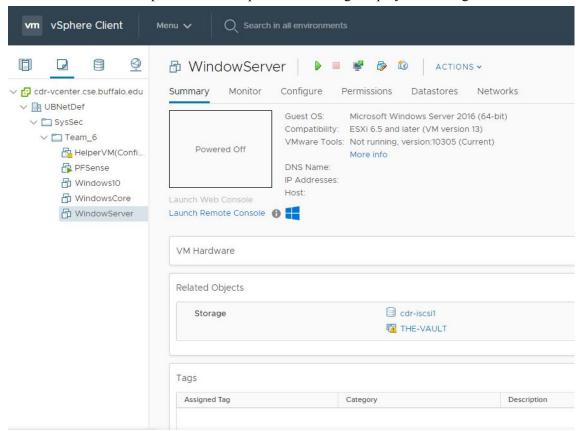
WINDOWS Homework

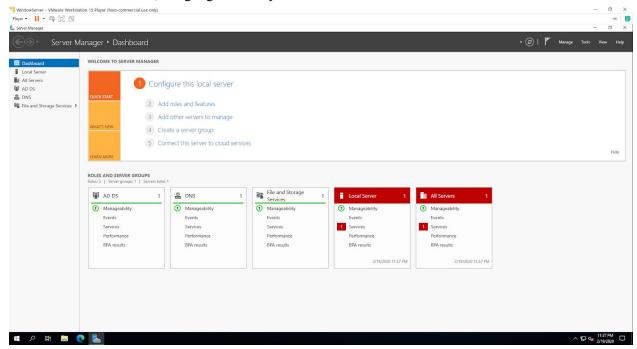
Server 2019 Setup and Operations

1. First login to your vCenter account and power on the Windows Server 2019 VM by going to the Windows Server 2019 Option on the left pane and clicking the play button in green.

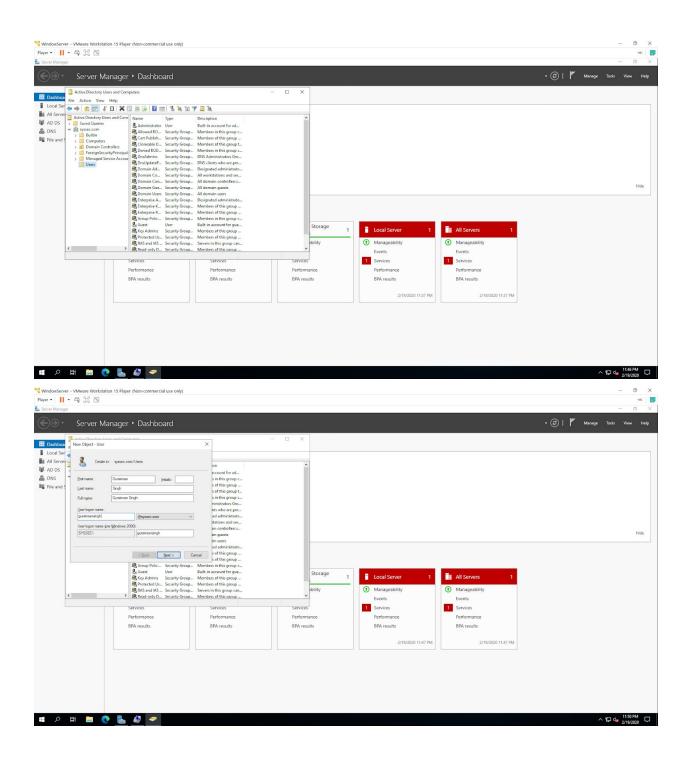


2. After the windows loads, wait for the server manager to open up, it will be as shown below. Note - At this point Active Directory is Setup with domain name as shown in the class, so it is not

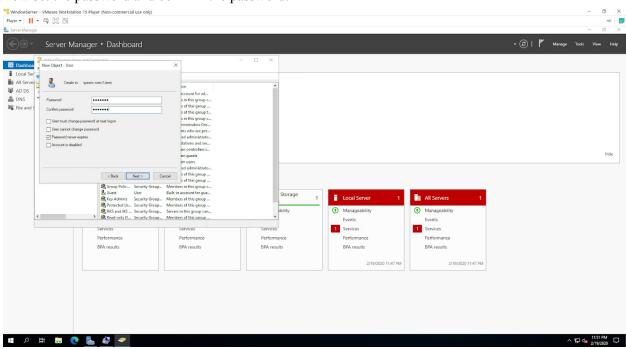
covered in this document, but google is always there.



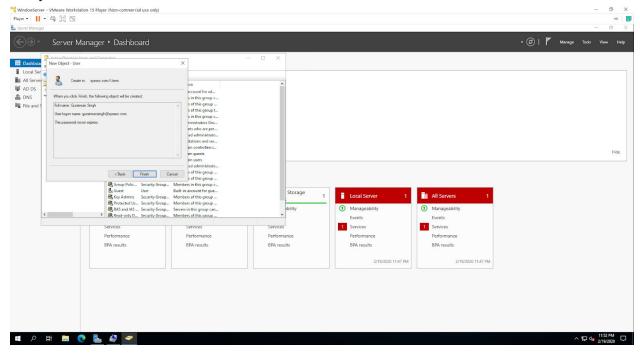
3. From the top right corner, goto Tools > Active Directory Users and Computers > syssec.com > Users , and right click on Users and goto New>Users and fill in user details as shown in figure below.



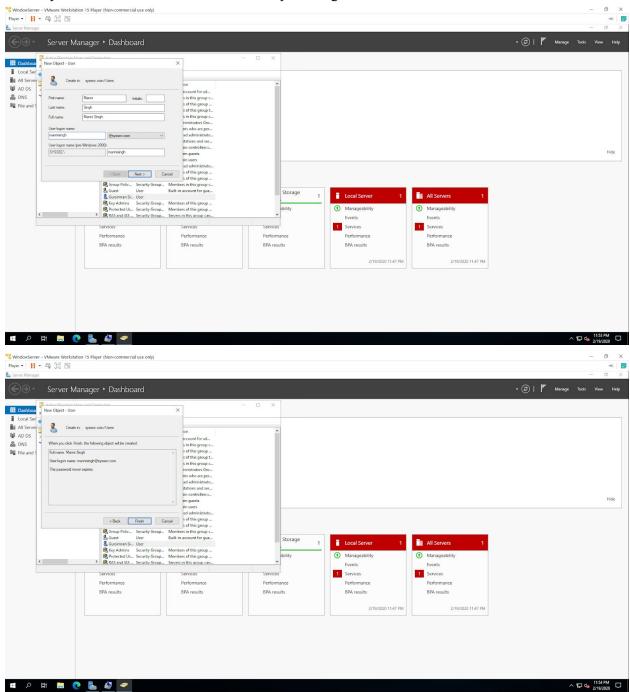
4. Now set the password and confirm the password.



5. Verify the information and click Finish.

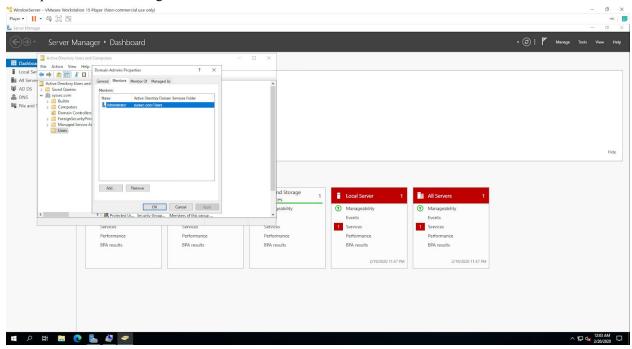


6. Similarly do it for a another user and confirm by clicking Finish.

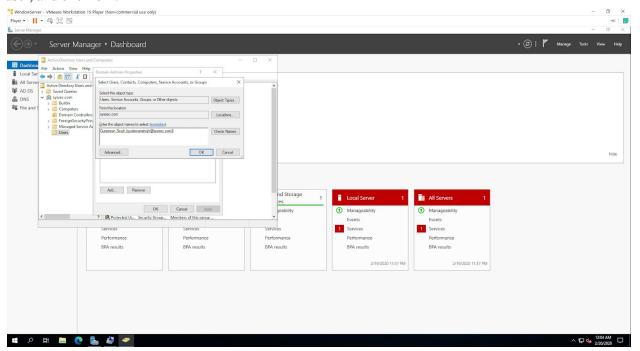


7. Within Users on the Active Directory Users and Computers window, on the right panel, search for Domain Admins group and right click on it and goto properties. From the window, click the

Add option as shown in figure below.

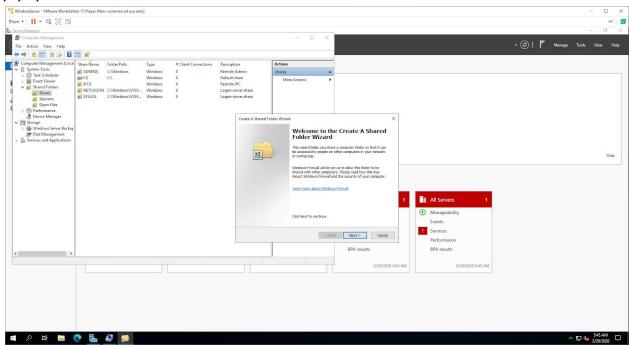


8. Enter the initials of user you want to make admin and click check names and select the desired user, and click OK.

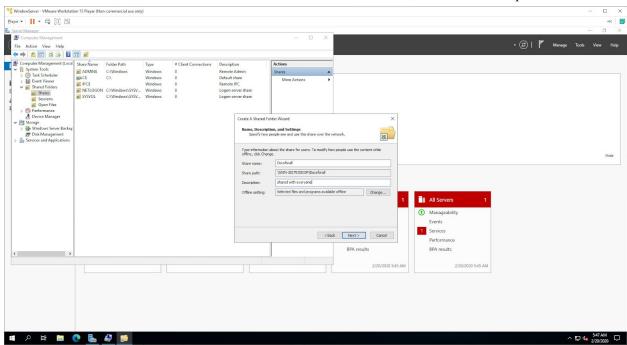


9. Now exit the window and goto Tools > Computer Management > System Tools > Shared Folders, and right click on shared folder and select creating new folder option. The following window will

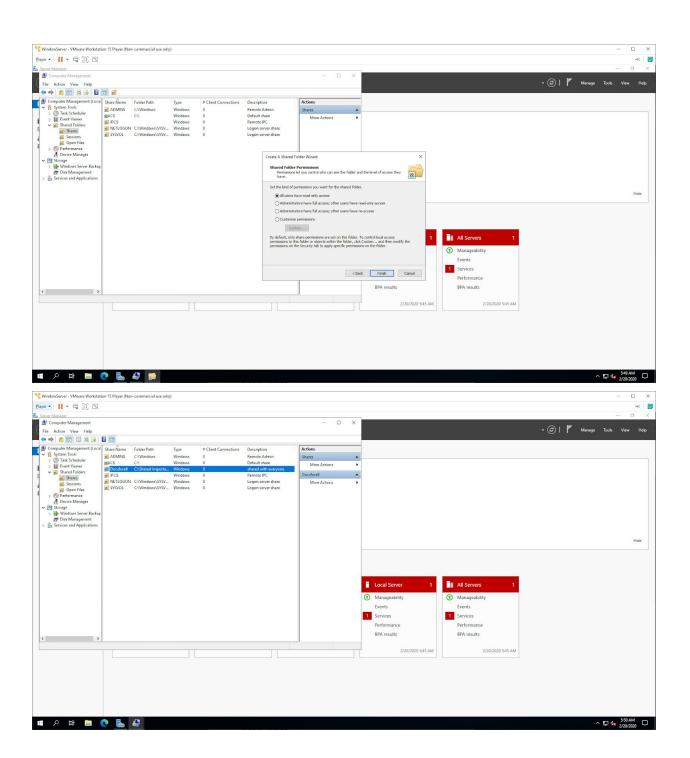
pop up.



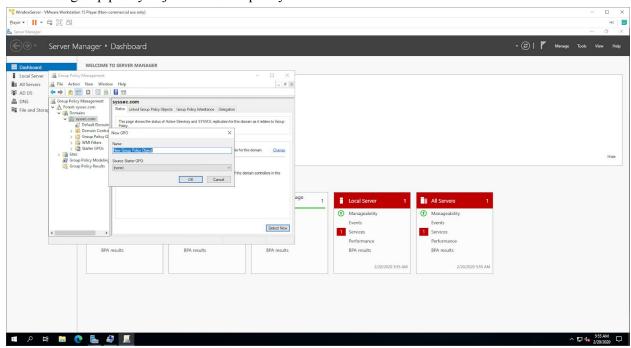
10. Now select the desired location for the folder and after that set a folder name and description.



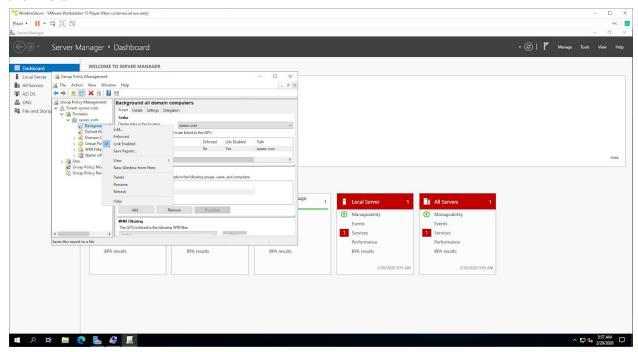
11. Now select all users have read access only option and click finish. You will see a folder created with the desired name as shown below.



12. Now goto Tools > Group Policy Management > Domains > Right click on syssec and select create new group policy object. Enter the policy Name as shown below.

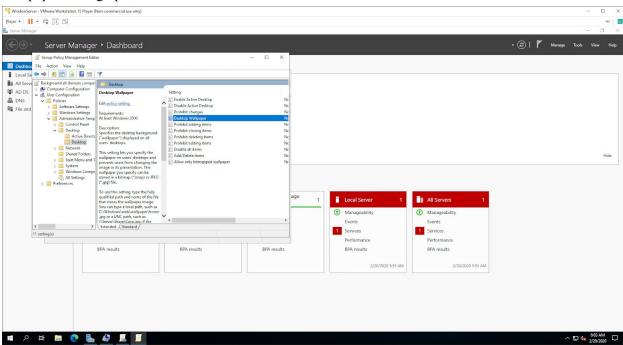


13. Now right click on newly created policy and Select Enforced. Again right click on syssec and click Edit.

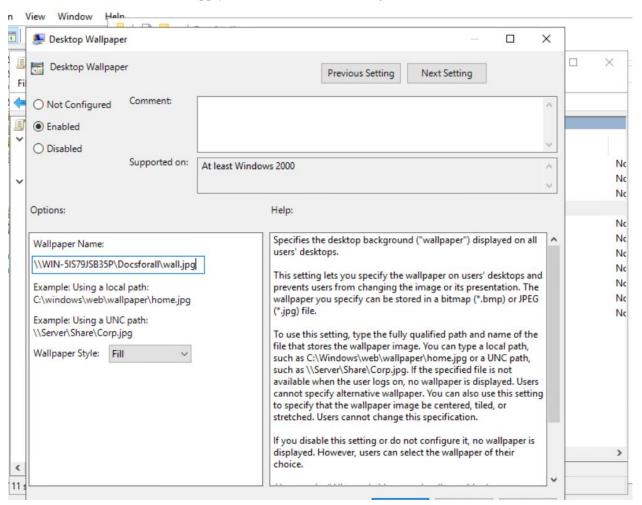


14. In the new window Group Policy Management Editor goto User Configuration > Policies > Administrative Templates > Desktop > Desktop. In the right panel, you can see a Desktop

Wallpaper setting option. Click on it.

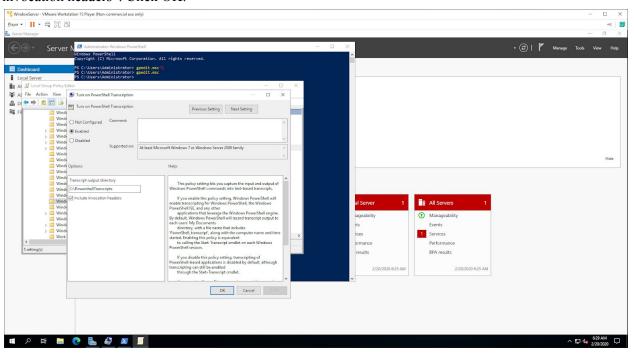


15. Enter the path to the wallpaper image, which should be inside the shared folder you created, and click enabled button, then click apply and OK to save the settings.

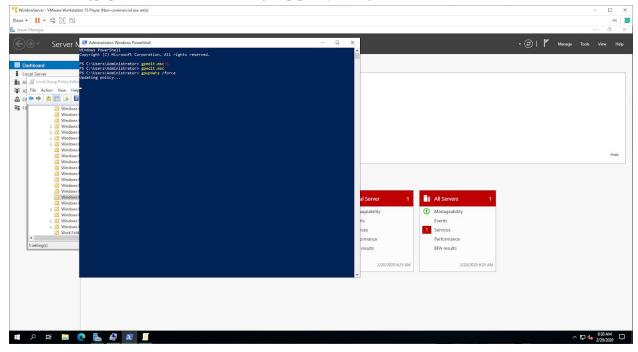


- 16. In the Group Policy management Window select the Desktop Wallpaper setting policy and on the right panel under security filtering add domain computers group and click ok.
- 17. Another way of opening the Group Policy Management Editor is by typing the following command in powershell gpedit.msc .
- 18. Click on Local Group Policy > Computer Configuration > Administrative Templates > Windows Components > Windows PowerShell and double-click on "Turn on PowerShell Transcription". Click on Enable and enter your prefered Output Directory. You can also activate "Include"

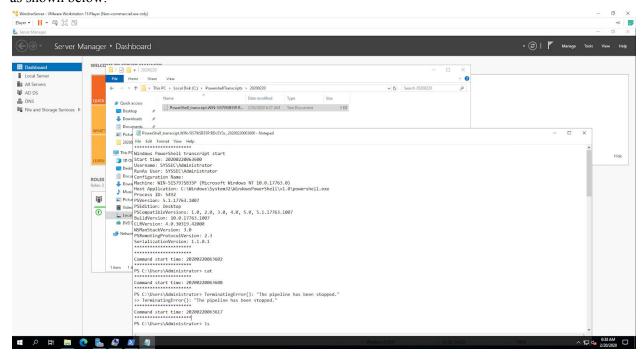
invocation headers". Click OK.



19. Now execute gpupdate /force to reflect the group policy changes as shown below.

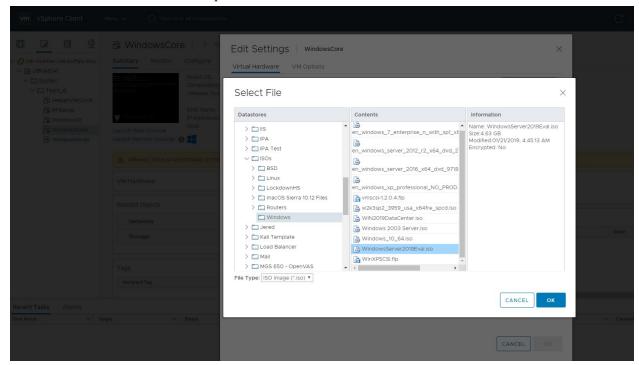


20. You can check the directory you selected for transcripts after typing any commands in powershell as shown below.

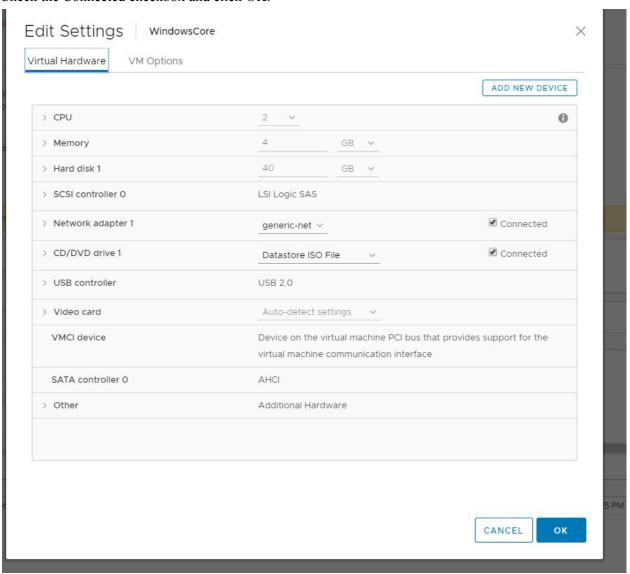


Server Core Setup and Configuration

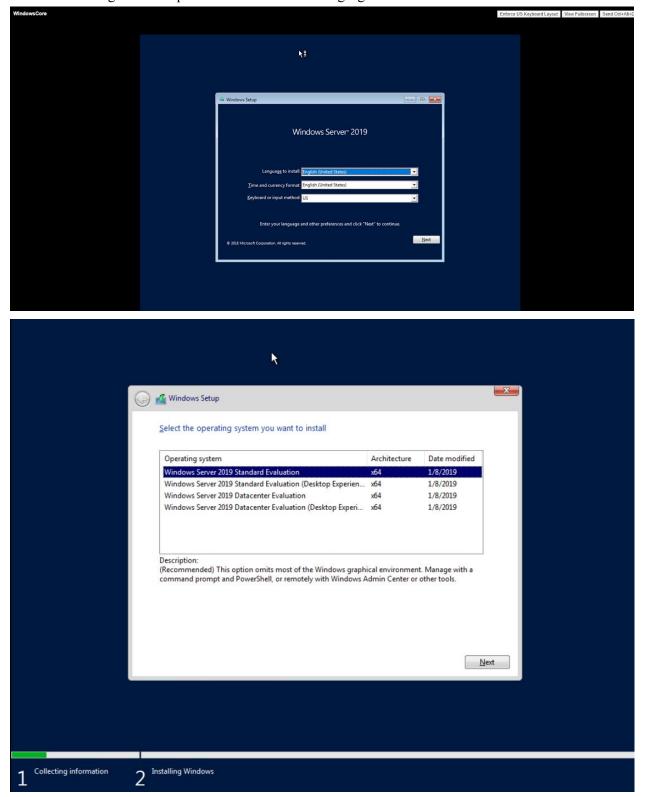
1. Now goto vSphere Client and right click on Windows Core VM option on the left side bar and select Edit. Change the CD/DVD Drive option to Data ISO and goto cdr-iscsi1>ISO>Windows and Select Windows Server 2019 option as shown below.

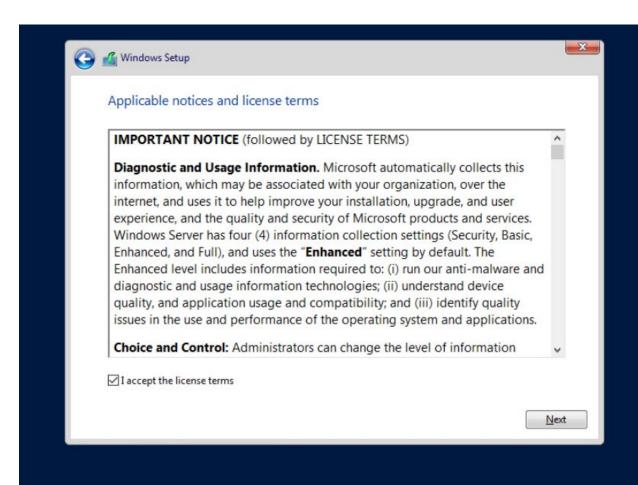


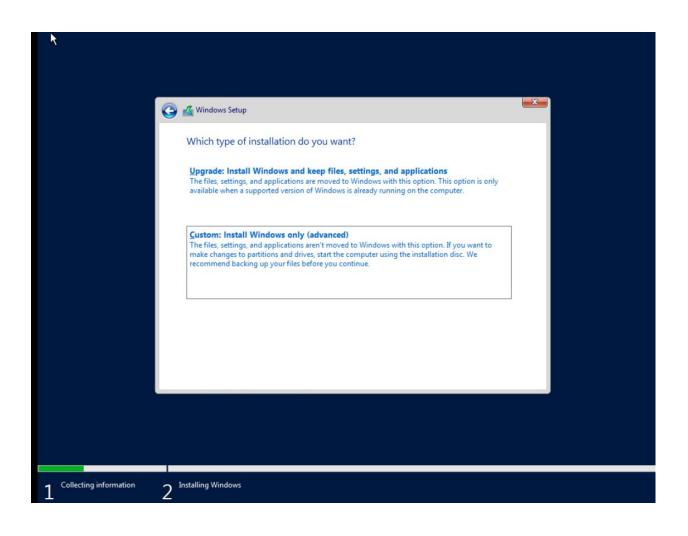
2. Check the Connected checkbox and click OK.

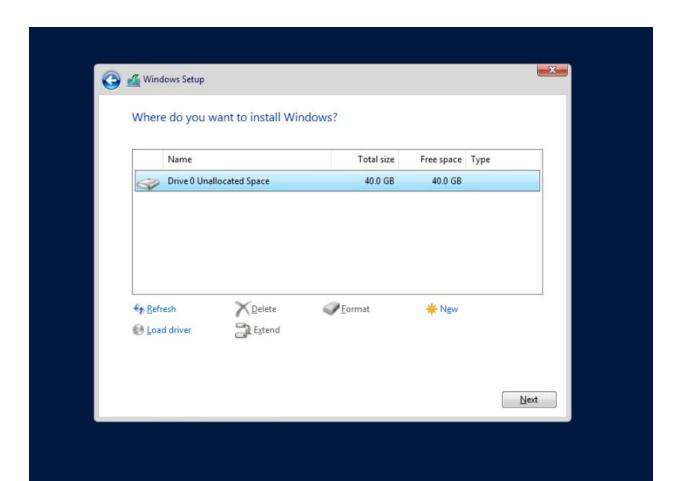


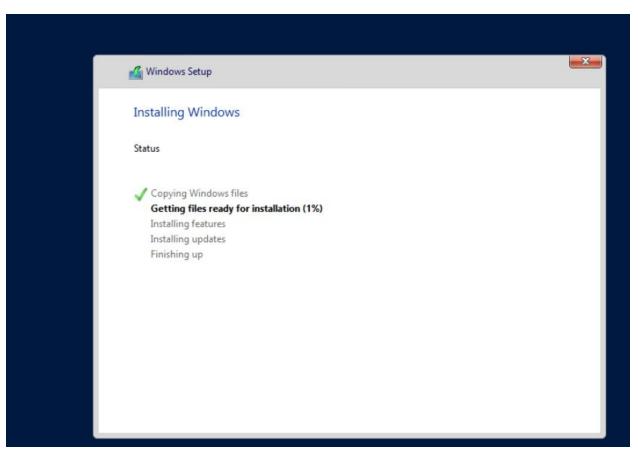
3. Follow the Configuration steps as shown in the following figures.









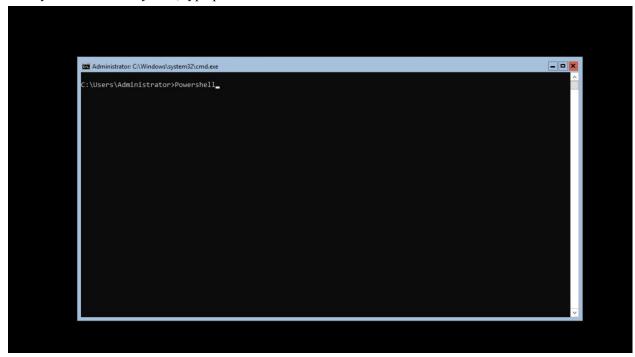


4. Enter a New Password for the machine and confirm it.

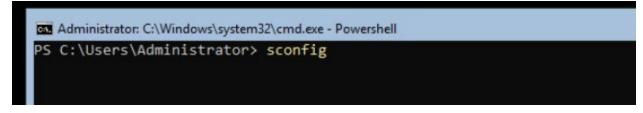
```
□ C:Windowslaystem32LogonULexe
Enter new credentials for Administrator or hit ESC to cancel
New password :

Confirm password :
```

5. After you are into the system, type powershell to activate Powershell as shown below.



6. Type command sconfig and hit enter.



7. From the new menu select Network Settings option, and then DNS Setting and set DNS to 10.42.6.1, which is your AD.

```
Administrator.CAWindowstoystem32\cmd.exe - Powershell

Enter subnet mask (Blank = Default 255.0.0.0): 255.255.255.0

Enter default gateway: 10.42.6.1

Setting NIC to static IP...

Network Adapter Settings

NIC Index

Intel(R) 82574L Gigabit Network Connection
IP Address
10.42.6.3 fe80: 6cd1:cba5:cd7:27d1

Subnet Mask
255.255.255.256
DIMCP enabled False
Default Gateway
10.42.6.1
Preferred DNS Server
11. Set Network Adapter Address
22. Set DNS Servers
33. Clear DNS Server 5ettings
43. Return to Main Menu

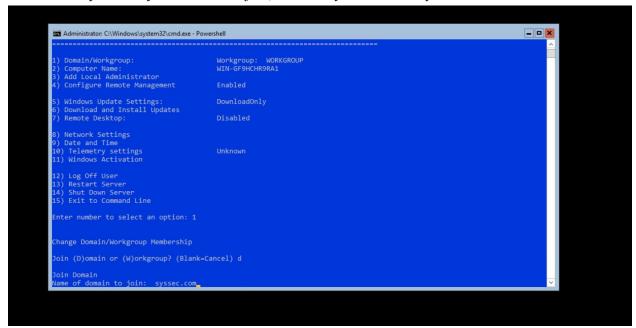
Select option: 2
DNS Servers

Enter new preferred DNS server (Blank-Cancel): 10.42.6.70
```

8. Now in the Network Settings menu select the Network Address Settings option and set IP of machine which in my case is 10.42.6.3 and subnet mask as 255.255.255.0.

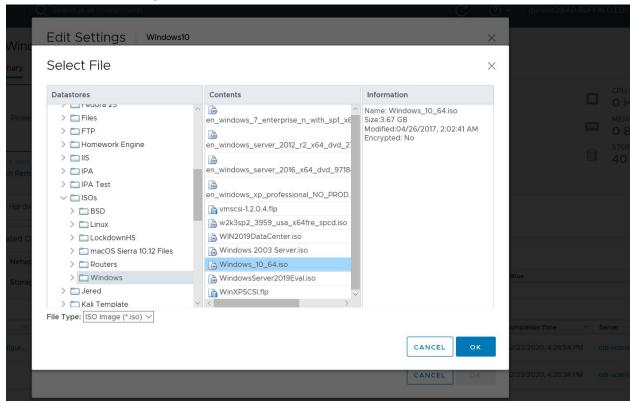
9. Do ipconfig and ping to check your network as shown below.

10. Now goto the main menu in sconfig and select option 1 and then d for domain and type the domain name you want your machine to join, which is syssec.com in my case.

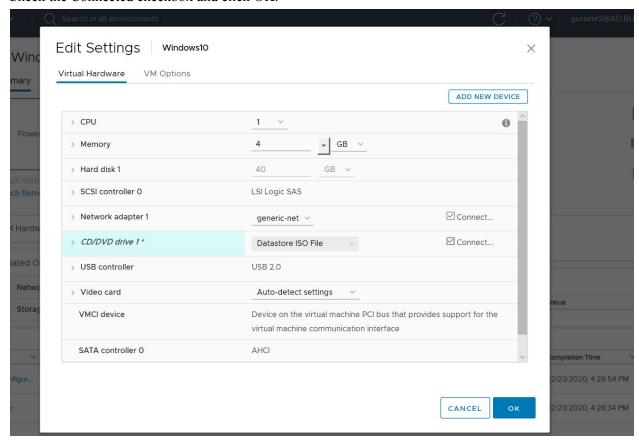


Windows 10 Setup and Configuration

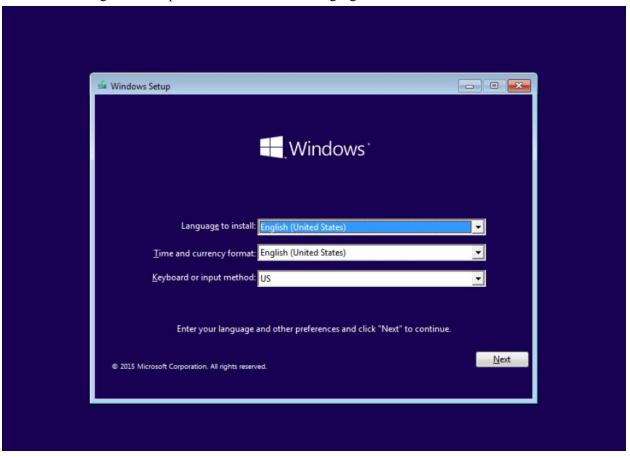
1. Now again goto vSphere Client and right click on Windows 10 VM option on the left side bar and select Edit. Change the CD/DVD Drive option to Data ISO and goto cdr-iscsi1>ISO>Windows and Select Windows 10 option as shown below.

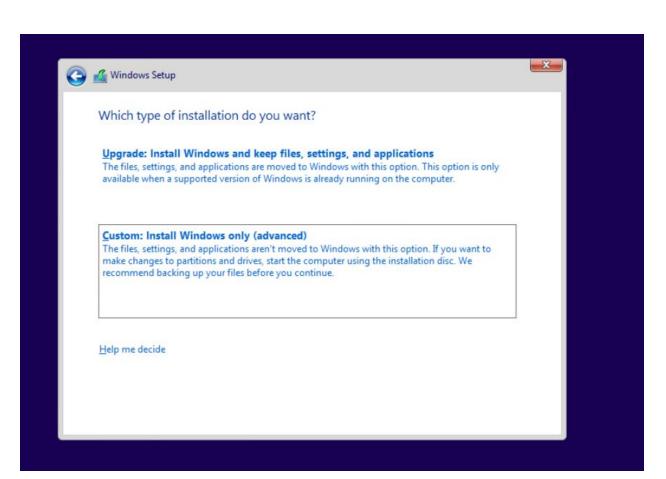


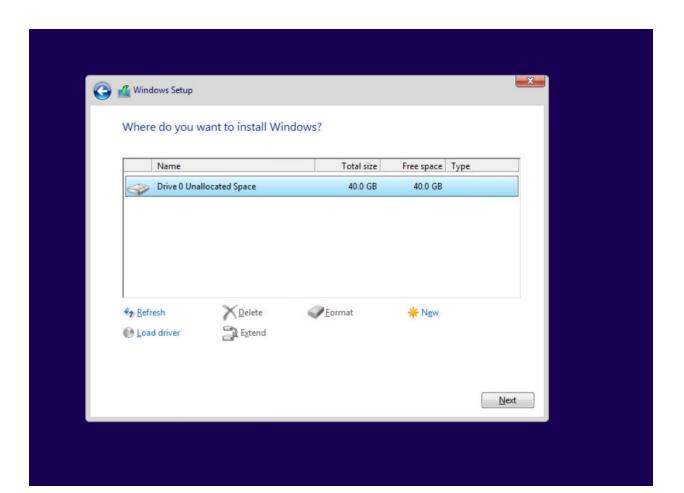
2. Check the Connected checkbox and click OK.

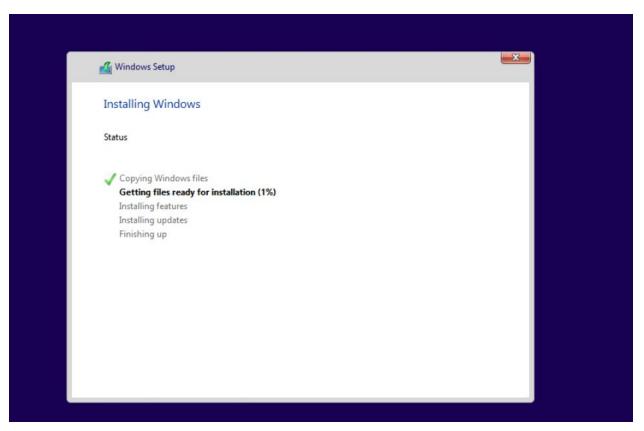


3. Follow the Configuration steps as shown in the following figures.









4. Click use Express settings and create and account by entering a username and password. This account doesn't matter because later you will use the domain account to login.

Get going fast

Change these at any time. Select Use Express settings to:

Personalize your speech, typing, and inking input by sending contacts and calendar details, along with other associated input data to Microsoft. Let Microsoft use that info to improve the suggestion and recognition platforms.

Let Windows and apps request your location, including location history, and use your advertising ID to personalize your experiences. Send Microsoft and trusted partners some location data to improve location services.

Help protect you from malicious web content and use page prediction to improve reading, speed up browsing, and make your overall experience better in Windows browsers. Your browsing data will be sent to Microsoft.

Automatically connect to suggested open hotspots and shared networks. Not all networks are secure

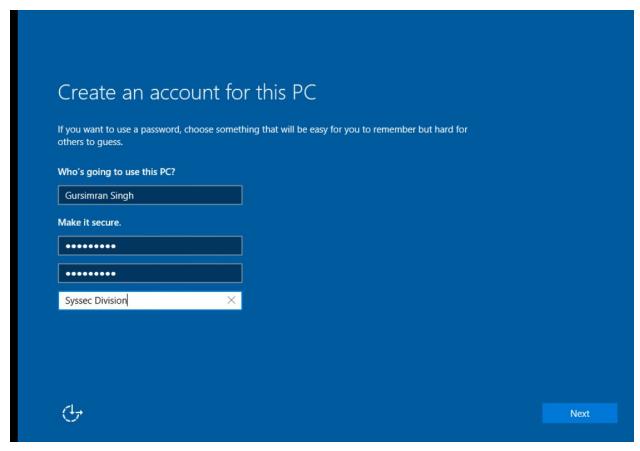
Send error and diagnostic information to Microsoft.

Learn mon

Customize cettings

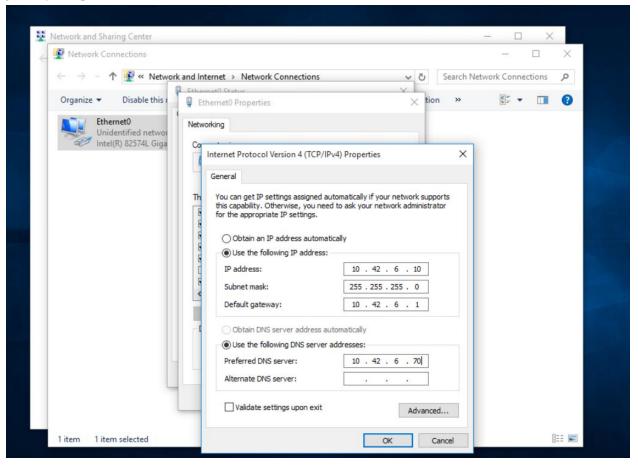


Use Express settings

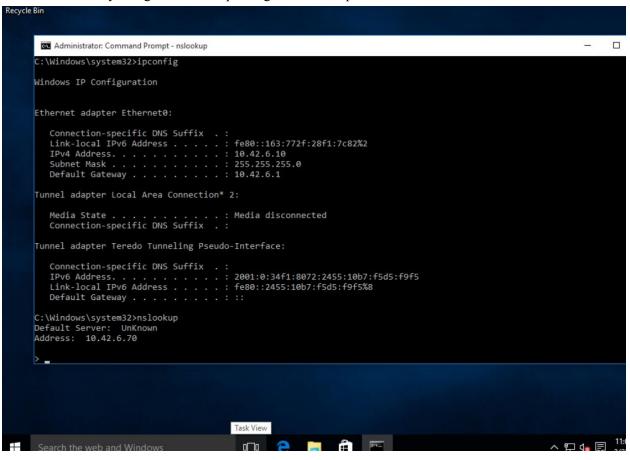


5. After signing in goto Network and Sharing Center > Network Connections > Ethernet(or your Adapter) Status > Properties > Ipv4 > properties and enter IP address, subnet mask, default

gateway and preferred DNS Server for the machine.



6. Check the above by using commands ipconfig and nslookup.



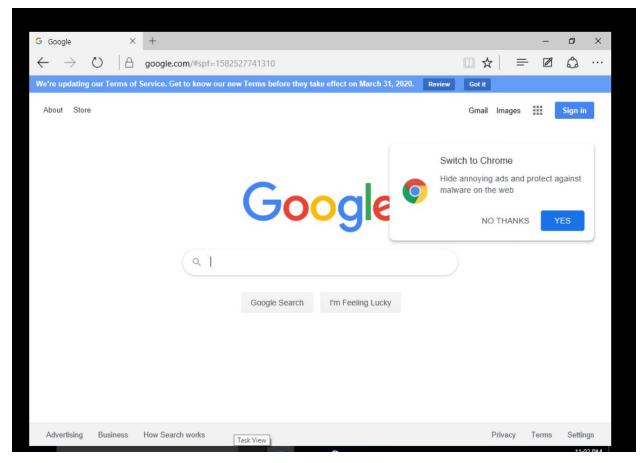
7. Check internet connection using ping or opening google.com on the browser.

```
C:\Windows\system32>ping 8.8.8.8

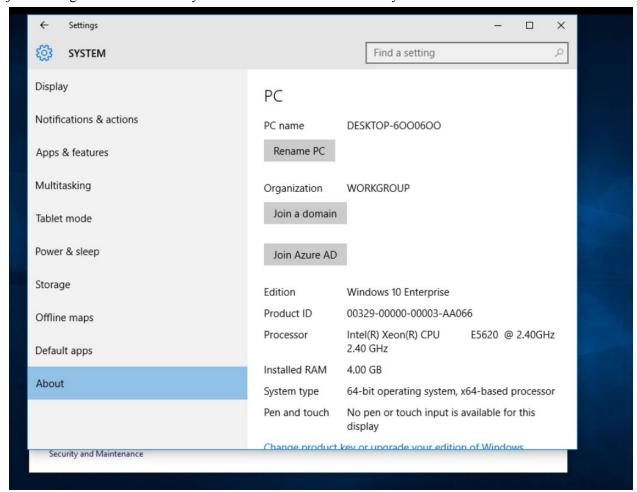
Pinging 8.8.8.8 with 32 bytes of data:
Reply from 8.8.8.8: bytes=32 time=14ms TTL=49

Ping statistics for 8.8.8.8:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 14ms, Maximum = 14ms, Average = 14ms

C:\Windows\system32>
```



8. Now go to Settings > System > About > Join a domain and enter the domain name you want to join and login with a username you created in the Active Directory in Server 2019.



Note - You can also run gpupdate command on the server 2019 machine in the end.

You will be able to see the changed wallpaper on the windows 10 machine after restart as shown below.

