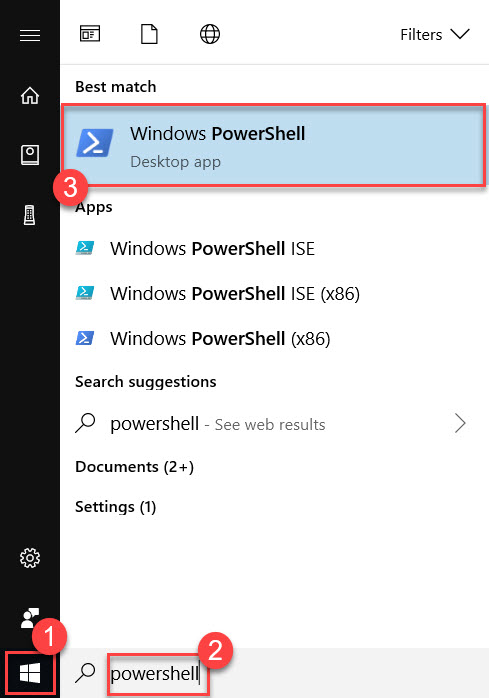
**Create Windows Server 2019 Virtual Machine using PowerShell**

**Step 1:** Click on **Windows** button & search for **powershell**.



**Step 2:** Enter below command to install **AzureRM Module**

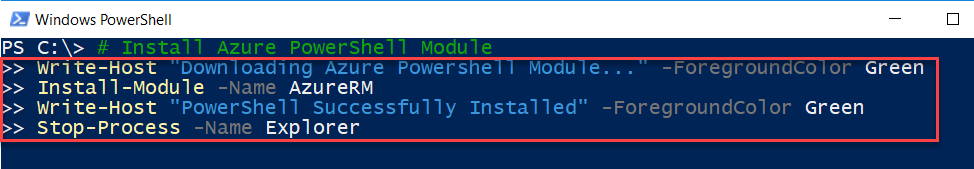
# Install Azure PowerShell Module

Write-Host "Downloading Azure Powershell Module..." -ForegroundColor Green

Install-Module -Name AzureRM

Write-Host "PowerShell Successfully Installed" -ForegroundColor Green

Stop-Process -Name Explorer

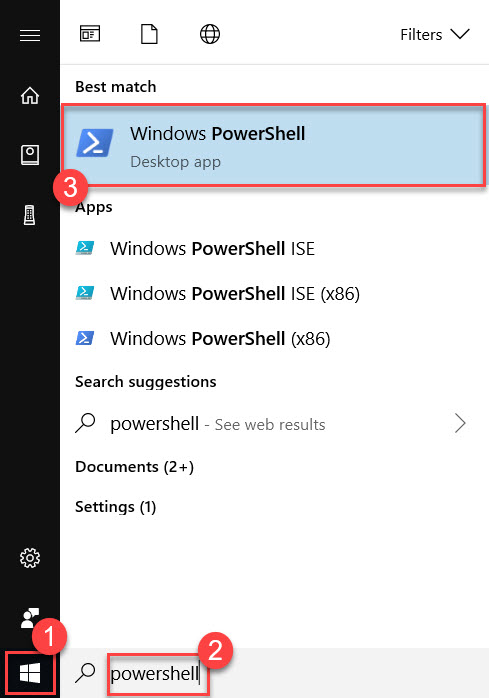


Wait for few minutes to install Azure PowerShell Module.

Close PowerShell.

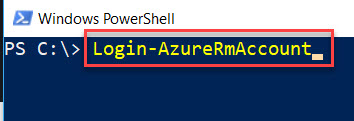
**Step 3:** Click on **Windows** button & search for **powershell**.

Click **Windows PowerShell**

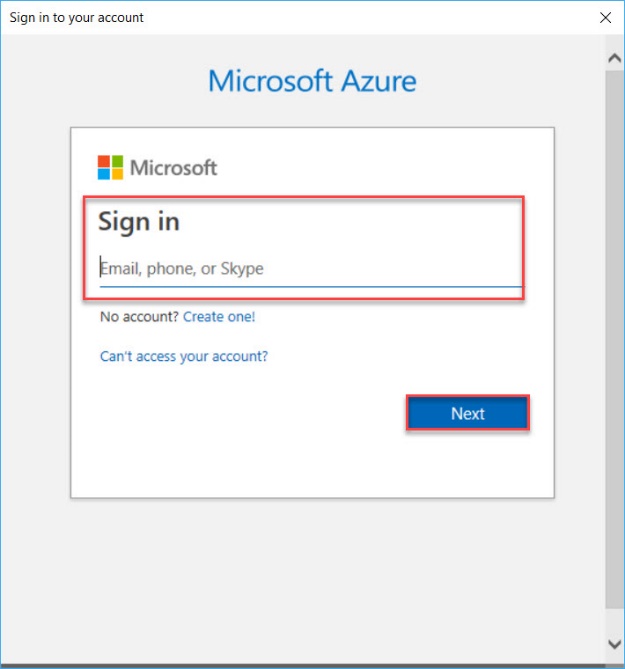


**Step 4:** PowerShell available on local machine so we need to connect Microsoft Azure account to local machine via PowerShell using below command:

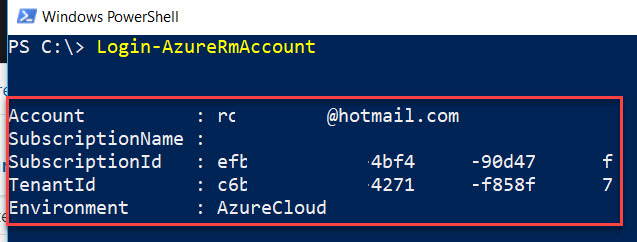
Login-AzureRmAccount or *Connect-AzureRmAccount*



Enter Microsoft Azure Account Credentials

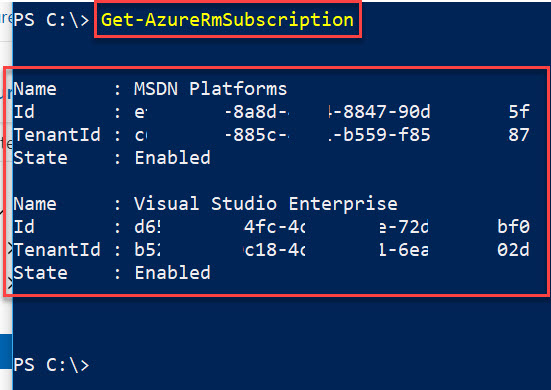


Account Details will load as below



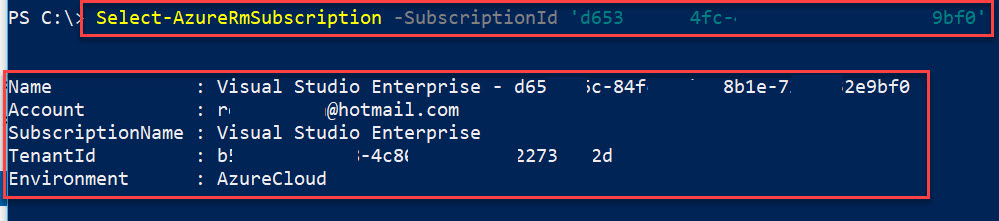
**Step 5:** List all Azure Subscription associated with email id.

*Get-AzureRmSubscription*



**Step 6**: if multiple Azure subscription associated with account need to select subscription as default

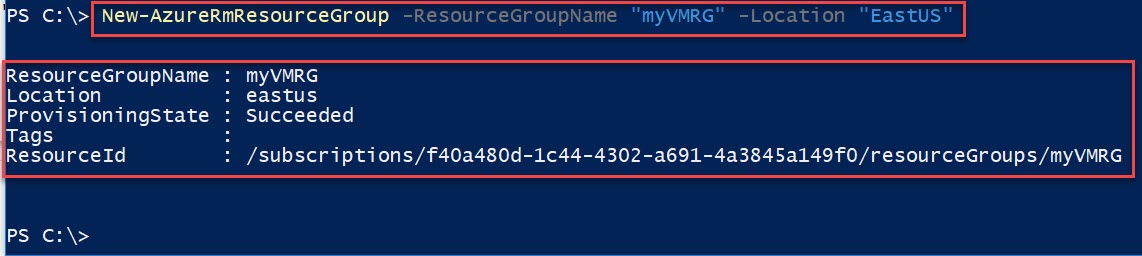
*Select-AzureRmSubscription -SubscriptionId ‘amciw4j-84oejjd-383ks-3jkskd84jfoqlf’*



It will select as default

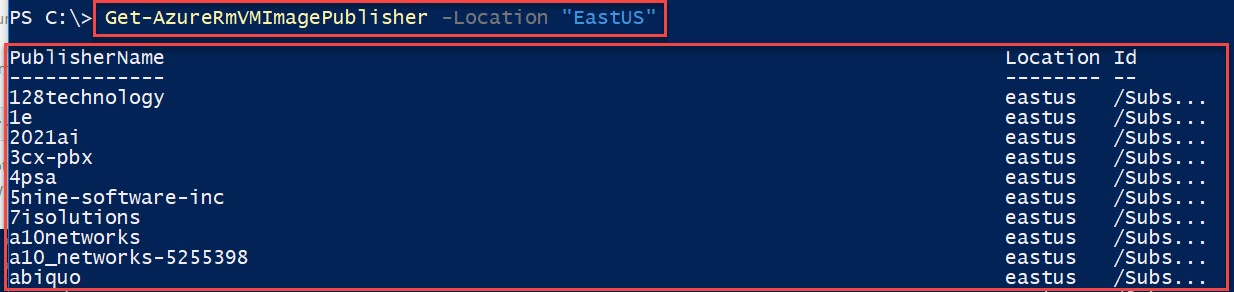
**Step 7:** First we need to create **Resource Group**

*New-AzureRmResourceGroup -ResourceGroupName "myVMRG" -Location "EastUS"*



**Step 8:** Below command will list of **Publishers** available in the **EastUS** location.

*Get-AzureRmVMImagePublisher -Location "EastUS"*

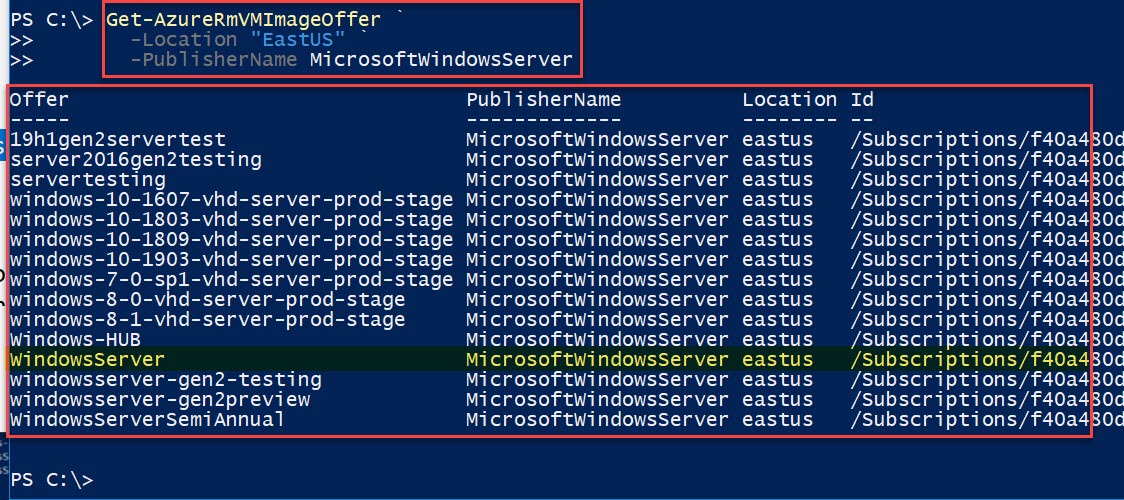


**Step 9:** To list **Image offering** of **Microsoft Windows Server** with **EastUS** location.

*Get-AzureRmVMImageOffer `*

*-Location "EastUS" `*

*-PublisherName MicrosoftWindowsServer*



**Step 10:** Now it will list out **VM Images** of criteria such as location: **EastUS, PublisherName: MicrosoftWindowsServer, Offer: WindowsServer**

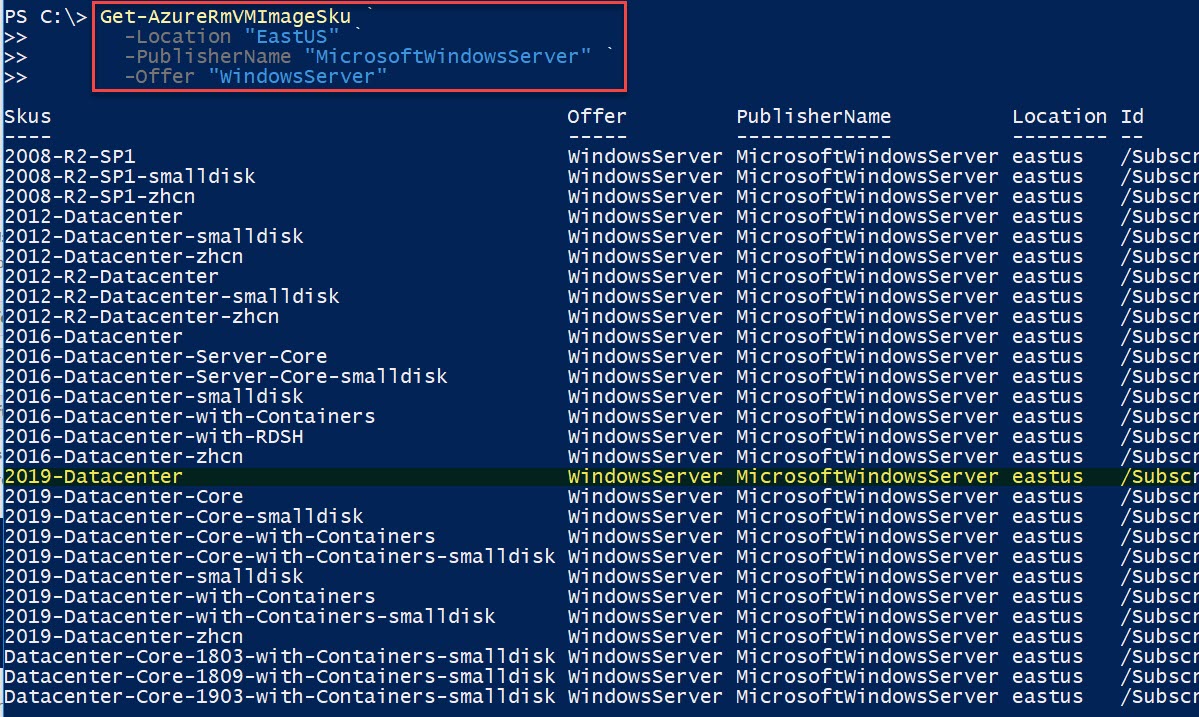
For this demo we are using **Windows Server 2019 Datacenter**

*Get-AzureRmVMImageSku `*

*-Location "EastUS" `*

*-PublisherName "MicrosoftWindowsServer" `*

*-Offer "WindowsServer"*

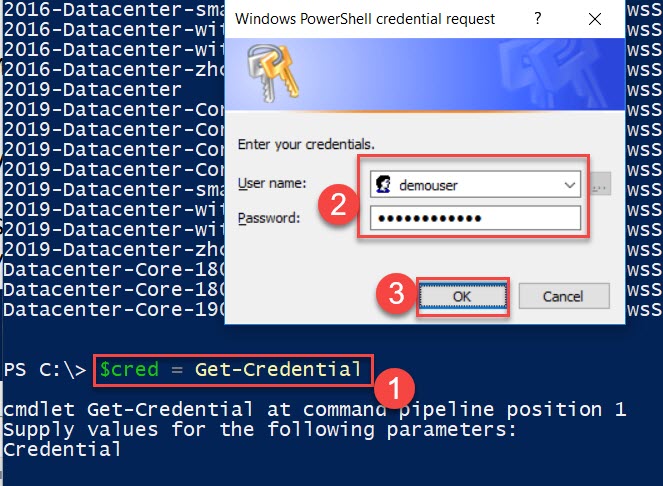


**Step 11:** Before deploying Virtual Machine, we are passing **Credentials** for that.

*$cred = Get-Credential*

Username: **demouser**

Password: **demo@pass123**



**Step 12:** To **Create Virtual Machine** run below command:

*New-AzureRmVm `*

*-ResourceGroupName "myVMRG" `*

*-Name "myVM" `*

*-Location "EastUS" `*

*-VirtualNetworkName "myVnet" `*

*-SubnetName "mySubnet" `*

*-SecurityGroupName "myNSG" `*

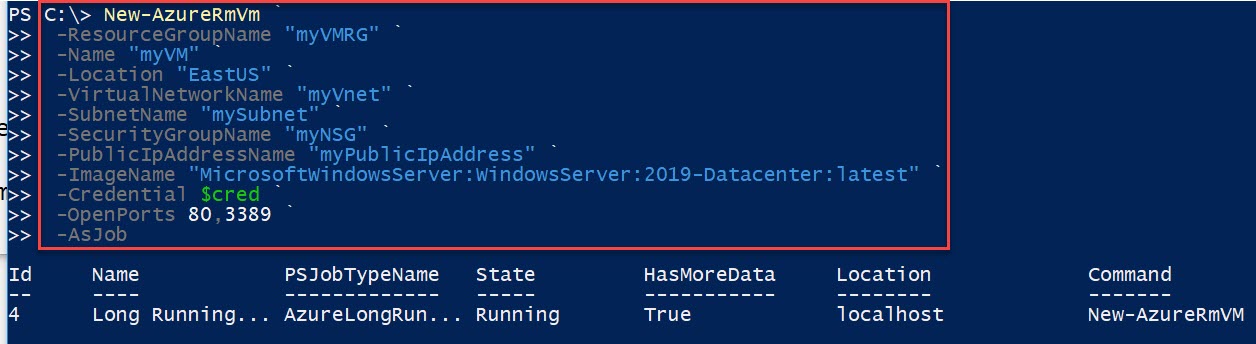
*-PublicIpAddressName "myPublicIpAddress" `*

*-ImageName "MicrosoftWindowsServer:WindowsServer:2019-Datacenter:latest" `*

*-Credential $cred `*

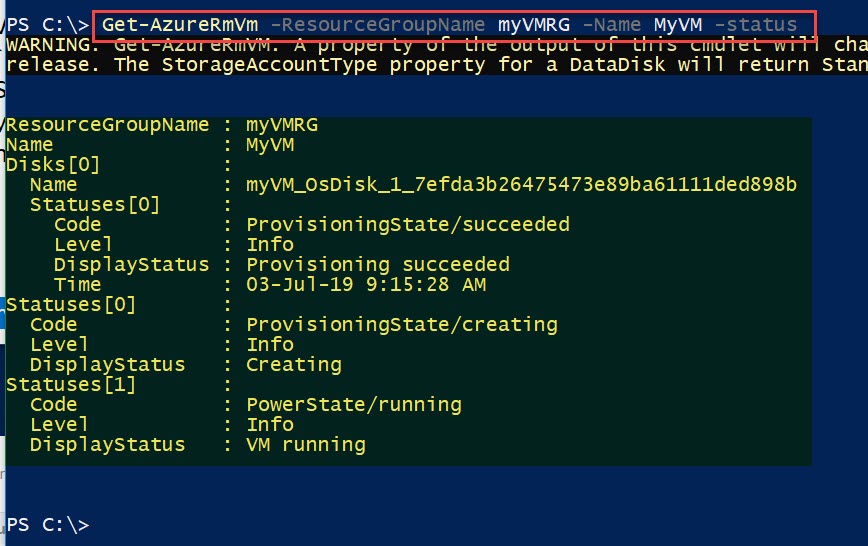
*-OpenPorts 80,3389 `*

*-AsJob*



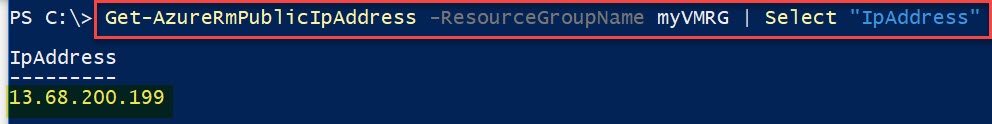
**Step 13:** Check to **status of Virtual Machine** run below command:

*Get-AzureRmVm -ResourceGroupName myVMRG -Name myVM -status*



**Step 14:** Get the **Public IP Address** of Virtual Machine

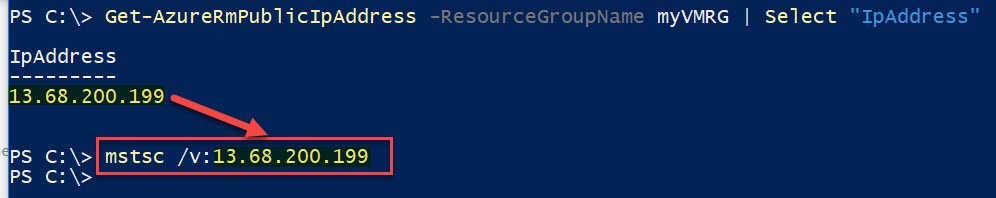
*Get-AzureRmPublicIpAddress -ResourceGroupName myVMRG | Select "IpAddress"*



**Step 15:** Now time to **Connect** of Virtual Machine via **RDP**

*mstsc /v:PublicIPAddress*

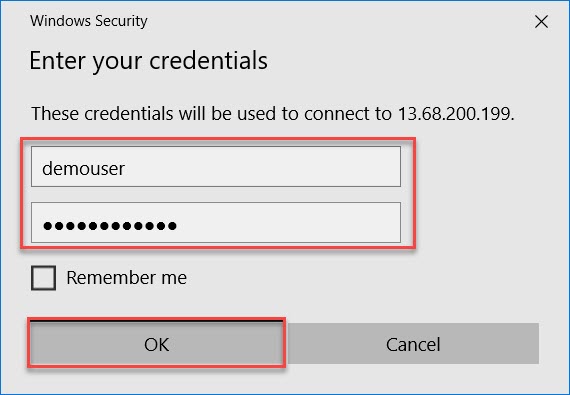
Ex. mstsc /v:13.68.200.199



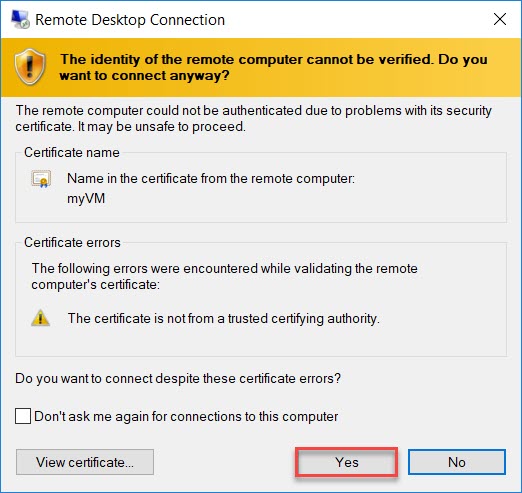
**Step 16:** Enter Virtual Machine Credentials

Username: demouser

Password: demo@pass123

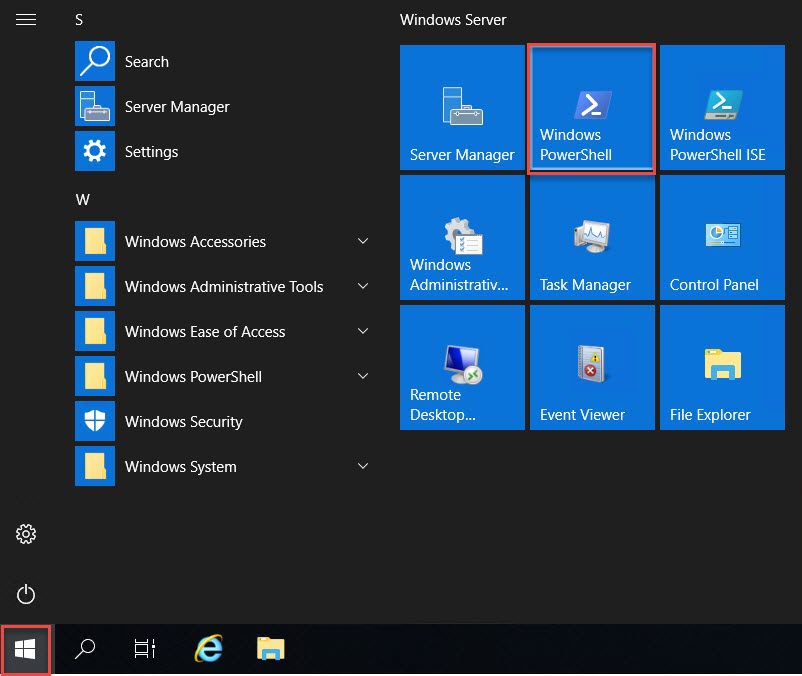


Click on **Yes** button



**Step 17:** Wait for few seconds Windows Server 2019 Datacenter will load.

Click on **Start** button and click on **Windows PowerShell**



**Step 18:** Run below command to **Install IIS** and add **sample HTML website**

*#Install IIS*

*Install-WindowsFeature -name Web-Server -IncludeManagementTools*

*#Download Sample Web Project*

*(New-Object Net.WebClient).DownloadFile('https://github.com/romilbheda/azurevm-powershell-demo1/raw/master/DemoApp.zip','C:\inetpub\wwwroot\DemoApp.zip');(new-object -com shell.application).namespace('C:\inetpub\wwwroot').CopyHere((new-object -com shell.application).namespace('C:\inetpub\wwwroot\DemoApp.zip').Items(),16)*

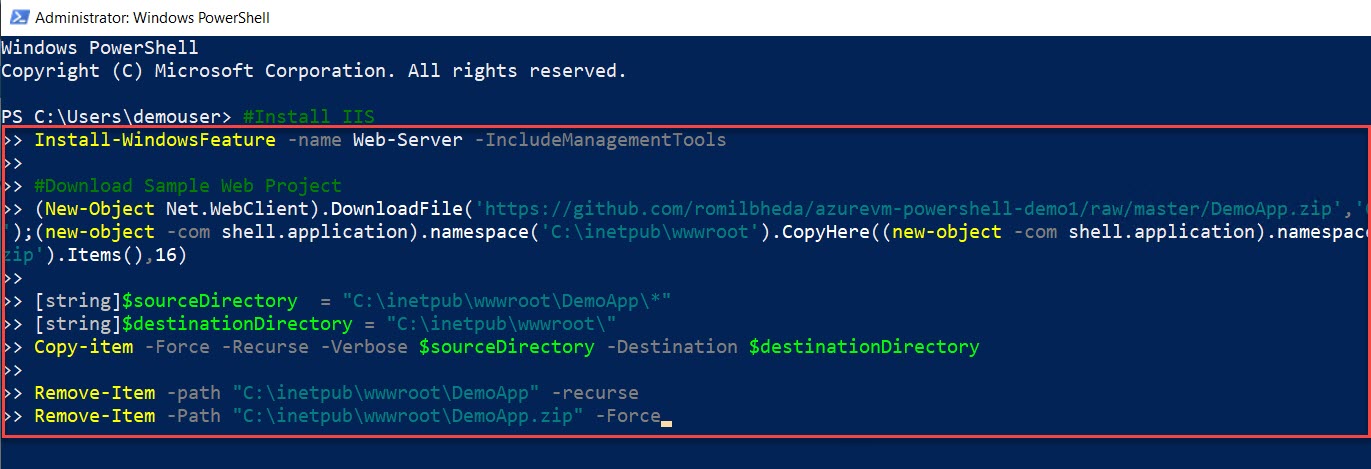
*[string]$sourceDirectory = "C:\inetpub\wwwroot\DemoApp\\*"*

*[string]$destinationDirectory = "C:\inetpub\wwwroot\"*

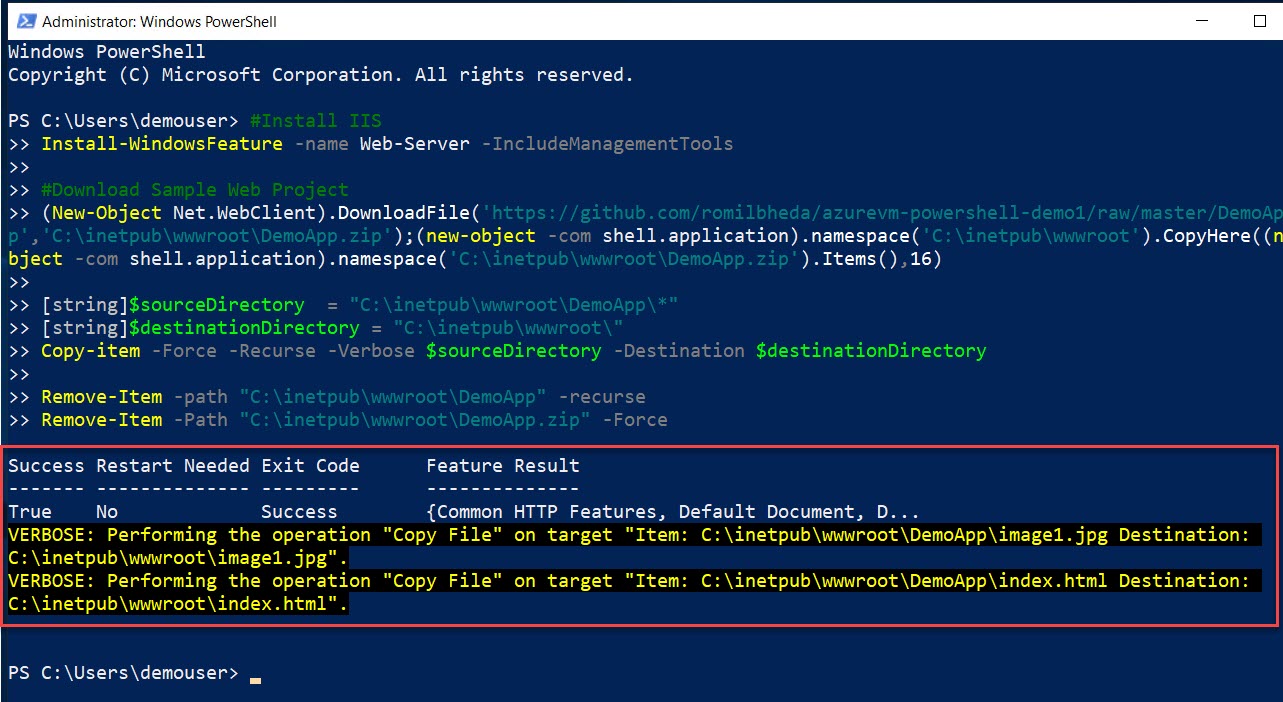
*Copy-item -Force -Recurse -Verbose $sourceDirectory -Destination $destinationDirectory*

*Remove-Item –path "C:\inetpub\wwwroot\DemoApp" –recurse*

*Remove-Item -Path "C:\inetpub\wwwroot\DemoApp.zip" -Force*



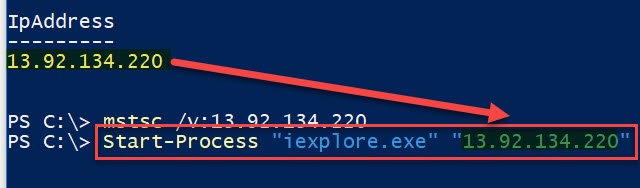
Output will be as below:



**Step 19:** Minimize Virtual Machine, back to normal machine and run below command to test from Browser.

*Start-Process "iexplore.exe" "http://IPAddress"*

Ex. Start-Process "iexplore.exe" "http://13.68.200.199"



Internet Explorer will open with IP Address and site will run as below:

