

S3 Bucket Versioning

Problem Statement:

You work for TechArkit Corporation. Their application requires a storage service that can store files and publicly share them if required. Implement S3 for the same.

Tasks to Be Performed:

1. Enable versioning for the bucket created in task 1.
2. Re-upload any 2 files already uploaded to verify if versioning works.

For Video Answers watch this

Answer

Login to your AWS Management console, search for S3 service

Amazon S3 > Buckets > Create bucket

Create bucket [Info](#)

Buckets are containers for data stored in S3. [Learn more](#)

General configuration

Bucket name

ravifilestorage

Bucket name must be unique within the global namespace and follow the bucket naming rules. [See rules for bucket naming](#)

AWS Region

US East (N. Virginia) us-east-1

Copy settings from existing bucket - *optional*
Only the bucket settings in the following configuration are copied.

Choose bucket

Object Ownership [Info](#)

Control ownership of objects written to this bucket from other AWS accounts and the use of access control lists (ACLs). Object ownership determines who can specify access to objects.

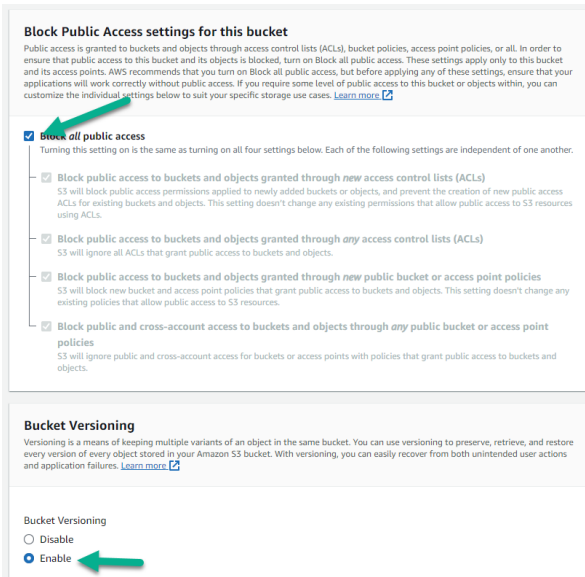
☒ **Object ownership disabled (recommended)**
All objects in this bucket are owned by this account. Access to this bucket and its objects is specified using only policies.

☐ **ACLs enabled**
Objects in this bucket can be owned by other AWS accounts. Access to this bucket and its objects can be specified using ACLs.

Object Ownership
Bucket owner enforced

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Provide the S3 bucket name it should be a unique name otherwise bucket will give you an error



Block Public Access settings for this bucket

Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to this bucket and its objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to this bucket or objects within, you can customize the individual settings below to suit your specific storage use cases. [Learn more](#)

☒ **Block all public access**
Turning this setting on is the same as turning on all four settings below. Each of the following settings are independent of one another.

- ☒ **Block public access to buckets and objects granted through *new* access control lists (ACLs)**
S3 will block public access permissions applied to newly added buckets or objects, and prevent the creation of new public access ACLs for existing buckets and objects. This setting doesn't change any existing permissions that allow public access to S3 resources using ACLs.
- ☒ **Block public access to buckets and objects granted through *any* access control lists (ACLs)**
S3 will ignore all ACLs that grant public access to buckets and objects.
- ☒ **Block public access to buckets and objects granted through *new* public bucket or access point policies**
S3 will block new bucket and access point policies that grant public access to buckets and objects. This setting doesn't change any existing policies that allow public access to S3 resources.
- ☒ **Block public and cross-account access to buckets and objects through *any* public bucket or access point policies**
S3 will ignore public and cross-account access for buckets or access points with policies that grant public access to buckets and objects.

Bucket Versioning

Versioning is a means of keeping multiple variants of an object in the same bucket. You can use versioning to preserve, retrieve, and restore every version of every object stored in your Amazon S3 bucket. With versioning, you can easily recover from both unintended user actions and application failures. [Learn more](#)

Bucket Versioning

☐ Disable

☒ Enable

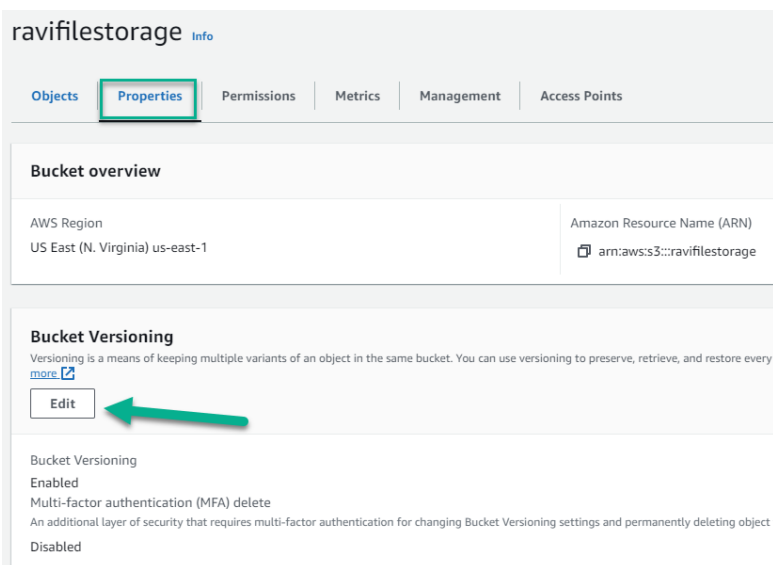
By default **Block all public access** is ticked do not uncheck unless you need a bucket to be public.

Select ☒ Enable Versioning.

Click on **“Create Bucket”**

In case if you already have the bucket, click on the bucket name then it will go into the bucket properties

Click on Edit (Bucket Versioning)



ravifilestorage [Info](#)

[Objects](#) **[Properties](#)** [Permissions](#) [Metrics](#) [Management](#) [Access Points](#)

Bucket overview

AWS Region	Amazon Resource Name (ARN)
US East (N. Virginia) us-east-1	arn:aws:s3:::ravifilestorage

Bucket Versioning

Versioning is a means of keeping multiple variants of an object in the same bucket. You can use versioning to preserve, retrieve, and restore every [more](#)

[Edit](#)

Bucket Versioning

Enabled

Multi-factor authentication (MFA) delete

An additional layer of security that requires multi-factor authentication for changing Bucket Versioning settings and permanently deleting object v

Disabled

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Amazon S3 > Buckets > ravfilestorage > Edit Bucket Versioning

Edit Bucket Versioning [Info](#)

Bucket Versioning

Versioning is a means of keeping multiple variants of an object in the same bucket. You can use versioning to preserve, retrieve, and restore every version of every object stored in your Amazon S3 bucket. With versioning, you can easily recover from both unintended user actions and application failures. [Learn more](#)

Bucket Versioning

☐ Suspend
This suspends the creation of object versions for all operations but preserves any existing object versions.

☒ **Enable**

Multi-factor authentication (MFA) delete

An additional layer of security that requires multi-factor authentication for changing Bucket Versioning settings and permanently deleting object versions. To modify MFA delete settings, use the AWS CLI, AWS SDK, or the Amazon S3 REST API. [Learn more](#)

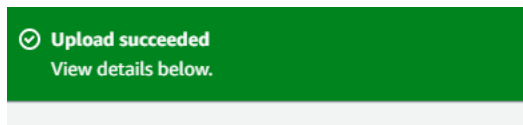
Disabled

[Cancel](#) [Save changes](#)

Once you enable the versioning you can't disable, you can suspend the versioning.

Select **Enable** then Click **"Save Changes"**

Now upload the objects to bucket



I have uploaded a simple text file successfully

ravfilestorage [Info](#)

[Objects](#) [Properties](#) [Permissions](#) [Metrics](#) [Management](#) [Access Points](#)

Objects (1)

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 Inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant permissions.

[Refresh](#) [Copy S3 URI](#) [Copy URL](#) [Download](#) [Open](#) [Delete](#) [Actions](#) [Create folder](#) [Upload](#)

☒ **Show versions**

<input type="checkbox"/>	Name	Type	Version ID	Last modified
<input type="checkbox"/>	S3Bucket_Test_by_Techarkit.txt	txt	67JHwlyOi 0WiF61FTk 0R6mdmkS gIpD	September 25, 2023, 14:23

Slide the show versions button to see the multiple versions of the same object

<https://www.youtube.com/@TechArkit/videos> For more videos and courses

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Info

Objects

Properties

Permissions

Metrics

Management

Access Points

Objects (2)

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

Copy S3 URI

Copy URL

Download

Open

Delete

Actions

Create folder

Upload

Find objects by prefix

Show versions

<input type="checkbox"/>	Name	Type	Version ID	Last modified	Size
<input type="checkbox"/>	S3Bucket_Test_by_Techarkit.txt	txt	CwvZ51ZnDgtYCFh8GtbZLA0ThxkhMJVF	September 25, 2023, 14:26:43 (UTC+05:30)	
<input type="checkbox"/>	S3Bucket_Test_by_Techarkit.txt	txt	67JHwItyOIOWiIF61FTKOR6mdmk5glpD	September 25, 2023, 14:23:23 (UTC+05:30)	

I have uploaded the text file with minor modifications it saved multiple versions

That's all I could able to see the versioning is working fine.