

## Assignment-4

**Create a private bucket in AWS. Upload a file and check by presigned URL that you can access the file or not.**

### Instruction Steps

#### 1. Sign In to AWS

- Log in to the [AWS Management Console](#).
- Navigate to the **Amazon S3 service** by selecting it from the AWS services list.

#### 2. Create a Private Bucket

1. In the **S3 console**, click on **Buckets** in the left navigation pane.
  2. Select the **Create bucket** button.
  3. Provide a unique name for your bucket (e.g., myprivatebucket).
    - Ensure the name:
      - Is unique globally.
      - Has 3-63 characters, including lowercase letters, numbers, dots (.), or hyphens (-).
    - **Remark:** Avoid using dots unless hosting a static website.
  4. Select the desired **AWS Region** for your bucket.
  5. Under **Object Ownership**, choose "Bucket owner enforced" to disable ACLs and enforce bucket-level permissions.
  6. Enable the **Block Public Access settings** by checking the appropriate checkboxes.
    - **Remark:** This ensures the bucket remains private and inaccessible to the public.
  7. Click **Create bucket**.
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#### 3. Upload Files to the Bucket

1. After the bucket is created, it will appear in the bucket list. Click on your newly created bucket.
  2. In the bucket view, click **Upload**.
  3. On the upload page:
    - Click **Add files** to select the file(s) you want to upload.
    - Click **Upload** to complete the process.
  4. **Verify Upload:**
    - The uploaded files will be visible in the bucket.
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#### 4. Test File Privacy

1. Select the uploaded file and locate its **Object URL** in the file's properties.
2. Open the Object URL in a web browser.
  - **Expected Output:** You should see an "Access Denied" message, indicating the file is private.

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## 5. Create a Presigned URL

1. Go to your bucket and locate the uploaded file.
2. Select the file and click on **Actions** > **Share with presigned URL**.
3. Specify the expiration time for the presigned URL.
  - **Remark:** Choose an appropriate time based on the required access duration (e.g., 10 minutes, 1 hour).
4. Click **Create presigned URL**.

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## 6. Access the File Using the Presigned URL

1. Copy the generated presigned URL.
2. Paste the URL into a new browser tab and press Enter.
3. **Expected Output:** The file will be accessible publicly until the URL expires.

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## Additional Notes

- **Security Reminder:** Ensure that the presigned URL expiration time is minimal to reduce unauthorized access risks.
- **Bucket Management:** Regularly review bucket permissions and presigned URLs to maintain security.
- **Use Case:** Presigned URLs are ideal for temporarily sharing private files securely.