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OMR, CHENNAI - 119

# **PLACEMENT EMPOWERMENT PROGRAM**

**Cloud Computing & DevOps Centre**

Install CLI in Azure. Use it to list resources, upload files to storage, and manage Virtual Machines.

**Name:** Ranjitha Prabha P

**Dept:** CSE

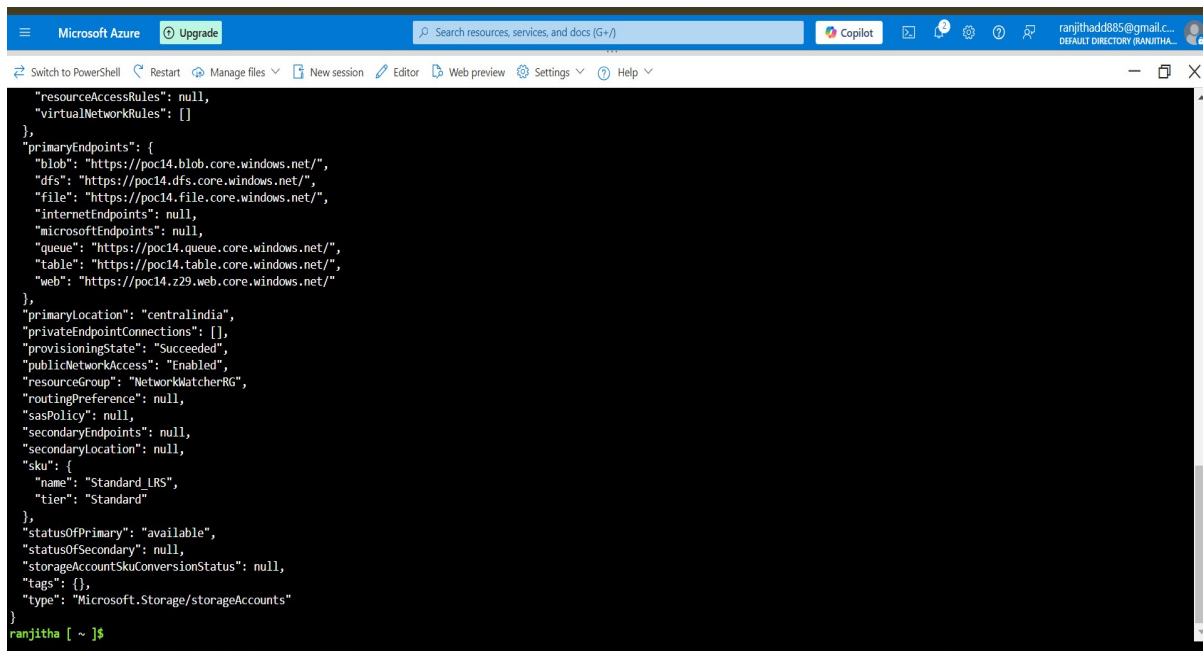
## Step-by-step process:

**Step 1:** Open Azure CLI and enter the following command for creating a “Storage Account”.

**Cmd:** `az storage account create --name <your_storage_account_name> --resource-group <your_resource_group_name> --location <your_location> --sku Standard_LRS`

```
ranjitha [ ~ ]$ az storage account create --name poc14 --resource-group NetworkWatcherRG --location centralindia --sku Standard_LRS
A storage account with the provided name poc14 is found. Will continue to update the existing account.
{
  "accessTier": "Hot",
  "accountMigrationInProgress": null,
  "allowBlobPublicAccess": false,
  "allowCrossTenantReplication": false,
  "allowSharedKeyAccess": true,
  "allowedCopyScope": null,
  "azureFilesIdentityBasedAuthentication": null,
  "blobRestoreStatus": null,
  "creationTime": "2025-02-26T03:59:02.337710+00:00",
  "customDomain": null,
  "defaultToOAuthAuthentication": false,
  "dnsEndpointType": "Standard",
  "enableExtendedGroups": null,
  "enableHttpsTrafficOnly": true,
  "enableWfsV3": null,
  "encryption": {
    "encryptionIdentity": null,
    "keySource": "Microsoft.Storage",
    "keyVaultProperties": null,
    "requireInfrastructureEncryption": false,
  },
  "services": {
    "blob": {
      "enabled": true,
      "keyType": "Account",
      "lastEnabledTime": "2025-02-26T03:59:02.915837+00:00"
    },
    "file": {
      "enabled": true,
      "keyType": "Account",
      "lastEnabledTime": "2025-02-26T03:59:02.915837+00:00"
    }
  }
}
```

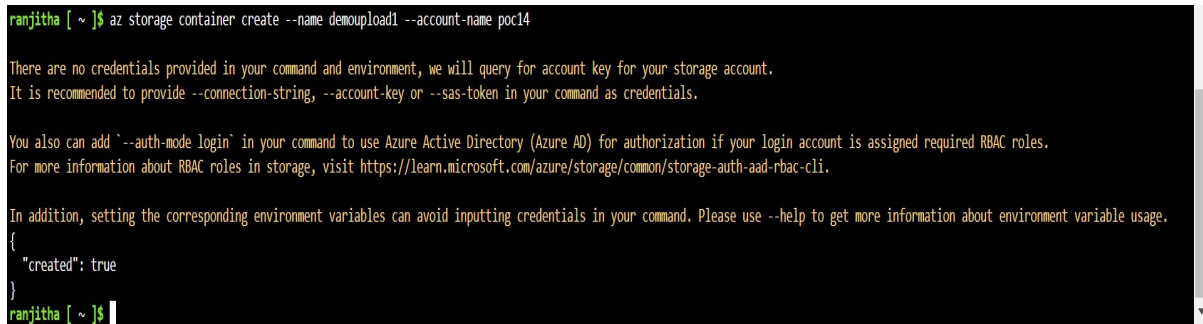
```
Microsoft Azure | Upgrade | Search resources, services, and docs (G+/) | Copilot | ranjithad885@gmail.c...
Switch to PowerShell | Restart | Manage files | New session | Editor | Web preview | Settings | Help
{
  "queue": null,
  "table": null
}
},
"extendedLocation": null,
"failoverInProgress": null,
"geoReplicationStats": null,
"id": "/subscriptions/ac72f373-11bf-4728-9fed-e2e6ce3ae6c/resourceGroups/NetworkWatcherRG/providers/Microsoft.Storage/storageAccounts/poc14",
"identity": null,
"immutableStorageWithVersioning": null,
"isHnsEnabled": null,
"isLocalUserEnabled": null,
"isSftpEnabled": null,
"isSkuConversionBlocked": null,
"keyCreationTime": {
  "key1": "2025-02-26T03:59:02.415834+00:00",
  "key2": "2025-02-26T03:59:02.415834+00:00"
},
"keyPolicy": null,
"kind": "StorageV2",
"largeFileSharesState": "Enabled",
"lastGeoFailoverTime": null,
"location": "centralindia",
"minimumTlsVersion": "TLS1_2",
"name": "poc14",
"networkRuleSet": {
  "bypass": "AzureServices",
  "defaultAction": "Allow",
  "ipRules": [],
  "ipv6Rules": [],
  "resourceAccessRules": null,
  "virtualNetworkRules": []
}
```



```
"resourceAccessRules": null,
"virtualNetworkRules": []
},
"primaryEndpoints": {
  "blob": "https://poc14.blob.core.windows.net/",
  "dfs": "https://poc14.dfs.core.windows.net/",
  "file": "https://poc14.file.core.windows.net/",
  "internetEndpoints": null,
  "microsoftEndpoints": null,
  "queue": "https://poc14.queue.core.windows.net/",
  "table": "https://poc14.table.core.windows.net/",
  "web": "https://poc14.z29.web.core.windows.net/"
},
"primaryLocation": "centralindia",
"privateEndpointConnections": [],
"provisioningState": "Succeeded",
"publicNetworkAccess": "Enabled",
"resourceGroup": "NetworkWatcherRG",
"routingPreference": null,
"sasPolicy": null,
"secondaryEndpoints": null,
"secondaryLocation": null,
"sku": {
  "name": "Standard LRS",
  "tier": "Standard"
},
"statusOfPrimary": "available",
"statusOfSecondary": null,
"storageAccountSkuConversionStatus": null,
"tags": {},
"type": "Microsoft.Storage/storageAccounts"
}
ranjitha [ ~ ]$
```

**Step 2:** Create a “BLOB CONTAINER” for uploading files. Run the following command.

**Cmd:** `az storage container create --name <your_container_name> --account-name <your_storage_account_name>`



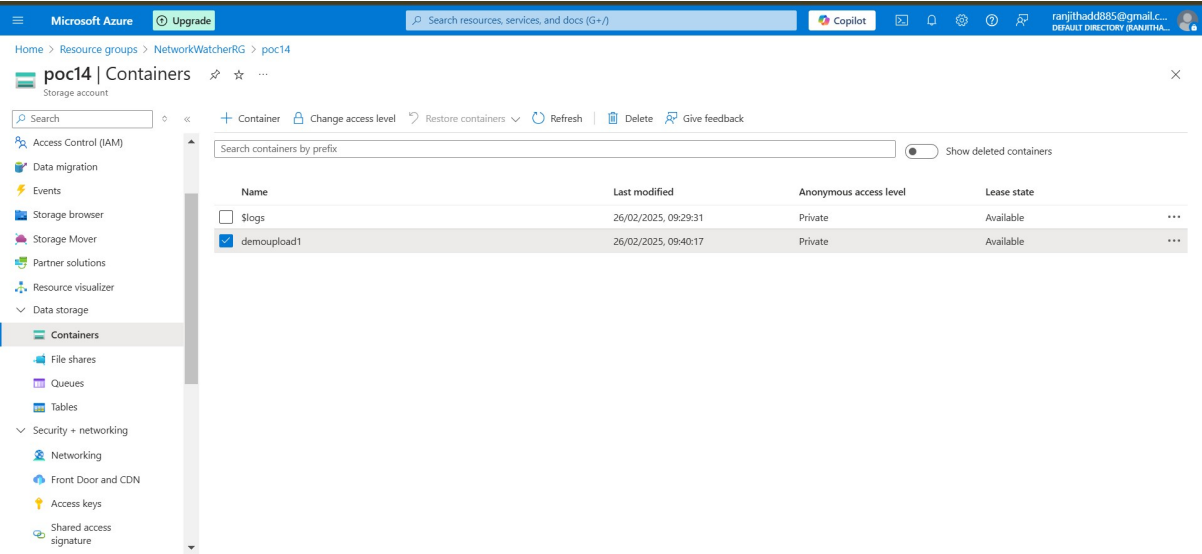
```
ranjitha [ ~ ]$ az storage container create --name demoupload1 --account-name poc14

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.

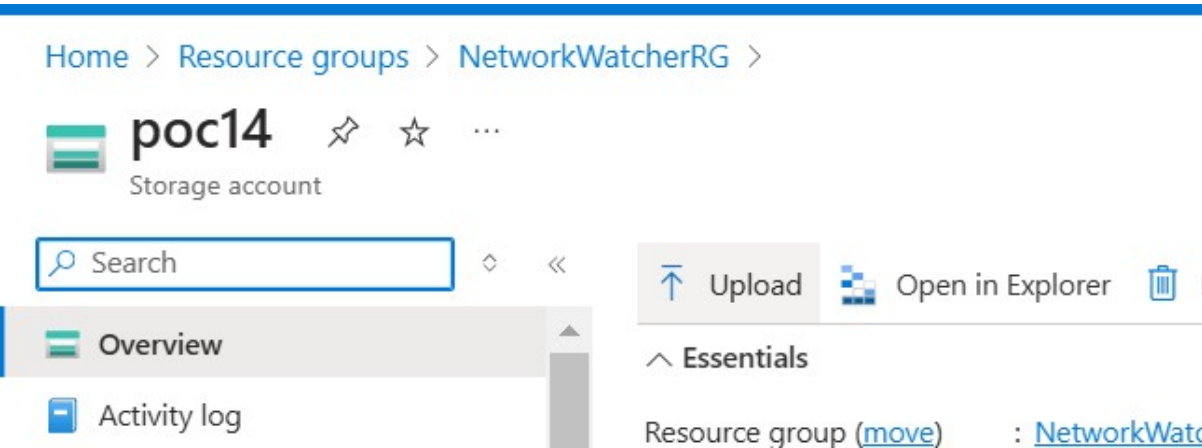
You also can add '--auth-mode login' in your command to use Azure Active Directory (Azure AD) for authorization if your login account is assigned required RBAC roles.
For more information about RBAC roles in storage, visit https://learn.microsoft.com/azure/storage/common/storage-auth-aad-rbac-cli.

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.
{
  "created": true
}
ranjitha [ ~ ]$
```

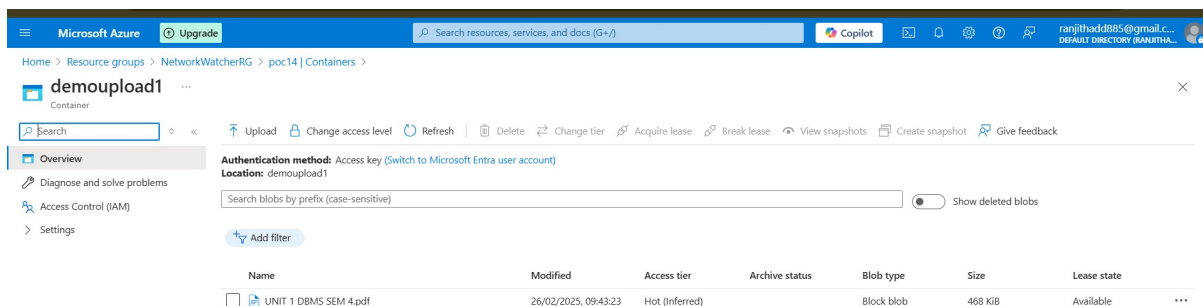
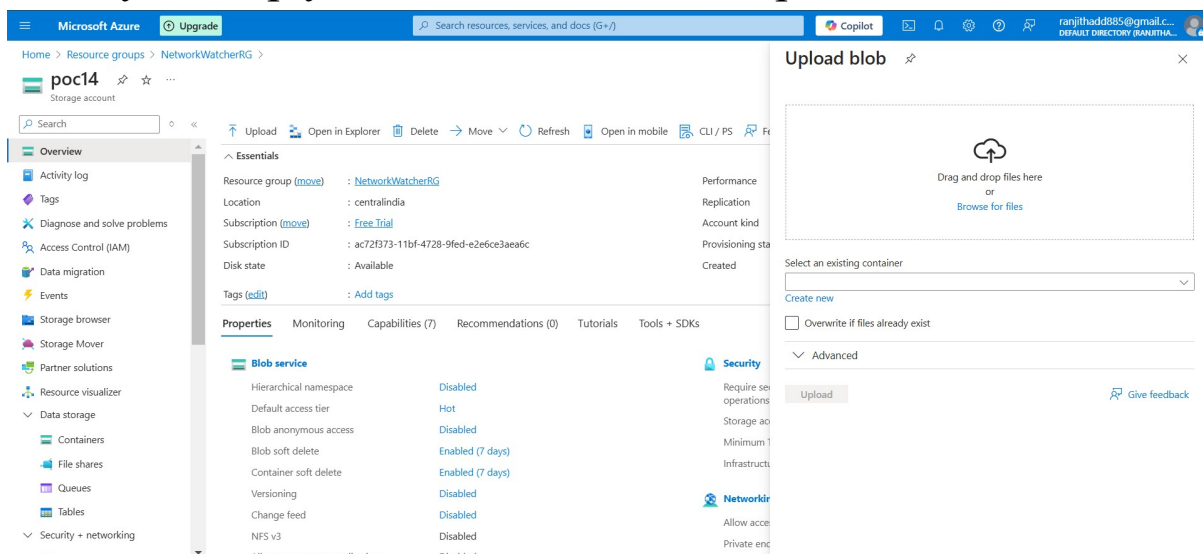
Step 3: Upload a file to the “Blob Container”. Open the container you created it in your Storage Account.



Upload:



Once you drop your file, then click on upload.



**Step 4:** Start the VM by running the Following command or you can open the portal, go to your VM and click on Start.

**Cmd:** `az vm start --name <your_vm_name> --resource-group <your_resource_group_name>`

```
ranjitha [ ~ ]$ az vm start --name vm1 --resource-group NetworkWatcherRG
ranjitha [ ~ ]$
```

**For stopping: az vm stop --name <your\_vm\_name> -  
-resource-group <your\_resource\_group\_name>**

```
ranjiitha [ ~ ]$ az vm start --name vm1 --resource-group NetworkWatcherRG
ranjiitha [ ~ ]$ az vm stop --name vm1 --resource-group NetworkWatcherRG
About to power off the specified VM...
It will continue to be billed. To deallocate a VM, run: az vm deallocate.
ranjiitha [ ~ ]$
```