



Manage S3 buckets

StorageGRID

NetApp
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Manage S3 buckets

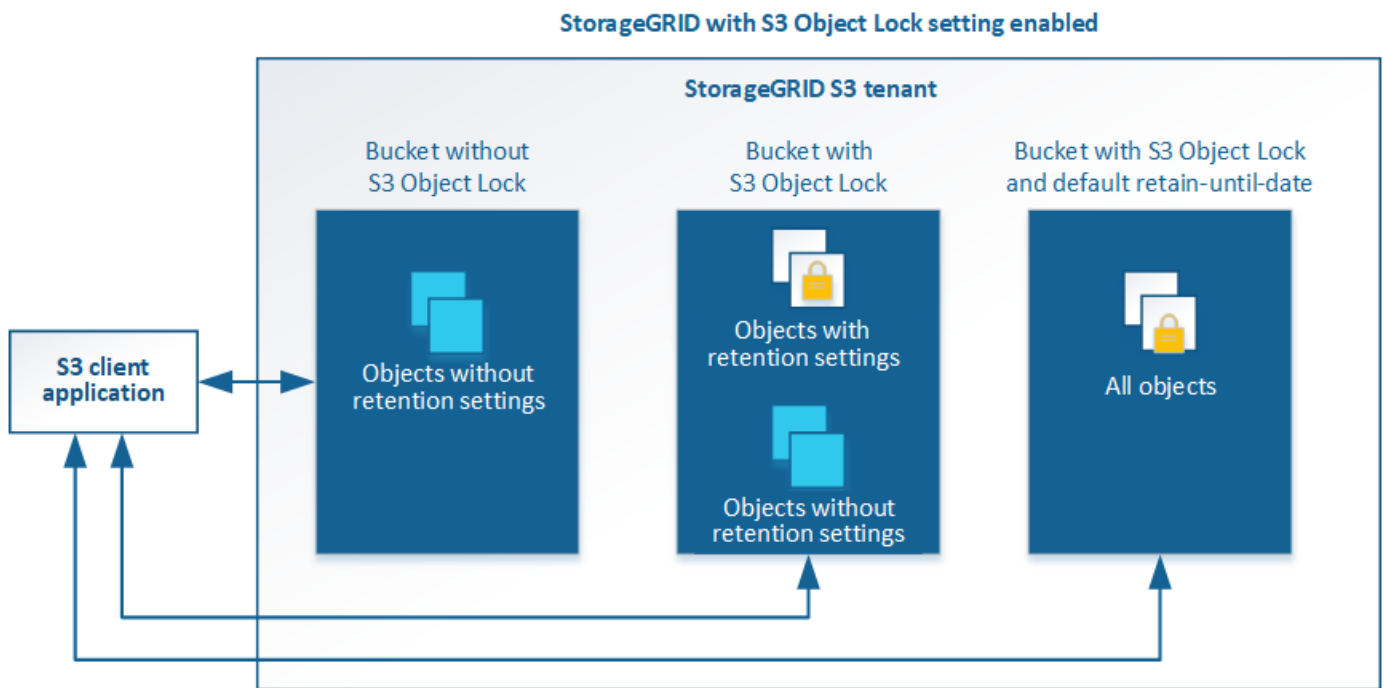
Use S3 Object Lock with tenants

You can use the S3 Object Lock feature in StorageGRID if your objects must comply with regulatory requirements for retention.

What is S3 Object Lock?

The StorageGRID S3 Object Lock feature is an object-protection solution that is equivalent to S3 Object Lock in Amazon Simple Storage Service (Amazon S3).

As shown in the figure, when the global S3 Object Lock setting is enabled for a StorageGRID system, an S3 tenant account can create buckets with or without S3 Object Lock enabled. If a bucket has S3 Object Lock enabled, S3 client applications can optionally specify retention settings for any object version in that bucket. An object version must have retention settings specified to be protected by S3 Object Lock.



The StorageGRID S3 Object Lock feature provides a single retention mode that is equivalent to the Amazon S3 compliance mode. By default, a protected object version cannot be overwritten or deleted by any user. The StorageGRID S3 Object Lock feature does not support a governance mode, and it does not allow users with special permissions to bypass retention settings or to delete protected objects.

If a bucket has S3 Object Lock enabled, the S3 client application can optionally specify either or both of the following object-level retention settings when creating or updating an object:

- **Retain-until-date:** If an object version's retain-until-date is in the future, the object can be retrieved, but it cannot be modified or deleted. As required, an object's retain-until-date can be increased, but this date cannot be decreased.
- **Legal hold:** Applying a legal hold to an object version immediately locks that object. For example, you might need to put a legal hold on an object that is related to an investigation or legal dispute. A legal hold has no expiration date, but remains in place until it is explicitly removed. Legal holds are independent of

the retain-until-date.

You can also [specify a default retention mode and default retention period for the bucket](#). These are applied to each object added to the bucket that does not specify its own retention settings.

For details on these settings, see [Use S3 object lock](#).

Manage legacy Compliant buckets

The S3 Object Lock feature replaces the Compliance feature that was available in previous StorageGRID versions. If you created compliant buckets using a previous version of StorageGRID, you can continue to manage the settings of these buckets; however, you can no longer create new compliant buckets. For instructions, see the NetApp Knowledge Base article.

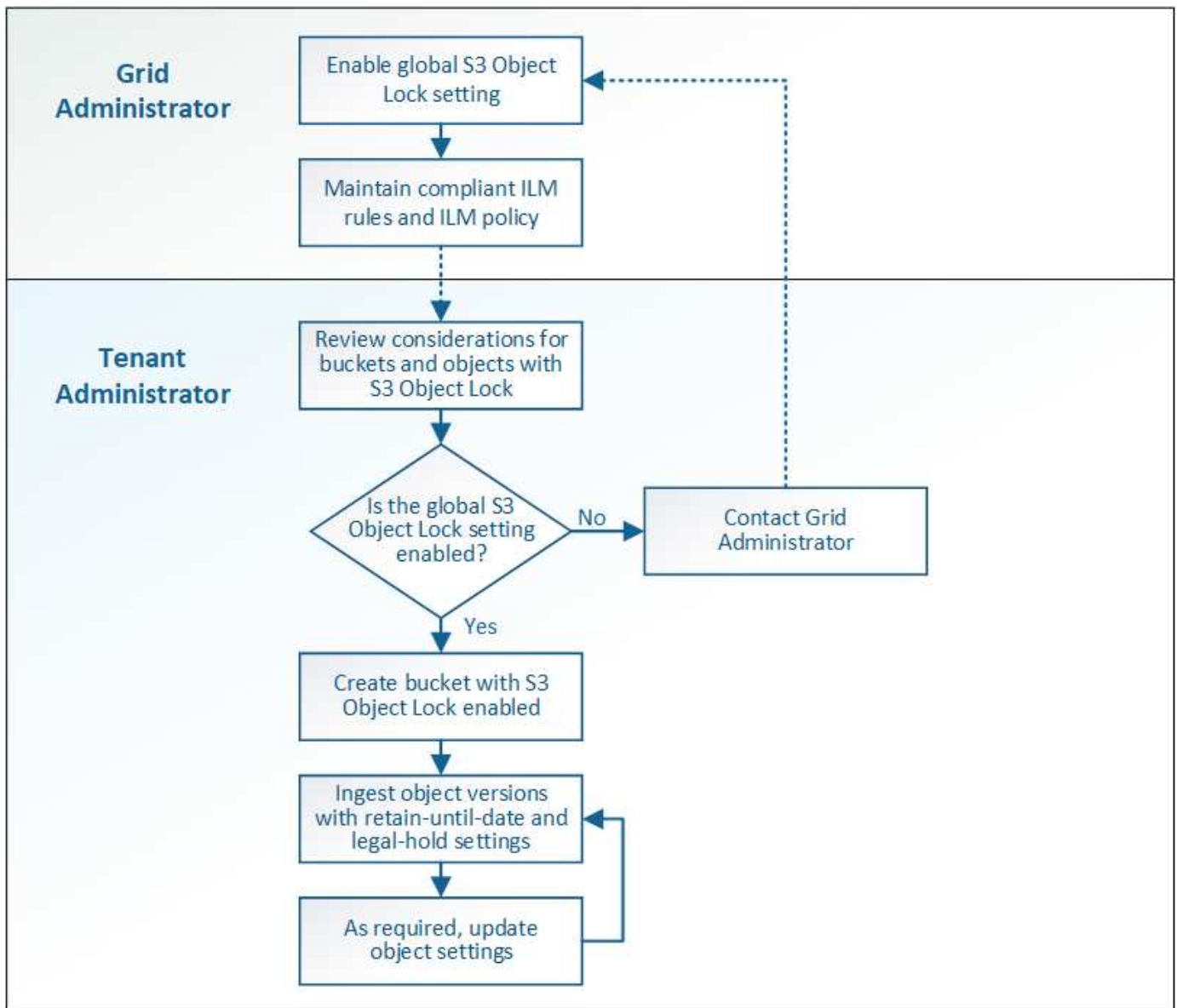
[NetApp Knowledge Base: How to manage legacy Compliant buckets in StorageGRID 11.5](#)

S3 Object Lock workflow

The workflow diagram shows the high-level steps for using the S3 Object Lock feature in StorageGRID.

Before you can create buckets with S3 Object Lock enabled, the grid administrator must enable the global S3 Object Lock setting for the entire StorageGRID system. The grid administrator must also ensure that the [information lifecycle management \(ILM\) policy](#) is “compliant”; it must meet the requirements of buckets with S3 Object Lock enabled. For details, contact your grid administrator or see the instructions for managing objects with information lifecycle management.

After the global S3 Object Lock setting has been enabled, you can create buckets with S3 Object Lock enabled. You can then use the S3 client application to optionally specify retention settings for each object version.



Requirements for S3 Object Lock

Before enabling S3 Object Lock for a bucket, review the requirements for S3 Object Lock buckets and objects and the lifecycle of objects in buckets with S3 Object Lock enabled.

Requirements for buckets with S3 Object Lock enabled

- If the global S3 Object Lock setting is enabled for the StorageGRID system, you can use the Tenant Manager, the Tenant Management API, or the S3 REST API to create buckets with S3 Object Lock enabled.

This example from the Tenant Manager shows a bucket with S3 Object Lock enabled.

Buckets

Create buckets and manage bucket settings.

1 bucket

Create bucket

Actions ▾

<input type="checkbox"/>	Name ▾	S3 Object Lock ? ▾	Region ▾	Object Count ? ▾	Space Used ? ▾	Date Created ▾
<input type="checkbox"/>	bank-records	✓	us-east-1	0	0 bytes	2021-01-06 16:53:19 MST

← Previous 1 Next →

- If you plan to use S3 Object Lock, you must enable S3 Object Lock when you create the bucket. You cannot enable S3 Object Lock for an existing bucket.
- Bucket versioning is required with S3 Object Lock. When S3 Object Lock is enabled for a bucket, StorageGRID automatically enables versioning for that bucket.
- After you create a bucket with S3 Object Lock enabled, you cannot disable S3 Object Lock or suspend versioning for that bucket.
- Optionally, you can configure default retention for a bucket. When an object version is uploaded, the default retention is applied to the object version. You can override the bucket default by specifying a retention mode and retain-until-date in the request to upload an object version.
- Bucket lifecycle configuration is supported for S3 Object Lifecycle buckets.
- CloudMirror replication is not supported for buckets with S3 Object Lock enabled.

Requirements for objects in buckets with S3 Object Lock enabled

- To protect an object version, the S3 client application must either configure bucket default retention, or specify retention settings in each upload request.
- You can increase the retain-until-date for an object version, but you can never decrease this value.
- If you are notified of a pending legal action or regulatory investigation, you can preserve relevant information by placing a legal hold on an object version. When an object version is under a legal hold, that object cannot be deleted from StorageGRID, even if it has reached its retain-until-date. As soon as the legal hold is lifted, the object version can be deleted if the retain-until-date has been reached.
- S3 Object Lock requires the use of versioned buckets. Retention settings apply to individual object versions. An object version can have both a retain-until-date and a legal hold setting, one but not the other, or neither. Specifying a retain-until-date or a legal hold setting for an object protects only the version specified in the request. You can create new versions of the object, while the previous version of the object remains locked.

Lifecycle of objects in buckets with S3 Object Lock enabled

Each object that is saved in a bucket with S3 Object Lock enabled goes through three stages:

1. Object ingest

- When adding an object version to a bucket with S3 Object Lock enabled, the S3 client application can optionally specify retention settings for the object (retain-until-date, legal hold, or both). StorageGRID

then generates metadata for that object, which includes a unique object identifier (UUID) and the ingest date and time.

- After an object version with retention settings is ingested, its data and S3 user-defined metadata cannot be modified.
- StorageGRID stores the object metadata independently of the object data. It maintains three copies of all object metadata at each site.

2. Object retention

- Multiple copies of the object are stored by StorageGRID. The exact number and type of copies and the storage locations are determined by the compliant rules in the active ILM policy.

3. Object deletion

- An object can be deleted when its retain-until-date is reached.
- An object that is under a legal hold cannot be deleted.

Create S3 bucket

You can use the Tenant Manager to create S3 buckets for object data. When you create a bucket, you must specify the bucket's name and region. If the global S3 Object Lock setting is enabled for the StorageGRID system, you can optionally enable S3 Object Lock for the bucket.

What you'll need

- You are signed in to the Tenant Manager using a [supported web browser](#).
- You belong to a user group that has the Manage All Buckets or the Root Access permission. These permissions override the permissions settings in group or bucket policies.



Permissions to set or modify S3 Object Lock properties of buckets or objects can be granted by [bucket policy](#) or [group policy](#).

- If you plan to create a bucket with S3 Object Lock, you have enabled the global S3 Object Lock setting for the StorageGRID system, and you have reviewed the requirements for S3 Object Lock buckets and objects.

[Use S3 Object Lock](#)

Steps

1. Select **STORAGE (S3) > Buckets**.
2. Select **Create bucket**.

Create bucket

1

Enter details

2

Manage object settings
Optional

Enter bucket details

Enter the bucket's name and select the bucket's region.

Bucket name ?

Region ?

us-east-1

Cancel

Continue

3. Enter a unique name for the bucket.



You cannot change the bucket name after creating the bucket.

Bucket names must comply with these rules:

- Must be unique across each StorageGRID system (not just unique within the tenant account).
- Must be DNS compliant.
- Must contain at least 3 and no more than 63 characters.
- Each label must start and end with a lowercase letter or a number and can only use lowercase letters, numbers, and hyphens.
- Should not use periods in virtual hosted style requests. Periods will cause problems with server wildcard certificate verification.



For more information, see the [Amazon Web Services \(AWS\) documentation on bucket naming rules](#).

4. Select the region for this bucket.

Your StorageGRID administrator manages the available regions. A bucket's region can affect the data-protection policy applied to objects. By default, all buckets are created in the `us-east-1` region.



You cannot change the region after creating the bucket.

5. Select **Continue**.

6. Optionally, enable object versioning for the bucket.

Enable object versioning if you want to store every version of each object in this bucket. You can then retrieve previous versions of an object as needed.

7. If the S3 Object Lock section appears, optionally enable S3 Object Lock for the bucket.



You cannot enable or disable S3 Object Lock after creating the bucket.

The S3 Object Lock section appears only if the global S3 Object Lock setting is enabled.

S3 Object Lock must be enabled for the bucket before an S3 client application can specify retain-until-date and legal hold settings for the objects added to the bucket.

If you enable S3 Object Lock for a bucket, bucket versioning is enabled automatically. You can also [specify a default retention mode and default retention period for the bucket](#) that are applied to each object ingested to the bucket that does not specify its own retention settings.

8. Select **Create bucket**.

The bucket is created and added to the table on the Buckets page.

Related information

[Manage objects with ILM](#)

[Understand Tenant Management API](#)

[Use S3](#)

View S3 bucket details

You can view a list of the buckets and bucket settings in your tenant account.

What you'll need

- You must be signed in to the Tenant Manager using a [supported web browser](#).

Steps

1. Select **STORAGE (S3) > Buckets**.

The Buckets page appears and lists all buckets for the tenant account.

Buckets

Create buckets and manage bucket settings.

3 buckets Create bucket

Actions Experimental S3 Console

<input type="checkbox"/>	Name	S3 Object Lock	Region	Object Count	Space Used	Date Created
<input type="checkbox"/>	bucket-01a	✓	us-east-1	0	0 bytes	2022-01-06 13:48:08 MST
<input type="checkbox"/>	bucket-02a	✓	us-east-1	0	0 bytes	2022-01-06 13:48:26 MST
<input type="checkbox"/>	bucket-03a		us-east-1	0	0 bytes	2022-01-06 13:48:38 MST

2. Review the information for each bucket.

As required, you can sort the information by any column, or you can page forward and back through the list.

- Name: The bucket's unique name, which cannot be changed.
- S3 Object Lock: Whether S3 Object Lock is enabled for this bucket.

This column is not displayed if the global S3 Object lock setting is disabled. This column also shows information for any legacy Compliant buckets.

- Region: The bucket's region, which cannot be changed.
- Object Count: The number of objects in this bucket.
- Space Used: The logical size of all objects in this bucket. The logical size does not include the actual space required for replicated or erasure-coded copies or for object metadata.
- Date Created: The date and time the bucket was created.



The Object Count and Space Used values displayed are estimates. These estimates are affected by the timing of ingests, network connectivity, and node status. If buckets have versioning enabled, deleted object versions are included in the object count.

3. To view and manage the settings for a bucket, select the bucket name.

The bucket details page allows you to view and edit the settings for bucket options, bucket access, and [platform services](#).

Buckets > bucket-01

Overview

Name: **bucket-01**

Region: **us-east-1**

Date created: **2021-11-30 09:55:55 MST**

[View bucket contents in Experimental S3 Console](#)

Bucket options [Bucket access](#) [Platform services](#)

Consistency level	Read-after-new-write (default)	▼
Last access time updates	Disabled	▼
Object versioning	Enabled	▼
S3 Object Lock	Disabled	▼

Change the consistency level

If you are using an S3 tenant, you can use the Tenant Manager or the Tenant Management API to change the consistency control for operations performed on the objects in S3 buckets.

What you'll need

- You must be signed in to the Tenant Manager using a [supported web browser](#).
- You must belong to a user group that has the Manage All Buckets or the Root Access permission. These permissions override the permissions settings in group or bucket policies. See [Tenant management permissions](#).

About this task

Consistency level makes a trade-off between the availability of the objects and the consistency of those objects across different Storage Nodes and sites. In general, you should use the **Read-after-new-write** consistency level for your buckets. If the **Read-after-new-write** consistency level does not meet the client application's requirements, you can change the consistency level by setting the bucket consistency level or by using the `Consistency-Control` header. The `Consistency-Control` header overrides the bucket consistency level.



When you change a bucket's consistency level, only those objects that are ingested after the change are guaranteed to meet the revised level.

Steps

1. Select **STORAGE (S3) > Buckets**.
2. Select the bucket name from the list.

The bucket details page appears.

3. Select **Bucket options > Consistency level**.
4. Select a consistency level for operations performed on the objects in this bucket.

Consistency level	Description
All	All nodes receive the data immediately, or the request will fail.
Strong-global	Guarantees read-after-write consistency for all client requests across all sites.
Strong-site	Guarantees read-after-write consistency for all client requests within a site.
Read-after-new-write (Default)	<p>Provides read-after-write consistency for new objects and eventual consistency for object updates. Offers high availability, and data protection guarantees. Most closely matches Amazon S3 consistency guarantees.</p> <p>Note: If your application attempts HEAD or GET operations on keys that do not exist, set the Consistency Level to Available, unless you require Amazon S3 consistency guarantees. Otherwise, a high number of 500 Internal Server errors can result if one or more Storage Nodes are unavailable.</p>
Available (eventual consistency for HEAD or GET operations)	Behaves the same as the Read-after-new-write consistency level, but provides eventual consistency for HEAD and GET operations. Offers higher availability for HEAD and GET operations than Read-after-new-write if Storage Nodes are unavailable. Differs from Amazon S3 consistency guarantees for HEAD and GET operations.

5. Select **Save changes**.

Enable or disable last access time updates

When grid administrators create the information lifecycle management (ILM) rules for a StorageGRID system, they can optionally specify that an object's last access time be used to determine whether to move that object to a different storage location. If you are using an S3 tenant, you can take advantage of such rules by enabling last access time updates for the objects in an S3 bucket.

These instructions only apply to StorageGRID systems that include at least one ILM rule that uses the **Last Access Time** option in its placement instructions. You can ignore these instructions if your StorageGRID system does not include such a rule.

What you'll need

- You must be signed in to the Tenant Manager using a [supported web browser](#).
- You must belong to a user group that has the Manage All Buckets or the Root Access permission. These permissions override the permissions settings in group or bucket policies. See [Tenant management](#)

[permissions](#).

Last Access Time is one of the options available for the **Reference Time** placement instruction for an ILM rule. Setting the Reference Time for a rule to Last Access Time lets grid administrators specify that objects be placed in certain storage locations based on when those objects were last retrieved (read or viewed).

For example, to ensure that recently viewed objects remain on faster storage, a grid administrator can create an ILM rule specifying the following:

- Objects that have been retrieved in the past month should remain on local Storage Nodes.
- Objects that have not been retrieved in the past month should be moved to an off-site location.



See the instructions for managing objects with information lifecycle management.

By default, updates to last access time are disabled. If your StorageGRID system includes an ILM rule that uses the **Last Access Time** option and you want this option to apply to objects in this bucket, you must enable updates to last access time for the S3 buckets specified in that rule.



Updating the last access time when an object is retrieved can reduce StorageGRID performance, especially for small objects.

A performance impact occurs with last access time updates because StorageGRID must perform these additional steps every time objects are retrieved:

- Update the objects with new timestamps
- Add the objects to the ILM queue, so they can be reevaluated against current ILM rules and policy

The table summarizes the behavior applied to all objects in the bucket when last access time is disabled or enabled.

Type of request	Behavior if last access time is disabled (default)		Behavior if last access time is enabled	
	Last access time updated?	Object added to ILM evaluation queue?	Last access time updated?	Object added to ILM evaluation queue?
Request to retrieve an object, its access control list, or its metadata	No	No	Yes	Yes
Request to update an object's metadata	Yes	Yes	Yes	Yes
Request to copy an object from one bucket to another	<ul style="list-style-type: none">• No, for the source copy• Yes, for the destination copy	<ul style="list-style-type: none">• No, for the source copy• Yes, for the destination copy	<ul style="list-style-type: none">• Yes, for the source copy• Yes, for the destination copy	<ul style="list-style-type: none">• Yes, for the source copy• Yes, for the destination copy

Request to complete a multipart upload	Yes, for the assembled object	Yes, for the assembled object	Yes, for the assembled object	Yes, for the assembled object
--	-------------------------------	-------------------------------	-------------------------------	-------------------------------

Steps

1. Select **STORAGE (S3) > Buckets**.
2. Select the bucket name from the list.

The bucket details page appears.

3. Select **Bucket options > Last access time updates**.
4. Select the appropriate radio button to enable or disable last access time updates.

Bucket options **Bucket access** **Platform services**

Consistency level Read-after-new-write (default)

Last access time updates Disabled

Enable or disable last access time updates for the objects in this bucket.

When last access time updates are disabled, the following behavior applies to objects in the bucket:

- Requests to retrieve an object, its access control list, or its metadata do not update the object's last access time. The object is not added to ILM evaluation queues.
- Requests to update an object's metadata update the object's last access time. The object is added to ILM evaluation queues.
- Requests to copy an object from one bucket to another do not update the last access time for the source copy and do not add the source object to the ILM evaluation queue. However, the last access time is updated for the destination copy, and the destination object is added to ILM evaluation queues.
- A request to complete a multipart upload causes the last access time for the assembled object to be updated. The new object is added to ILM evaluation queues.

Updating the last access time when an object is retrieved can reduce performance, especially for small objects.

☐ Enable last access time updates when retrieving an object

☒ Disable last access time updates when retrieving an object

Save changes

5. Select **Save changes**.

Related information

[Tenant management permissions](#)

[Manage objects with ILM](#)

Change object versioning for a bucket

If you are using an S3 tenant, you can use the Tenant Manager or the Tenant Management API to change the versioning state for S3 buckets.

What you'll need

- You are signed in to the Tenant Manager using a [supported web browser](#).
- You belong to a user group that has the Manage All Buckets or the Root Access permission. These permissions override the permissions settings in group or bucket policies.

[Tenant management permissions](#)

About this task

You can enable or suspend object versioning for a bucket. After you enable versioning for a bucket, it cannot return to an unversioned state. However, you can suspend versioning for the bucket.

- Disabled: Versioning has never been enabled
- Enabled: Versioning is enabled
- Suspended: Versioning was previously enabled and is suspended

[S3 object versioning](#)

[ILM rules and policies for S3 versioned objects \(Example 4\)](#)

Steps

1. Select **STORAGE (S3) > Buckets**.
2. Select the bucket name from the list.
3. Select **Bucket options > Object versioning**.

Bucket options

Bucket access

Platform services

Consistency level

Read-after-new-write (default)

▼

Last access time updates

Disabled

▼

Object versioning

Enabled

▲

Enable object versioning if you want to store every version of each object in this bucket. You can then retrieve a previous object version to recover from an error.

After versioning is enabled, you can optionally suspend versioning for the bucket. New object versions are no longer created, but you can still retrieve any existing object versions.

☒ Enable versioning

☐ Suspend versioning

Save changes

4. Select a versioning state for the objects in this bucket.



If S3 Object Lock or legacy compliance is enabled, the **Object versioning** options are disabled.

Option	Description
Enable versioning	<p>Enable object versioning if you want to store every version of each object in this bucket. You can then retrieve previous versions of an object as needed.</p> <p>Objects that were already in the bucket will be versioned when they are modified by a user.</p>
Suspend versioning	Suspend object versioning if you no longer want new object versions to be created. You can still retrieve any existing object versions.

5. Select **Save changes**.

Configure Cross-Origin Resource Sharing (CORS)

You can configure Cross-Origin Resource Sharing (CORS) for an S3 bucket if you want that bucket and objects in that bucket to be accessible to web applications in other domains.

What you'll need

- You must be signed in to the Tenant Manager using a [supported web browser](#).
- You must belong to a user group that has the Manage All Buckets or the Root Access permission. These permissions override the permissions settings in group or bucket policies.

About this task

Cross-Origin Resource Sharing (CORS) is a security mechanism that allows client web applications in one domain to access resources in a different domain. For example, suppose you use an S3 bucket named `Images` to store graphics. By configuring CORS for the `Images` bucket, you can allow the images in that bucket to be displayed on the website <http://www.example.com>.

Steps

1. Use a text editor to create the XML required to enable CORS.

This example shows the XML used to enable CORS for an S3 bucket. This XML allows any domain to send GET requests to the bucket, but it only allows the `http://www.example.com` domain to send POST and DELETE requests. All request headers are allowed.

```
<CORSConfiguration
  xmlns="http://s3.amazonaws.com/doc/2020-10-22/">
  <CORSRule>
    <AllowedOrigin>*</AllowedOrigin>
    <AllowedMethod>GET</AllowedMethod>
    <AllowedHeader>*</AllowedHeader>
  </CORSRule>
  <CORSRule>
    <AllowedOrigin>http://www.example.com</AllowedOrigin>
    <AllowedMethod>GET</AllowedMethod>
    <AllowedMethod>POST</AllowedMethod>
    <AllowedMethod>DELETE</AllowedMethod>
    <AllowedHeader>*</AllowedHeader>
  </CORSRule>
</CORSConfiguration>
```

For more information about the CORS configuration XML, see [Amazon Web Services \(AWS\) Documentation: Amazon Simple Storage Service Developer Guide](#).

2. In the Tenant Manager, select **STORAGE (S3) > Buckets**.
3. Select the bucket name from the list.

The bucket details page appears.

4. Select **Bucket access > Cross-Origin Resource Sharing (CORS)**.
5. Select the **Enable CORS** check box.
6. Paste the CORS configuration XML into the text box, and select **Save changes**.

Bucket options

Bucket access

Platform services

Cross-Origin Resource Sharing (CORS)

Disabled

Configure Cross-Origin Resource Sharing (CORS) for an S3 bucket if you want that bucket and objects in that bucket to be accessible to web applications in other domains.

☒ Enable CORS

Clear

```

<CORSConfiguration
  xmlns="http://s3.amazonaws.com/doc/2020-10-22/">
  <CORSRule>
    <AllowedOrigin>*</AllowedOrigin>
    <AllowedMethod>GET</AllowedMethod>
    <AllowedHeader>*</AllowedHeader>
  </CORSRule>
  <CORSRule>
    <AllowedOrigin>http://www.example.com</AllowedOrigin>
    <AllowedMethod>GET</AllowedMethod>
    <AllowedMethod>POST</AllowedMethod>
    <AllowedMethod>DELETE</AllowedMethod>
  </CORSRule>
</CORSConfiguration>

```

Save changes

- To modify the CORS setting for the bucket, update the CORS configuration XML in the text box or select **Clear** to start over. Then select **Save changes**.
- To disable CORS for the bucket, unselect the **Enable CORS** check box, and then select **Save changes**.

Delete S3 bucket

You can use the Tenant Manager to delete one or more S3 buckets that are empty.

What you'll need

- You must be signed in to the Tenant Manager using a [supported web browser](#).
- You must belong to a user group that has the Manage All Buckets or the Root Access permission. These permissions override the permissions settings in group or bucket policies. See [Tenant management permissions](#).
- The buckets you want to delete are empty.

About this task

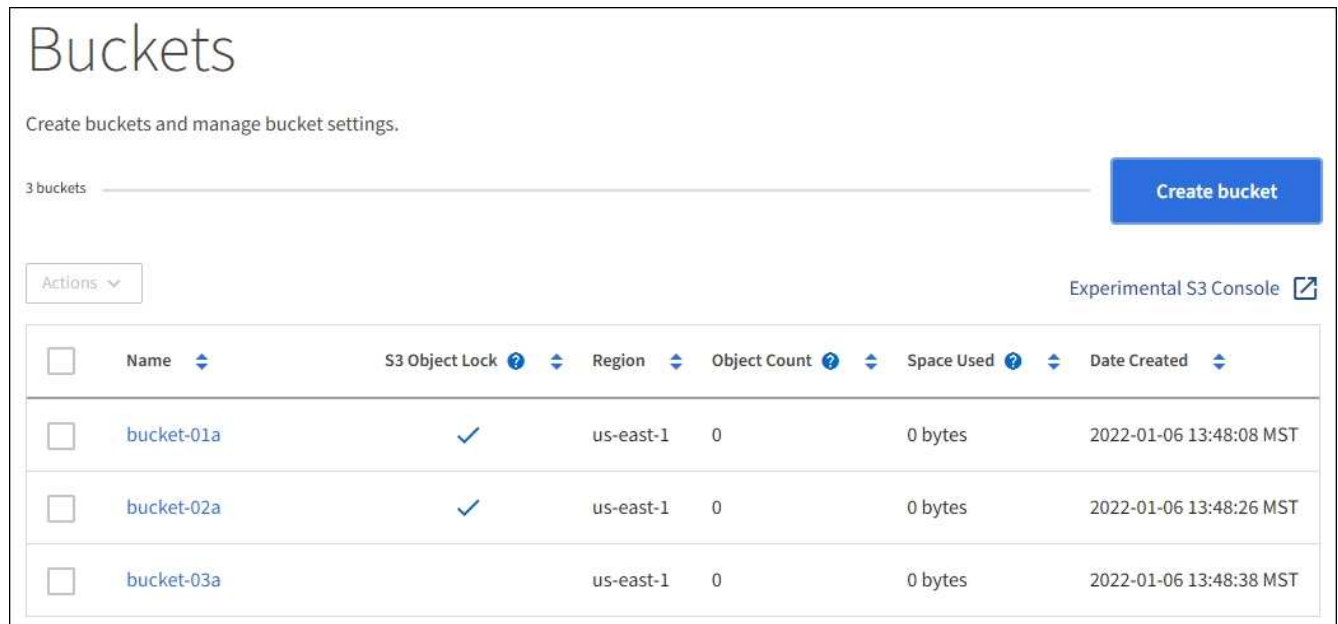
These instructions describe how to delete an S3 bucket using the Tenant Manager. You can also delete S3 buckets using the [Tenant Management API](#) or the [S3 REST API](#).

You cannot delete an S3 bucket if it contains objects or noncurrent object versions. For information about how S3 versioned objects are deleted, see the [instructions for managing objects with information lifecycle management](#).

Steps

1. Select **STORAGE (S3) > Buckets**.

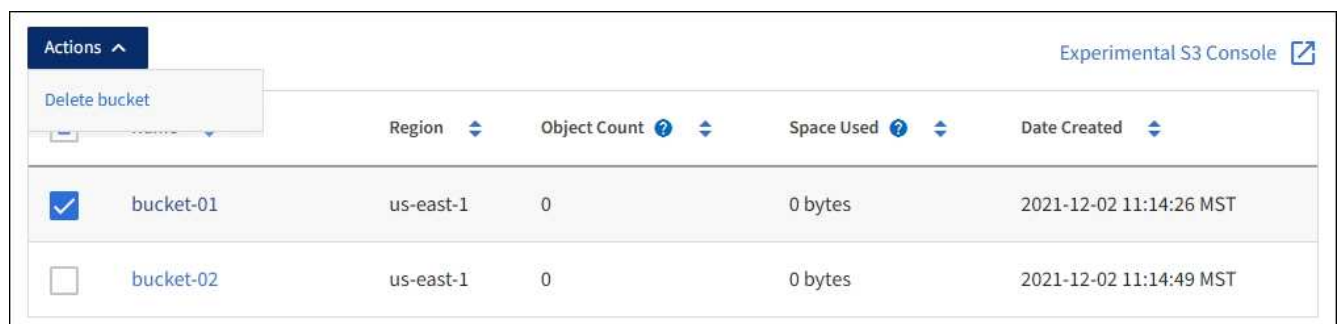
The Buckets page appears and shows all existing S3 buckets.



2. Select the check box for the empty bucket you want to delete. You can select more than one bucket at a time.

The Actions menu is enabled.

3. From the Actions menu, select **Delete bucket** (or **Delete buckets** if you have chosen more than one).



4. When the confirmation dialog box appears, select **Yes** to delete all of the buckets you have chosen.

StorageGRID confirms that each bucket is empty and then deletes each bucket. This operation might take a few minutes.

If a bucket is not empty, an error message appears. You must delete all objects before you can delete a bucket.

Use Experimental S3 Console

You can use S3 Console to view the objects in an S3 bucket.

You can also use S3 Console to do the following:

- Add and delete objects, object versions, and folders
- Rename objects
- Move and copy objects between buckets and folders
- Manage object tags
- View object metadata
- Download objects




S3 Console has not been fully tested and is marked as “experimental.” It is not intended for bulk management of objects or for use in a production environment. Tenants should only use S3 Console when performing functions for a small number of objects, such as when uploading objects to simulate a new ILM policy, troubleshooting ingest issues, or using proof-of-concept or non-production grids.

What you'll need

- You are signed in to the Tenant Manager using a [supported web browser](#).
- You have the Manage Your Own S3 Credentials permission.
- You have created a bucket.
- You know the user's access key ID and secret access key. Optionally, you have a `.csv` file containing this information. See the [instructions for creating access keys](#).

Steps

1. Select **Buckets**.
2. Select [Experimental S3 Console](#) . You can also access this link from the bucket details page.
3. On the Experimental S3 Console sign-in page, paste the access key ID and secret access key into the fields. Otherwise, select **Upload access keys** and select your `.csv` file.
4. Select **Sign in**.
5. Manage objects as needed.



Buckets > bucket-01

bucket-01

Upload

New folder

Refresh

Actions

Search by prefix



<input type="checkbox"/>	Name	Logical space used	Last modified on
<input type="checkbox"/>	03_Grid_Primer_11.5.pdf	2.73 MB	2021-12-03 09:43:26 MST
<input type="checkbox"/>	04_Tenant_Users_Guide_11.5.pdf	1.07 MB	2021-12-03 09:44:24 MST
<input type="checkbox"/>	06_Tenant_Users_Guide_11.5.pdf	1.25 MB	2021-12-03 09:44:27 MST
<input type="checkbox"/>	08_Tenant_Users_Guide_11.5.pdf	1.25 MB	2021-12-03 09:44:27 MST
<input type="checkbox"/>	09_Tenant_Users_Guide_11.5.pdf	1.25 MB	2021-12-03 09:44:26 MST
<input type="checkbox"/>	10_Grid_Primer_11.5.pdf	2.8 MB	2021-12-03 09:43:27 MST

Select an object or folder to view its details.

Displaying 16 objects

Selected 0 objects

|< < Previous 1 Next > >|

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