified external Amazon Simple Notification Service™ (SNS).

For example, you could configure alerts to be sent to administrators about each object added to a bucket, where the objects represent log files associated with a critical system event.



Although event notification can be configured on a bucket with S3 Object Lock enabled, the S3 Object Lock metadata (including Retain Until Date and Legal Hold status) of the objects will not be included in the notification messages.

- **Search integration service:** The search integration service is used to send S3 object metadata to a specified Elasticsearch index where the metadata can be searched or analyzed using the external service.

For example, you could configure your buckets to send S3 object metadata to a remote Elasticsearch

service. You could then use Elasticsearch to perform searches across buckets, and perform sophisticated analyses of patterns present in your object metadata.



Although Elasticsearch integration can be configured on a bucket with S3 Object Lock enabled, the S3 Object Lock metadata (including Retain Until Date and Legal Hold status) of the objects will not be included in the notification messages.

Platform services give tenants the ability to use external storage resources, notification services, and search or analysis services with their data. Because the target location for platform services is typically external to your StorageGRID deployment, you must decide if you want to permit tenants to use these services. If you do, you must enable the use of platform services when you create or edit tenant accounts. You must also configure your network such that the platform services messages that tenants generate can reach their destinations.

Recommendations for using platform services

Before using platform services, you must be aware of the following recommendations:

- You should not use more than 100 active tenants with S3 requests requiring CloudMirror replication, notifications, and search integration. Having more than 100 active tenants can result in slower S3 client performance.
- If an S3 bucket in the StorageGRID system has both versioning and CloudMirror replication enabled, you should also enable S3 bucket versioning for the destination endpoint. This allows CloudMirror replication to generate similar object versions on the endpoint.

Related information

[Use a tenant account](#)

[Configuring Storage proxy settings](#)

[Monitor & troubleshoot](#)

Networking and ports for platform services

If you allow an S3 tenant to use platform services, you must configure networking for the grid to ensure that platform services messages can be delivered to their destinations.

You can enable platform services for an S3 tenant account when you create or update the tenant account. If platform services are enabled, the tenant can create endpoints that serve as a destination for CloudMirror replication, event notifications, or search integration messages from its S3 buckets. These platform services messages are sent from Storage Nodes that run the ADC service to the destination endpoints.

For example, tenants might configure the following types of destination endpoints:

- A locally-hosted Elasticsearch cluster
- A local application that supports receiving Simple Notification Service (SNS) messages
- A locally-hosted S3 bucket on the same or another instance of StorageGRID
- An external endpoint, such as an endpoint on Amazon Web Services.

To ensure that platform services messages can be delivered, you must configure the network or networks containing the ADC Storage Nodes. You must ensure that the following ports can be used to send platform services messages to the destination endpoints.

By default, platform services messages are sent on the following ports:

- **80**: For endpoint URIs that begin with http
- **443**: For endpoint URIs that begin with https

Tenants can specify a different port when they create or edit an endpoint.



If a StorageGRID deployment is used as the destination for CloudMirror replication, replication messages might be received on a port other than 80 or 443. Ensure that the port being used for S3 by the destination StorageGRID deployment is specified in the endpoint.

If you use a non-transparent proxy server, you must also configure Storage proxy settings to allow messages to be sent to external endpoints, such as an endpoint on the internet.

Related information

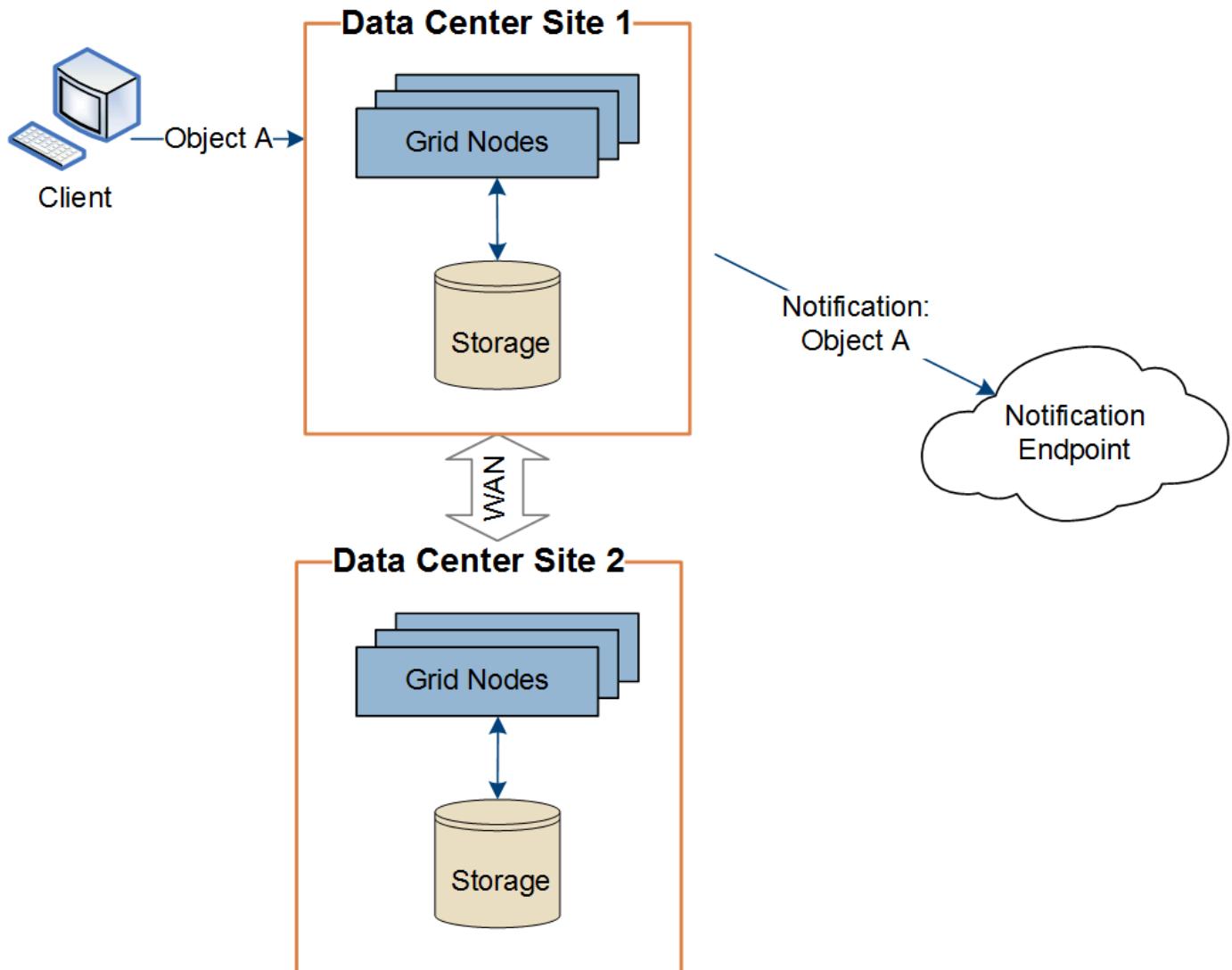
[Configuring Storage proxy settings](#)

[Use a tenant account](#)

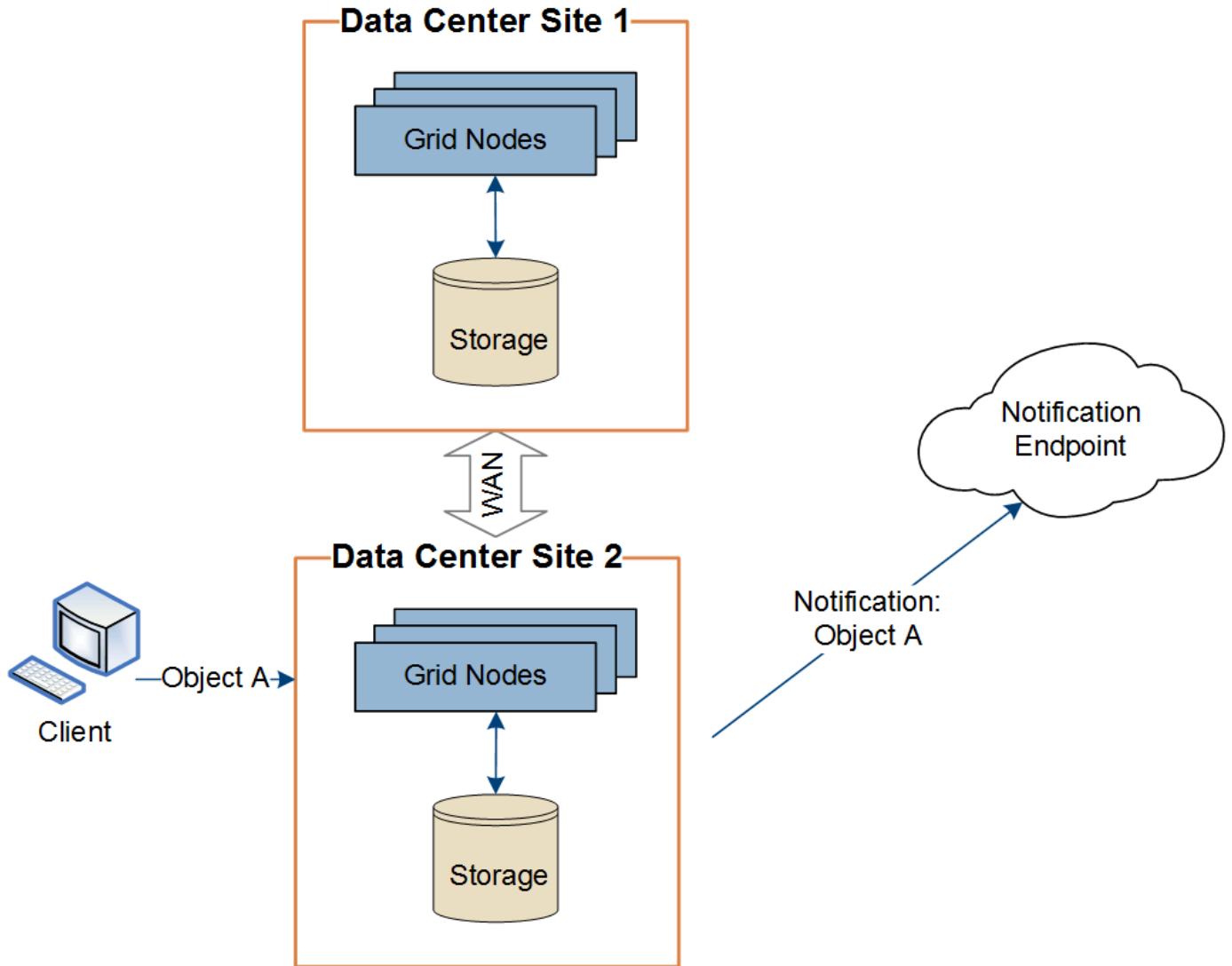
Per-site delivery of platform services messages

All platform services operations are performed on a per-site basis.

That is, if a tenant uses a client to perform an S3 API Create operation on an object by connecting to a Gateway Node at Data Center Site 1, the notification about that action is triggered and sent from Data Center Site 1.



If the client subsequently performs an S3 API Delete operation on that same object from Data Center Site 2, the notification about the delete action is triggered and sent from Data Center Site 2.



Make sure that the networking at each site is configured such that platform services messages can be delivered to their destinations.

Troubleshooting platform services

The endpoints used in platform services are created and maintained by tenant users in the Tenant Manager; however, if a tenant has issues configuring or using platform services, you might be able to use the Grid Manager to help resolve the issue.

Issues with new endpoints

Before a tenant can use platform services, they must create one or more endpoints using the Tenant Manager. Each endpoint represents an external destination for one platform service, such as a StorageGRID S3 bucket, an Amazon Web Services bucket, a Simple Notification Service topic, or an Elasticsearch cluster hosted locally or on AWS. Each endpoint includes both the location of the external resource and the credentials needed to access that resource.

When a tenant creates an endpoint, the StorageGRID system validates that the endpoint exists and that it can be reached using the credentials that were specified. The connection to the endpoint is validated from one node at each site.

If endpoint validation fails, an error message explains why endpoint validation failed. The tenant user should resolve the issue, then try creating the endpoint again.



Endpoint creation will fail if platform services are not enabled for the tenant account.

Issues with existing endpoints

If an error occurs when StorageGRID tries to reach an existing endpoint, a message is displayed on the Dashboard in the Tenant Manager.

One or more endpoints have experienced an error and might not be functioning properly. Go to the [Endpoints](#) page to view the error details. The last error occurred 2 hours ago.

Tenant users can go to the Endpoints page to review the most recent error message for each endpoint and to determine how long ago the error occurred. The **Last error** column displays the most recent error message for each endpoint and indicates how long ago the error occurred. Errors that include the icon occurred within the past 7 days.

Platform services endpoints

A platform services endpoint stores the information StorageGRID needs to use an external resource as a target for a platform service (CloudMirror replication, notifications, or search integration). You must configure an endpoint for each platform service you plan to use.

One or more endpoints have experienced an error. Select the endpoint for more details about the error. Meanwhile, the platform service request will be retried automatically.

5 endpoints

[Create endpoint](#)

[Delete endpoint](#)

<input type="checkbox"/>	Display name	Last error	Type	URI	URN
<input type="checkbox"/>	my-endpoint-2	2 hours ago	Search	http://10.96.104.30:9200	urn:sgws:es:::mydomain/sveloso/_doc
<input type="checkbox"/>	my-endpoint-3	3 days ago	Notifications	http://10.96.104.202:8080/	arn:aws:sns:us-west-2::example1
<input type="checkbox"/>	my-endpoint-5	12 days ago	Notifications	http://10.96.104.202:8080/	arn:aws:sns:us-west-2::example3
<input type="checkbox"/>	my-endpoint-4		Notifications	http://10.96.104.202:8080/	arn:aws:sns:us-west-2::example2
<input type="checkbox"/>	my-endpoint-1		S3 Bucket	http://10.96.104.167:10443	urn:sgws:s3:::bucket1



Some error messages in the **Last error** column might include a logID in parentheses. A grid administrator or technical support can use this ID to locate more detailed information about the error in the `bcast.log`.

Issues related to proxy servers

If you have configured a Storage proxy between Storage Nodes and platform service endpoints, errors might occur if your proxy service does not allow messages from StorageGRID. To resolve these issues, check the

settings of your proxy server to ensure that platform service-related messages are not blocked.

Determining if an error has occurred

If any endpoint errors have occurred within the past 7 days, the Dashboard in the Tenant Manager displays an alert message. You can go the Endpoints page to see more details about the error.

Client operations fail

Some platform services issues might cause client operations on the S3 bucket to fail. For example, S3 client operations will fail if the internal Replicated State Machine (RSM) service stops, or if there are too many platform services messages queued for delivery.

To check the status of services:

1. Select **Support > Tools > Grid Topology**.
2. Select **site > Storage Node > SSM > Services**.

Recoverable and unrecoverable endpoint errors

After endpoints have been created, platform service request errors can occur for various reasons. Some errors are recoverable with user intervention. For example, recoverable errors might occur for the following reasons:

- The user's credentials have been deleted or have expired.
- The destination bucket does not exist.
- The notification cannot be delivered.

If StorageGRID encounters a recoverable error, the platform service request will be retried until it succeeds.

Other errors are unrecoverable. For example, an unrecoverable error occurs if the endpoint is deleted.

If StorageGRID encounters an unrecoverable endpoint error, the Total Events (SMTT) alarm is triggered in the Grid Manager. To view the Total Events alarm:

1. Select **Nodes**.
2. Select **site > grid node > Events**.
3. View Last Event at the top of the table.

Event messages are also listed in `/var/local/log/bycast-err.log`.

4. Follow the guidance provided in the SMTT alarm contents to correct the issue.
5. Click **Reset event counts**.
6. Notify the tenant of the objects whose platform services messages have not been delivered.
7. Instruct the tenant to re-trigger the failed replication or notification by updating the object's metadata or tags.

The tenant can resubmit the existing values to avoid making unwanted changes.

Platform services messages cannot be delivered

If the destination encounters an issue that prevents it from accepting platform services messages, the client operation on the bucket succeeds, but the platform services message is not delivered. For example, this error might happen if credentials are updated on the destination such that StorageGRID can no longer authenticate to the destination service.

If platform services messages cannot be delivered because of an unrecoverable error, the Total Events (SMTT) alarm is triggered in the Grid Manager.

Slower performance for platform service requests

StorageGRID software might throttle incoming S3 requests for a bucket if the rate at which the requests are being sent exceeds the rate at which the destination endpoint can receive the requests. Throttling only occurs when there is a backlog of requests waiting to be sent to the destination endpoint.

The only visible effect is that the incoming S3 requests will take longer to execute. If you start to detect significantly slower performance, you should reduce the ingest rate or use an endpoint with higher capacity. If the backlog of requests continues to grow, client S3 operations (such as PUT requests) will eventually fail.

CloudMirror requests are more likely to be affected by the performance of the destination endpoint because these requests typically involve more data transfer than search integration or event notification requests.

Platform service requests fail

To view the request failure rate for platform services:

1. Select **Nodes**.
2. Select **site > Platform Services**.
3. View the Request Failure Rate chart.

Data Center 1



Platform services unavailable alert

The **Platform services unavailable** alert indicates that no platform service operations can be performed at a site because too few Storage Nodes with the RSM service are running or available.

The RSM service ensures platform service requests are sent to their respective endpoints.

To resolve this alert, determine which Storage Nodes at the site include the RSM service. (The RSM service is present on Storage Nodes that also include the ADC service.) Then, ensure that a simple majority of those Storage Nodes are running and available.



If more than one Storage Node that contains the RSM service fails at a site, you lose any pending platform service requests for that site.

Additional troubleshooting guidance for platform services endpoints

For additional information about troubleshooting platform services endpoints, see the instructions for using tenant accounts.

[Use a tenant account](#)

Related information

[Monitor & troubleshoot](#)

[Configuring Storage proxy settings](#)

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