



Placement Empowerment Program Cloud Computing and DevOps Centre

create an IAM role with permissions.
Assign the role to your VM and verify its effect by attempting permitted/denied actions.

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Introduction

Amazon Simple Storage Service (S3) is a scalable object storage service offered by AWS that allows you to store and retrieve data. It's widely used for storing backups, files, images, and other data. S3 buckets act as containers for storing data, and you can configure various settings for access control, encryption, logging, and versioning.

In this guide, you'll learn how to:

- 1. Create an S3 bucket.
- 2. Upload files to the bucket.
- 3. Configure the bucket's public or private access.
- 4. Test accessibility.

Overview

- 1. S3 Buckets: Storage containers for objects.
- 2. Public Access Configuration: You can control whether your objects are publicly accessible or not.
- 3. **Bucket Policies**: Define access permissions for specific users or roles.
- 4. Public Access Block Settings: Prevent the accidental exposure of sensitive data by restricting public access.

Step-by-Step Overview

1. Create an S3 Bucket

Create Role

Attach Permissions:

Name the Role:

Using AWS CLI:

aws s3api create-bucket --bucket asmybk --region us-east-1 --create-bucket-configuration LocationConstraint=us-east-1

2. Upload Files to the S3 Bucket

Using AWS CLI:

aws s3 cp /path/to/your/file.txt s3://asmybk/

```
Bucket policy

The bucket policy, written in JSON, provides access to the object

{

"Version": "2012-10-17",

"Statement": [

{

"Sid": "PublicReadGetObject",

"Effect": "Allow",

"Principal": "*",

"Action": "s3:GetObject",

"Resource": "arn:aws:s3:::asmybk/*"

}

]

}
```

Configure Bucket Access

```
{
    "Version": "2012-10-17",
    "Statement": [
        {
```

```
"Sid": "PublicReadGetObject",

"Effect": "Allow",

"Principal": "*",

"Action": "s3:GetObject",

"Resource": "arn:aws:s3:::asmybk/*"

}
```

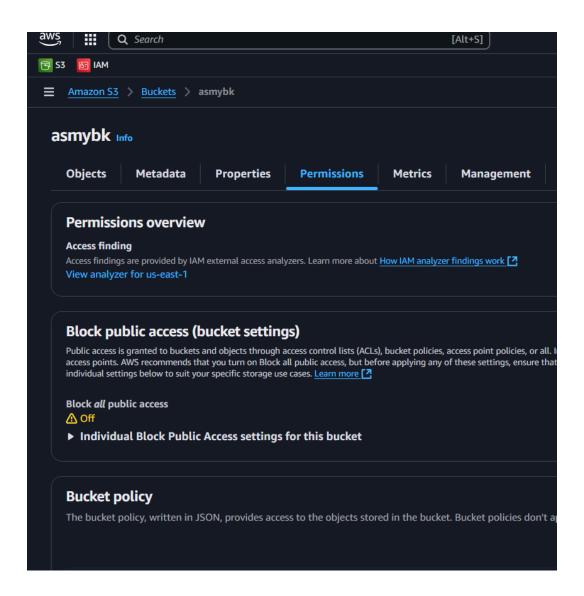
Using AWS CLI:

```
aws s3api put-bucket-policy --bucket asmybk --policy "{\"Version\":\"2012-10-17\",\"Statement\": [{\"Sid\":\"PublicReadGetObject\",\"Effect\":\"Allow\",\"Principal\":\"*\",\"Action\":\"s3:GetObject\",\"Resource\":\"arn:aws:s3:::asmybk/*\"}]}"
```

Restrict Public Access

Go to your bucket's **Permissions** tab.

Under Block Public Access, enable Block all public access. Save the changes.



Using AWS CLI:

aws s3api put-bucket-public-access-block --bucket asmybk --public-access-block-configuration " {\"BlockPublicAcls\":true,\"IgnorePublicAcls\":true,\"BlockPublicPolicy\":true,\"RestrictPublicBuckets\":true}"

Permissions	Metrics Management	Access Points	
		⊘ Object URL Copied	
	© (□ Copy S3	URI Copy URL	<u> </u>
n 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 e			
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pdf	February 4, 2025, 06:05:13 (UTC+05:30)		

TEST IT BY COPYING THE URL AND PAST IT TO YOUR WEB

