

Placement Empowerment Program

Cloud Computing and DevOps Centre

Use Cloud CLI Tools Install the CLI for your cloud provider (e.g., AWS CLI). Use it to list resources, upload files to storage, and manage VMs.

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Step 1:

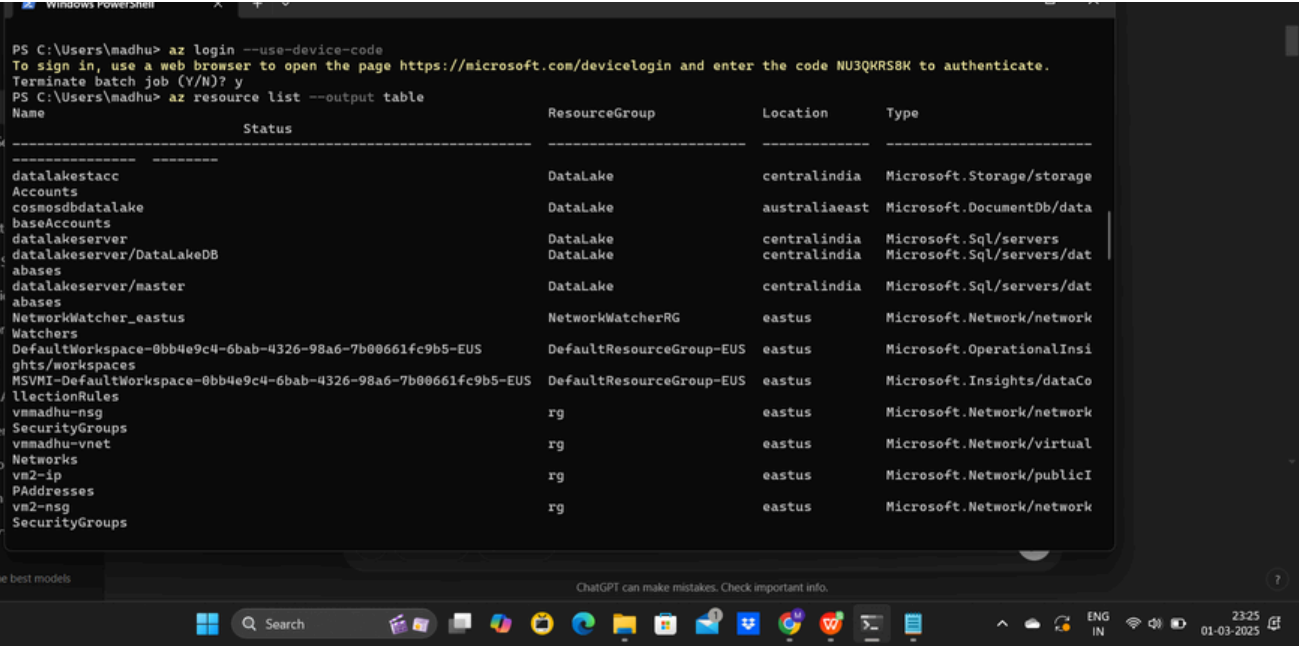
Log in to Azure CLI

Open a terminal and type:
az login

Step 2:

List Azure Resources

To see all resources in your Azure account, use:
az resource list --output table



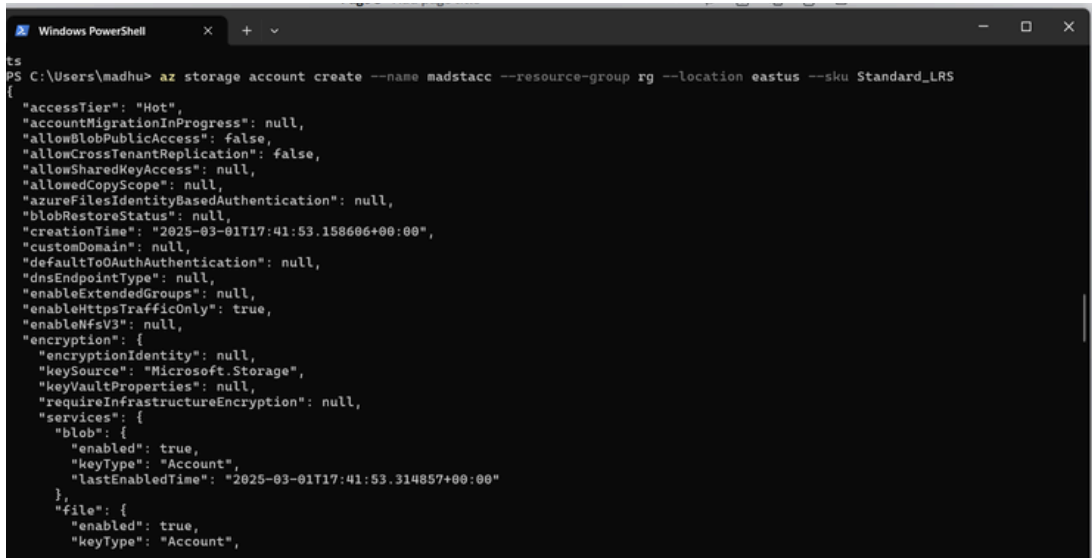
Step 3:

Upload Files to Azure Storage

1. Create a Storage Account

If you don't have a storage account yet

az storage account create --name <yourstorageaccount> --resource-group <your-resource-group> --lo



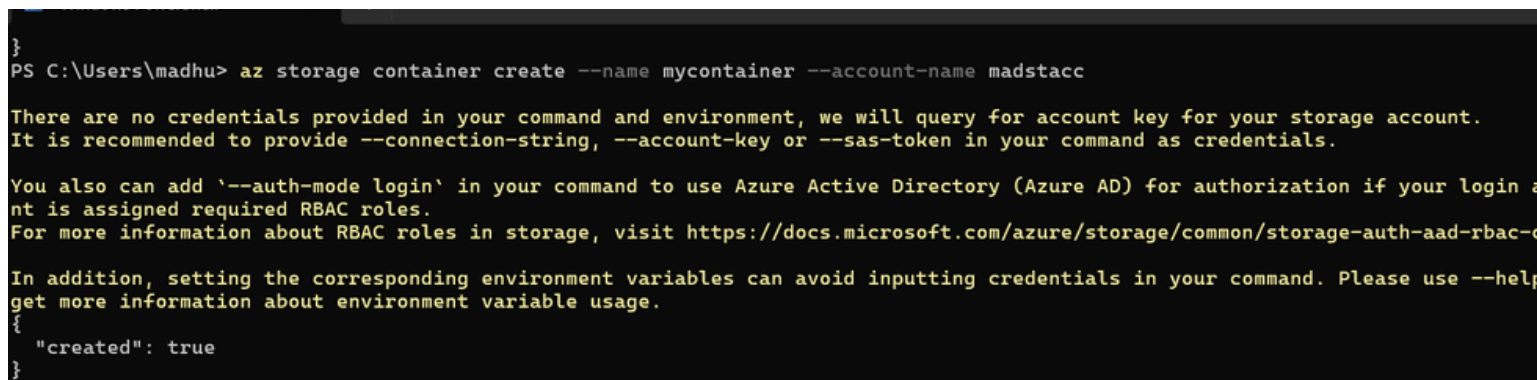
```
Windows PowerShell
PS C:\Users\madhu> az storage account create --name madstacc --resource-group rg --location eastus --sku Standard_LRS
{
  "accessTier": "Hot",
  "accountMigrationInProgress": null,
  "allowBlobPublicAccess": false,
  "allowCrossTenantReplication": false,
  "allowSharedKeyAccess": null,
  "allowedCopyScope": null,
  "azureFilesIdentityBasedAuthentication": null,
  "blobRestoreStatus": null,
  "creationTime": "2025-03-01T17:41:53.150606+00:00",
  "customDomain": null,
  "defaultToOAuthAuthentication": null,
  "dnsEndpointType": null,
  "enableExtendedGroups": null,
  "enableHttpsTrafficOnly": true,
  "enableNfsV3": null,
  "encryption": {
    "encryptionIdentity": null,
    "keySource": "Microsoft.Storage",
    "keyVaultProperties": null,
    "requireInfrastructureEncryption": null,
    "services": {
      "blob": {
        "enabled": true,
        "keyType": "Account",
        "lastEnabledTime": "2025-03-01T17:41:53.314857+00:00"
      },
      "file": {
        "enabled": true,
        "keyType": "Account",

```

Step 4:

Create a Storage Container (Blob Storage):

az storage container create --name mycontainer --account-name <yourstorageaccount>



```
PS C:\Users\madhu> az storage container create --name mycontainer --account-name madstacc
There are no credentials provided in your command and environment, we will query for account key for your storage account.
It is recommended to provide --connection-string, --account-key or --sas-token in your command as credentials.

You also can add '--auth-mode login' in your command to use Azure Active Directory (Azure AD) for authorization if your login a
nt is assigned required RBAC roles.
For more information about RBAC roles in storage, visit https://docs.microsoft.com/azure/storage/common/storage-auth-aad-rbac-c

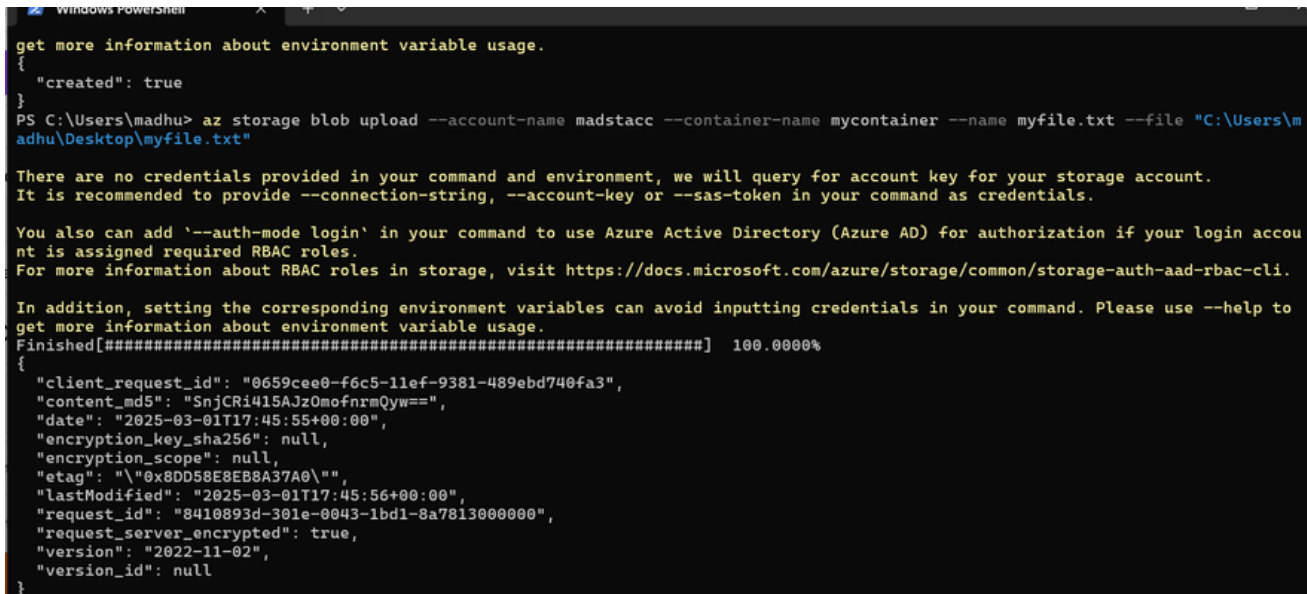
In addition, setting the corresponding environment variables can avoid inputting credentials in your command. Please use --help
get more information about environment variable usage.

{
  "created": true
}
```

Step 5:

Upload a File to Storage

```
az storage blob upload --account-name <yourstorageaccount> --container-name mycontainer --name myfile.txt --file /path/to/myfile.txt
```



```
get more information about environment variable usage.
{
  "created": true
}
PS C:\Users\madhu> az storage blob upload --account-name madstacc --container-name mycontainer --name myfile.txt --file "C:\Users\madhu\Desktop\myfile.txt"

There are no credentials provided in your command and environment, we will query for account key for your storage account.
It is recommended to provide --connection-string, --account-key or --sas-token in your command as credentials.

You also can add '--auth-mode login' in your command to use Azure Active Directory (Azure AD) for authorization if your login account is assigned required RBAC roles.
For more information about RBAC roles in storage, visit https://docs.microsoft.com/azure/storage/common/storage-auth-aad-rbac-cli.

In addition, setting the corresponding environment variables can avoid inputting credentials in your command. Please use --help to get more information about environment variable usage.
Finished[#####] 100.0000%
{
  "client_request_id": "0659cee0-f6c5-11ef-9381-489ebd740fa3",
  "content_md5": "SnjCRi415AJz0mofnrmQyw==",
  "date": "2025-03-01T17:45:55+00:00",
  "encryption_key_sha256": null,
  "encryption_scope": null,
  "etag": "\"0x8DD58E8EB8A37A0\"",
  "lastModified": "2025-03-01T17:45:56+00:00",
  "request_id": "8410893d-301e-0043-1bd1-8a7813000000",
  "request_server_encrypted": true,
  "version": "2022-11-02",
  "version_id": null
}
```

Step 6:Manage Virtual Machines

1. List All Virtual Machines

```
az vm list --output table
```

2. Start a Virtual Machine

```
az vm start --name <your-vm-name> --resource-group <your-resource-group>
```

3.Stop a Virtual Machine

```
az vm stop --name <your-vm-name> --resource-group <your-resource-group>
```

4. Restart a Virtual Machine

```
az vm restart --name <your-vm-name> --resource-group <your-resource-group>
```

5. Delete a Virtual Machine

az vm delete --name <your-vm-name> --resource-group <your-resource-group> --yes

```
Windows PowerShell
{
  "client_request_id": "0659cee0-f6c5-11ef-9381-489ebd740fa3",
  "content_md5": "SnjCRi415AJz0mofnrmQyw==",
  "date": "2025-03-01T17:45:55+00:00",
  "encryption_key_sha256": null,
  "encryption_scope": null,
  "etag": "\"0x8DD58E8EB8A37A0\"",
  "lastModified": "2025-03-01T17:45:56+00:00",
  "request_id": "8410893d-301e-0043-1bd1-8a7813000000",
  "request_server_encrypted": true,
  "version": "2022-11-02",
  "version_id": null
}
PS C:\Users\madhu> az vm list --output table

PS C:\Users\madhu> az vm create --resource-group rg --name MyVM --image UbuntuLTS --admin-username azureuser --generate-ssh-keys --size Standard_B1s
Invalid image "UbuntuLTS". Use a valid image URN, custom image name, custom image id, VHD blob URI, or pick an image from ['CentOS85Gen2', 'Debian11', 'OpenSuseLeap154Gen2', 'RHELRaw8LVMGen2', 'SuseSles15SP5', 'Ubuntu2204', 'Ubuntu2404', 'Ubuntu2404Pro', 'FlatcarLinuxFreeGen2', 'Win2022Datacenter', 'Win2022AzureEditionCore', 'Win2019Datacenter', 'Win2016Datacenter', 'Win2012R2Datacenter', 'Win2012Datacenter'].
See vm create -h for more information on specifying an image.
PS C:\Users\madhu> az vm stop --name vmmad --resource-group rg
About to power off the specified VM...
It will continue to be billed. To deallocate a VM, run: az vm deallocate.
PS C:\Users\madhu> az vm restart --name vmmad --resource-group rg
(OperationNotAllowed) The operation requires the VM to be running (or set to run).
Code: OperationNotAllowed
Message: The operation requires the VM to be running (or set to run).
PS C:\Users\madhu> az vm start --name vmmad --resource-group rg
PS C:\Users\madhu> az vm restart --name vmmad --resource-group rg
PS C:\Users\madhu>
```