



# Stories 15 : 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>**

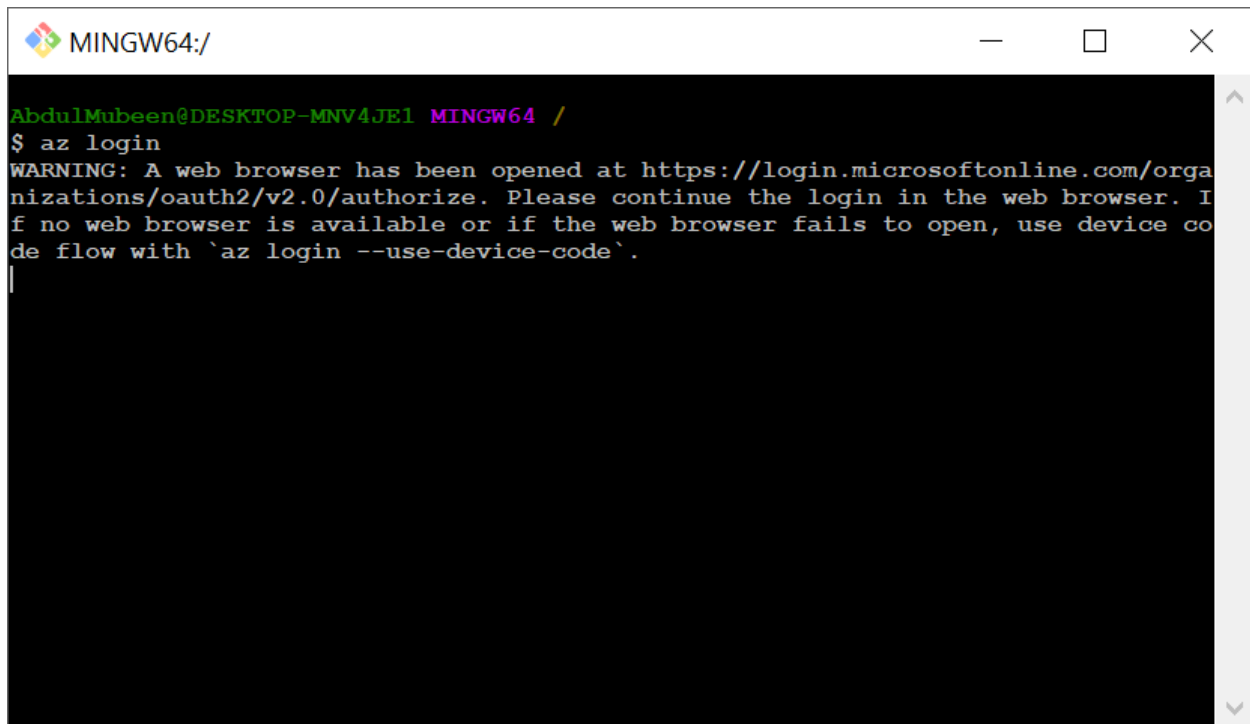
The screenshot shows a web browser window with the URL `learn.microsoft.com/en-us/cli/azure/install-azure-cli-windows?tabs=azure-cli`. The browser's address bar and tabs are visible at the top. The page content is divided into a sidebar on the left and a main content area on the right. The sidebar contains a search bar and a list of links: "CLI", "iew", ", update and run", "tall", "ninstall", "ninstall - Windows" (highlighted), "ninstall - macOS", and "ninstall - Linux". The main content area has a heading "Latest version" and a paragraph: "Download and install the latest release of the asks if it can make changes to your computer". Below this, there are two blue buttons: "Latest release of the Azure CLI (32-bit)" and "Latest release of the Azure CLI (64-bit)". The 64-bit button is highlighted with a red border.

To configure with Azure account

command :

method 1 :

az login

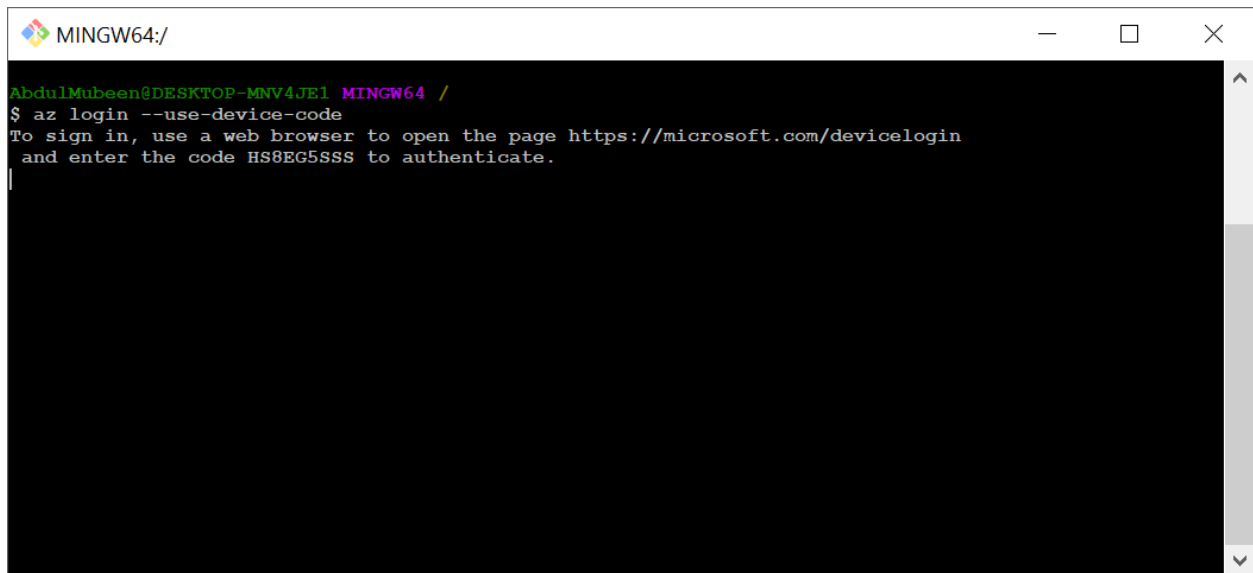


```
AbdulMubeen@DESKTOP-MNV4JE1 MINGW64 /  
$ az login  
WARNING: A web browser has been opened at https://login.microsoftonline.com/orga  
nizations/oauth2/v2.0/authorize. Please continue the login in the web browser. I  
f no web browser is available or if the web browser fails to open, use device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

Enter your Credentials in browser

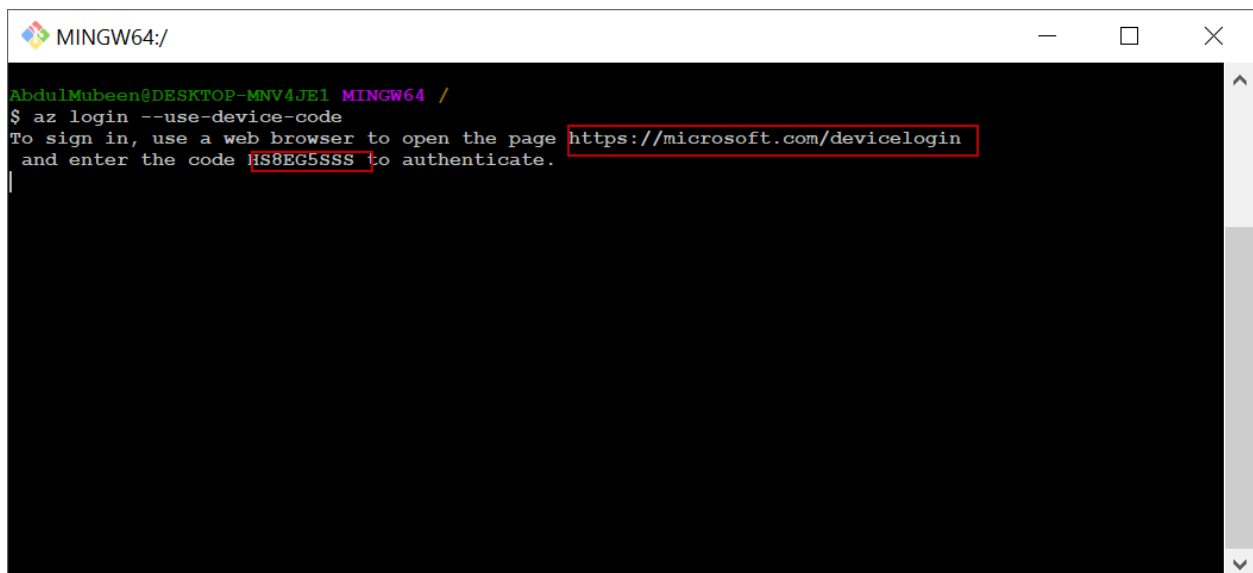
method 2

```
$ 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.

## 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

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

```
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-arm64: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](#) 

[Pricing Details](#) 

### Support

[Support](#) 

Now run the Azure cli command to create a VM

```
PS C:\Users\AbdulMubeen> az vm create --resource-group MyCIRG --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/MyCIRG/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": "MyCIRG",
  "zones": ""
}
PS C:\Users\AbdulMubeen>
```

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

Virtual machines

Default Directory (devopsdigitalify.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. No grouping List view

Name	Type	Subscription	Resource group	Location	Status	Operating system	Size	Public IP address	Disks
connect-fms-digitalyncal	Virtual machine	Pay-As-You-Go	connect.digitalyncal	Central India	Running	Linux	Standard_D2s_v3	20.198.8.78	1
MyVM	Virtual machine	Pay-As-You-Go	MyCIRG	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

