

Assignment Lloyd Case

by Lloyd Case

Submission date: 27-Apr-2022 04:24PM (UTC+0100)

Submission ID: 177518899

File name: 23995_Lloyd_Case_Assignment_Lloyd_Case_417978_1444440236.docx (5.47M)

Word count: 1200

Character count: 5299

First, in this task we will be creating the virtual machine, I will be giving the virtual machine 2048MB of RAM as this is a sensible amount of RAM to give the virtual machine without giving too much of your computer's power away as I had to open multiple virtual machines which means I needed to use the lowest amount of RAM as possible. Also, I created a virtual hard disk to use alongside the virtual machine. I am naming this one "Windows".

← Create Virtual Machine

Name and operating system

Name: Windows 7

Machine Folder: C:\Users\Lloyd\VirtualBox VMs

Type: Microsoft Windows

Version: Windows 7 (64-bit)

Memory size

4 MB 2048 MB 16384 MB

Hard disk

☐ Do not add a virtual hard disk

☒ Create a virtual hard disk now

☐ Use an existing virtual hard disk file

Empty

Guided Mode Create Cancel

Will be making storage 32 GB, the reason for this is that Windows itself is quite large and therefore need more space available for when I make changes on the virtual machine. 32 GB is more than enough space to fit Windows 7 on. Will also be using VDI which is for the disk image.

? X

← Create Virtual Hard Disk

File location

C:\Users\Lloyd\VirtualBox VMs\Windows 7\Windows 7.vdi

File size

4.00 MB 2.00 TB 32.00 GB

Hard disk file type

- ☒ **VDI (VirtualBox Disk Image)**
- ☐ **VHD (Virtual Hard Disk)**
- ☐ **VMDK (Virtual Machine Disk)**
- ☐ HDD (Parallels Hard Disk)
- ☐ QCOW (QEMU Copy-On-Write)
- ☐ QED (QEMU enhanced disk)

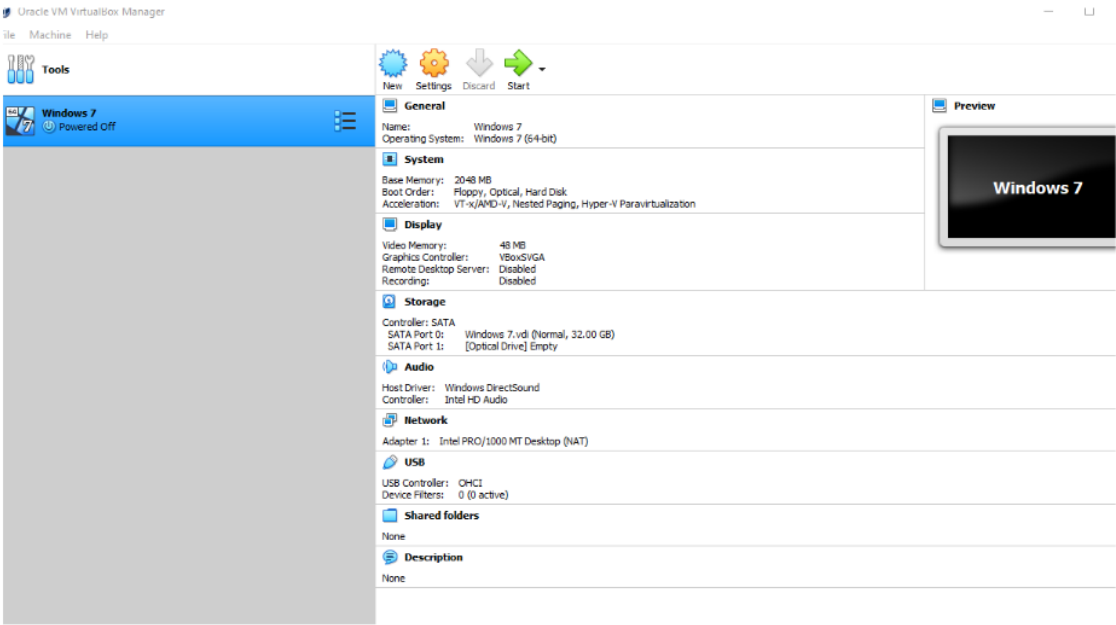
Storage on physical hard disk

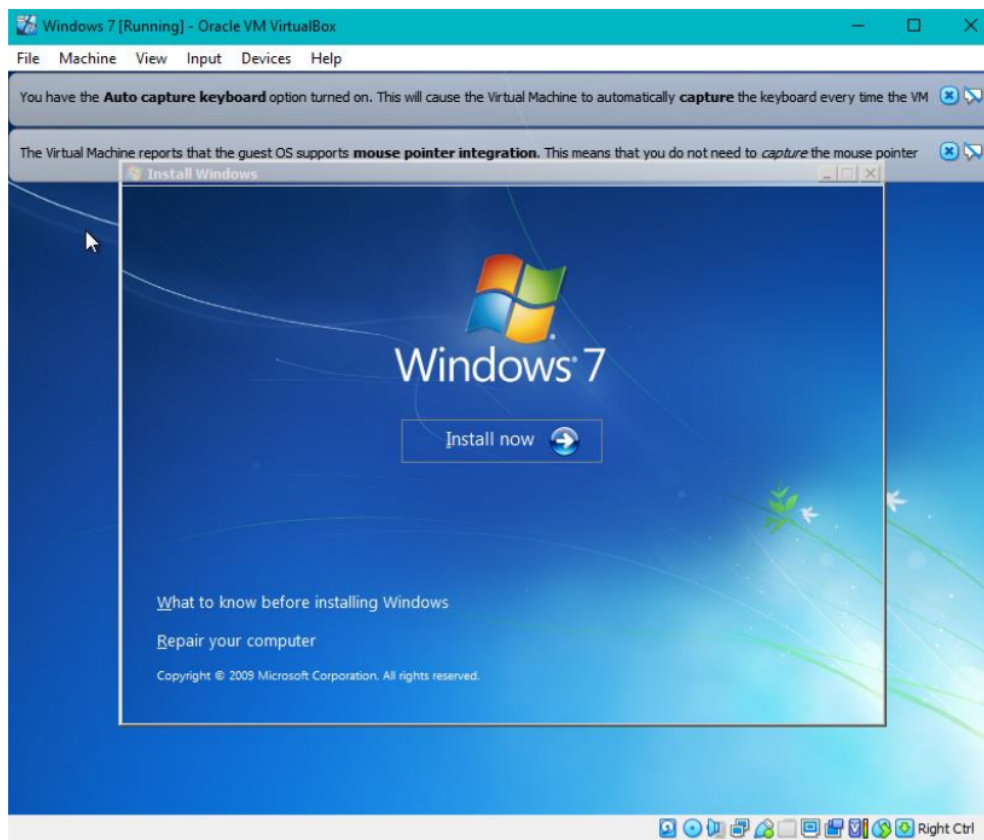
- ☒ Dynamically allocated
- ☐ Fixed size
- ☐ Split into files of less than 2GB

3

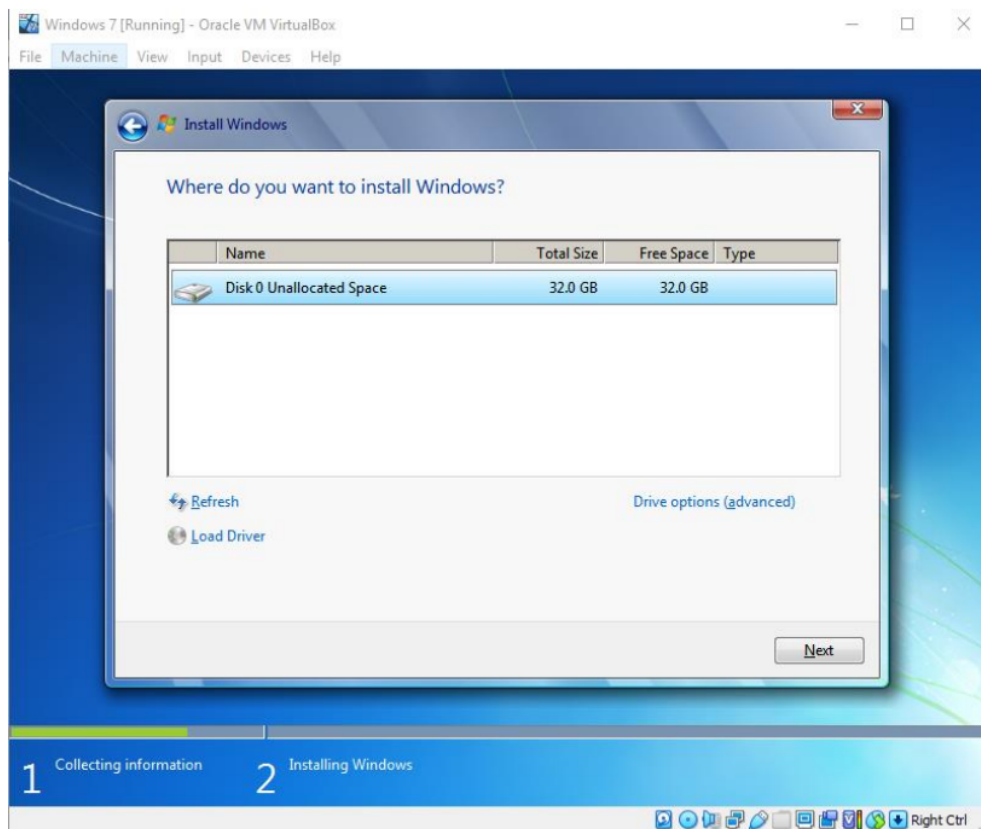
Guided Mode Create Cancel

In this screenshot I am showing the main page for using the virtual machine. At this time, it only has “Windows 7” as I haven’t set up the other virtual machines yet. This shows all the specifications that are in use for your currently highlighted virtual machine.

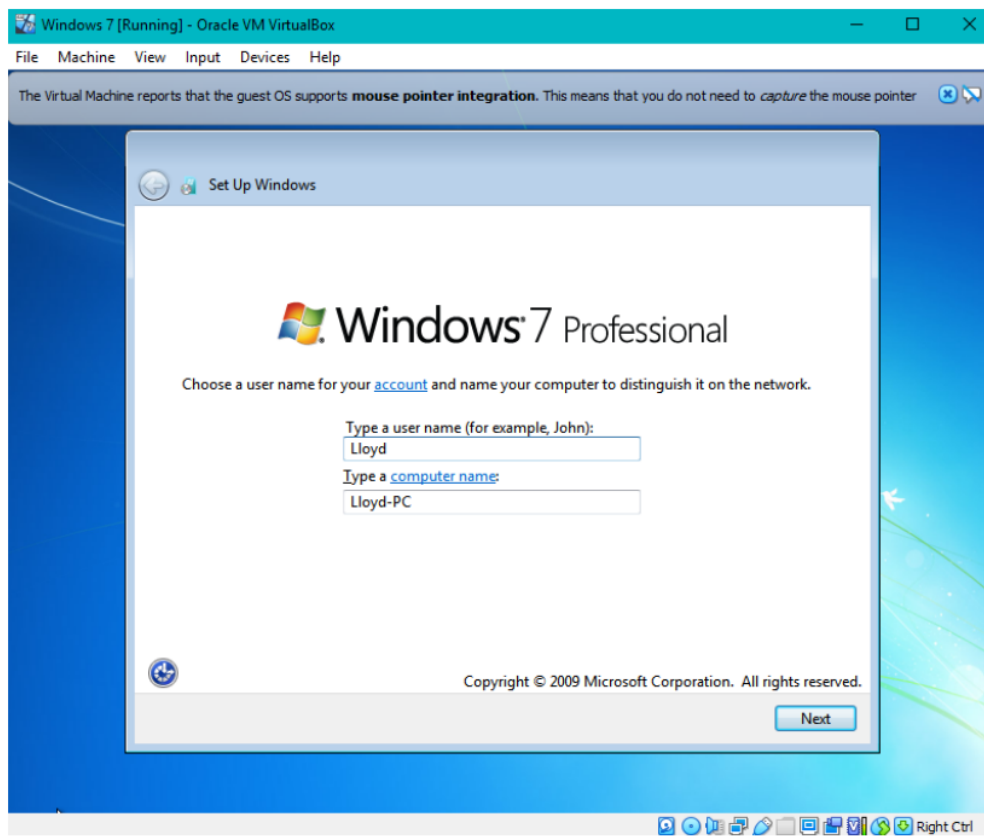




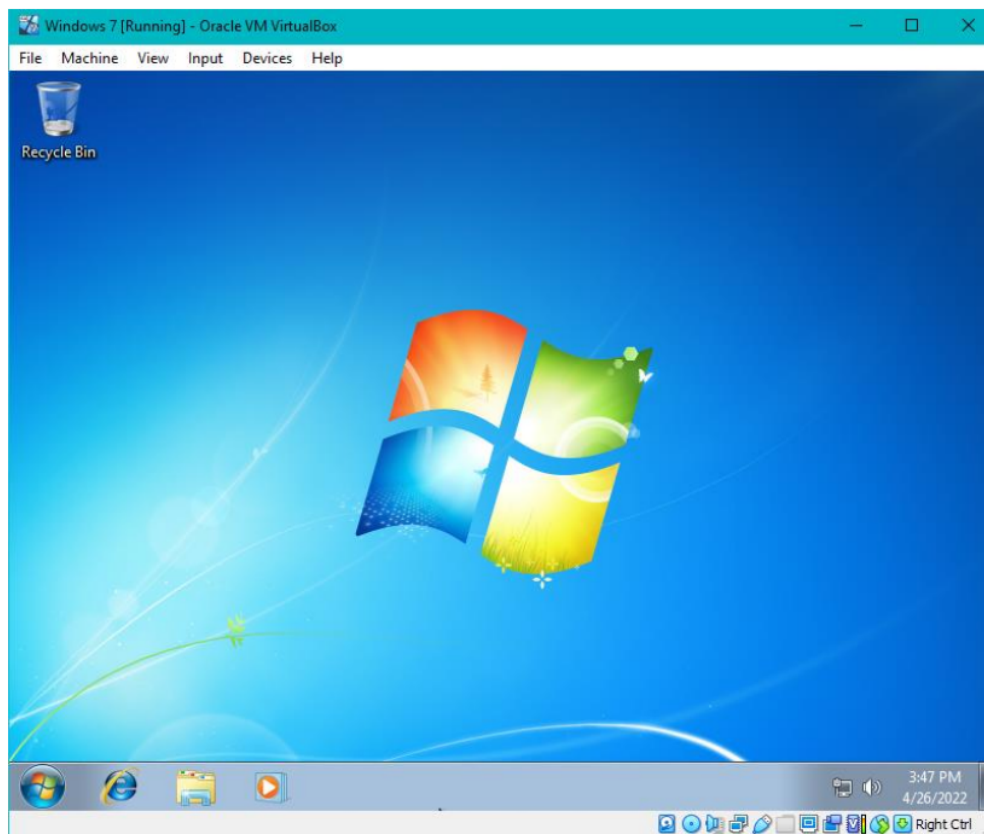
This is the screen that is used to show that you are installing Windows 7.



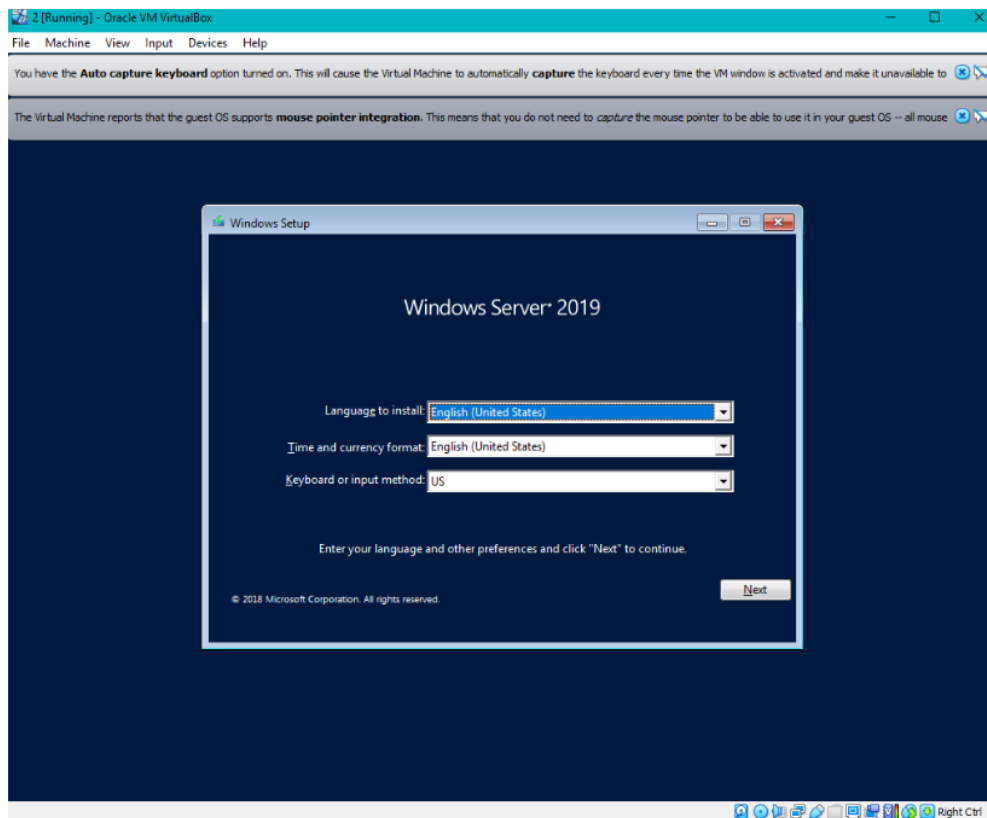
This shows the storage that I created earlier, and is being used to install Windows 7 on it.



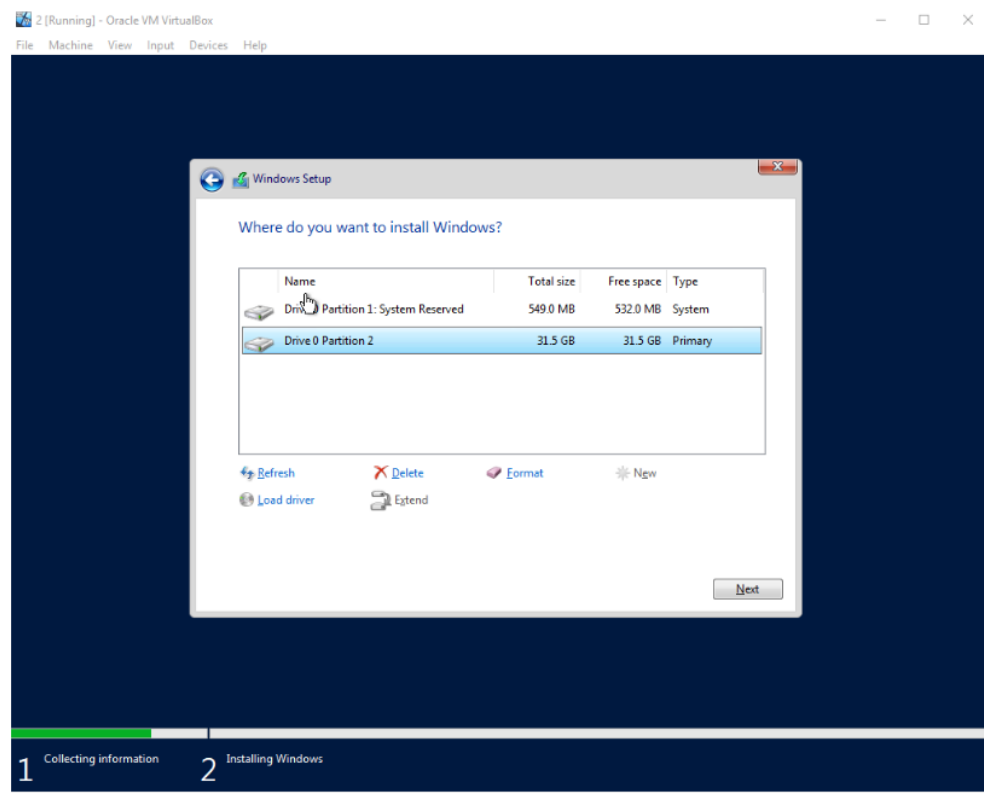
This is me picking what to name the virtual PC. I just went with Lloyd-PC as it is simple and easy to remember.



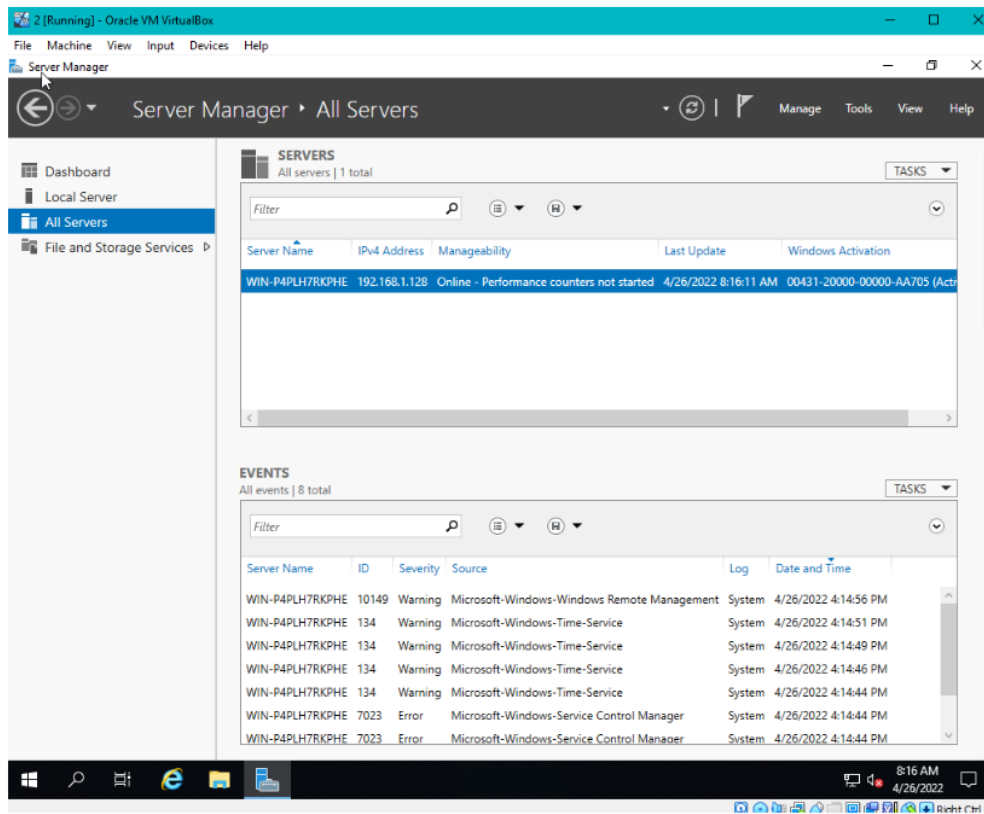
Here is the blank desktop of Windows 7 to show that I have successfully installed Windows 7.



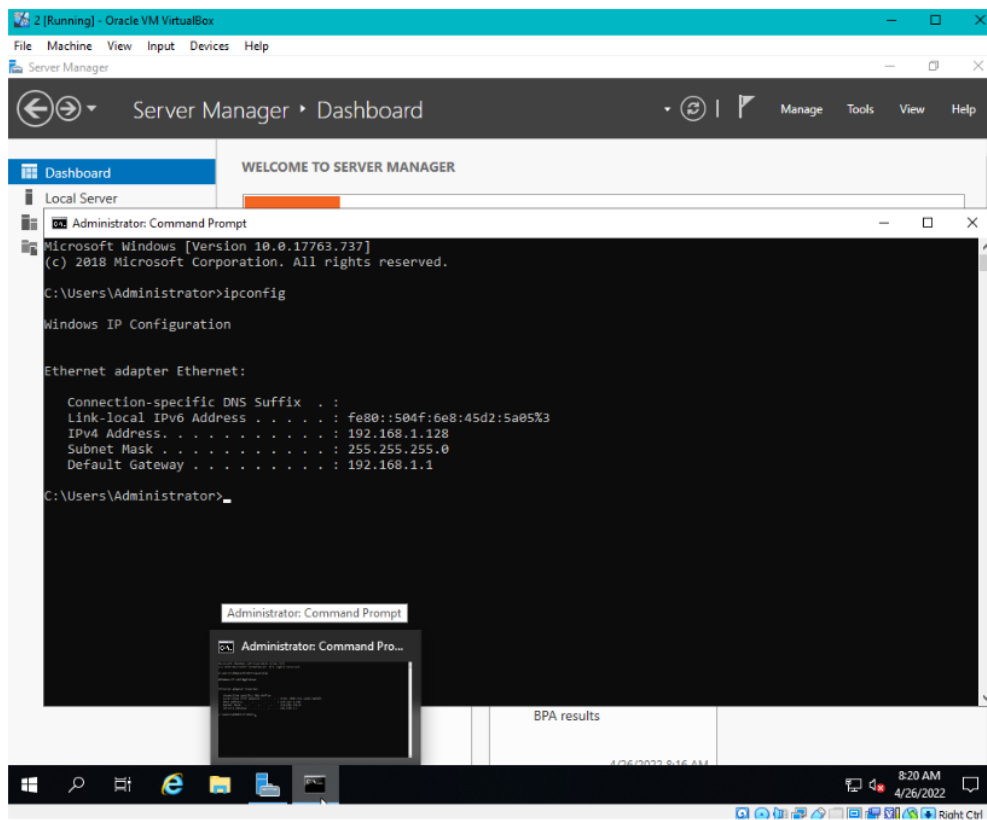
Here is the install screen for Windows server 2019. I had to use this for the assignment in order to set up the server for use to show that I was able to set up and do what the assignment said.



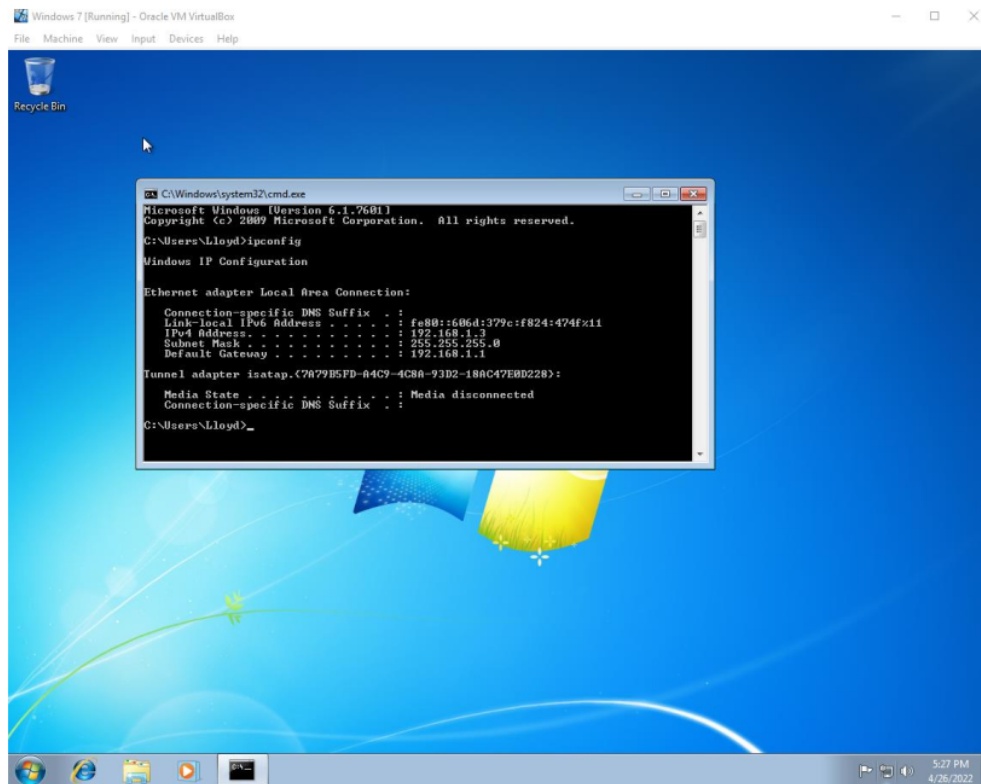
For the server it was important to create a partition with the storage instead of just using the storage directly. The reason for this is I don't want to use all the storage allocated just for the installation. It is needed in case of storage space issues.



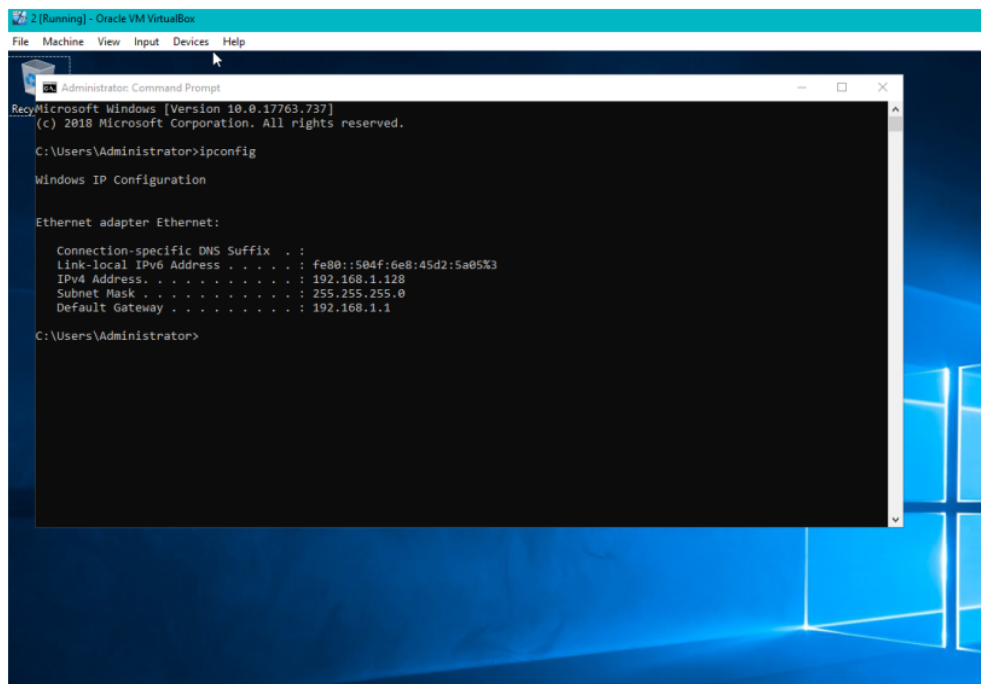
Here is a list of everything that is usable in the server manager. This is where all the servers would be and currently there is only one server in use which is the default one.



This is the "ipconfig" of the server virtual machine. This was needed in order to check if both virtual machines were in sync and on the same network and usable with each other. Did the "ping" command to see if they were both synchronized. It was difficult to figure out at first but figured it out later on.

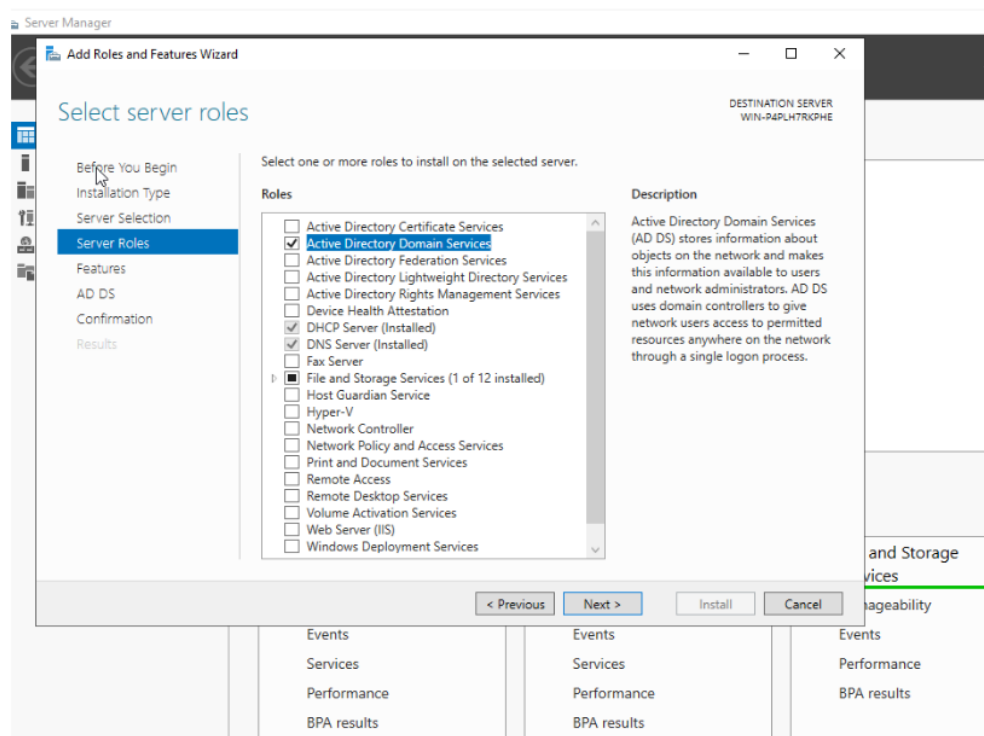


This is the "ipconfig" of the Windows 7, and it was difficult to get it working. This image shows all of the IP information needed in order to check if all of the information is correct when comparable to the other virtual machines that are in use.

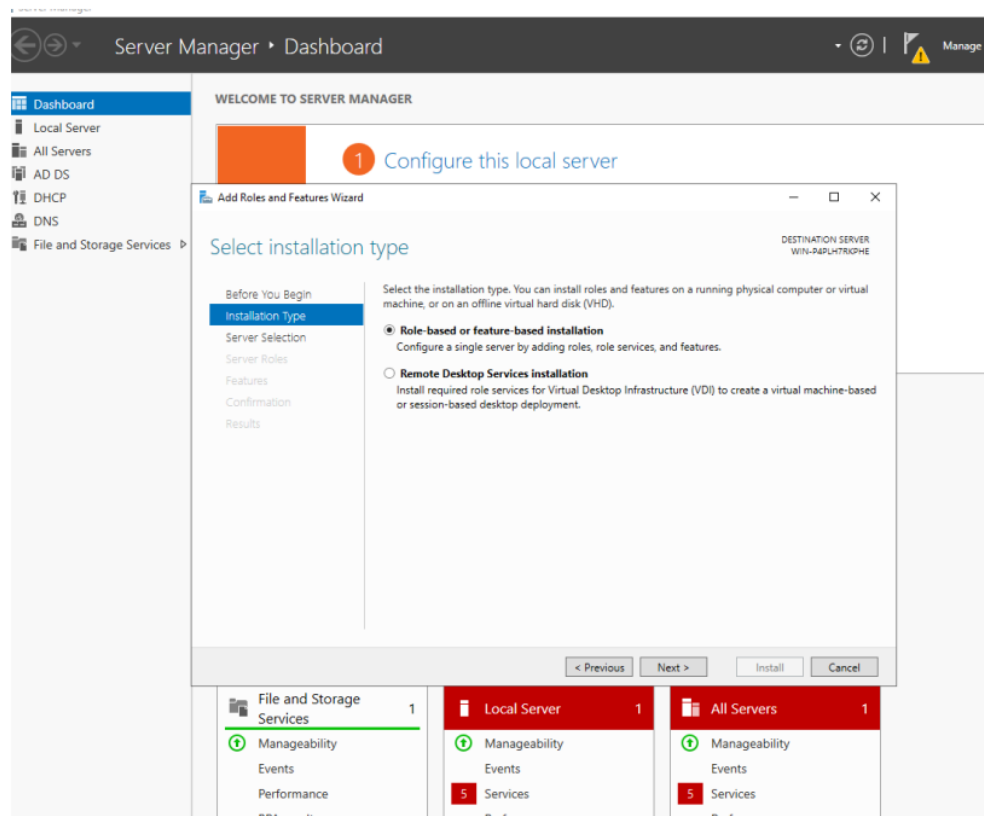


This is the "ipconfig" of the Windows server, and it was difficult to get it working. This image shows all the IP information needed to check if all the information is correct when comparable to the other virtual machines that are in use.

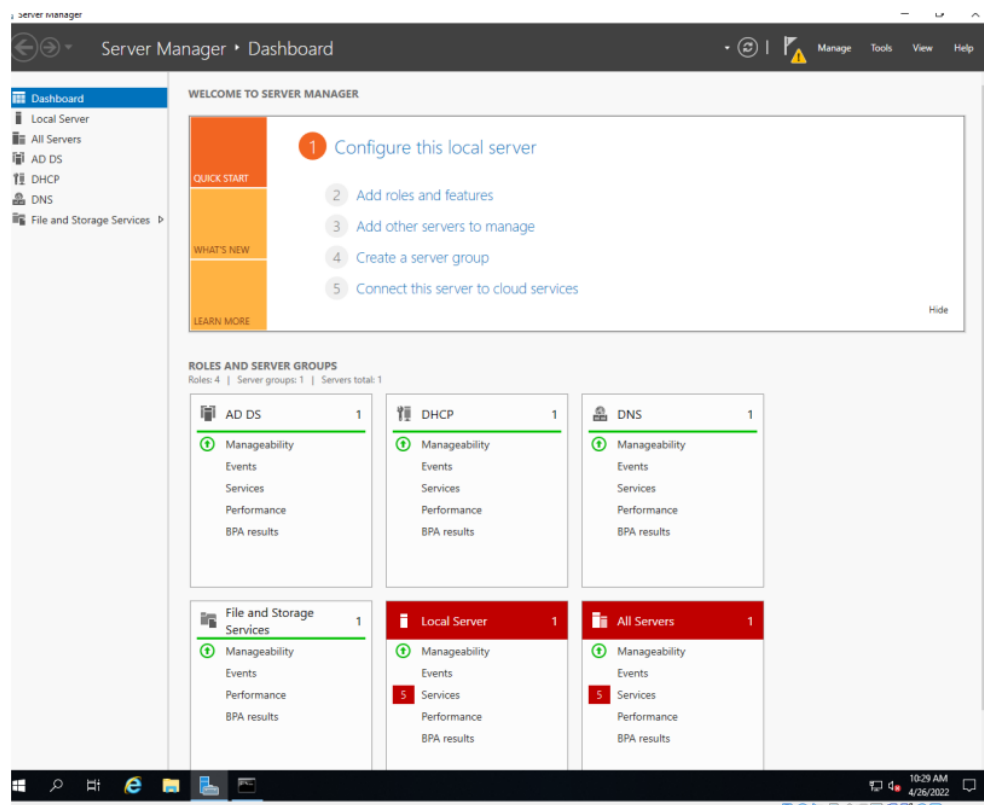




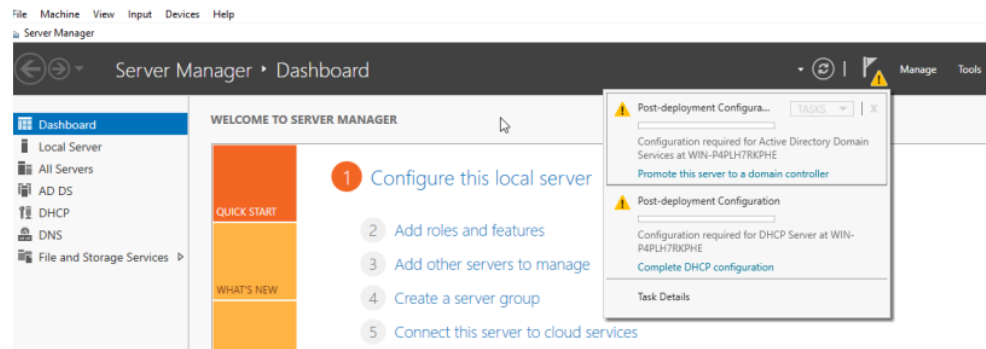
Here I am showing myself creating server for the virtual machine. This is the process that I had to go through to configure the static IP address needed for both virtual machines. Later, you will see me verify this by using the "ipconfig" and "ping" commands in CMD. In this image I am showing what is needed to be done by making sure that I have a DHCP server set up on the network as instructed and making this the primary domain controller of the virtual machines.



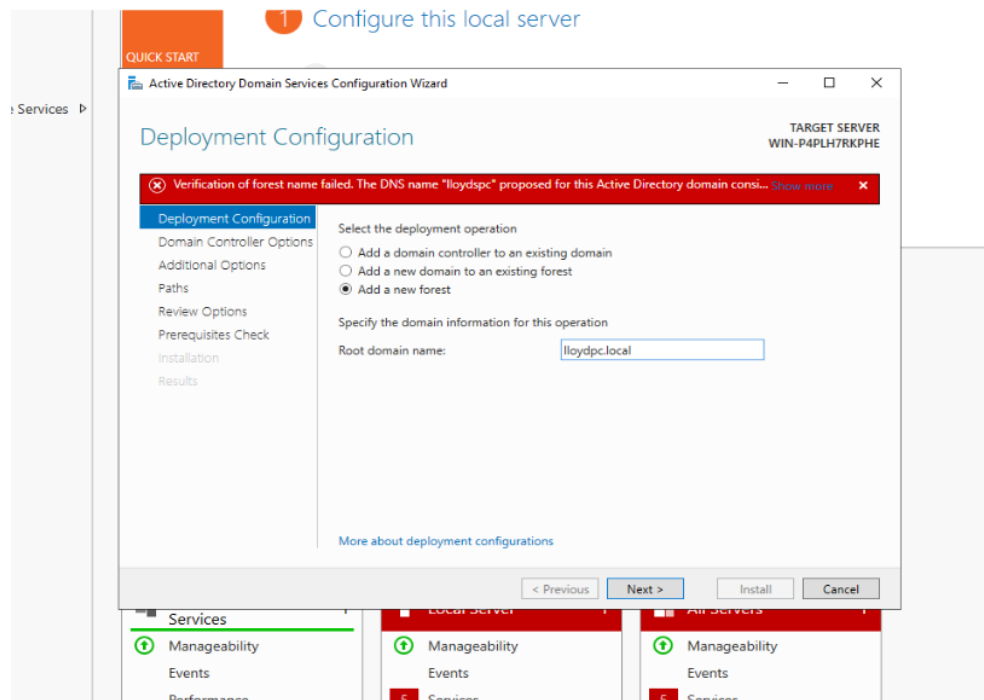
This image is showing what kind of installation is needed to make sure the server is set up correctly. Role-based or feature-based installation is what was needed to make sure everything was set up correctly. By doing this it allows you to configure servers by adding roles and feature which was needed for me to get the other virtual machine which was running Windows 7 to work correctly on the server.



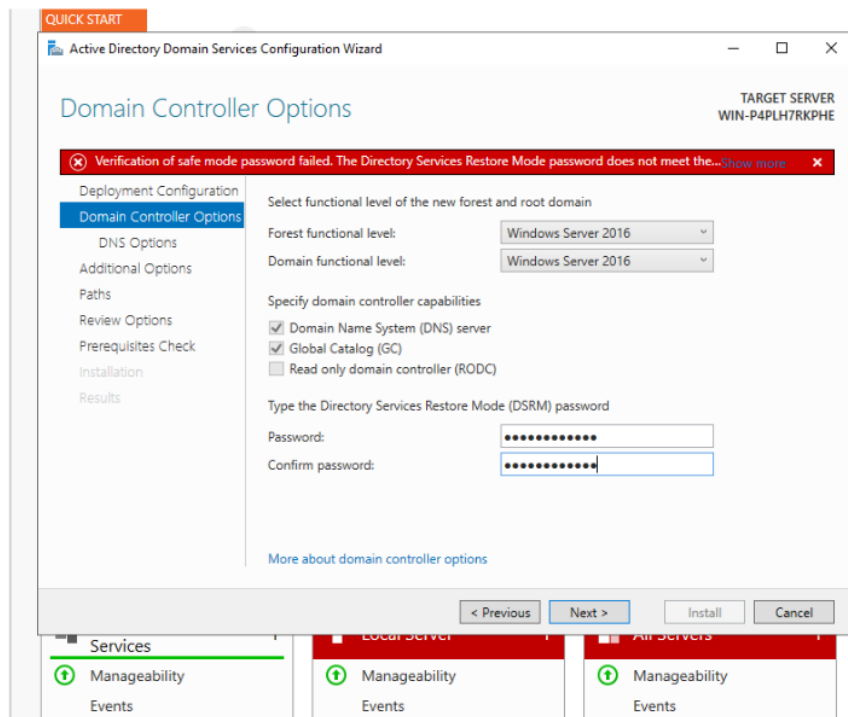
This image shows that the DHCP server has been successfully set up as well as the DNS and AD DS. This image shows proof that they were set up successfully with no issues.



This image is showing the “post-deployment” of the active directory domain and DHCP. It just shows that they require more set up than before and a few things need to be tinkered correctly for them to work 100%.

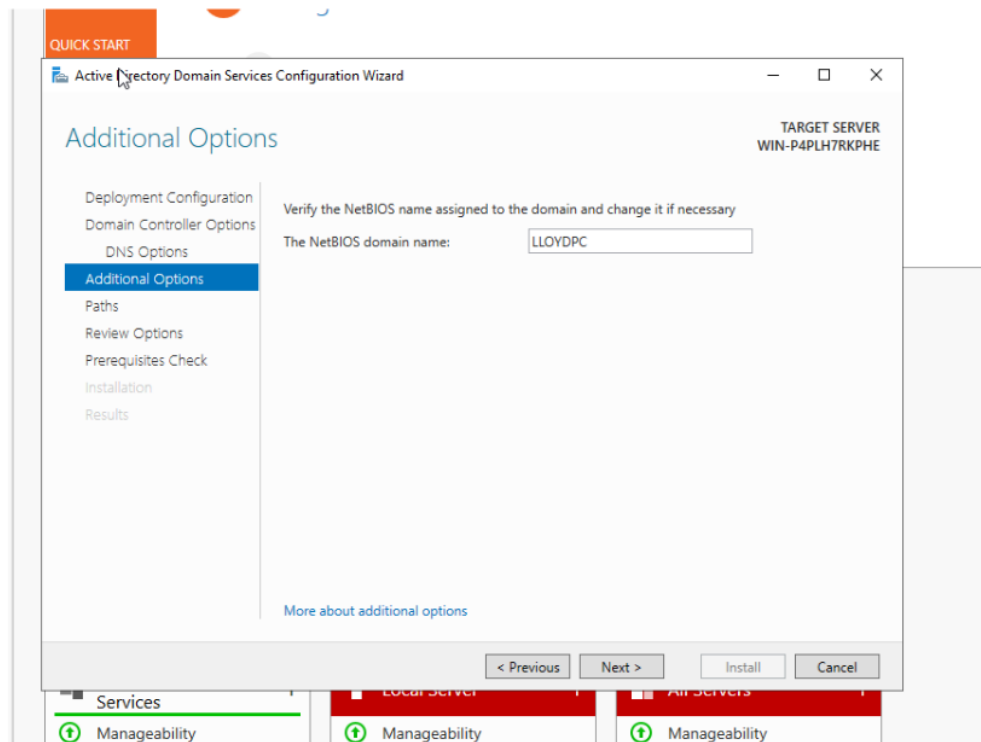


This is the post-deployment of the active directory domain services. Here I had to create a forest with the root domain name "lloydpc.local", you must add the .local at the end otherwise you will get an error message as also shown above.

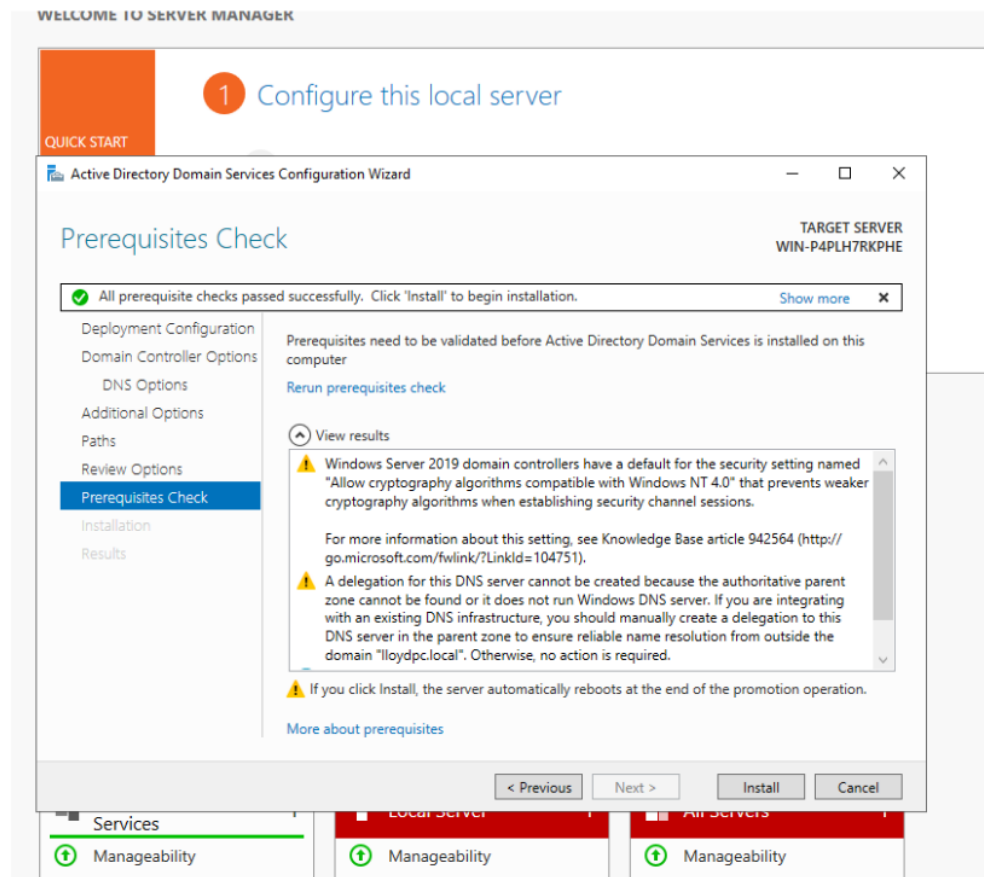


Here is me giving the server a password that must be very secure. This makes this server the DNS holder and will allow your other virtual machines to connect to it.

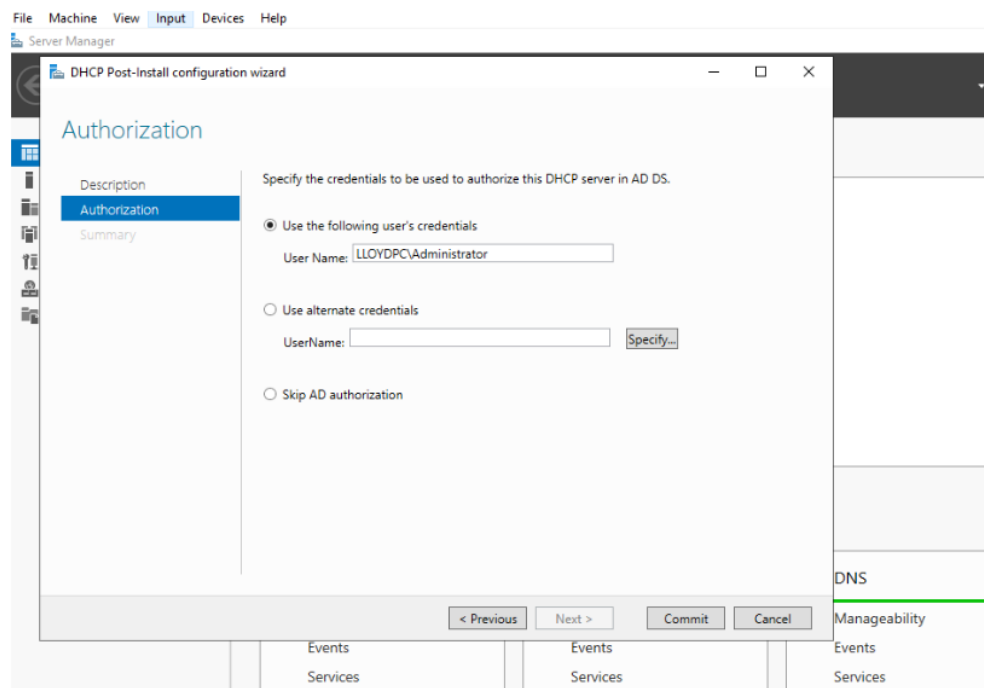




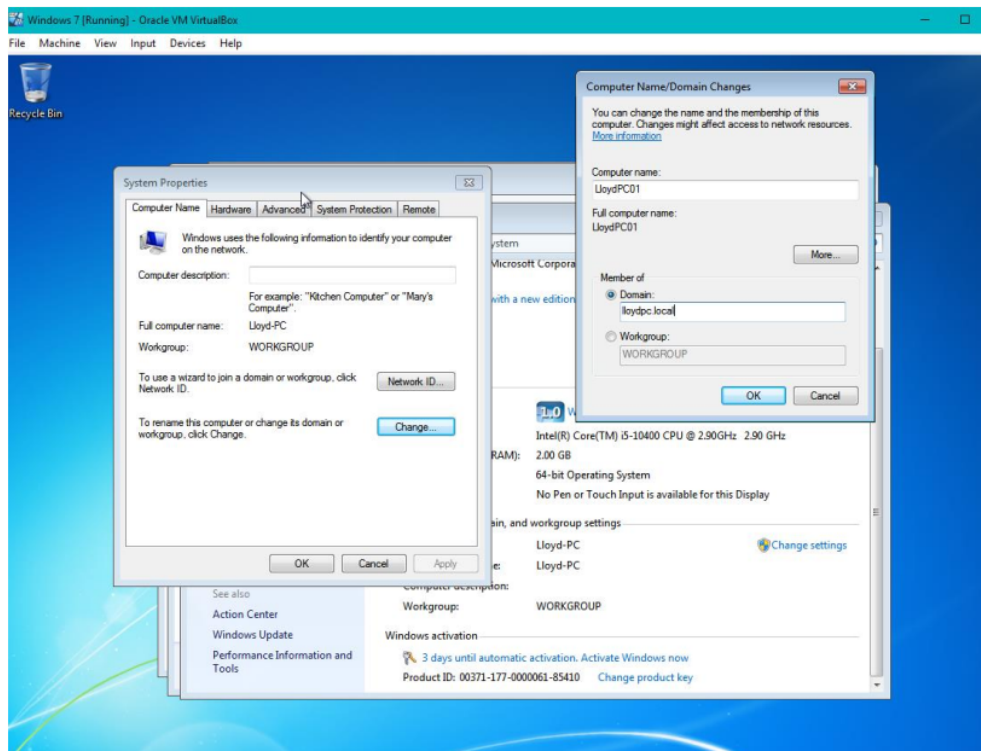
Here is the NetBIOS. It is recommended to have your NetBIOS name be the same or similar to what you named your root name. I named mine "LLOYDPC" as it simple and easy to remember.



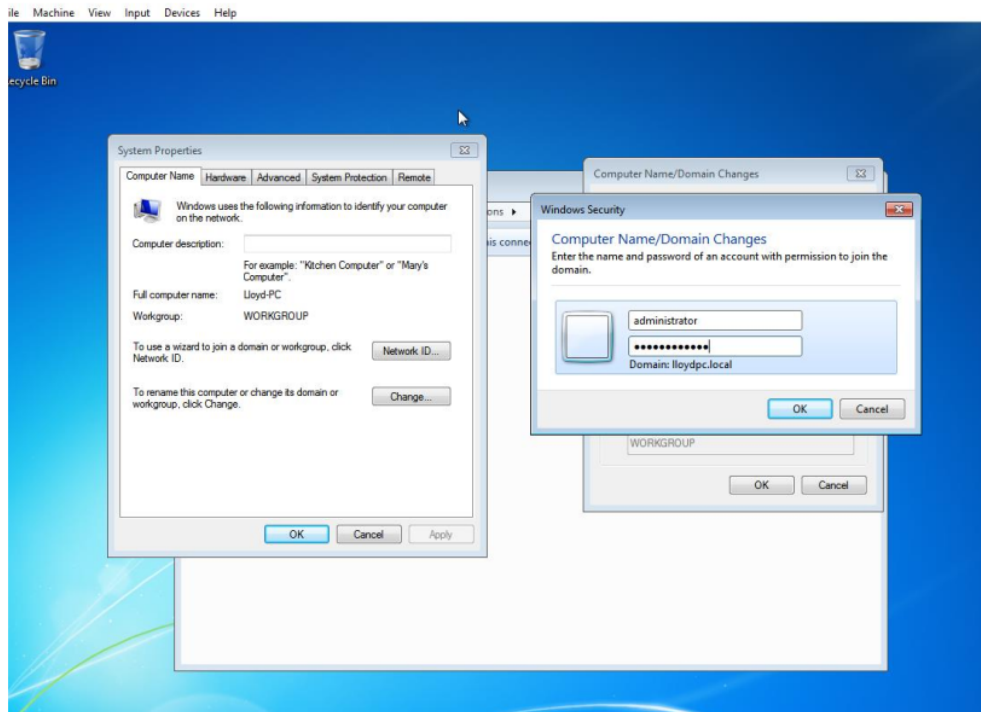
Here is the screen to show that you have done everything correctly and you are ready to fully install the active directory domain services. As it says above “All prerequisite checks passed successfully”, this means everything is good to go!



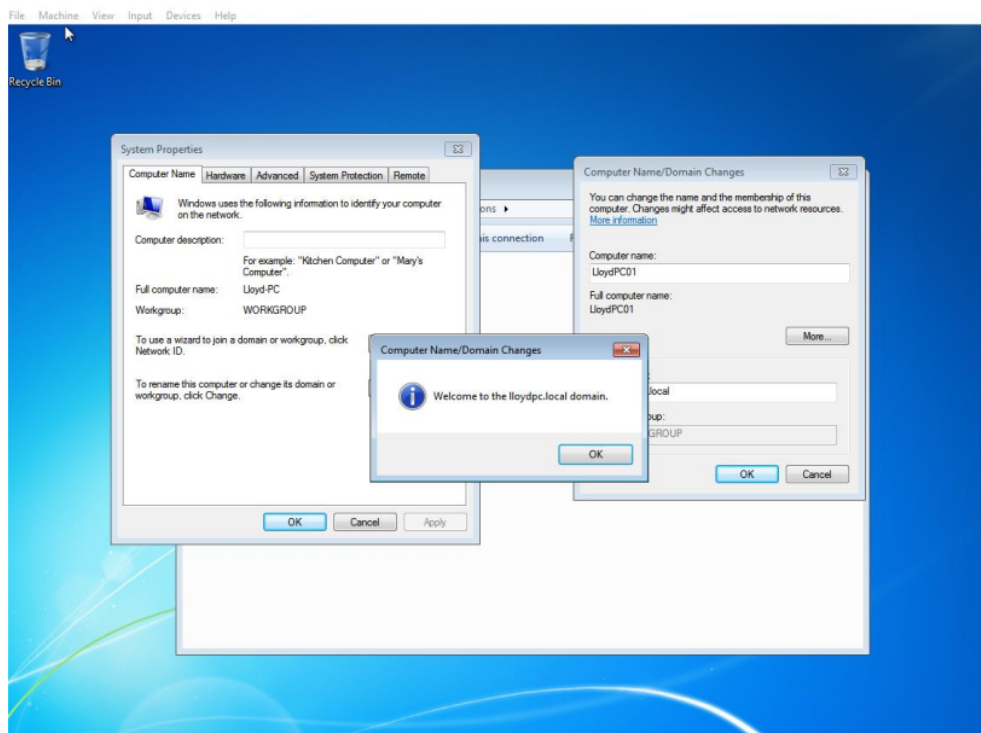
In the DHCP settings you must allow authorization to your other virtual machines by entering the name of your other machines and allowing them admin privileges. As you can see the username is "LLOYDPC\Administrator".



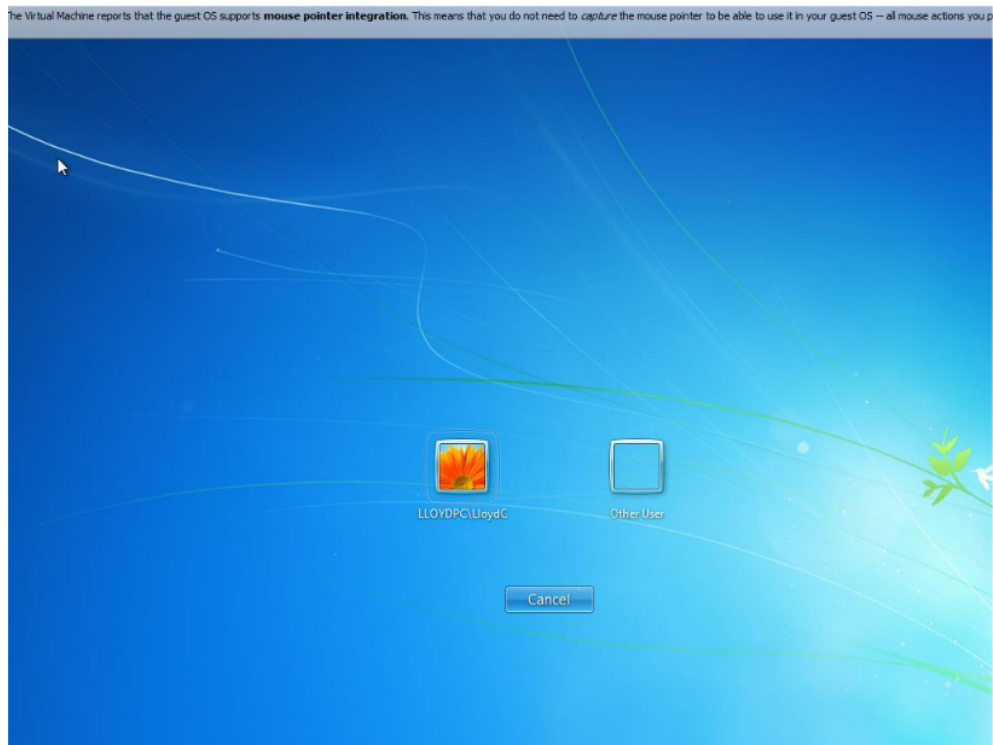
Back onto the Windows 7 virtual machine, it is now time to finally successfully connect to the server that you have set up. Here you go into system network settings and connect yourself up to the server. To do this you must enter the domain name which you entered earlier for me it is "lloydpc.local". Once you have done everything correctly



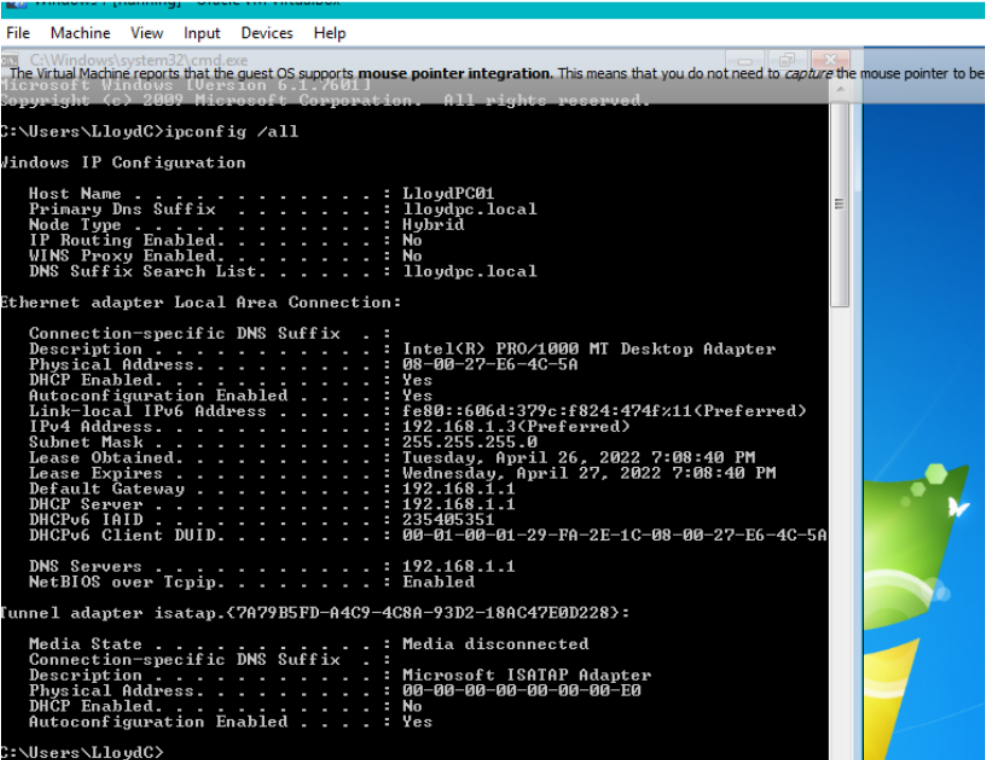
After that you will then be prompted to sign into the account. You will have been prompted to enter a password for the admin account as you were setting it up in the previous steps, you will now enter that name of the admin account (which I named administrator) and then enter the password to access your domain.



After you have logged in you will get a message saying that you have successfully signed into the domain on your other virtual machines, in this case the windows 7 machine.



This is further proof, as you can see there is your default account that you logged in with at the very start and then the newly added admin account is there to select, known as the "Other User".



```
C:\Windows\system32\cmd.exe
The Virtual Machine reports that the guest OS supports mouse pointer integration. This means that you do not need to capture the mouse pointer to be
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\LloydC>ipconfig /all

Windows IP Configuration

Host Name . . . . . : LloydPC01
Primary Dns Suffix . . . . . : lloydpc.local
Node Type . . . . . : Hybrid
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No
DNS Suffix Search List. . . . . : lloydpc.local

Ethernet adapter Local Area Connection:

Connection-specific DNS Suffix . : 
Description . . . . . : Intel(R) PRO/1000 MT Desktop Adapter
Physical Address. . . . . : 08-00-27-E6-4C-5A
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . . : Yes
Link-local IPv6 Address . . . . . : fe80::606d:379c:f824:474f%11(Preferred)
IPv4 Address. . . . . : 192.168.1.3(Preferred)
Subnet Mask . . . . . : 255.255.255.0
Lease Obtained. . . . . : Tuesday, April 26, 2022 7:08:40 PM
Lease Expires . . . . . : Wednesday, April 27, 2022 7:08:40 PM
Default Gateway . . . . . : 192.168.1.1
DHCP Server . . . . . : 192.168.1.1
DHCPv6 Iaid . . . . . : 235405351
DHCPv6 Client DUID. . . . . : 00-01-00-01-29-FA-2E-1C-08-00-27-E6-4C-5A

DNS Servers . . . . . : 192.168.1.1
NetBIOS over Tcpip. . . . . : Enabled

Tunnel adapter isatap.{7A79B5FD-A4C9-4C8A-93D2-18AC47E0D228}:

Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . : 
Description . . . . . : Microsoft ISATAP Adapter
Physical Address. . . . . : 00-00-00-00-00-00-E0
DHCP Enabled. . . . . : No
Autoconfiguration Enabled . . . . : Yes

C:\Users\LloydC>
```

Here is the final screenshot that shows what it is like once you have logged into the admin account on your other virtual machines. I have ran the CMD command with "ipconfig /all", this shows all the PC is connected to and it does show that it is connected to the domain "lloydpc.local". This proves that the server virtual machine has been set up correctly as stated in the assignment brief.

Assignment Lloyd Case

GRADEMARK REPORT

FINAL GRADE

GENERAL COMMENTS

Instructor

70/100

PAGE 1



Comment 1

would be better to use third person pronouns fro professionalism



Comment 2

proof-reading

PAGE 2



Comment 3

appropriate evidence shown

PAGE 3

PAGE 4

PAGE 5

PAGE 6

PAGE 7

PAGE 8

PAGE 9

PAGE 10



Comment 4

again good evidence provided

PAGE 11



Comment 5

good use of extra utility programs

PAGE 12

PAGE 13



Comment 6

possible use of the ping and or tracert commands ?

PAGE 14

PAGE 15



Comment 7

good evidence

PAGE 16

PAGE 17

PAGE 18

PAGE 19



Comment 8

domain controller setup evidenced

PAGE 20

PAGE 21

PAGE 22

PAGE 23

PAGE 24

PAGE 25



Comment 9

evidence of appropriate domain attachment