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# **PLACEMENT EMPOWERMENT PROGRAM**

## **CLOUD COMPUTING AND DEVOPS CENTRE**

**TASK 13 - Use Cloud Storage Create a storage bucket on your cloud platform and upload/download files. Configure access permissions for the bucket..**

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Introduction

Azure Storage provides a scalable, secure, and high-performance platform for managing your data. The most common storage option, **Azure Blob Storage**, is used to store unstructured data such as documents, images, and backups. Through this hands-on exercise, you'll learn how to create a storage bucket (Blob Storage), upload/download files, and configure access permissions.

## Objectives

1. Understand the process of creating an Azure Storage Account.
2. Learn how to create and configure a Blob Storage container.
3. Practice uploading and downloading files in Azure Blob Storage.
4. Configure access permissions for secure file sharing.

## Steps to Perform Hands-on Exercise

### Step 1: Set Up a Storage Account

#### 1. Log in to the Azure Portal:

- Visit [Azure Portal](#).

#### 2. Create a Storage Account:

- Search for **Storage Accounts** in the top search bar and select **+ Create**.
- Fill in the required details:
  - **Subscription**: Choose your subscription.
  - **Resource Group**: Create a new resource group or select an existing one.
  - **Storage Account Name**: Enter a unique name (e.g., storagehandson).
  - **Region**: Select a nearby region.
  - **Performance**: Choose **Standard** (cost-effective) or **Premium** (low latency).

- **Redundancy:** Select the desired redundancy level (e.g., LRS, ZRS, GRS).
- Click **Review + Create**, then **Create**.

## Step 2: Create a Blob Storage Container

### 1. Navigate to Your Storage Account:

- After deployment, click on your storage account.

### 2. Add a New Container:

- On the left menu, select **Containers** under **Data Storage**.
- Click **+ Container**.
- Provide a name for your container (e.g., myblobcontainer).
- Set **Public Access Level**:
  - **Private:** Files are only accessible by authenticated users.
  - **Blob:** Allows public access to blobs (files) but not the container.
  - **Container:** Public access to both the container and files.
- Click **Create**.

## Step 3: Upload Files to the Container

## 1. Open the Container:

- Select the newly created container.

## 2. Upload Files:

- Click **Upload**.
- Drag and drop files or browse to choose files from your computer.
- Click **Upload** to complete the process.

## Step 4: Download Files from the Container

### 1. Select a File:

- Navigate to the container and click on a file.

### 2. Download the File:

- Click **Download** to save the file locally.

## Step 5: Configure Access Permissions

### 1. Set Container Permissions:

- Go to the container, click **Access Policy**, and configure:
  - **Public Access Level:** Set to **Private**, **Blob**, or **Container**.
- Save the changes.

### 2. Generate SAS Token:

- To grant temporary or restricted access:
  - In the container, click **Shared Access Signature**.
  - Configure start/end time, permissions (e.g., read/write), and click **Generate SAS Token**.
  - Share the SAS URL to allow controlled access.

## Outcomes

1. **Hands-on Experience:** Successfully create a storage bucket and container in Azure.
2. **File Management Skills:** Upload and download files using Azure Portal.
3. **Configured Access Permissions:** Securely manage who can access your storage container.
4. **Practical Knowledge:** Learn to use Azure Blob Storage for real-world file storage and sharing scenarios.