



Stories 6 : Azure CLI installation and commands

Azure CLI (Command-Line Interface) is a set of command-line tools provided by Microsoft for managing resources and services within the Azure cloud platform. It allows users to interact with Azure resources directly from the command line, making it a powerful and flexible tool for automating tasks, scripting, and managing Azure resources.

Key features and aspects of Azure CLI include:

1. **Cross-Platform Support:**

- Azure CLI is designed to be cross-platform, which means it can be used on Windows, macOS, and Linux. This makes it accessible to users regardless of their preferred operating system.

2. **Scripting and Automation:**

- Azure CLI is often used for scripting and automation tasks. Users can write scripts to deploy and manage Azure resources, allowing for the automation of complex workflows and processes.

3. **Resource Management:**

- You can use Azure CLI to create, configure, and manage various Azure resources such as virtual machines, storage accounts, databases, networking components, and more.

4. **Interactive Mode:**

- Azure CLI provides an interactive mode, allowing users to run commands and get real-time feedback. This can be helpful for exploring available commands and options.

5. Integration with Azure PowerShell:

- While Azure CLI is one option for managing Azure resources, Microsoft also provides Azure PowerShell for users who prefer a PowerShell-based approach. Both Azure CLI and Azure PowerShell offer similar capabilities.

6. Azure Cloud Shell:

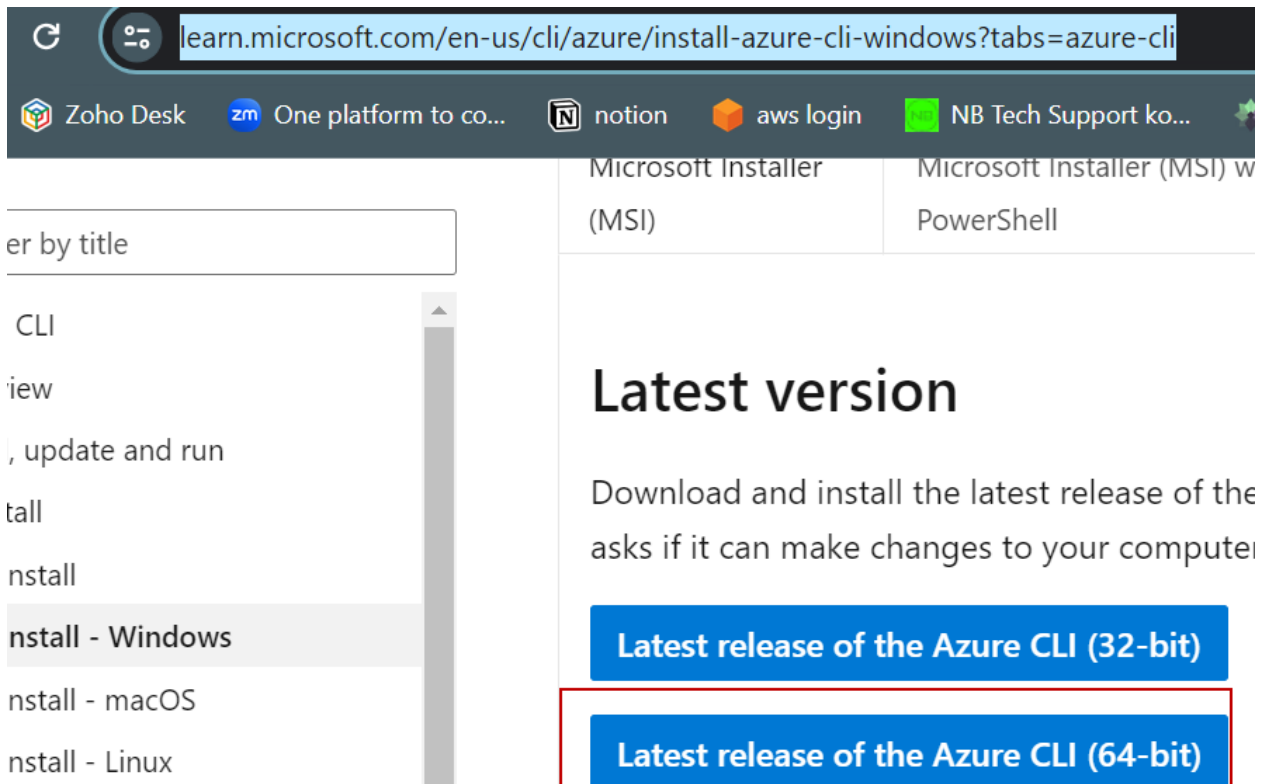
- Azure CLI can be run directly from the Azure Cloud Shell, a browser-based shell provided within the Azure Portal. This eliminates the need to install any tools locally.

7. Regular Updates:

- Microsoft regularly updates Azure CLI to support new features, services, and improvements. Users can update their Azure CLI installation to access the latest functionality.

Download Azure CLI

<https://learn.microsoft.com/en-us/cli/azure/install-azure-cli-windows?tabs=azure-cli>



To configure with Azure account

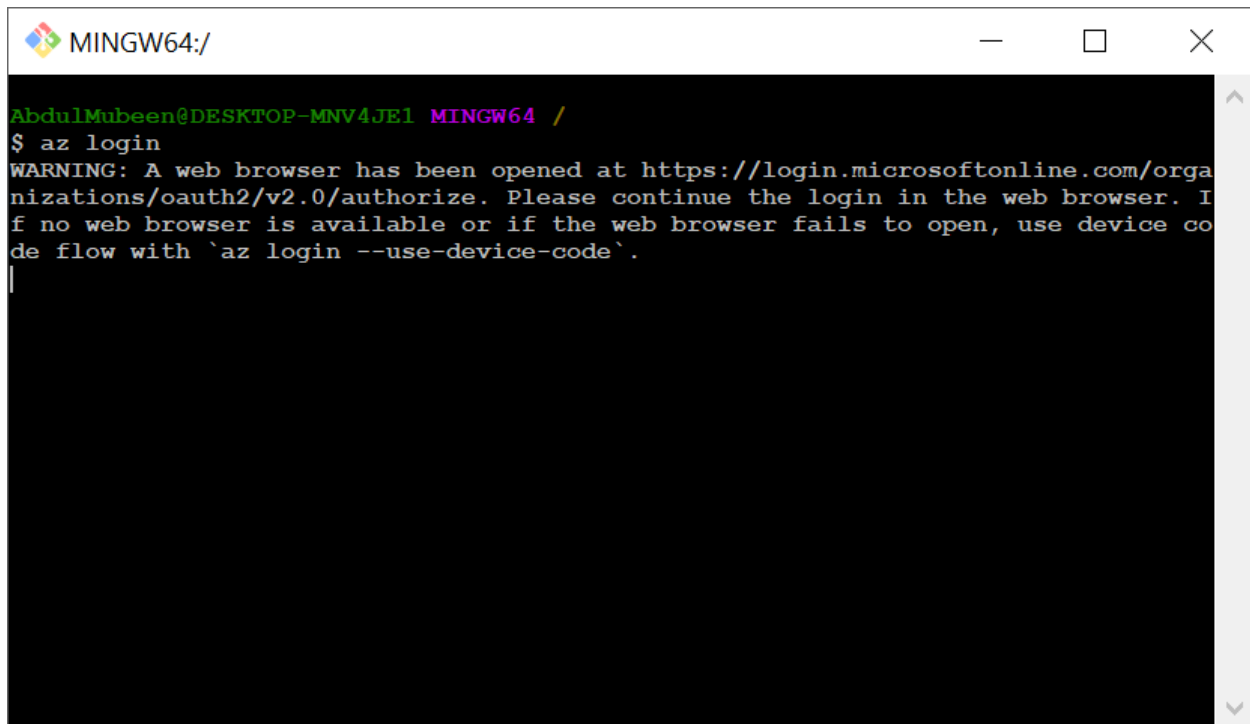
command :

To check the version

az - - version

method 1 :

az login

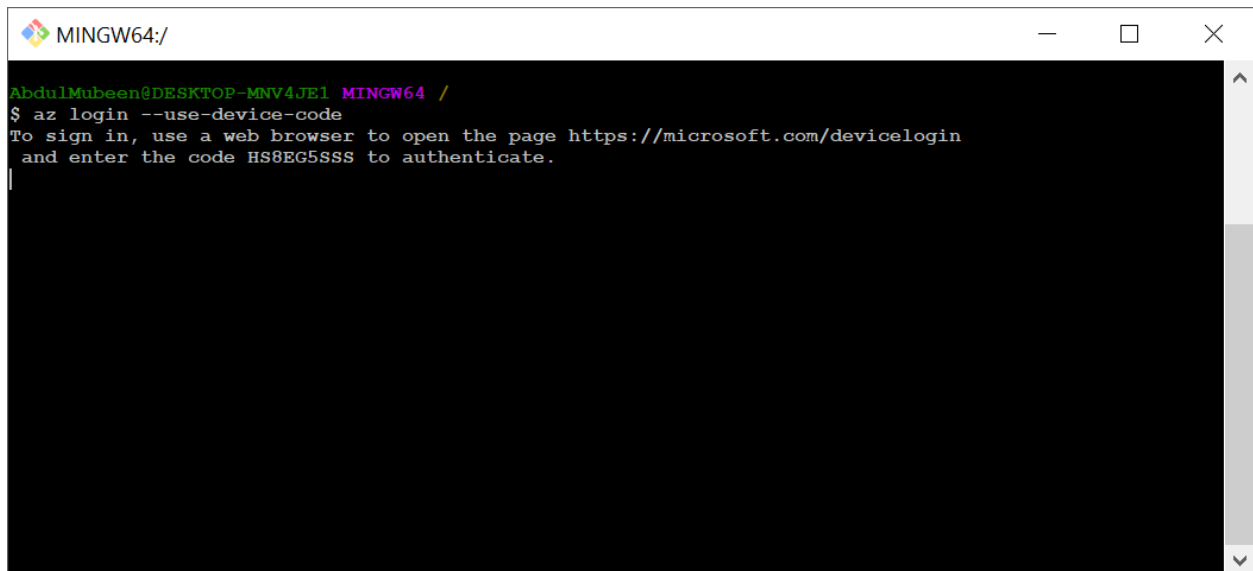


```
AbdulMubeen@DESKTOP-MNV4JE1 MINGW64 /  
$ az login  
WARNING: A web browser has been opened at https://login.microsoftonline.com/orga  
nizations/oauth2/v2.0/authorize. Please continue the login in the web browser. I  
f no web browser is available or if the web browser fails to open, use device co  
de flow with `az login --use-device-code`.  
|
```

Enter your Credentials in browser

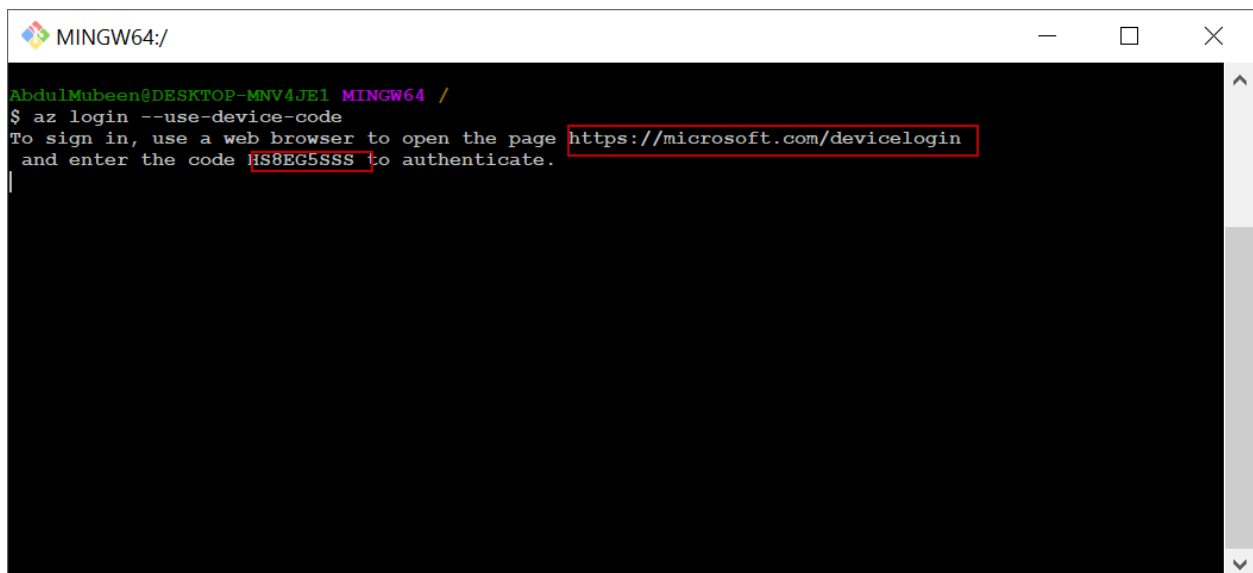
method 2

```
$ az login --use-device-code
```



```
AbdulMubeen@DESKTOP-MNV4JE1 MINGW64 /
$ az login --use-device-code
To sign in, use a web browser to open the page https://microsoft.com/devicelogin
and enter the code HS8EG5SSS to authenticate.
```

Enter open the above your url and enter the code



```
AbdulMubeen@DESKTOP-MNV4JE1 MINGW64 /
$ az login --use-device-code
To sign in, use a web browser to open the page https://microsoft.com/devicelogin
and enter the code HS8EG5SSS to authenticate.
```

enter the url in browser and code as shown below

login.microsoftonline.com/common/oauth2/deviceauth

One platform to co... notion aws login NB Tech Support ko... AWS DevOps Q3 B7 12 A



Enter code

Enter the code displayed on your app or device.

HS8EG5SSS

Next



Microsoft Azure Cross-platform Command Line Interface

You have signed in to the Microsoft Azure Cross-platform Command Line Interface application on your device. You may now close this window.

```
C:\Users\AbdulMubeen>az login --use-device-code
To sign in, use a web browser to open the page https://microsoft.com/devicelogin and enter the code HPDBJKTEU to authenticate.
[
  {
    "cloudName": "AzureCloud",
    "homeTenantId": "d0ca1437-9c6b-421[REDACTED]edc857",
    "id": "b7ff9584-8c9[REDACTED]46",
    "isDefault": true,
    "managedByTenants": [],
    "name": "Pay-As-You-Go",
    "state": "Enabled",
    "tenantId": "[REDACTED]37edc857",
    "user": {
      "name": "d[REDACTED]tal-edify.com",
      "type": "user"
    }
  }
]
```

Command for cli

For powershell below commads

Az cli command

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

To list vms in tabler form

 Windows PowerShell

```
PS C:\Users\AbdulMubeen> az vm list --output table
```

Name	ResourceGroup	Location	Zones
ravi-lms-8pm	RAVI-8PM	eastus	1
connect-lms-digitallync.ai	CONNECT.DIGITALLYNC.AI	centralindia	1

```
PS C:\Users\AbdulMubeen>
```

To Create a Resource Group

syntax

```
az group create --name YourResourceGroupName --location YourAzul
```

Example

```
az group create --name MycliRG --location eastus
```



```
PS C:\Users\AbdulMubeen> az group create --name MyCliRG --location eastus
{
  "id": "/subscriptions/b7ff9584-8c96-405b-9679-3146ee164646/resourceGroups/MyCliRG",
  "location": "eastus",
  "managedBy": null,
  "name": "MyCliRG",
  "properties": {
    "provisioningState": "Succeeded"
  },
  "tags": null,
  "type": "Microsoft.Resources/resourceGroups"
}
```

\$az network vnet create -n vnet1 -g uitalab

```
az network vnet create --resource-group MyCliRG --name MyVNet --
```

```
Windows PowerShell
PS C:\Users\AbdulMubeen> az network vnet create --resource-group MyCliRG --name MyVNet --address-prefixes 10.0.0.0/16 --subnet-name MySubnet --subnet-prefix 10.0.0.0/24
{
  "newVNet": {
    "addressSpace": {
      "addressPrefixes": [
        "10.0.0.0/16"
      ]
    },
    "enableDdosProtection": false,
    "etag": "W/\"a5877f2e-7593-41ce-98ca-58a6bde0f661\"",
    "id": "/subscriptions/b7ff9584-8c96-405b-9679-3146ee164646/resourceGroups/MyCliRG/providers/Microsoft.Network/virtualNetworks/MyVNet",
    "location": "eastus",
    "name": "MyVNet",
    "provisioningState": "Succeeded",
    "resourceGroup": "MyCliRG",
    "resourceGuid": "0c874b34-861a-44c1-8e71-b8bbe1e57f8",
    "subnets": [
      {
        "addressPrefix": "10.0.0.0/24",
        "delegations": [],
        "etag": "W/\"a5877f2e-7593-41ce-98ca-58a6bde0f661\"",
        "id": "/subscriptions/b7ff9584-8c96-405b-9679-3146ee164646/resourceGroups/MyCliRG/providers/Microsoft.Network/virtualNetworks/MyVNet/subnets/MySubnet",
        "name": "MySubnet",
        "privateEndpointNetworkPolicies": "Disabled",
        "privateLinkServiceNetworkPolicies": "Enabled",
        "provisioningState": "Succeeded",
        "resourceGroup": "MyCliRG",
        "type": "Microsoft.Network/virtualNetworks/subnets"
      }
    ],
    "type": "Microsoft.Network/virtualNetworks",
    "virtualNetworkPeerings": []
  }
}
```

Create a virtual machine

```
az vm create --resource-group MyCliRG --name MyVM --image canon:
```

command

```
az vm create --resource-group MyCliRG --name MyVM --image canonical:0001-com-ubuntu-server-focal:20_04-lts:latest --admin-username azureuser --admin-password YourStrongPassword123! --vnet-name MyVNet --subnet MySubnet --public-ip-sku Standard
```

how to find the urn of image

Ubuntu Server 20.04 LTS

Canonical




Ubuntu Server 20.04 LTS [Add to Favorites](#)

Canonical | Virtual Machine


★ 4.1 (8 ratings)

Usage Information


Publisher ID

canonical 

Product ID

0001-com-ubuntu-server-focal 

Plan ID ⓘ

20_04-lts-arm64 

Useful Links

[Ubuntu On Azure](#) 

[Linux VM Documentation](#) 

[Ubuntu Documentation](#) 

[FAQ](#) 

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Support

[Support](#) 

Now run the Azure cli command to create a VM

```
PS C:\Users\AbdulMubeen> az vm create --resource-group MyCliRG --name MyVM --image canonical:0001-com-ubuntu-server-focal:20_04-lts:latest --admin-username azureuser --admin-password YourStrongPassword123! --vnet-name MyVNet --subnet MySubnet --public-ip-sku Standard
Ignite (November) 2023 onwards "az vm/vmss create" command will deploy Gen2-Trusted Launch VM by default. To know more about the default change and Trusted Launch, please visit https://aka.ms/TLad
{
  "fqdns": "",
  "id": "/subscriptions/b7ff9584-8c96-405b-9679-3146ee164646/resourceGroups/MyCliRG/providers/Microsoft.Compute/virtualMachines/MyVM",
  "location": "eastus",
  "macAddress": "60-45-8D-D6-F5-36",
  "powerState": "VM running",
  "privateIpAddress": "10.0.0.4",
  "publicIpAddress": "172.173.219.8",
  "resourceGroup": "MyCliRG",
  "zones": ""
}
```

To check whether a virtual machine has been created in the Azure Portal

Virtual machines

Default Directory (devopsdigitality.onmicrosoft.com)

+ Create Switch to classic Reservations Manage view Refresh Export to CSV Open query Assign tags Start Restart Stop Delete Services Maintenance

Filter for any field... Subscription equals all Type equals all Resource group equals all Location equals all Add filter

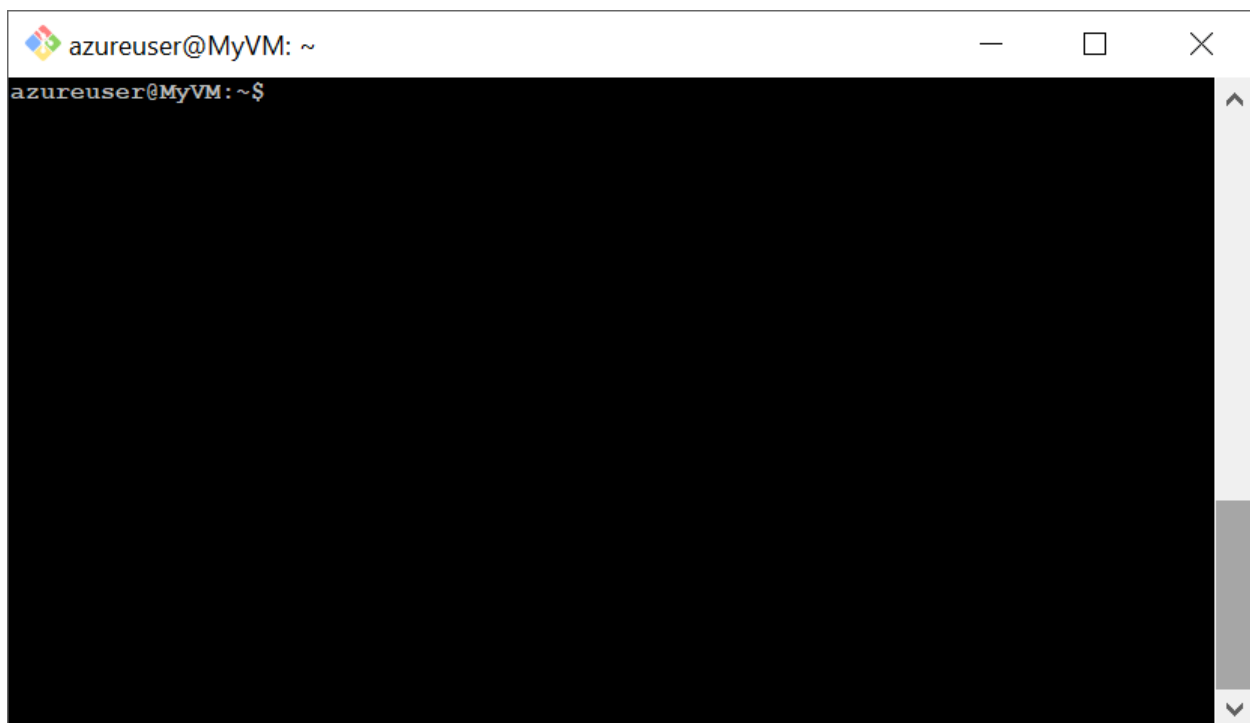
Showing 1 to 3 of 3 records.

Name	Type	Subscription	Resource group	Location	Status	Operating system	Size	Public IP address	Disks
connect-fms-digitalync.ai	Virtual machine	Pay-As-You-Go	connect.digitalync.ai	Central India	Running	Linux	Standard_D2s_v3	20.198.8.78	1
MyVM	Virtual machine	Pay-As-You-Go	MyCliRG	East US	Creating	Linux	Standard_DS1_v2	172.173.219.8	1

Connect to the VM

```
AbdulMubeen@DESKTOP-MNV4JE1 MINGW64 /  
$ ssh azureuser@172.173.219.8  
The authenticity of host '172.173.219.8 (172.173.219.8)' can't be established.  
ED25519 key fingerprint is SHA256:kSsyG1B93NC2Xm6OzU5Ogf4wRSx+yRq20KvV6JKamRI.  
This key is not known by any other names.  
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes  
Warning: Permanently added '172.173.219.8' (ED25519) to the list of known hosts.  
azureuser@172.173.219.8's password:
```

Connected



To delete a RG

```
az group delete --name MycliRG --yes
```

```
C:\Users\AbdulMubeen>az group delete --name Myclirg --yes
_/ Running ..
|
```