Self Hosted Agents

1. Create Windows Virtual Machine with the configuration specified in the screenshot.

Create a virtual machine ···

| Help me create a low cost VM | Help me create a VM optimized for high availability | Help me choose the right VM size for my workload |

Subscription * ⓘ
MSDN Platforms Subscription ⌄

Resource group * ⓘ
demoretail ⌄
Create new

Instance details

Virtual machine name * ⓘ
vmdemo ✓

Region * ⓘ
(US) East US ⌄

Availability options ⓘ
No infrastructure redundancy required ⌄

Security type ⓘ
Trusted launch virtual machines ⌄
Configure security features

Image * ⓘ
🪟 Windows Server 2022 Datacenter: Azure Edition - x64 Gen2 ⌄
See all images | Configure VM generation

VM architecture ⓘ
○ Arm64
◉ x64

ⓘ Arm64 is not supported with the selected image.

Size * ⓘ
Standard_D2s_v3 - 2 vcpus, 8 GiB memory (₹5,830.28/month) ⌄
See all sizes

Enable Hibernation ⓘ
☐

ⓘ Hibernate is not supported by the size that you have selected. Choose a size that is compatible with Hibernate to enable this feature. Learn more ⎀

Administrator account

Username * ⓘ
azureuser ✓

Password *
•••••••••••• ✓

Confirm password *
•••••••••••• ✓

Inbound port rules

Select which virtual machine network ports are accessible from the public internet. You can specify more limited or granular network access on the Networking tab.

Public inbound ports * ⓘ
○ None
◉ Allow selected ports

Select inbound ports *
HTTP (80), HTTPS (443), RDP (3389) ⌄

Keep other settings as default.

CreateVm-MicrosoftWindowsServer.WindowsServer-202-20240907115522 | Overview

Deployment

🔍 Search | ✕ | «   🗑 Delete   ⊘ Cancel   ⬆ Redeploy   ⬇ Download   🔄 Refresh
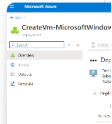
- 👤 Overview
- 📄 Inputs
- ≡ Outputs
- 📄 Template

••• Deployment is in progress

Deployment name: CreateVm-MicrosoftWindowsServer.WindowsSe...   Start time: 9/7/2024, 11:56:43 AM
Subscription: MSDN Platforms Subscription   Correlation ID: 1892909b-44cc-4be1-9471-238daef38824 📋
Resource group: demoretail

∧ **Deployment details**

Resource	Type	Status	Operation details
🌐 vmdemo	Microsoft.Compute/virtualMachines	Created	Operation details
✅ vmdemo340	Microsoft.Network/networkInterfaces	Created	Operation details
✅ vmdemo-vnet	Microsoft.Network/virtualNetworks	OK	Operation details
✅ vmdemo-nsg	Microsoft.Network/networkSecurityGroups	OK	Operation details
✅ vmdemo-ip	Microsoft.Network/publicIpAddresses	OK	Operation details

Give feedback

📝 Tell us about your experience with deployment

Select Public Ip address and take RDP of that machine

💻 vmdemo

Virtual machine

🔍 Search | ◇ | «   🔗 Connect ∨   ▷ Start   ↻ Restart   ⬜ Stop   ⏸ Hibernate   📷 Capture ∨   🗑 Delete   🔄 Refresh   📱 Open in mobile   📊 Feedback   📋 CLI / PS

- 💻 Overview
- 📄 Activity log
- 🔑 Access control (IAM)
- 🏷 Tags
- 🔧 Diagnose and solve problems
- ∨ Connect
  - 🔗 Connect
  - 🔧 Bastion
  - 🖥 Windows Admin Center
- ∨ Networking
  - 👤 Network settings
  - 🔗 Load balancing
  - 🔒 Application security groups
  - 👤 Network manager
- ∨ Settings
  - 💿 Disks

JSON View

∧ **Essentials**

Resource group (move)	: demoretail	Operating system	: Windows (Windows Server 2022 Datacenter Azure Edition)
Status	: Running	Size	: Standard D... **Copied** ...s, 8 GiB memory)
Location	: East US	Public IP address	: 52.234.212.184 📋
Subscription (move)	: MSDN Platforms Subscription	Virtual network/subnet	: vmdemo-vnet/default
Subscription ID	: c5f6b777-a115-4e13-86f4-e1af2e819314	DNS name	: Not configured
		Health state	: -
		Time created	: 9/7/2024, 6:26 AM UTC

Tags (edit)   : Add tags

Properties   Monitoring   Capabilities (8)   Recommendations   Tutorials

💻 **Virtual machine**

Computer name	vmdemo
Operating system	Windows (Windows Server 2022 Datacenter Azure Edition)
VM generation	V2
VM architecture	x64
Agent status	Ready

👤 **Networking**

Public IP address	52.234.212.184 (Network interface vmdemo340)
Public IP address (IPv6)	-
Private IP address	10.0.0.4
Private IP address (IPv6)	-
Virtual network/subnet	vmdemo-vnet/default

☆ •••

◇ | «   🔗 Connect ∨   ▷ Start   ↻ Restart   📱 Open in mobile   📊 Feedback   📋 CLI / PS

Remote Desktop Connection   —   ⬜   ✕

🖥 Remote Desktop Connection

∧ **Essentials**

Computer:	52.234.212.184 ∨
User name:	None specified

You will be asked for credentials when you connect.

⊙ Show Options   Connect   Help

Resource group (move)	: demoretail	system	: Windows (Windows Server 2022 Datacenter Azure
Status	: Running		: Standard D... **Copied** ...s, 8 GiB memory)
Location	: East US	dress	: 52.234.212.184
Subscription (move)	: MSDN Platforms Subscription	Virtual network/subnet	: vmdemo-vnet/default
Subscription ID	: c5f6b777-a115-4e13-86f4-e1af2e819314	DNS name	: Not configured
		Health state	: -
		Time created	: 9/7/2024, 6:26 AM UTC

ailings   Review

Paragraph

Select Pu

vmdemo
Virtual machine

Search
Overview
Activity log
Access control (IAM
Tags
Diagnose and solve
Connect
  Connect
  Bastion
  Windows Adm
Networking
  Network settin
  Load balancing
  Application se
  groups
  Network mana
Settings
  Disks

tWindowsServer.V
☆   ...

Windows Security   ✕

Enter your credentials

These credentials will be used to connect to 52.234.212.184.

azureuser

●●●●●●●●●●●●   ◉

☐ Remember me

More choices

Tanvi Puri
tanvi.p@cloudthat.com

Use a different account

PIN
tanvi.p@cloudthat.com

OK   Cancel
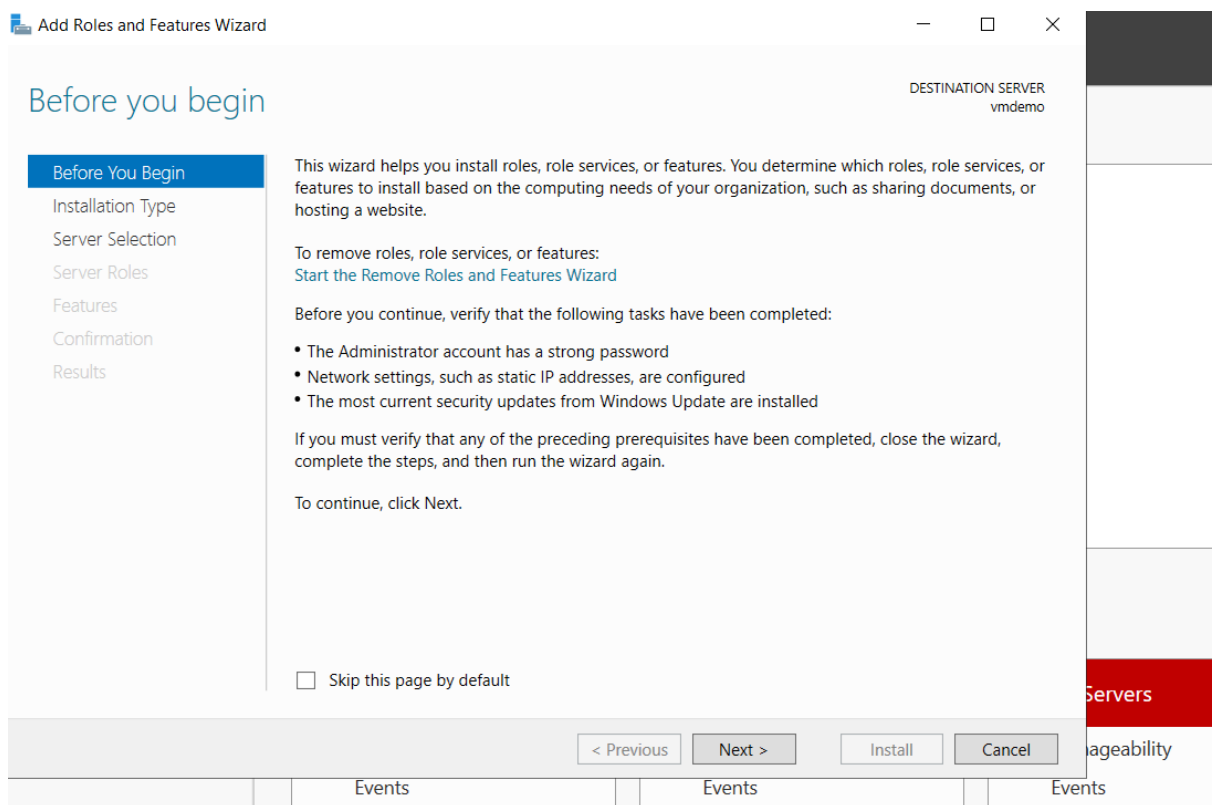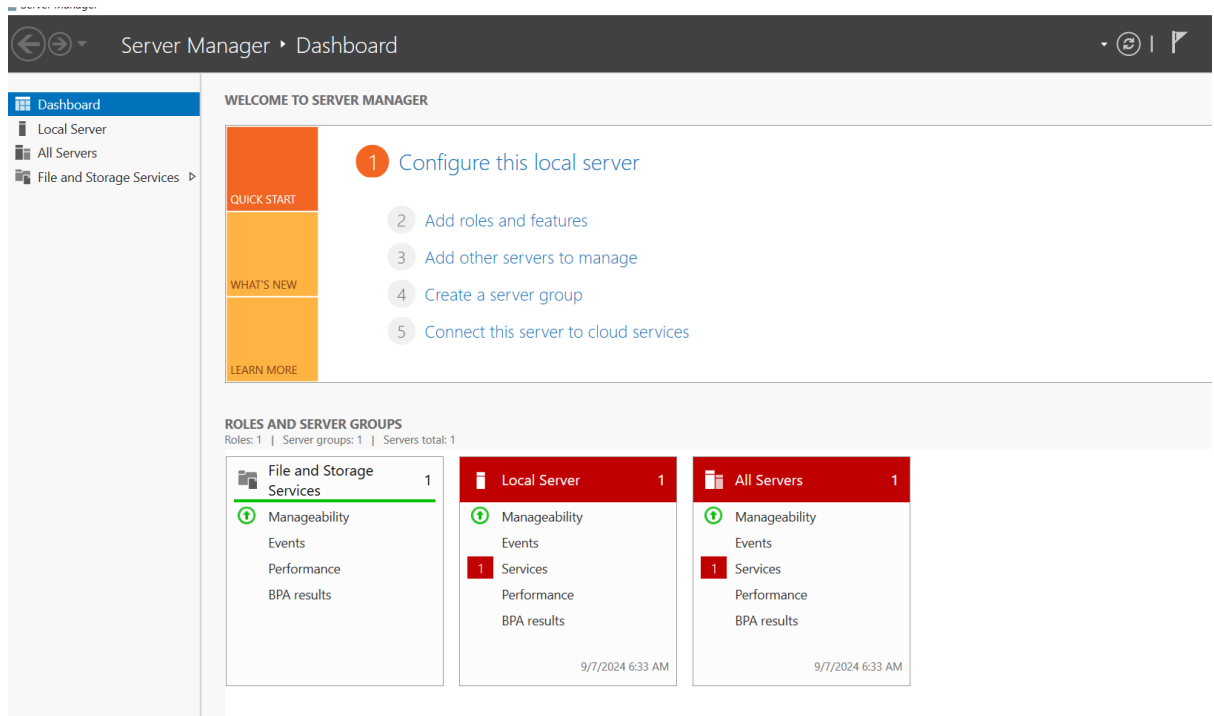
Install IIS on Windows VM. Make it a web server.
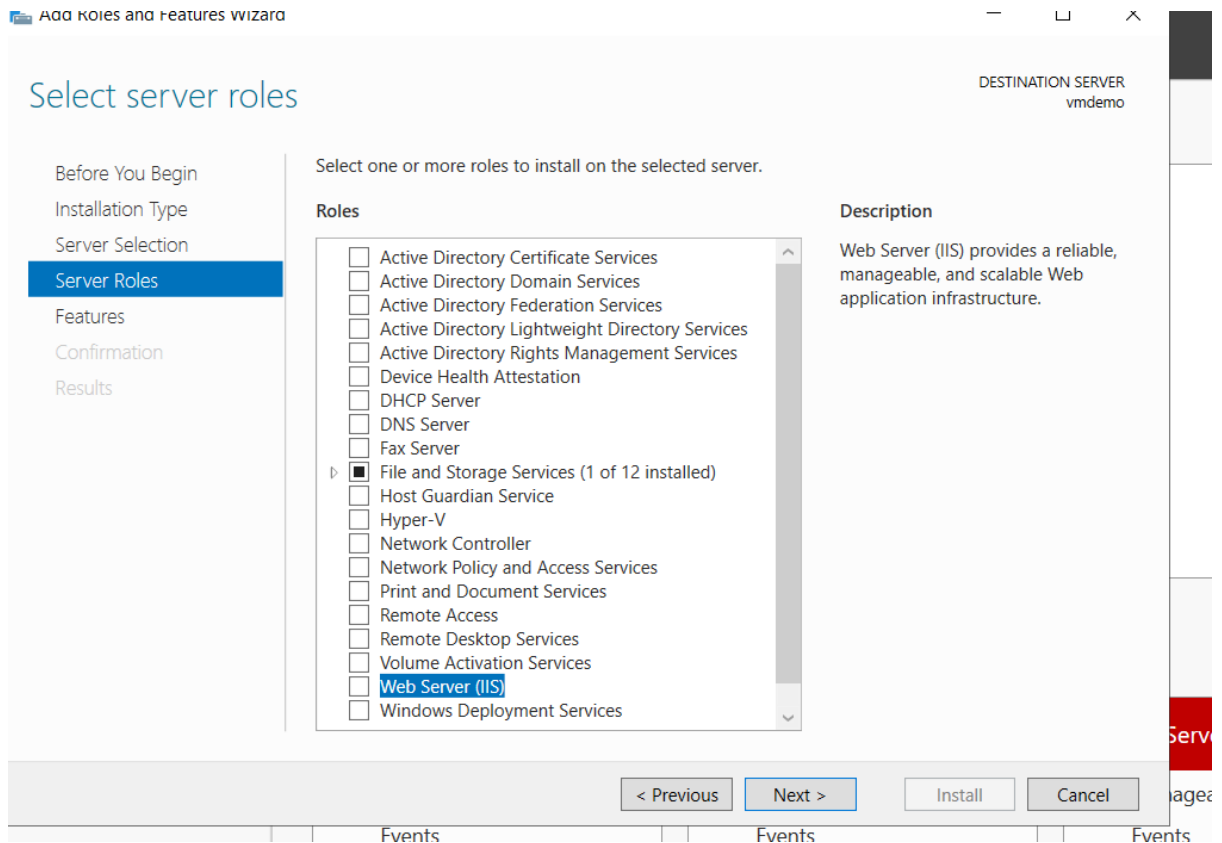
Click on Web Server(IIS)
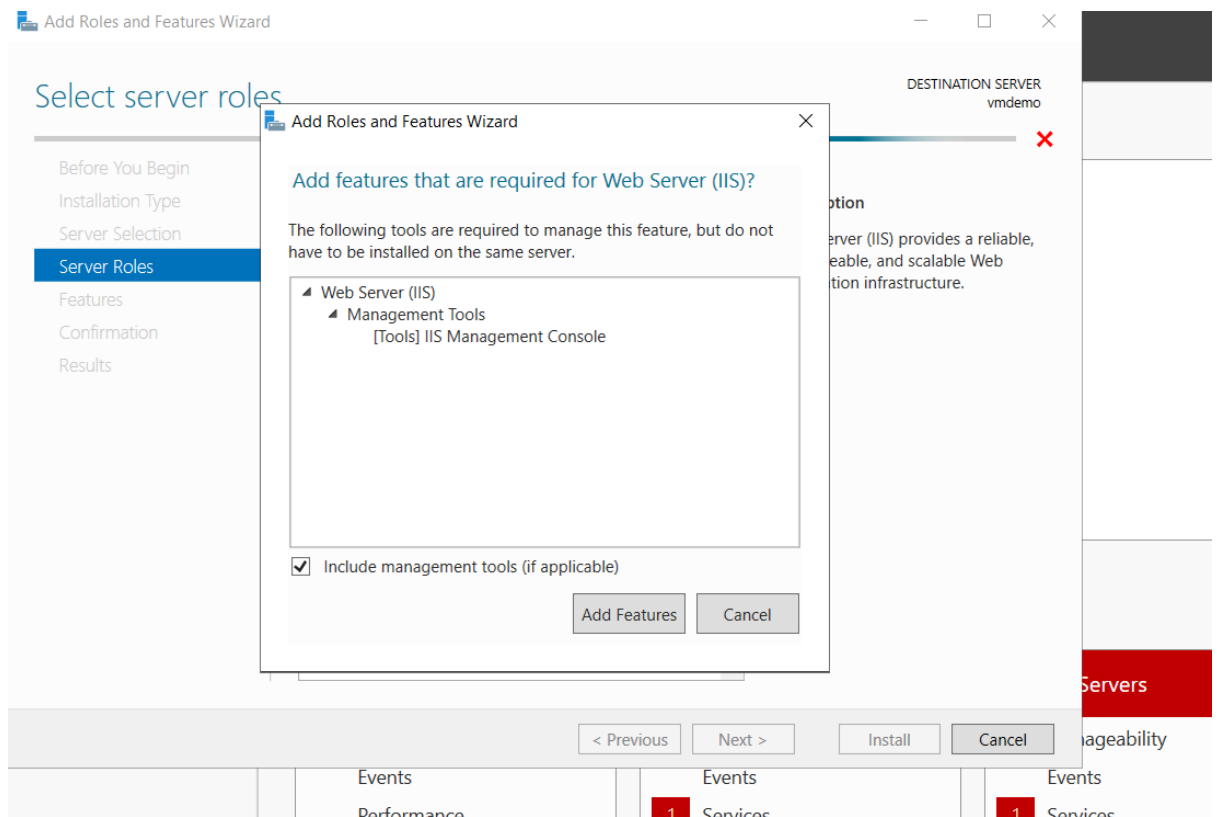
Click on Add features
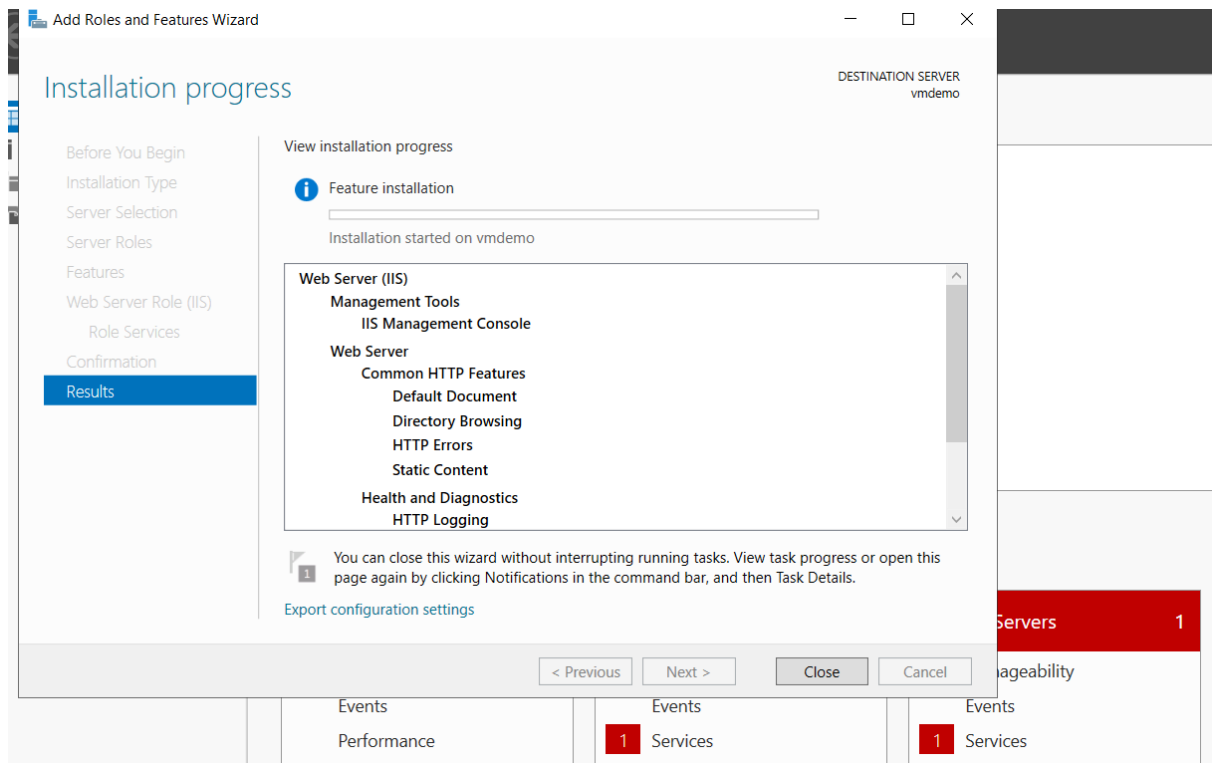
Go with Default Settings and finally click on Install.
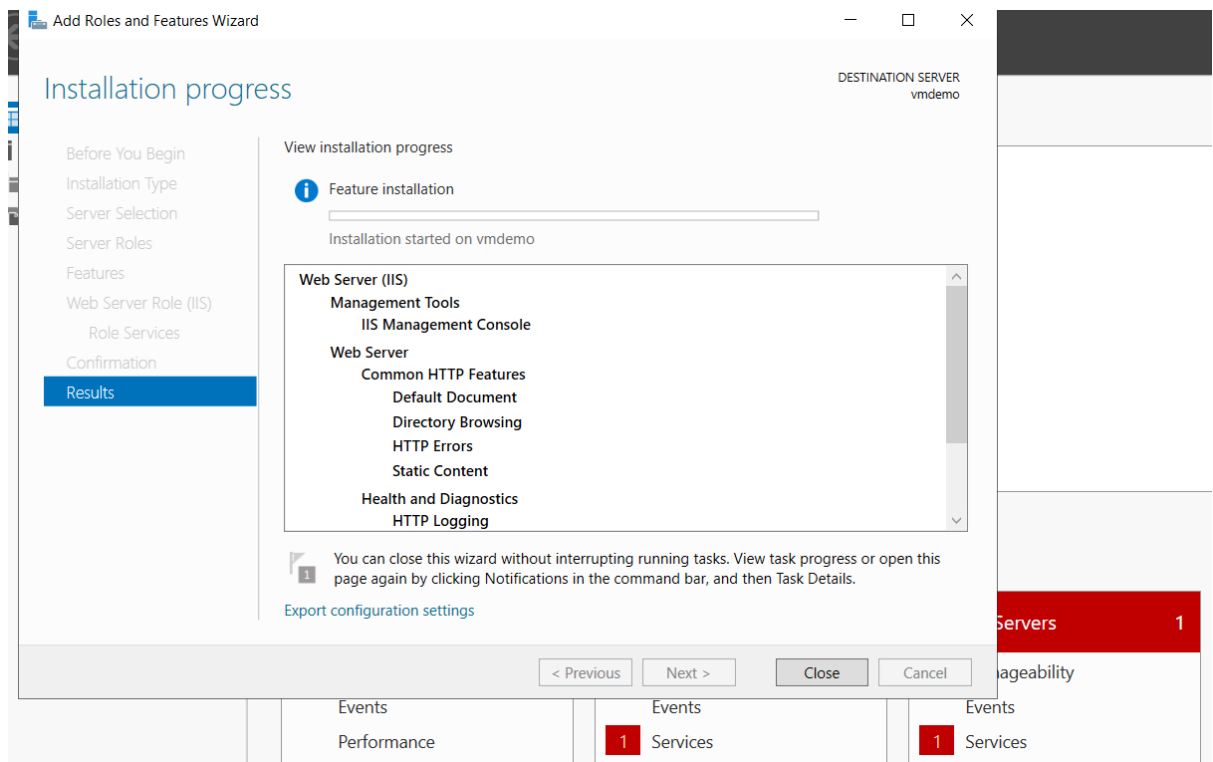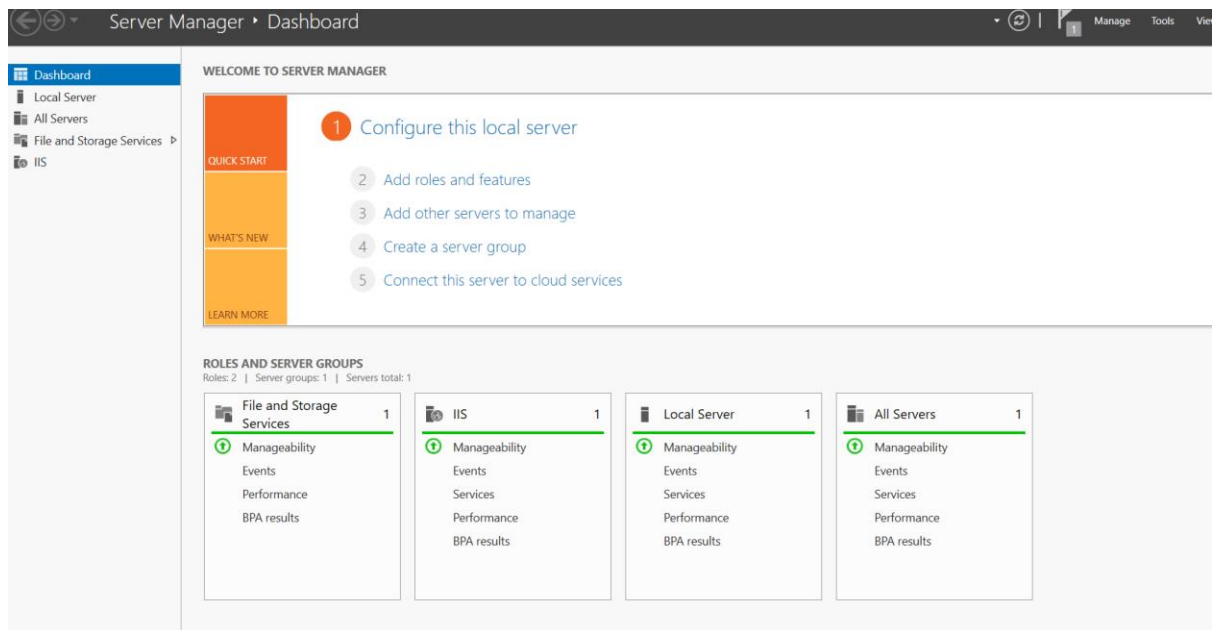
Disable Internet Explorer Enhanced Security Configuration in Local Server
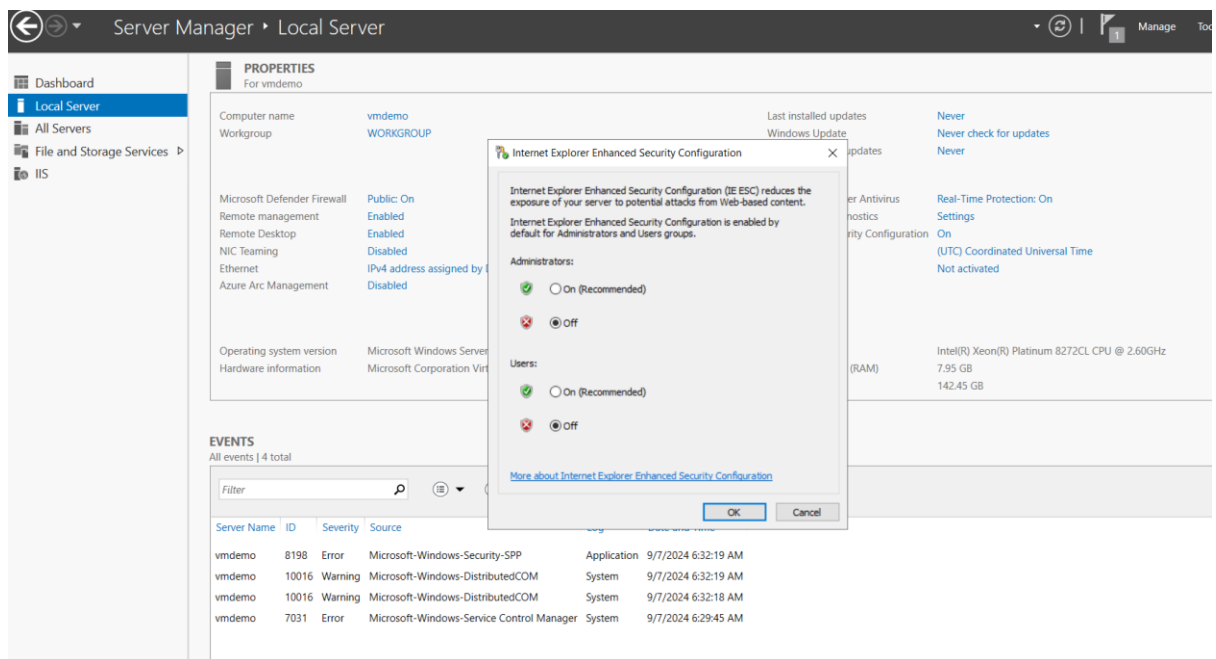
Download the community version for Visual Studio 2022 from [Download Visual Studio Tools - Install Free for Windows, Mac, Linux (microsoft.com)](#)
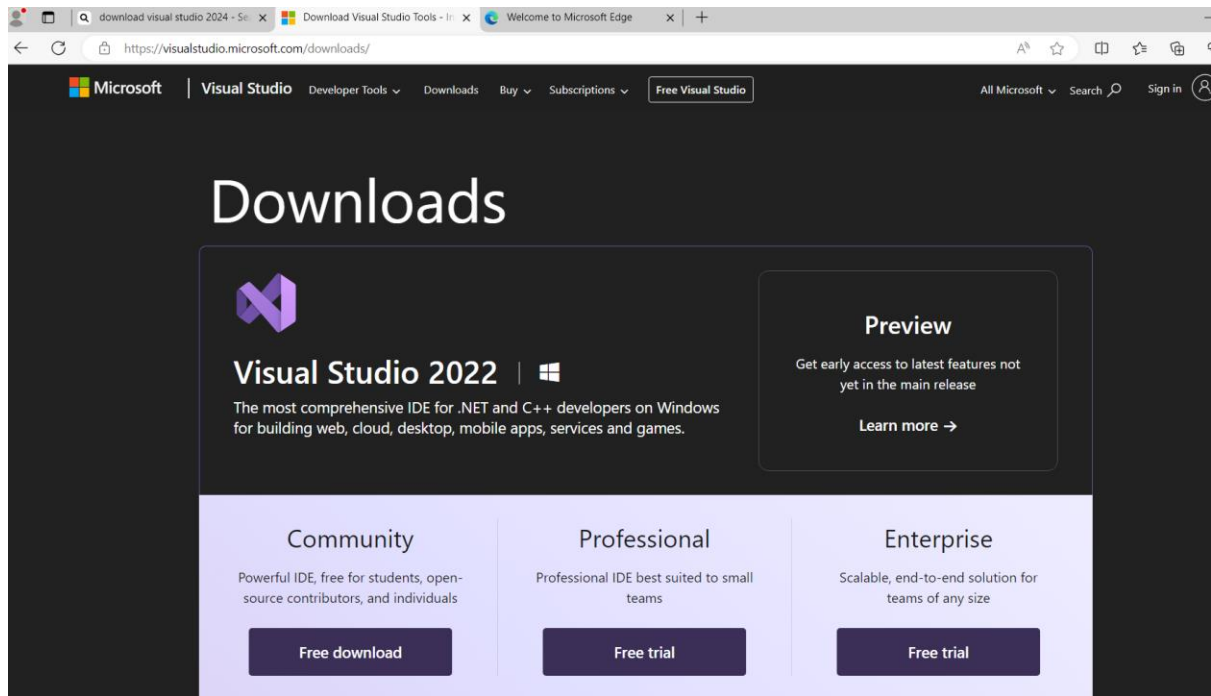
Select ASP.Net and Azure Development and Install
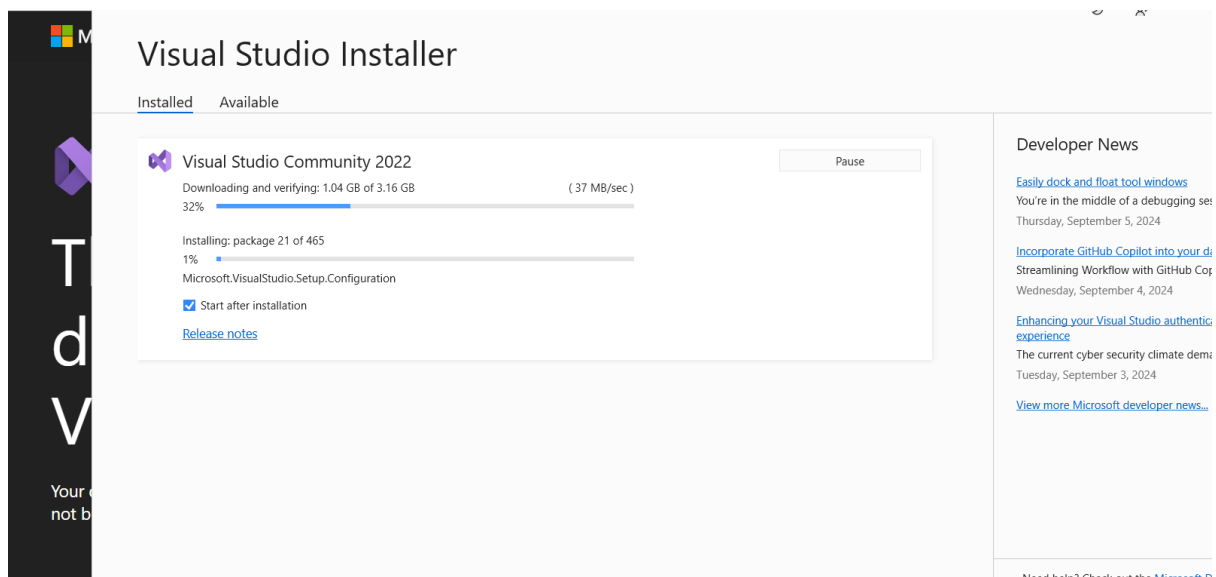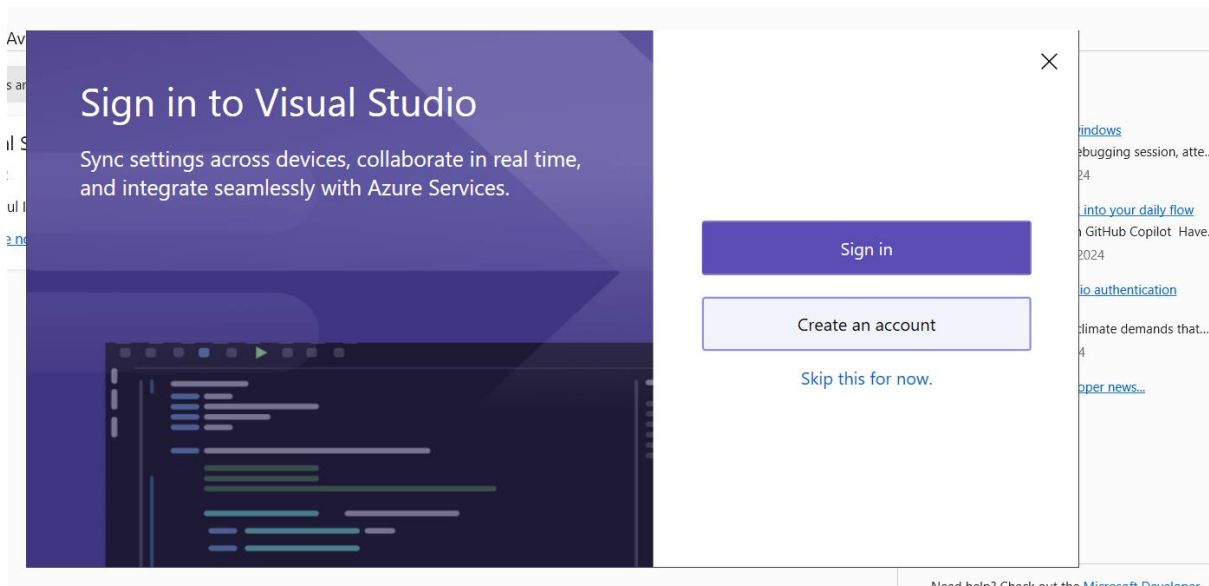
Create a simple ASP.Net Web Application Project
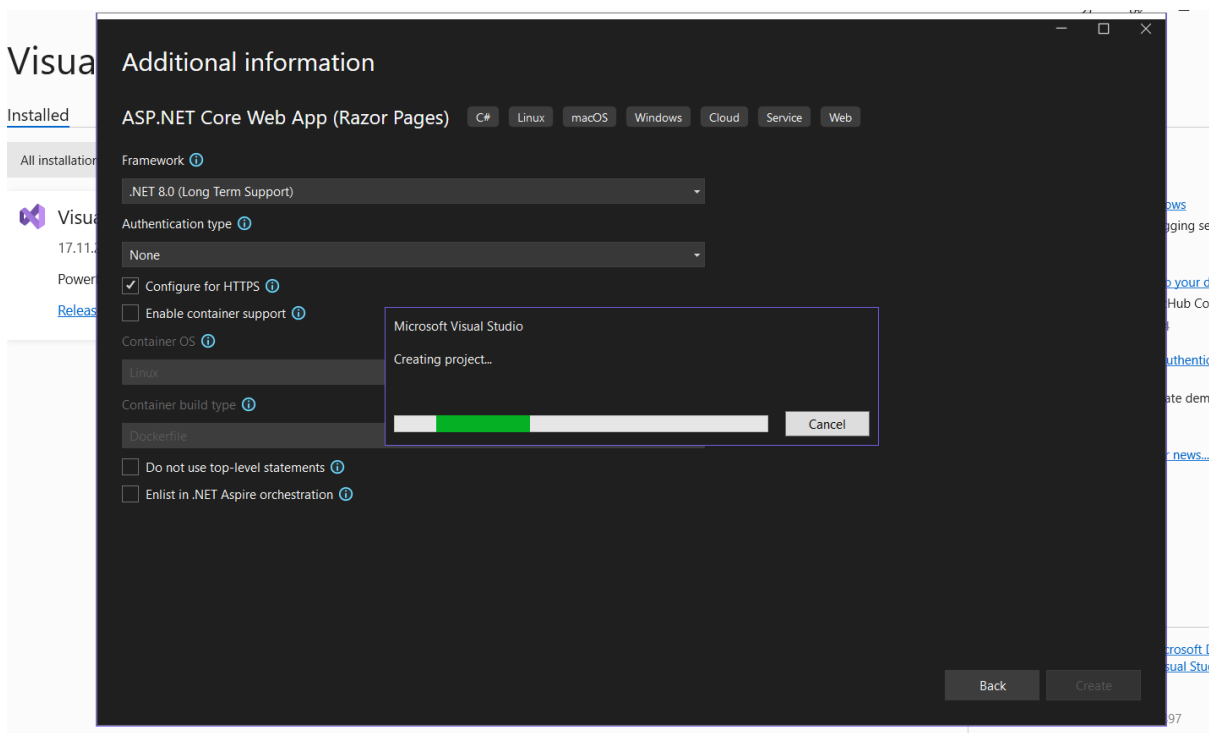
Login to AzurePortal   https://portal.azure.com/ and switch to Azure DevOps organization.
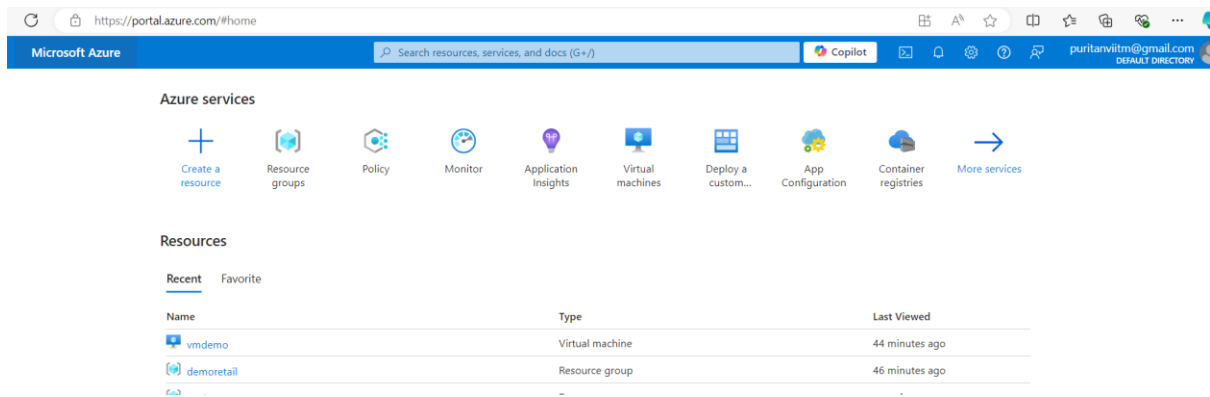
Make sure you are in your Default Directory Account
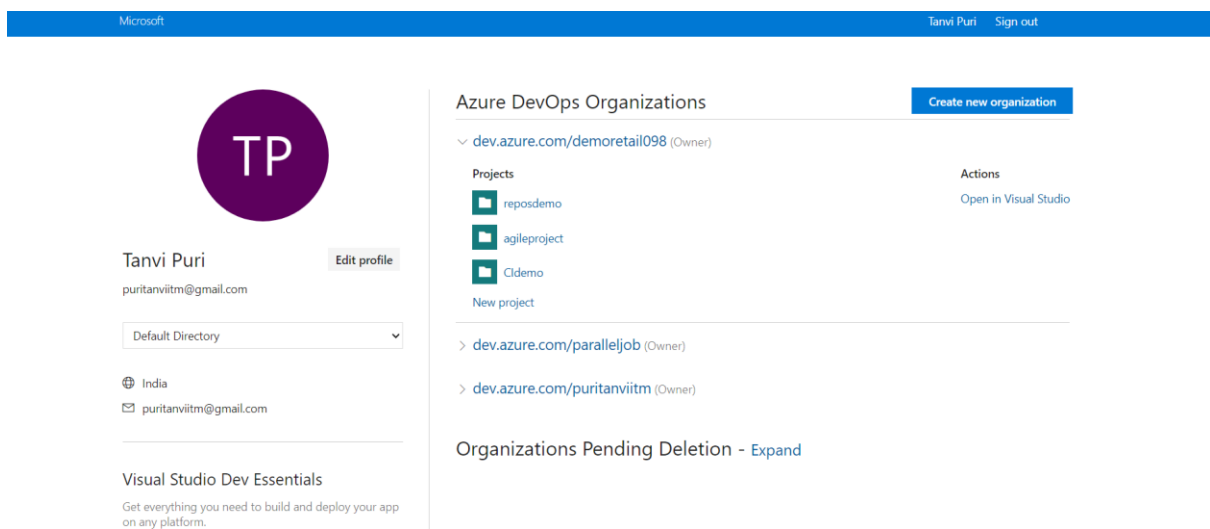
Create a new Project
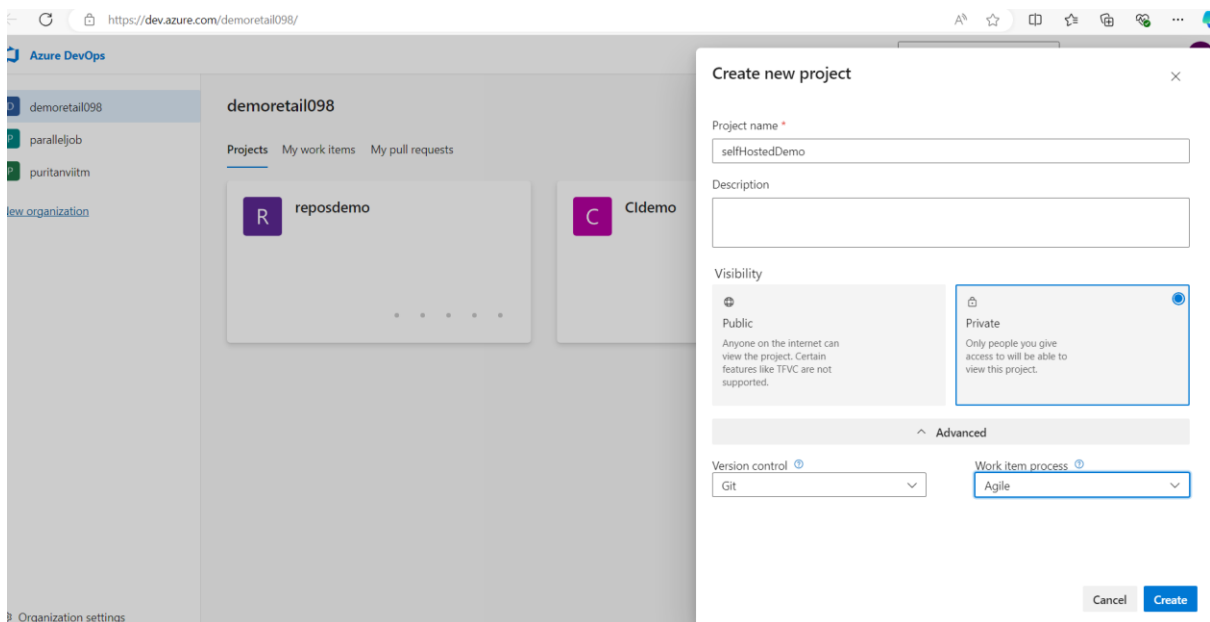
Pick up the Existing Remote Repo URL

Paste URL in Existing Git Local Repo from Visual Studio and push to Azure Remote Repository.

Go to Project Settings , navigate to Agent Pools, click on Default
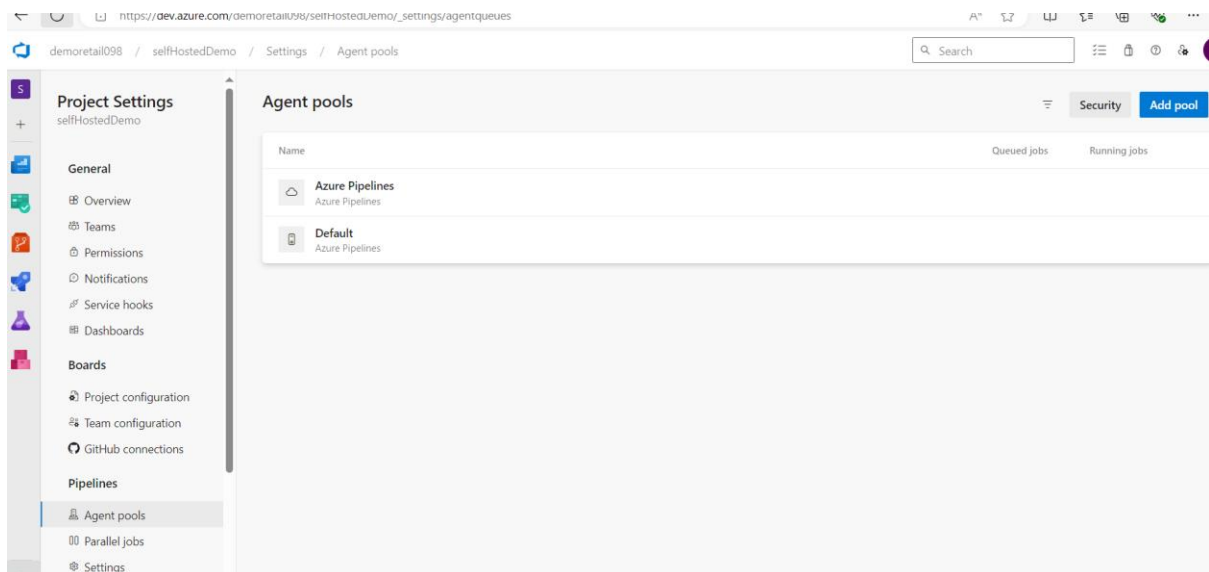
Click on new agent
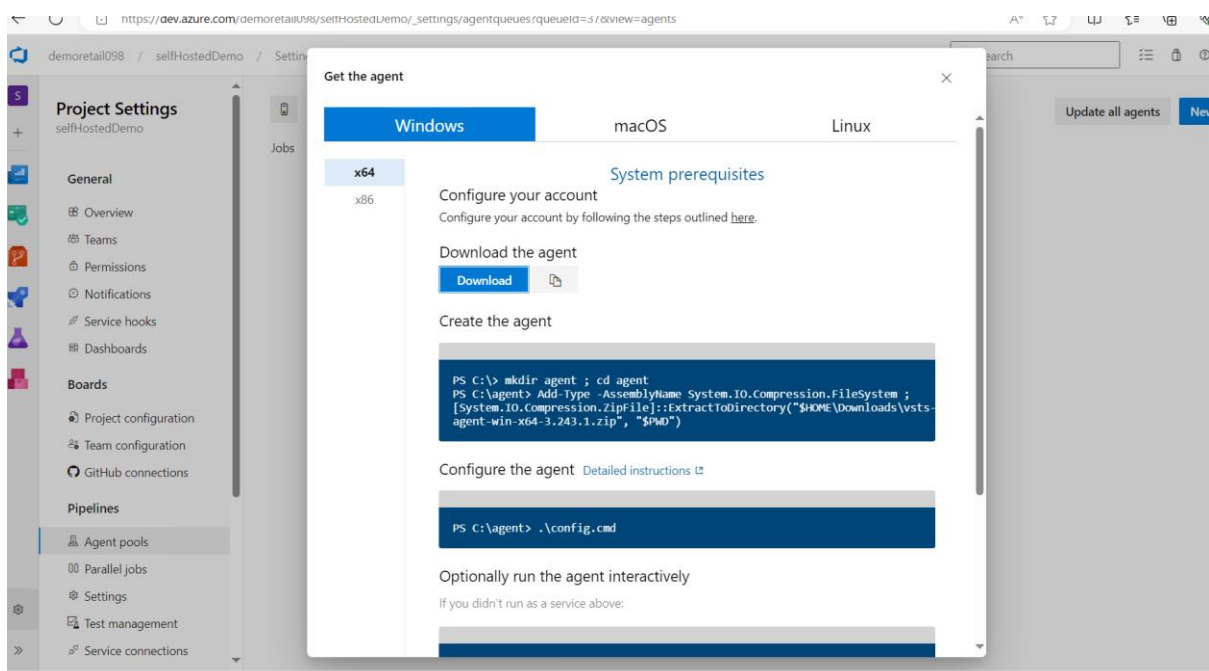
Download the agent in your VM Environment and run these commands in windows power shell in your vm.

Get the agent

```
Administrator: Windows PowerShell                                    —    □    ×

Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\azuser> cd agent
PS C:\Users\azuser\agent> Add-Type -AssemblyName System.IO.Compression.FileSystem ; [System.IO.Compression.ZipFile]::Ext
ractToDirectory("$HOME\Downloads\vsts-agent-win-x64-3.243.1.zip", "$PWD")
PS C:\Users\azuser\agent> .\config.cmd
```

Get the agent

```
Administrator: Windows PowerShell                                    —    □    ×

Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\azuser> cd agent
PS C:\Users\azuser\agent> Add-Type -AssemblyName System.IO.Compression.FileSystem ; [System.IO.Compression.ZipFile]::Ext
ractToDirectory("$HOME\Downloads\vsts-agent-win-x64-3.243.1.zip", "$PWD")
PS C:\Users\azuser\agent> .\config.cmd

    ___                      ____  _            _ _
   /   |____  _____  / __ \(_)___  ___  / (_)___  ___  _____
  / /| /_  / / / ___/ _ \ / /_/ / / __ \/ _ \/ / / __ \/ _ \/ ___/
 / ___ |/ /_/ / /  /  __// ____/ / /_/ /  __/ / / / / /  __(__  )
/_/  |_/\__,_/_/   \___//_/   /_/ .___/\___/_/_/_/ /_/\___/____/
                               /_/
       agent v3.243.1              |_|        (commit 3bb22cd)


>> Connect:

Enter server URL >
```

Enter Server URL [organization URL] and click enter for PAT

Generate PAT from Azure DevOps Portal
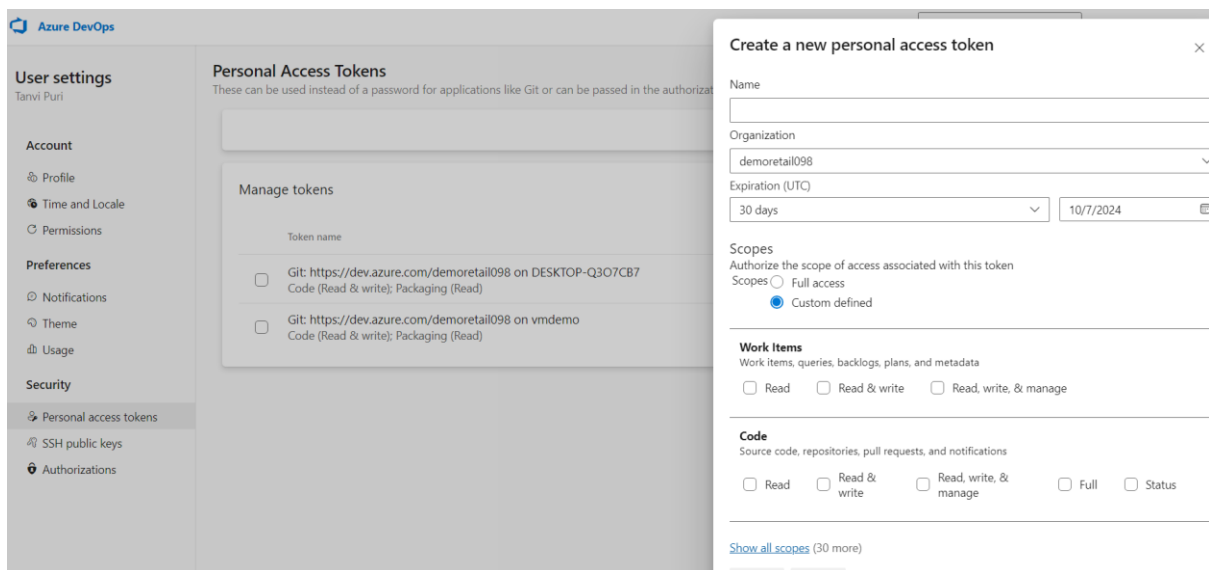
Under user settings Generate a new token and copy it somewhere else you willnot be able to see it further.

Create a new personal access token

×

Name

newtoken

Organization

demoretail098 ▾

Expiration (UTC)

30 days ▾   10/7/2024 📅

Scopes
Authorize the scope of access associated with this token

Scopes ● Full access

○ Custom defined

[Create] [Cancel]

Configure as per the following. Press enter for default values.

Observe the status as online

Create a Build pipeline

Select your Azure Git Repos
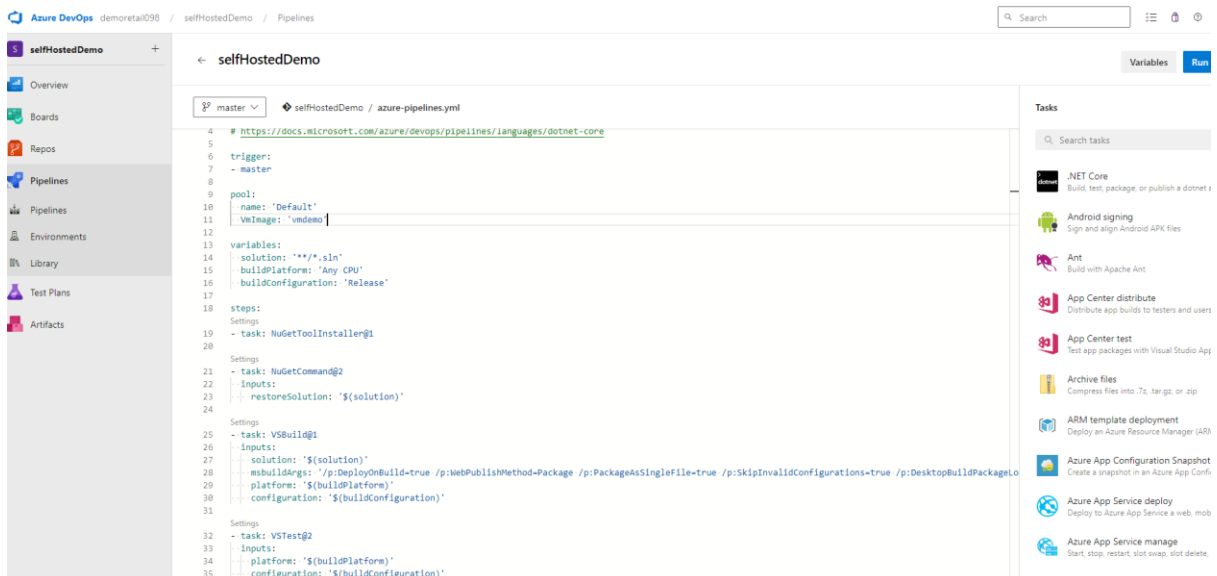

Select ASP.Net Framework
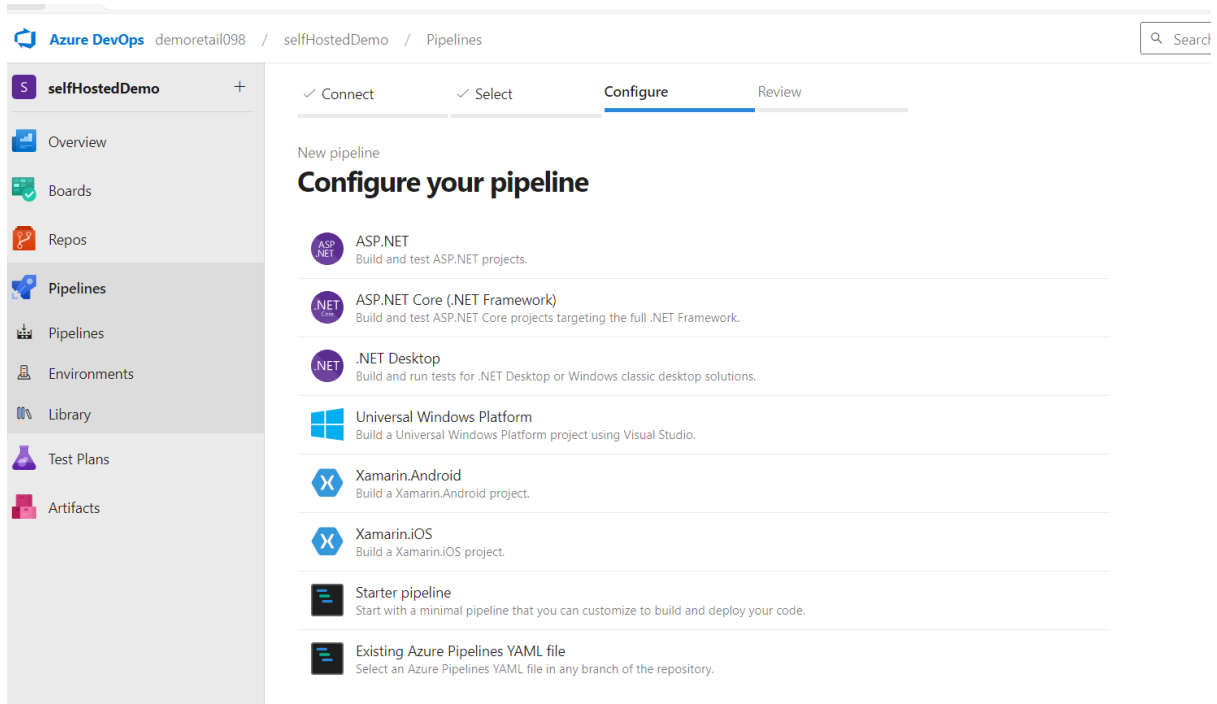
Do changes for pool in YAML Pipeline and rest other keeping as default.

pool:

  name: 'Default'

  VmImage: 'vmdemo'

Below is the YAML Code

ASP.NET Core (.NET Framework)

Build and test ASP.NET Core projects targeting the full .NET Framework.

Add steps that publish symbols, save build artifacts, and more:

https://docs.microsoft.com/azure/devops/pipelines/languages/dotnet-core

```yaml
trigger:
- master

pool:
  name: 'Default'
  VmImage: 'vmdemo'

variables:
  solution: '**/*.sln'
  buildPlatform: 'Any CPU'
  buildConfiguration: 'Release'

steps:
- task: NuGetToolInstaller@1

- task: NuGetCommand@2
  inputs:
    restoreSolution: '$(solution)'

- task: VSBuild@1
  inputs:
    solution: '$(solution)'
    msbuildArgs: '/p:DeployOnBuild=true /p:WebPublishMethod=Package /p:PackageAsSingleFile=true /p:SkipInvalidConfigurations=true /p:DesktopBuildPackageLocation="$(build.artifactStagingDirectory)\WebApp.zip" /p:DeployIisAppPath="Default Web Site"'
    platform: '$(buildPlatform)'
    configuration: '$(buildConfiguration)'

- task: VSTest@2
  inputs:
    platform: '$(buildPlatform)'
```

configuration: '$(buildConfiguration)'

Run the Pipeline.