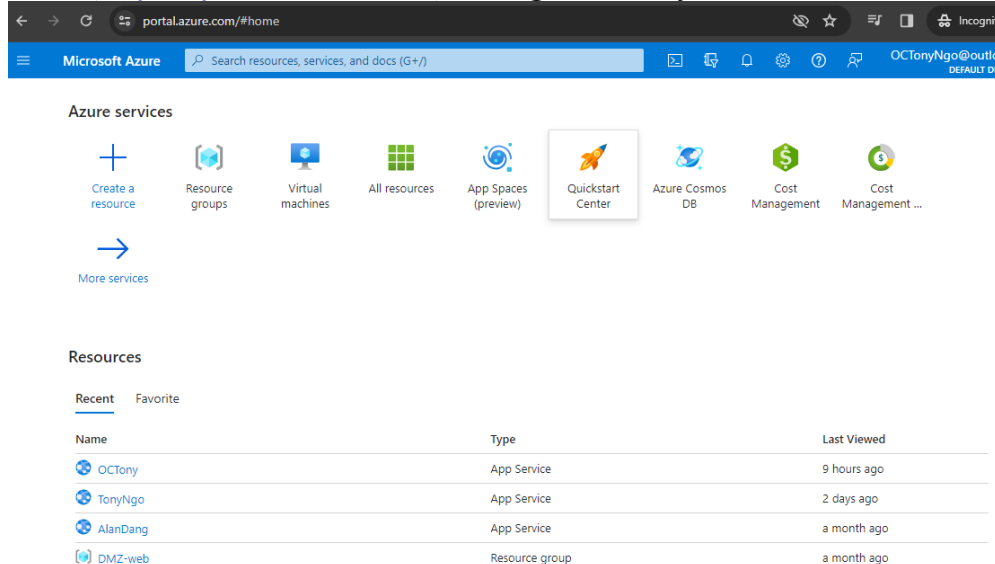


Creating Virtual Machines in Azure CLI_oCTony

To **build a VM (Virtual Machine)** server in Azure, you can follow these general steps:

1. Sign in to the Azure Portal:

- Go to <https://portal.azure.com> and sign in with your Azure account.



2. How to install the Azure CLI

- Go to <https://learn.microsoft.com/en-us/cli/azure/install-azure-cli> & select install option per Workstation.

Virtual machines - Microsoft A: x How to install the Azure CLI | M x +

learn.microsoft.com/en-us/cli/azure/install-azure-cli

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How to install the Azure CLI

Article • 09/28/2023 • 18 contributors

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The Azure CLI is available to install in Windows, macOS and Linux environments. It can also and Azure Cloud Shell.

Install

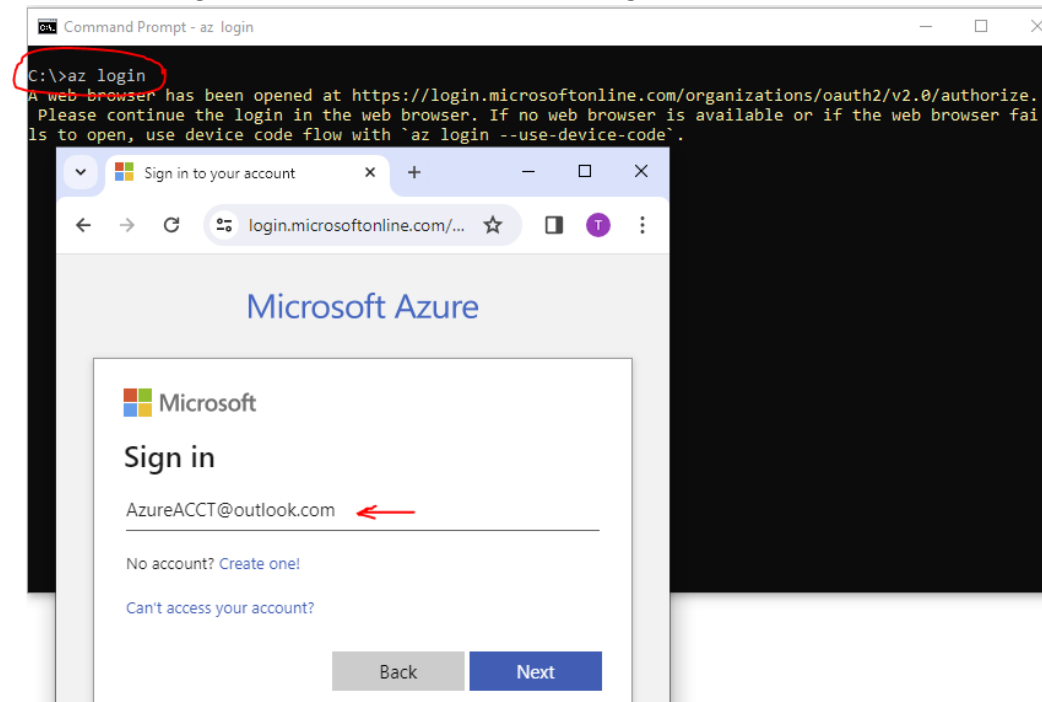
The current version of the Azure CLI is 2.57.0. For information about the latest release, see the installed version and see if you need to update, run `az version`.

- [Install on Windows](#)
- [Install on macOS](#)
- [Install on Linux or Windows Subsystem for Linux \(WSL\) \(What is WSL?\)](#)

3. Login & use az-..... CLI

- Go to <https://learn.microsoft.com/en-us/cli/azure/>

--Use DOS to login & Create a VM **GOOD**: C:\>az login



If issue, then clear cache:

```
az config set core.allow_broker=true
az account clear
az login
```

1- az group create --name OCwork --location eastus # create resource group **eastus or westus3**

Or az group create --name OCwork1 --location **westus3**

2- az vm create --resource-group OCwork --name **winserver01** --image **win2016datacenter** --admin-username adminpro # create win16 - **az vm image list: Ubuntu2204 & Win2022Datacenter**

Or: GOOD

```
az vm create --image Ubuntu2204 -n VM1 -g OCwork2 --authentication-type password --admin-username adminroot
```

or

```
az vm create -n MV1 -g OCwork2 --image Ubuntu2204 --authentication-type password --admin-username adminroot
```

```
az vm create --resource-group OCwork1 --name winserver01 --image Win2022Datacenter --admin-username adminpro
```

```
C:\Users\Adminpro>az vm create --resource-
Admin Password:
Confirm Admin Password:
{
  "fqdns": "",
  "id": "/subscriptions/724bea9d-d64c-496f
  "location": "westus3",
  "macAddress": "60-45-BD-C9-99-EC",
  "powerState": "VM running",
  "privateIpAddress": "10.0.0.4",
  "publicIpAddress": "4.242.219.22",
  "resourceGroup": "OCwork1",
  "zones": ""
}
```

Nation.xxx2.. = 12 }

3- mstsc /ip # create RDP

--Delete VM **GOOD**

1- az vm stop --resource-group OCwork --name **winserver01**

or az vm stop -g OCwork -n winserver01

Or az vm start --resource-group OCwork --name **winserver01** / az vm stop -g OCwork -n linserver01

```
C:\Users\Adminpro>az vm stop -g OCwork2 -n MV1
About to power off the specified VM...
It will continue to be billed. To deallocate a VM, run: az vm deallocate.
```

2- az vm deallocate --resource-group OCwork --name **winserver01**

or

az vm deallocate -g OCwork -n winserver01

3- az group delete --name OCwork2

```
C:\Users\Adminpro>az group delete -n OCwork2
Are you sure you want to perform this operation? (y/n): y
- Running ..
```

---Remove admin: # Remove the user from the administrators group

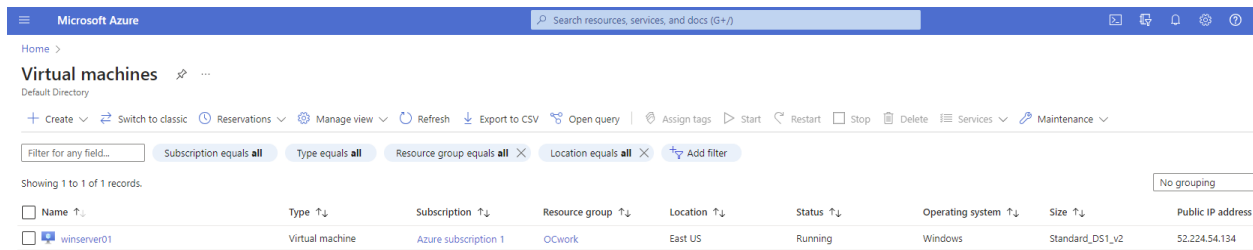
Remove-LocalGroupMember -Group "Administrators" -Member "Adminpro2"

```
C:\Users\Adminpro>az vm create --resource-group OCwork --name winserver01 --image win2016datacenter --admin-username adminpro
Admin Password:
Confirm Admin Password:
The password length must be between 12 and 123. Password must have the 3 of the following: 1 lower case character, 1 upper case character, 1 number
and 1 special character.

C:\Users\Adminpro>az vm create --resource-group OCwork --name winserver01 --image win2016datacenter --admin-username adminpro
Admin Password:
Confirm Admin Password:
{
  "fqdns": "",
  "id": "/subscriptions/724bea9d-d64c-496f-b9a6-8133b6261e7c/resourceGroups/OCwork/providers/Microsoft.Compute/virtualMachines/winserver01",
  "location": "eastus",
  "macAddress": "60-45-BD-D8-8F-BD",
  "powerState": "VM running",
  "privateIpAddress": "10.0.0.4",
  "publicIpAddress": "52.224.54.134",
  "resourceGroup": "OCwork",
  "zones": ""
}

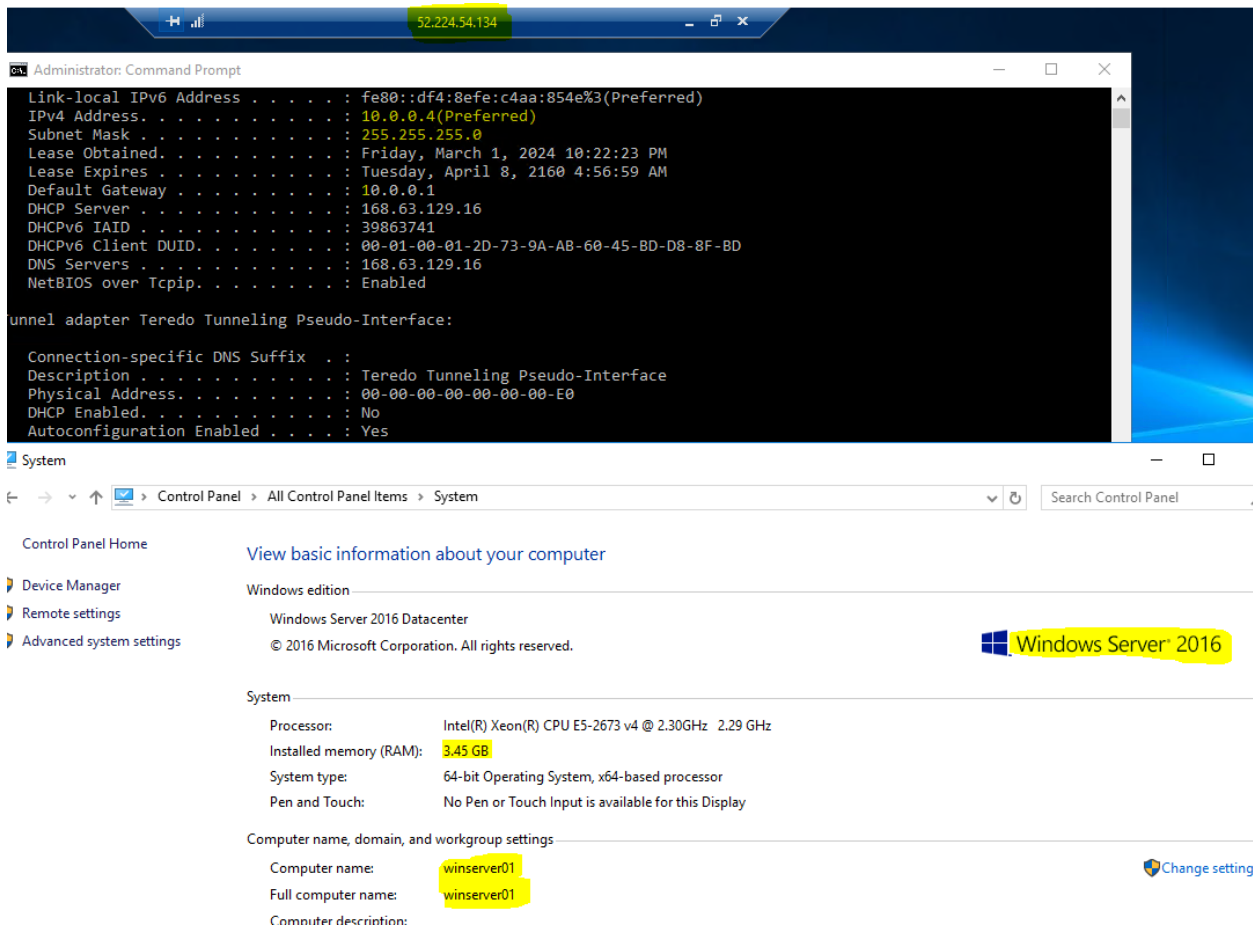
C:\Users\Adminpro>
```

From Web portal:



Name	Type	Subscription	Resource group	Location	Status	Operating system	Size	Public IP address
winserver01	Virtual machine	Azure subscription 1	OCwork	East US	Running	Windows	Standard_DS1_v2	52.224.54.134

After RDP:



```
Administrator: Command Prompt
Link-local IPv6 Address . . . . . : fe80::df4:8efe:c4aa:854e%3(Preferred)
IPv4 Address. . . . . : 10.0.0.4(Preferred)
Subnet Mask . . . . . : 255.255.255.0
Lease Obtained. . . . . : Friday, March 1, 2024 10:22:23 PM
Lease Expires . . . . . : Tuesday, April 8, 2160 4:56:59 AM
Default Gateway . . . . . : 10.0.0.1
DHCP Server . . . . . : 168.63.129.16
DHCPv6 IAID . . . . . : 39863741
DHCPv6 Client DUID. . . . . : 00-01-00-01-2D-73-9A-AB-60-45-BD-D8-8F-BD
DNS Servers . . . . . : 168.63.129.16
NetBIOS over Tcpi. . . . . : Enabled

tunnel adapter Teredo Tunneling Pseudo-Interface:

Connection-specific DNS Suffix . : 
Description . . . . . : Teredo Tunneling Pseudo-Interface
Physical Address. . . . . : 00-00-00-00-00-00-E0
DHCP Enabled. . . . . : No
Autoconfiguration Enabled . . . . : Yes
```

System

Control Panel Home

Device Manager

Remote settings

Advanced system settings

View basic information about your computer

Windows edition

Windows Server 2016 Datacenter

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System

Processor: Intel(R) Xeon(R) CPU E5-2673 v4 @ 2.30GHz 2.29 GHz

Installed memory (RAM): 3.45 GB

System type: 64-bit Operating System, x64-based processor

Pen and Touch: No Pen or Touch Input is available for this Display

Computer name, domain, and workgroup settings

Computer name: winserver01

Full computer name: winserver01

Computer description:

After Deallocate:

```
C:\Users\Adminpro>az vm stop -g OCwork -n winserver01
About to power off the specified VM...
It will continue to be billed. To deallocate a VM, run: az vm deallocate

C:\Users\Adminpro>az vm deallocate -g OCwork -n winserver01
```

Virtual machines

Default Directory (OCTonyNgooutlook.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 1 of 1 records.

No grouping

List view

☐ Name ↑↓	Type ↑↓	Subscription ↑↓	Resource group ↑↓	Location ↑↓	Status ↑↓	Operating system ↑↓	Size ↑↓	Public IP address ↑↓
☐  winserver01	Virtual machine	Azure subscription 1	OCwork	East US	Stopped (deallocated)	Windows	Standard_DS1_v2	52.224.54.134

☐ Name ↑↓	Type ↑↓	Subscription ↑↓	Resource group ↑↓	Location ↑↓	Status ↑↓	Operating system ↑↓	Size ↑↓	Public IP address ↑↓
☐  winserver01	Virtual machine	Azure subscription 1	OCwork	East US	Stopped (deallocated)	Windows	Standard_DS1_v2	52.224.54.134