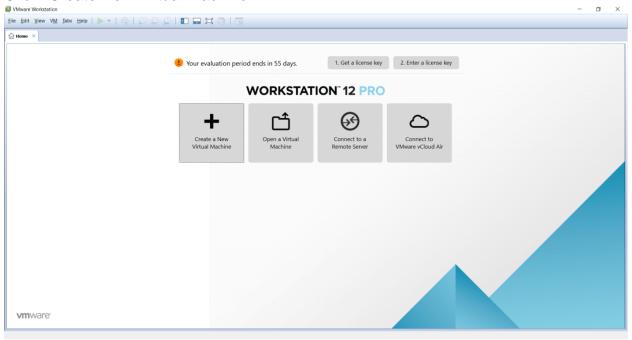
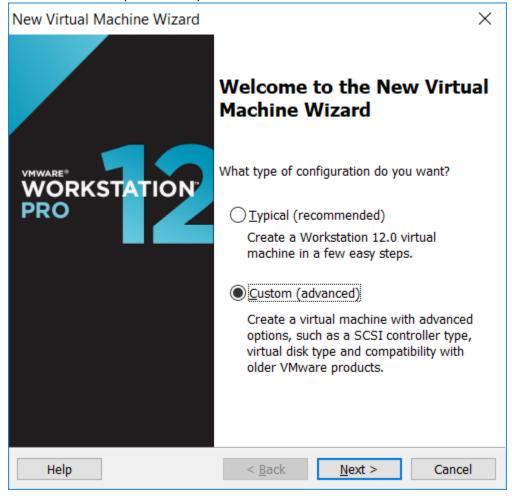
How to Configure a Windows Server 2016 Domain Controller By Justin Mah

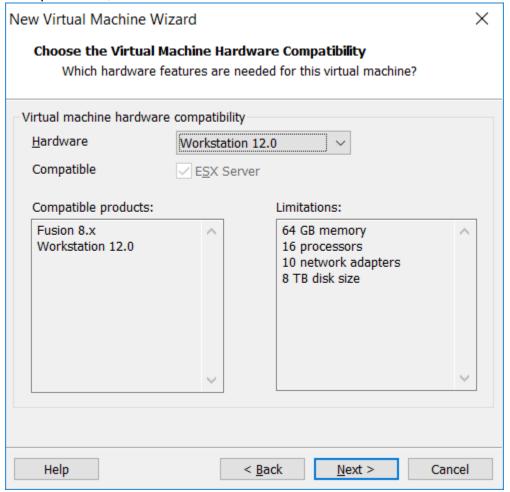
- 1) Start VMware Workstation Pro/VMware Workstation Player
- 2) Click "Create New Virtual Machine"



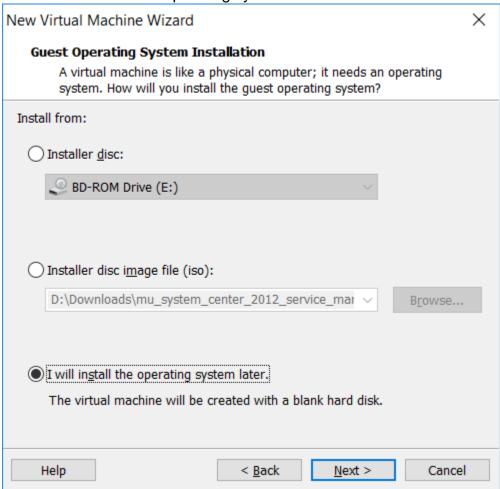
3) Select "Custom (advanced)"



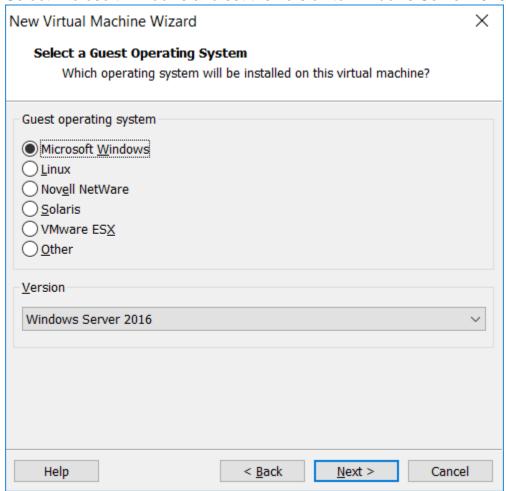
4) Accept default, click next



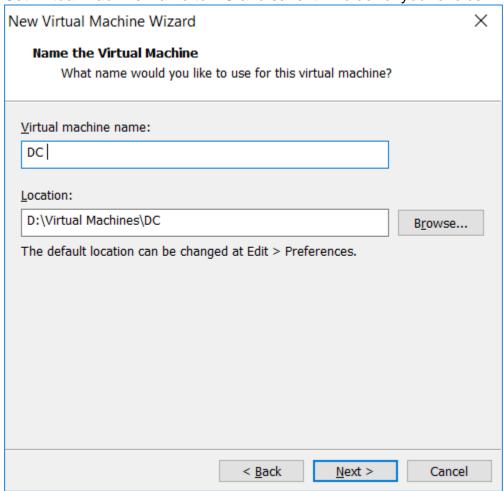
5) Select "I will install the operating system later"



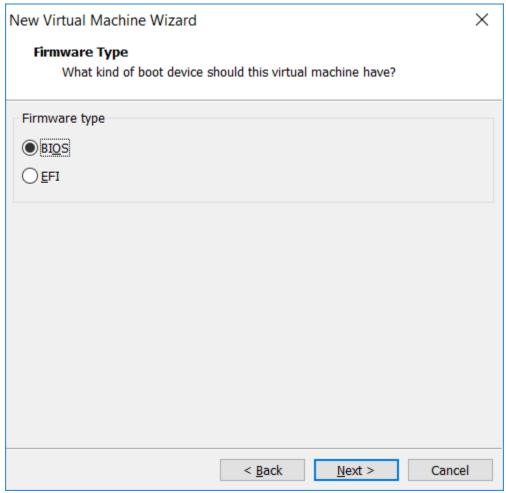
6) Select Microsoft Windows and set the version to Windows Server 2016



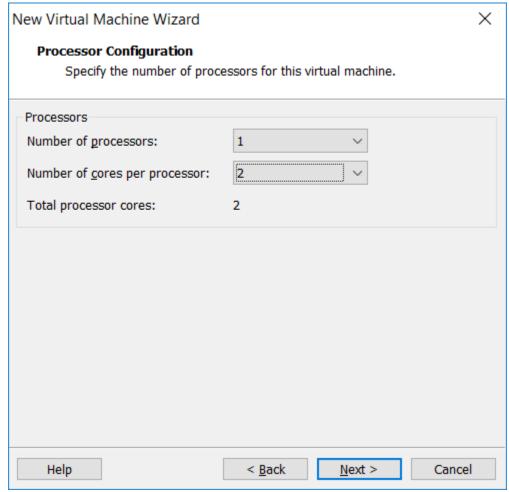
7) Set Virtual Machine Name to DC and save it in folder of your choice



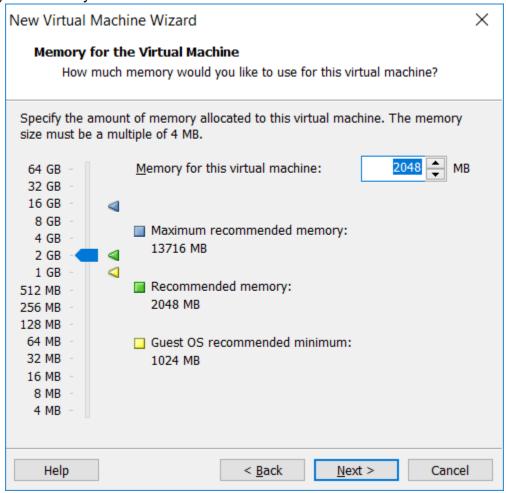
8) Select BIOS



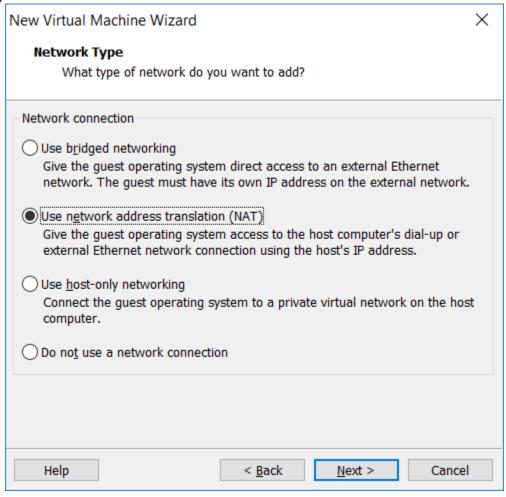
9) Set number of cores to 2



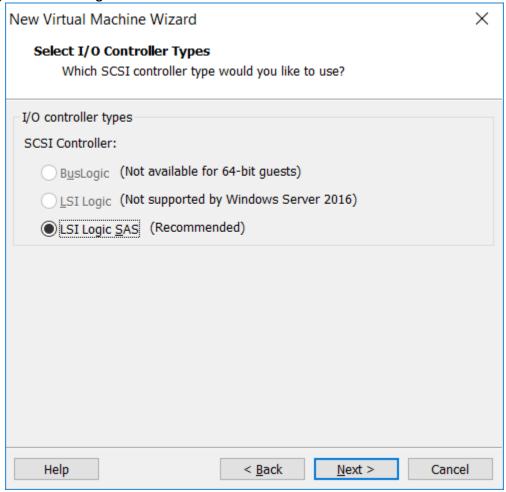
10) Set Memory to 2 GB



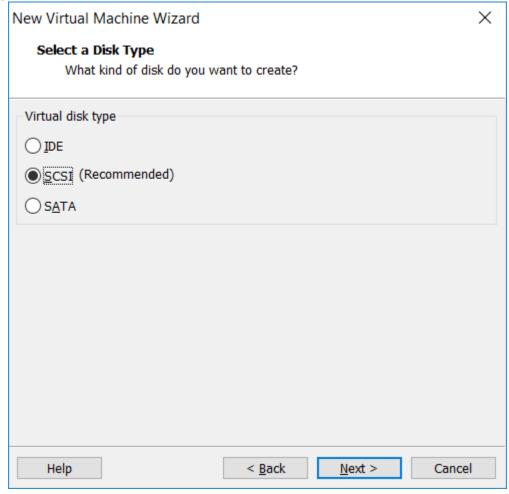
11)Select NAT



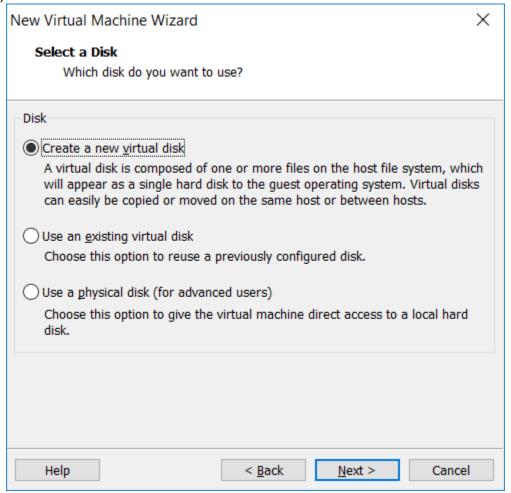
12) Select LSI logic SAS



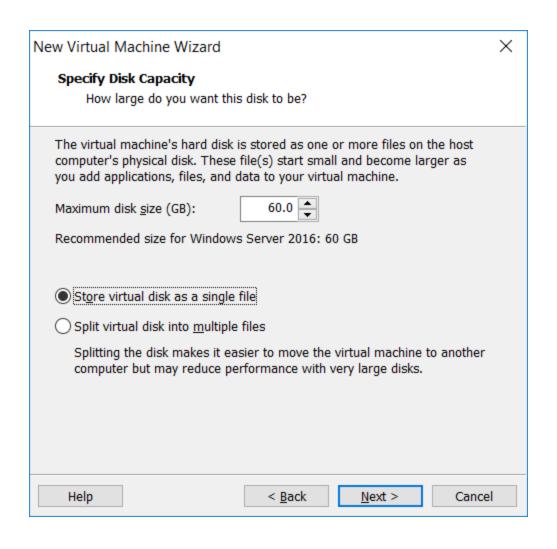
13)Select SCSI



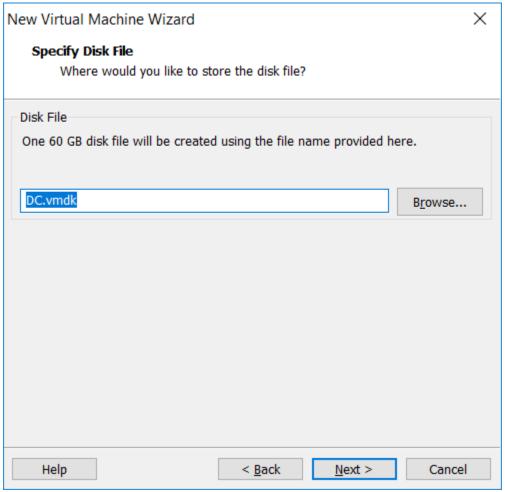
14) Select "Create a New Virtual Disk"



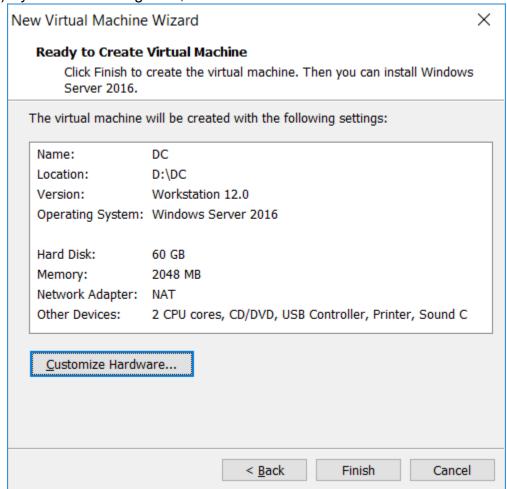
15) Set "Maximum disk size" to 60.0 GB and select "Store virtual disk and a single file"



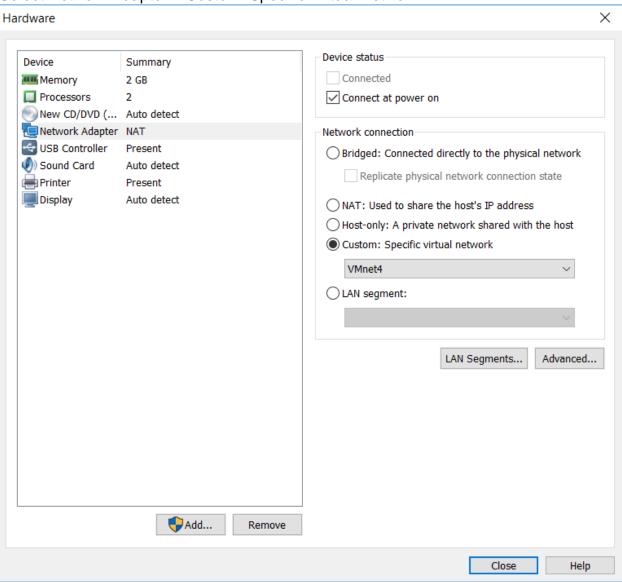
16) Set Virtual Disk Name



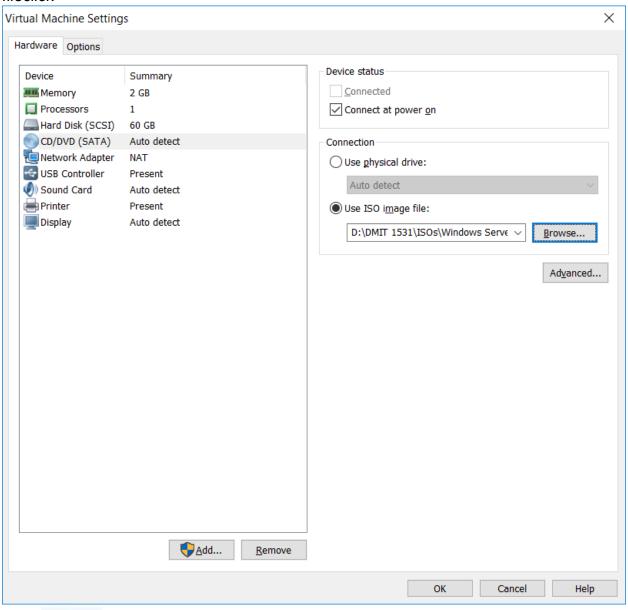
17) If you are not using NAT, click customize hardware



18) Select Network Adapter > Custom: Specific Virtual Network

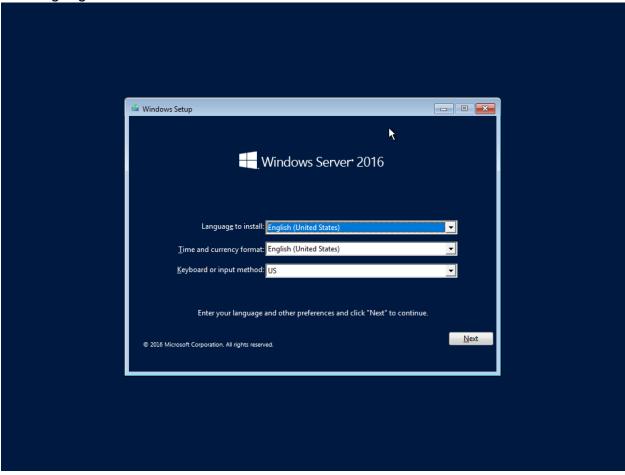


19) Select CD/DVD > select "Use ISO image file" > Locate Windows Server 2016 iso fileclick

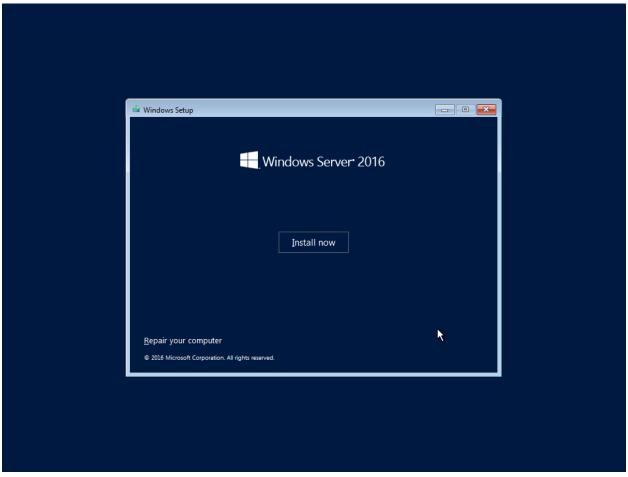


20)Click

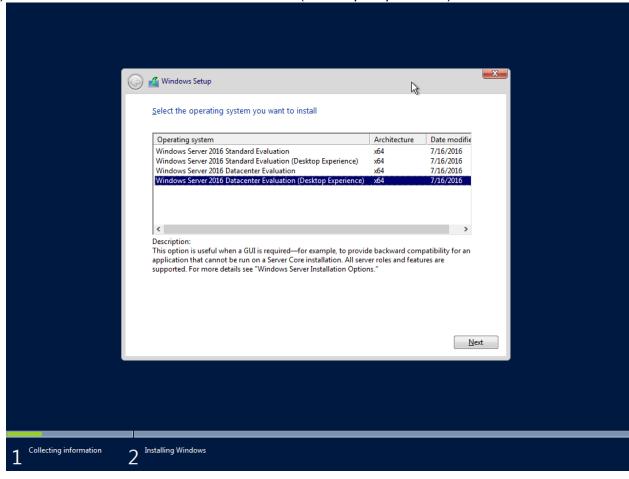
21) Set language



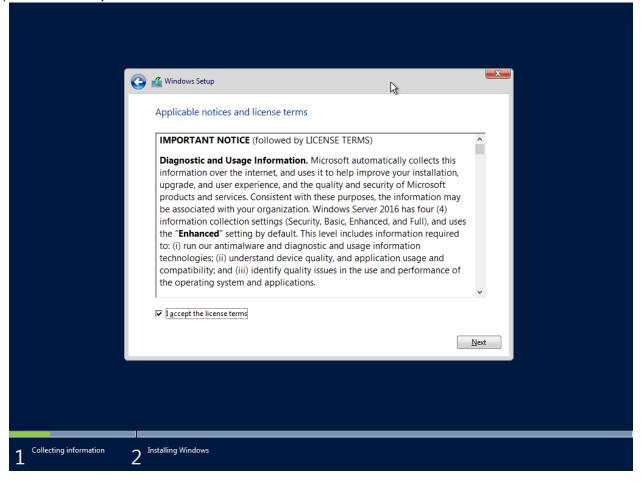
22) Click install now



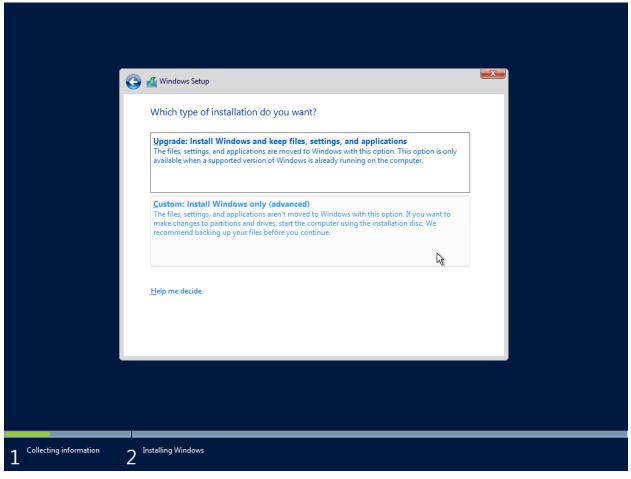
23) Select Windows Server 2016 Datacenter (Desktop Experience)



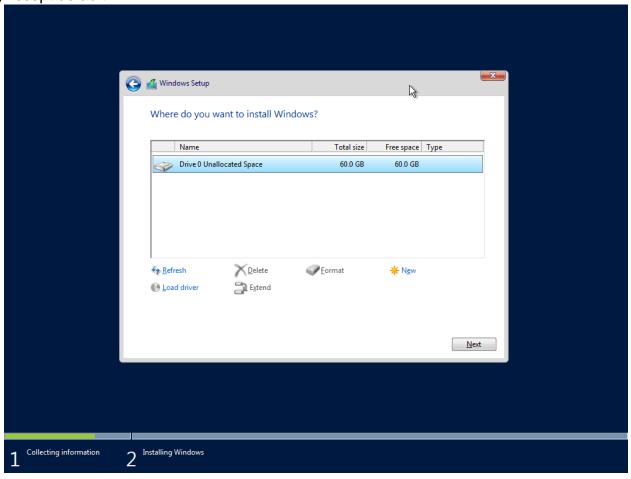
24) Select I accept the license



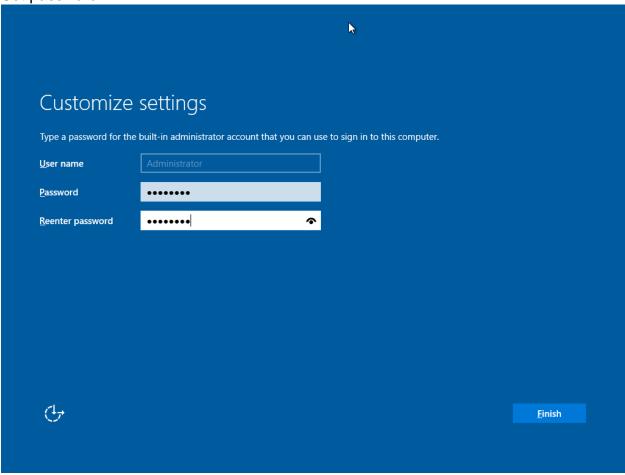
25) Select Custom



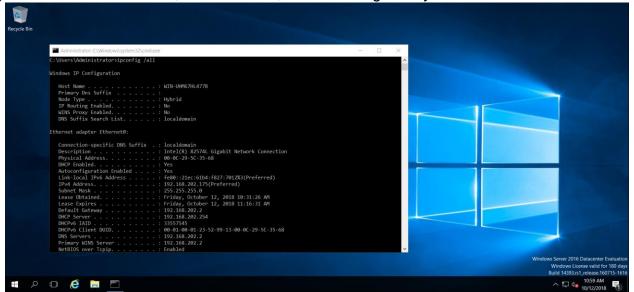
26) Accept default



27) Set password

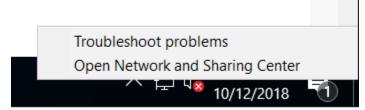


- 28) (if using NAT) Push Windows Key + R > CMD
- 29) Type ipconfig /all
- 30) Take note of IP address, Subnet Mask, and Default gateway

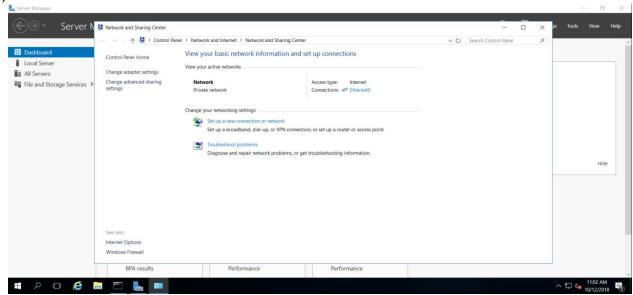




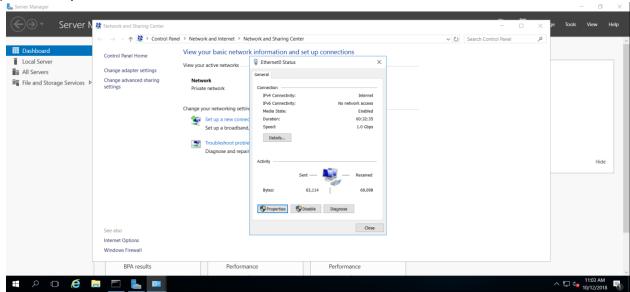
32) Click Open Network and Sharing Center



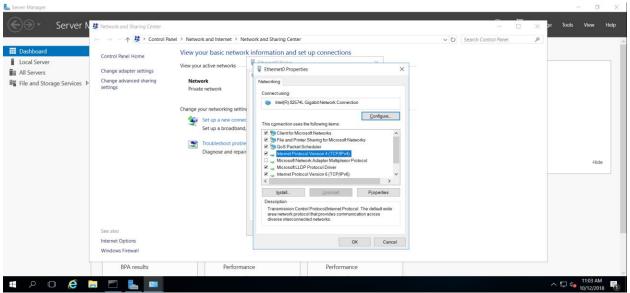
33) Click ethernet 0



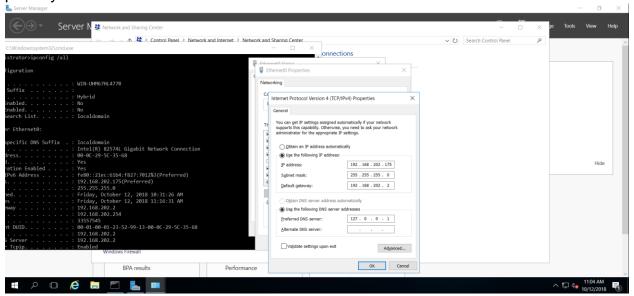
34) Click Properties



35) Click Internet Protocol Version 4



36)Select "Use the following IP address" and "Use the following DNS server address" set the following to the configuration outlined in step 4. If not using NAT, set the IP address and Subnet mask according to specification, and set the primary DNS server to 127.0.0.1



37)Open Server Manager once your computer is logged in (Server Manager should open by default when Server Manager 2016 is started.)

In case the Server Manager will not start automatically, click this icon to start Server Manager manually.

Figure 1-6 (server manager)

38)In the top right corner of your screen click Manage > Add Roles and Features

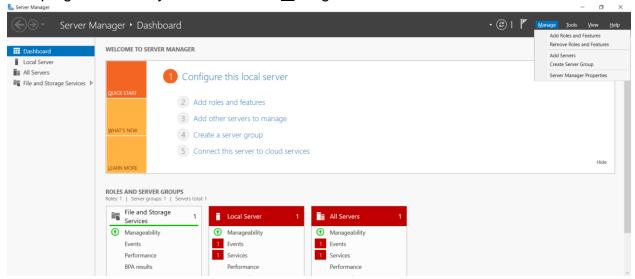
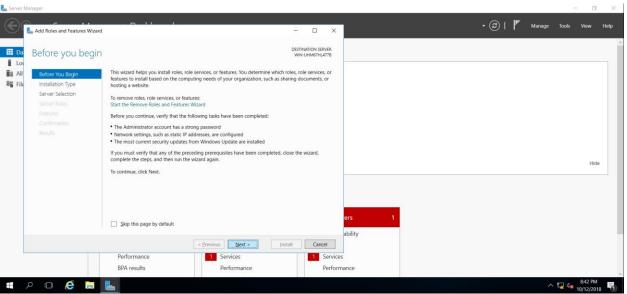


Figure 1-7 (clicking manage)

39)Click "Next"



40) Select the "Role-based or feature-based installation" option which will only configure the one server with roles and features

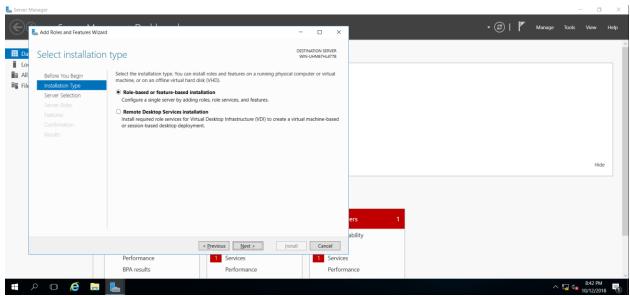
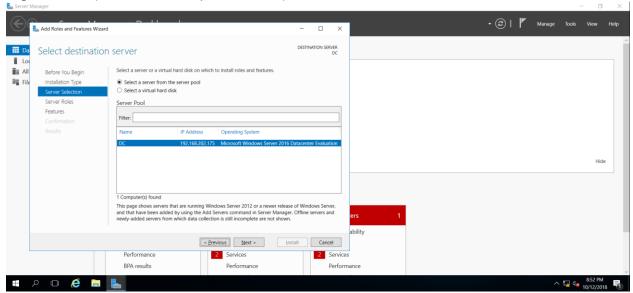


Figure 1-10 (the second screen -Installation type)

41)On the "Select destination server" screen choose the option "Select a server from the server pool" and then click next since the only server pool you have is the computer you are using now

Figure 1-11 (Select server pool screen)



12) On the "Select server roles" page check the "Active Directory Domain Services" box. Another box will appear that will tell you what features will be installed on your computer as a result of selecting the "Active Directory Domain Services" box. Afterwards, click "Add Features", and then click next

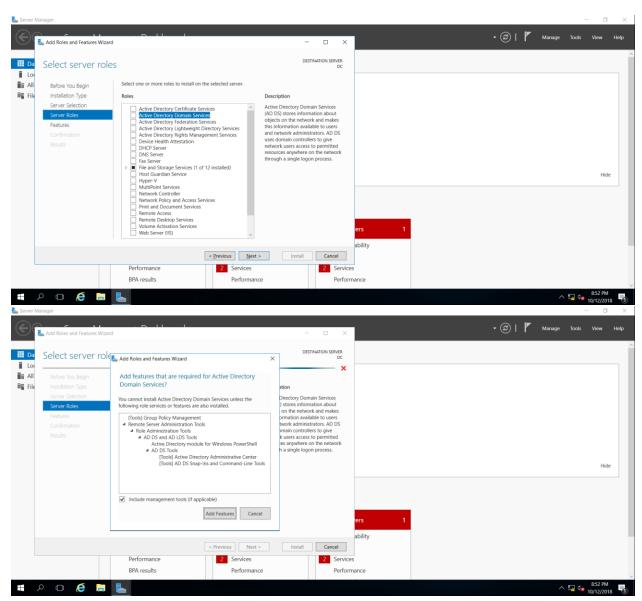
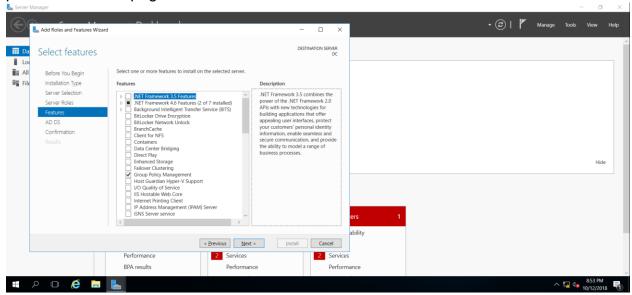


Figure 1-12 (select server roles screen)

13) On the "Select features" page click next as you will not be needing the features presented on the page



14) Read the text on the Active Directory Domain Services page and then click next

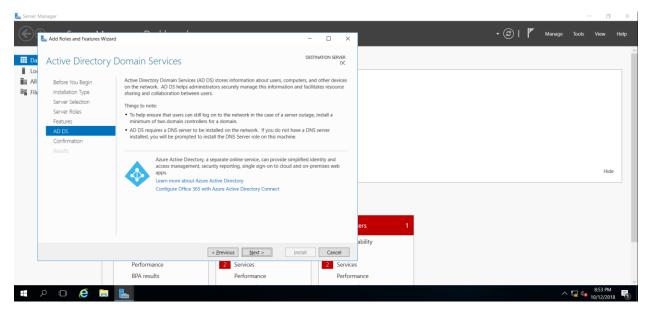


Figure 1-13 (description of Active Directory Domain Services)

15) On the Confirmation page check off the "Restart the destination server automatically if required" as installing "Active Directory Domain Services" requires it, and then click install. Once the install is complete close the box

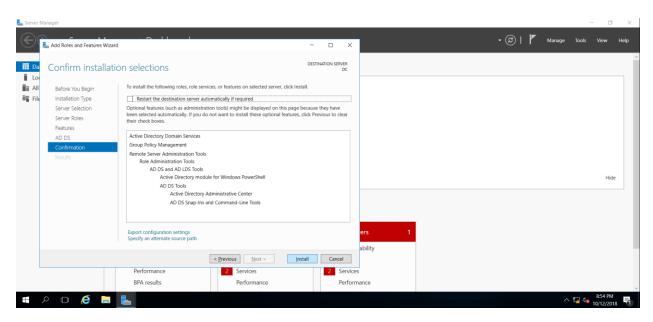


Figure 1-14 (confirmation of installation)

16) After closing the "Installation Progress" window, there will be a flag with a caution sign, be sure to click that sign after installing "Active Directory Domain Services" then click "Promote this server to a domain controller"

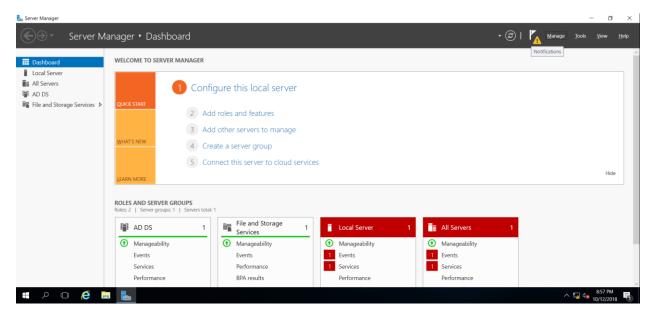
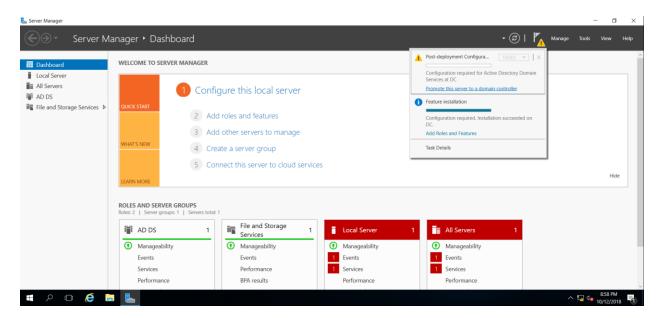


Figure 1-16 (server manager after installing Active Directory Domain Services)

17) After Clicking "Promote this server to a domain controller" select the option "Add a new forest"



18) This is your first domain controller for your domain and forest (which houses the domain controllers for your domain). In the text box below, specify the name of your "Root domain name", this is going to be the name of your domain, click next after.

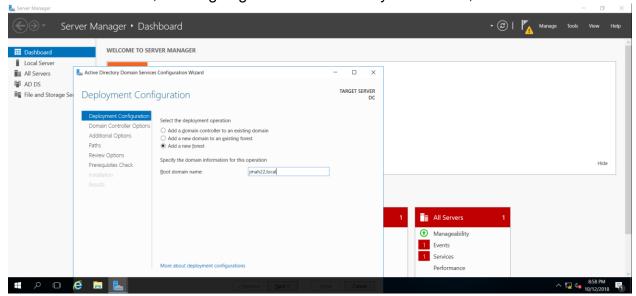


Figure 1-19 (creating a domain)

19) On the "Domain Controller Options" page, leave the options at their defaults since this Domain Controller is for creating Users and policies for the users. Enter a password for the Directory Service Restore Mode (this will restart the domain controller in the event of a disruption)

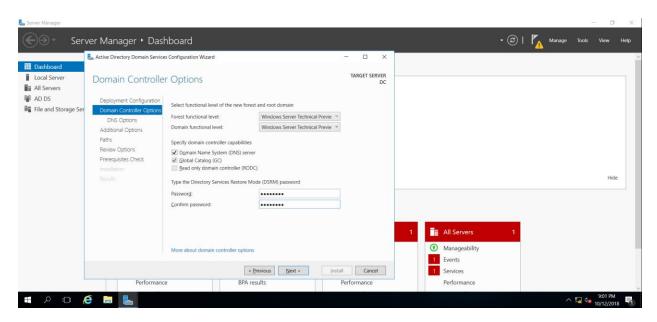


Figure 1-20 (configuring domain controller type)

21) Ignore the warning on the top of the "DNS options" page and then click next since DNS will not be used unless connecting other computers to your network.

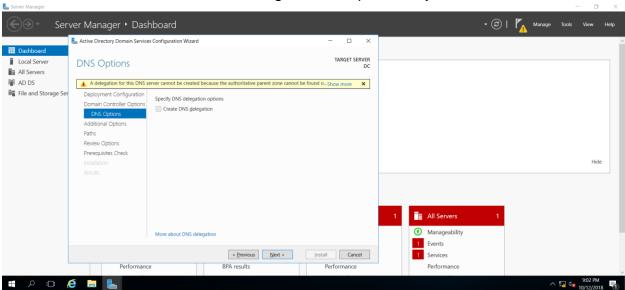


Figure 1-21 (DNS options screen)

22) At the "Additional Options" page click next

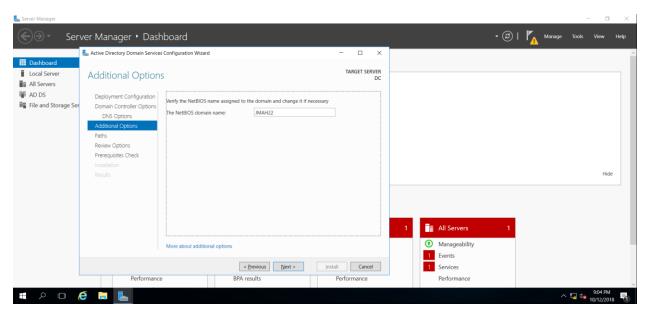


Figure 1-22 (additional options screen)

1) On the "Paths" window leave the database, log files, and SYSVOL folder location at their defaults, and then click next

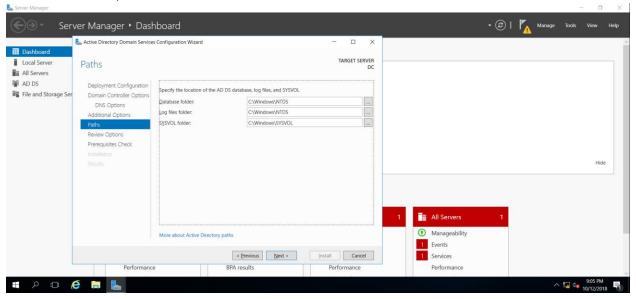


Figure 1-23 (folder direction for logs, database, and SYSVOL)

2) Carefully review your options at the "Review Options" window before proceeding and click next

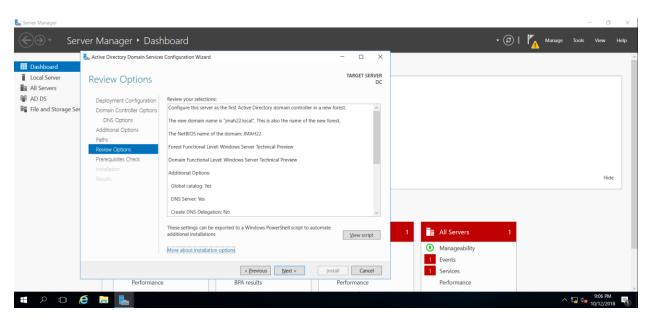


Figure 1-24 (review options screen)

24) At the "Prerequisites Check" window, click install after the prerequisite check is completed

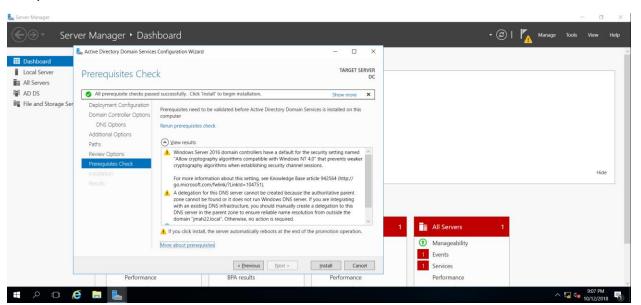


Figure 1-25 (prerequisite screen)

25) Your computer will be restarted after the installation is complete

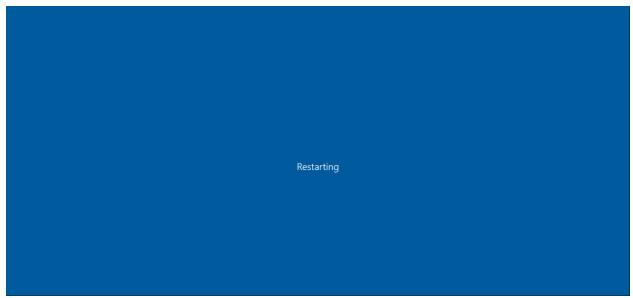


Figure 1-26 (restart notification)

26) To verify that your computer successfully installed Active Directory Domain Services click on "Tools" at the top right corner of your server manager screen and expect to see 5 Active directory tools

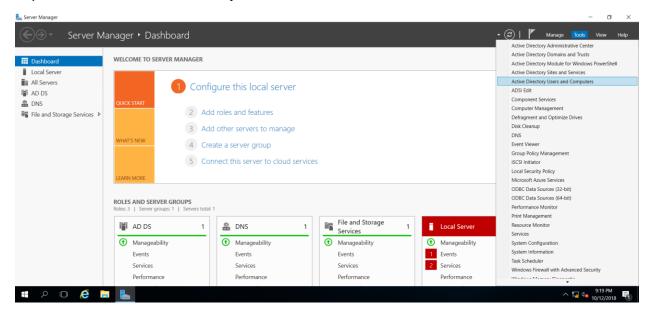


Figure 1-27 (server manager screen after promoting computer to domain controller)