

Practical No.3

Aim: Native Virtualization using Hyper-V.

HYPER-V

Hyper-V, codenamed Viridia and formerly known as Windows Server Virtualization, is a native hypervisor; it can create virtual machines on x86-64 systems. Starting with Windows 8, Hyper-V supersedes Windows Virtual PC as the hardware virtualization component of the client editions of Windows NT.

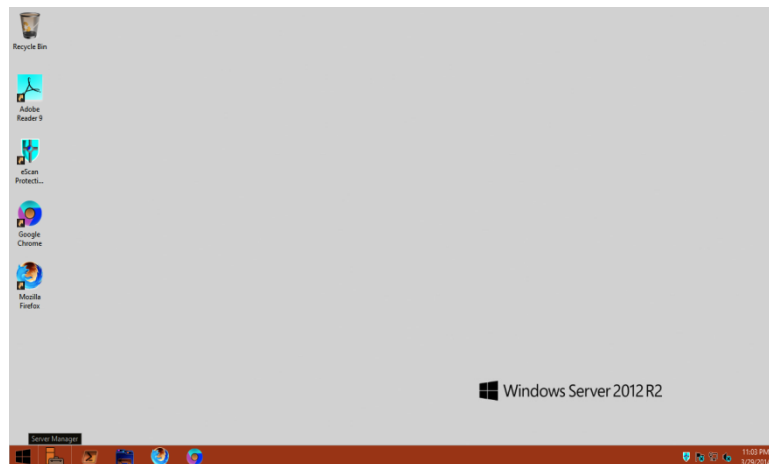
A host server running Hyper-V could be accessed remotely by multiple guest computers. Each guest computer could perform as if they are using the host server directly. Users on the guest computers could run applications in the host server remotely, even though that application is not available on the guest computer.

A beta version of Hyper-V was shipped with certain x86-64 editions of Windows Server 2008, and a finalized version (automatically updated through Windows Update) was released on June 26, 2008.^[7] Hyper-V has since been released in a free stand-alone version, and has been upgraded to Release 2 (R2) status.^{[8][9]} It was updated in Windows Server 2012.^[10]

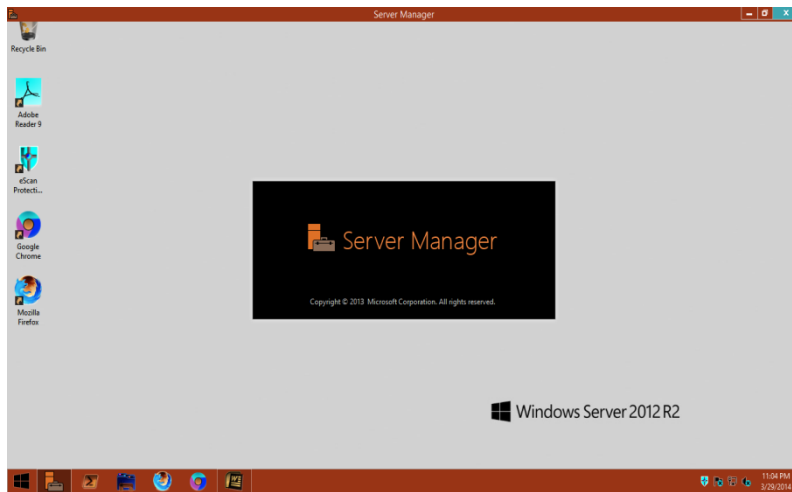
The stand-alone Hyper-V Server variant does not require an existing installation of Windows Server 2008 nor Windows Server 2008 R2. Microsoft Hyper-V server is built with components of Windows and has a Windows Server Core user experience System requirements of Microsoft Hyper-V server are the same for supported guest operating systems and processor, but differ in the following:

- RAM: Minimum: 1 GB RAM; Recommended: 2 GB RAM or greater; Maximum 1 TB.
- Available disk space: Minimum: 8 GB; Recommended: 20 GB or greater.

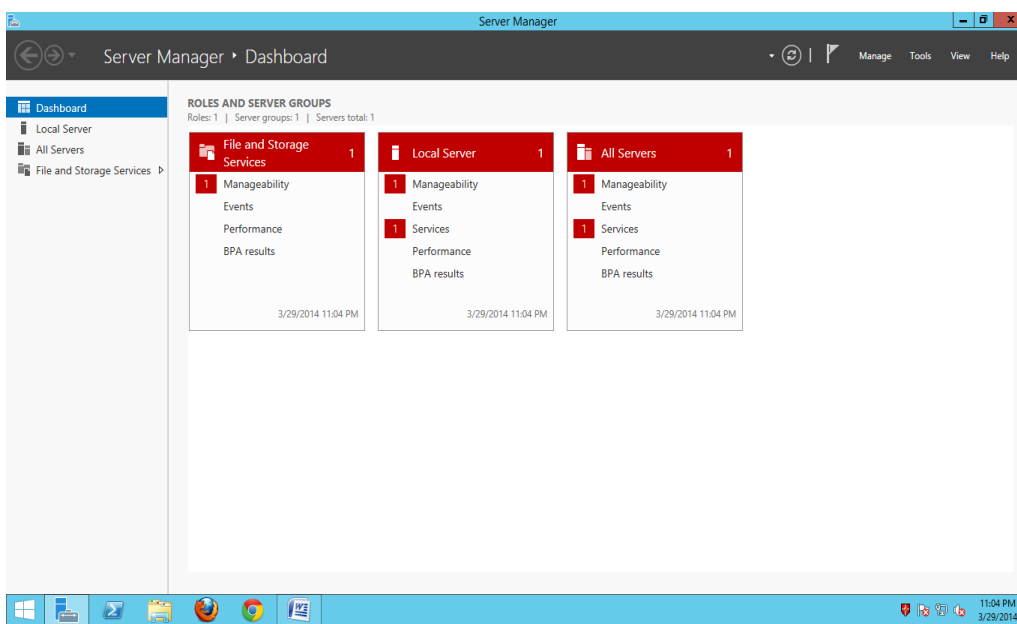
1. Click on server Manager



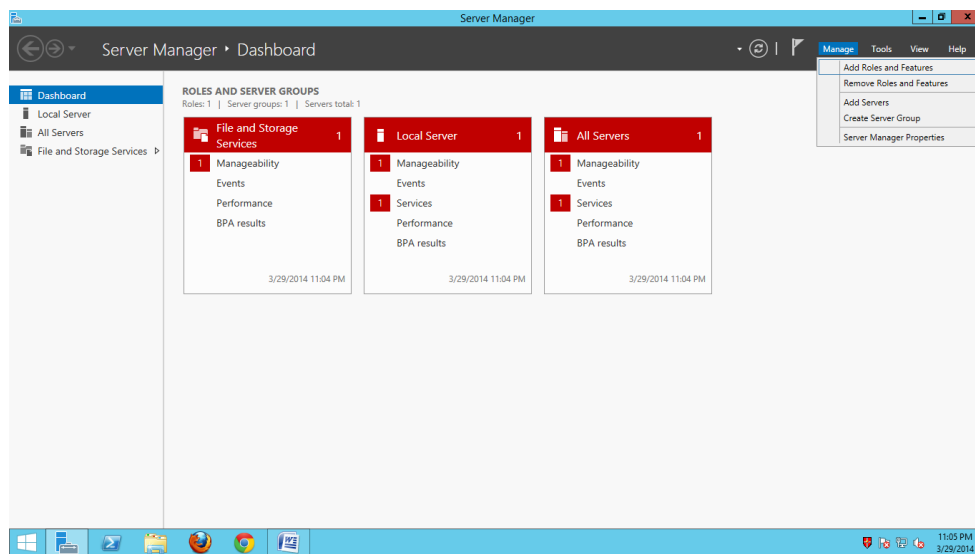
2.



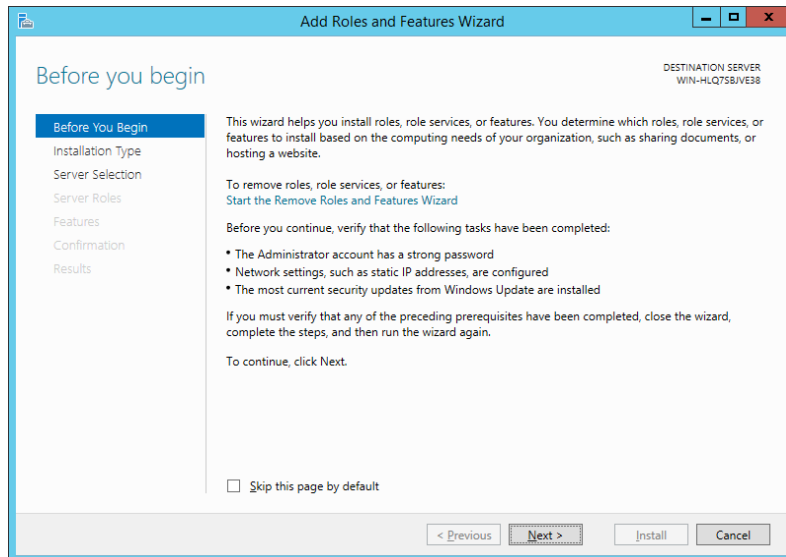
3.



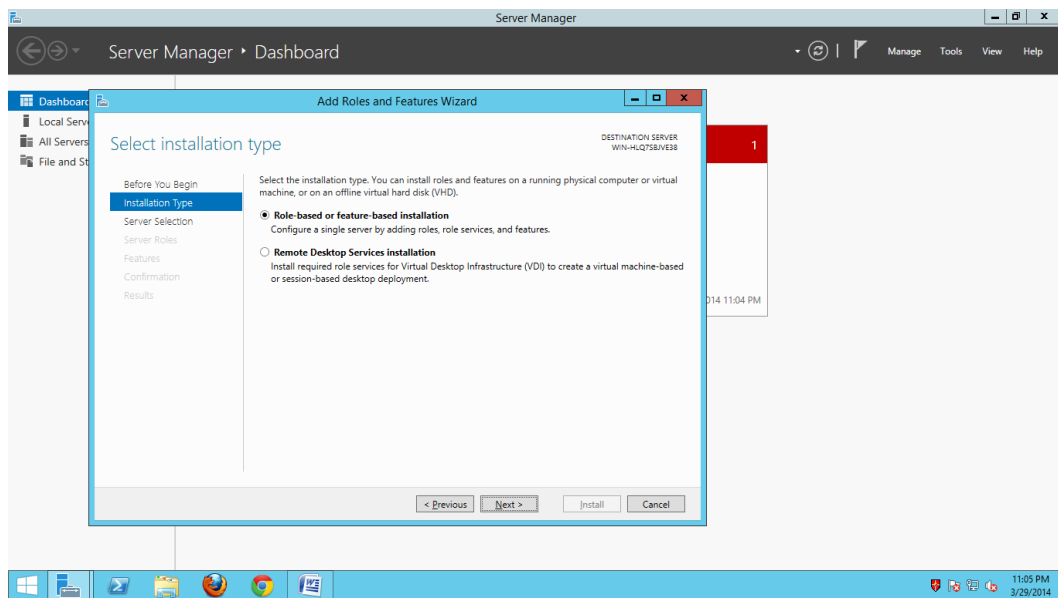
4. Click on Mange -> Add Roles and features



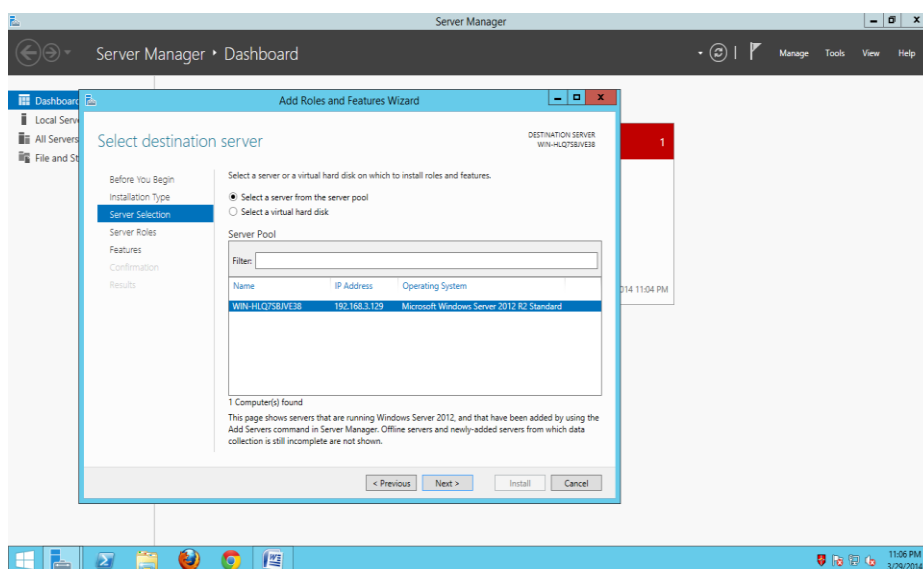
5. Click Next



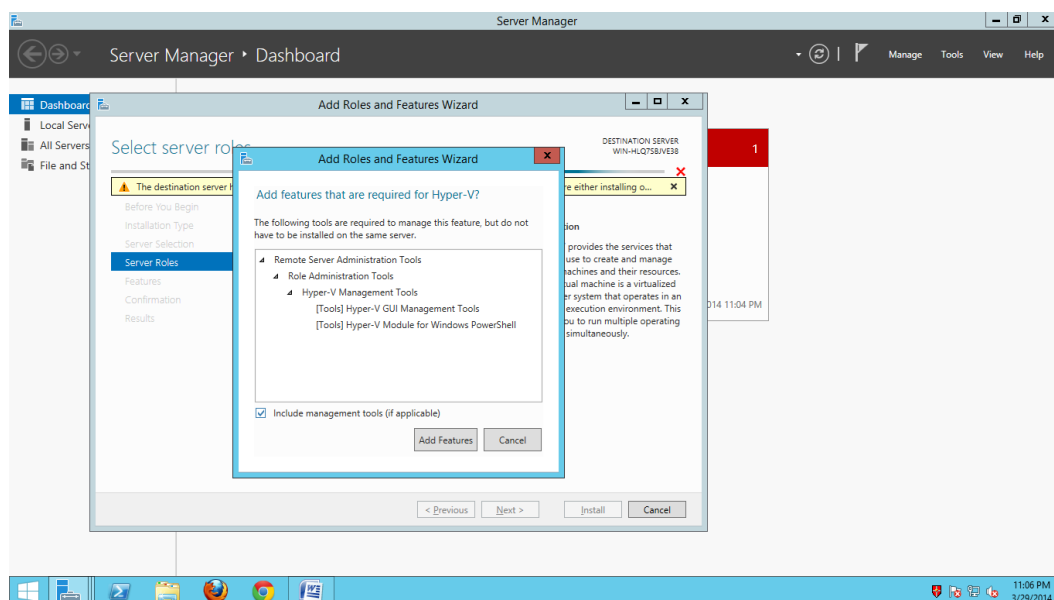
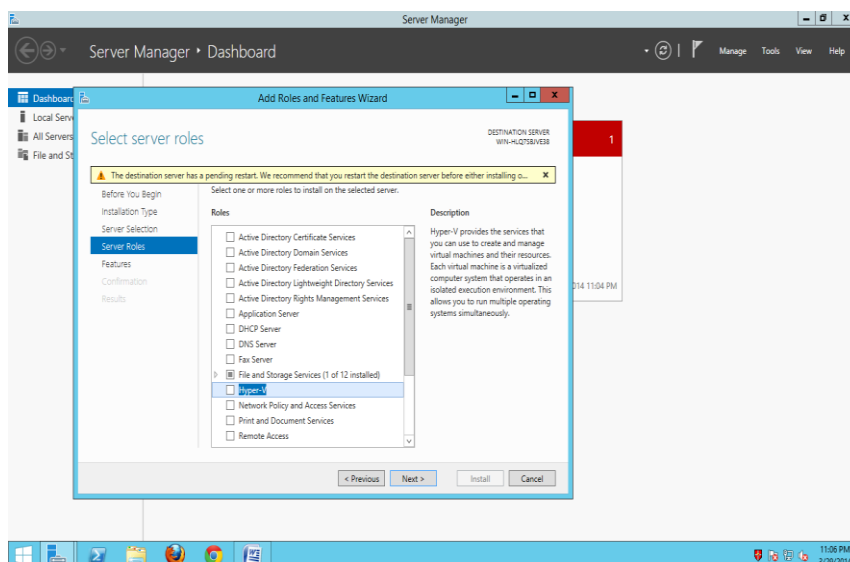
6. Click Next



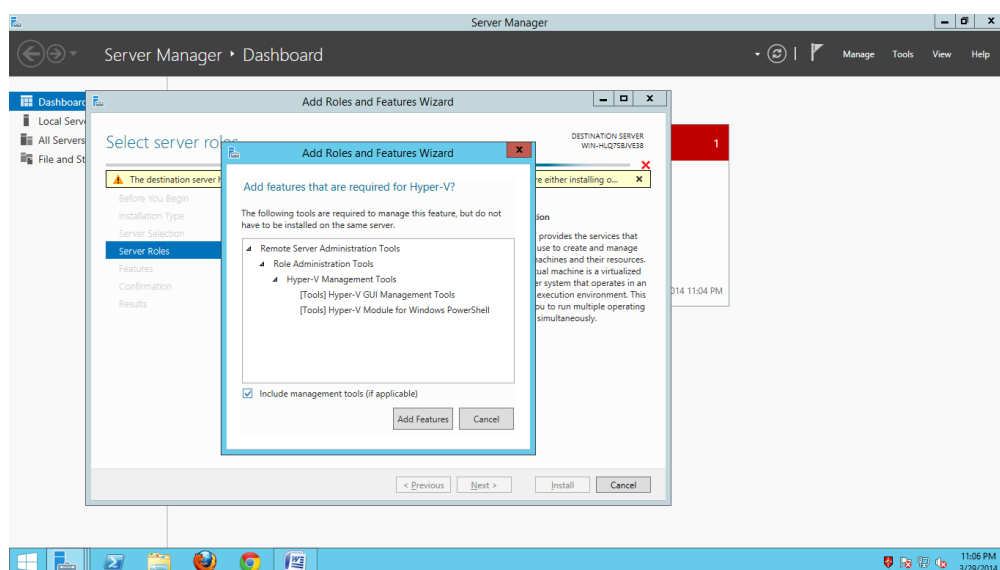
7. Select the server from the server pool



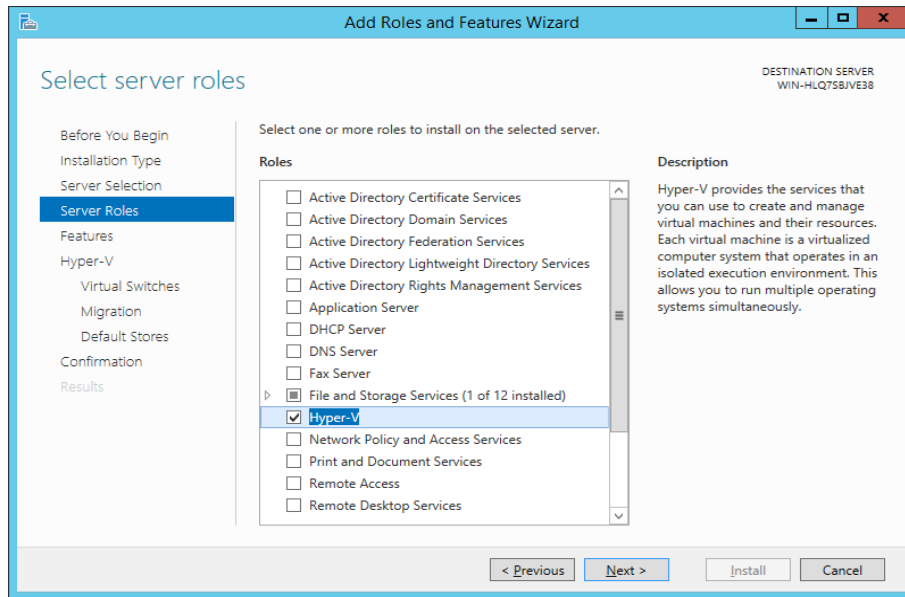
8. Select Hyper-V



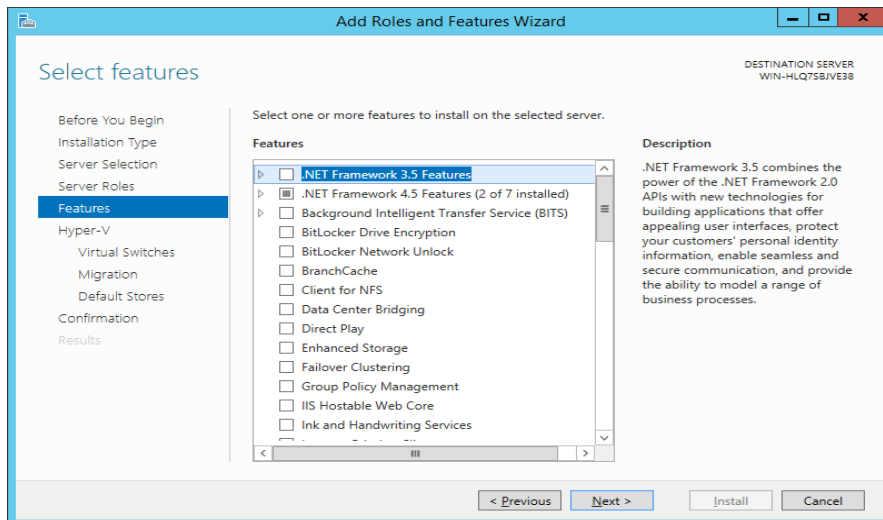
9. Click on Add features button



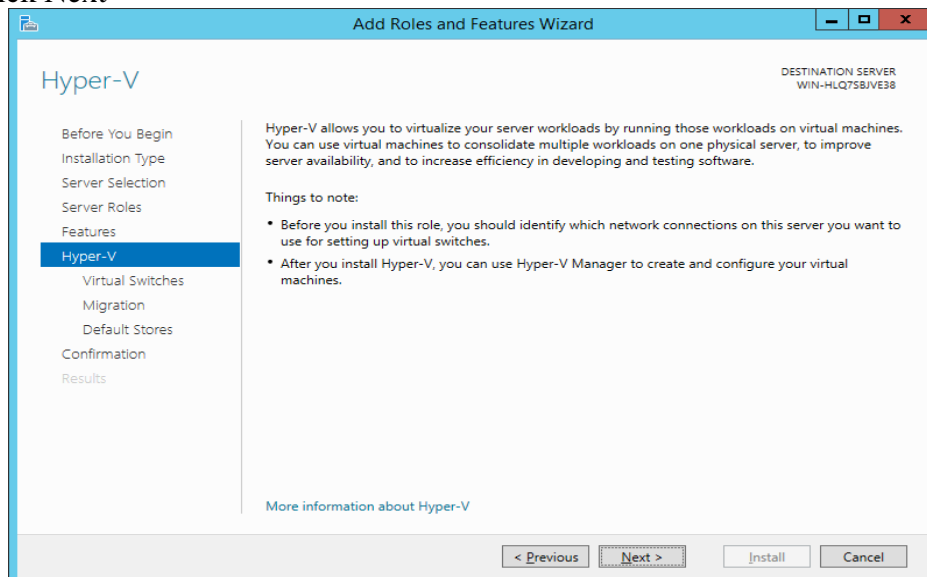
10. Click Next



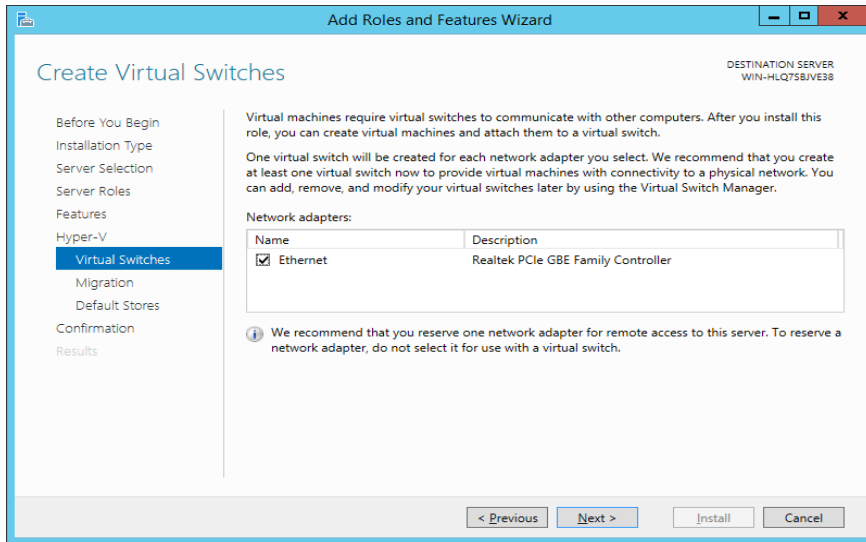
11. Click Next



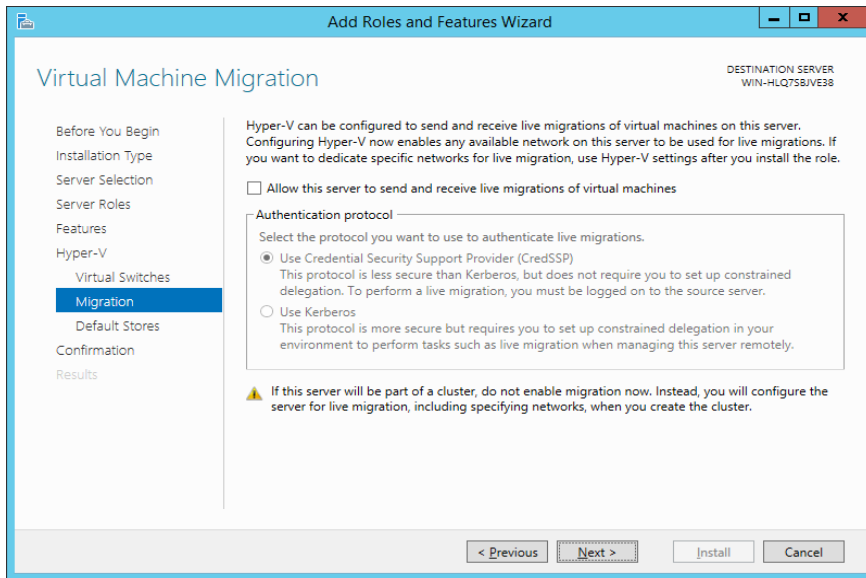
12. Click Next



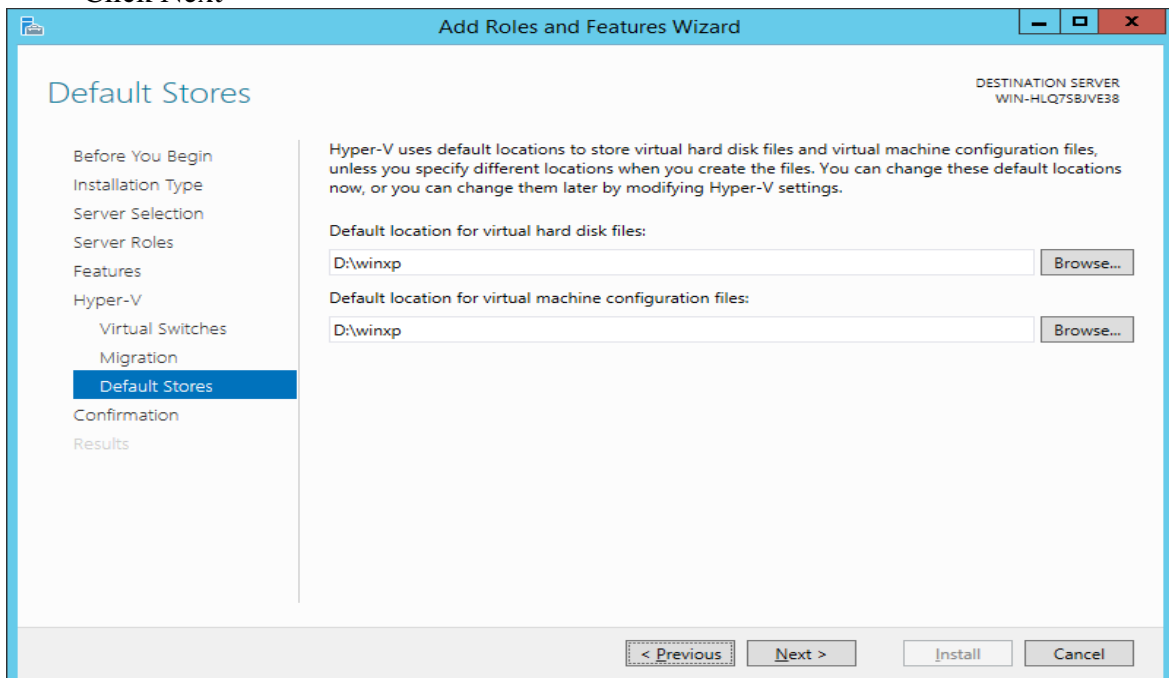
13. Check the Ethernet and Click Next



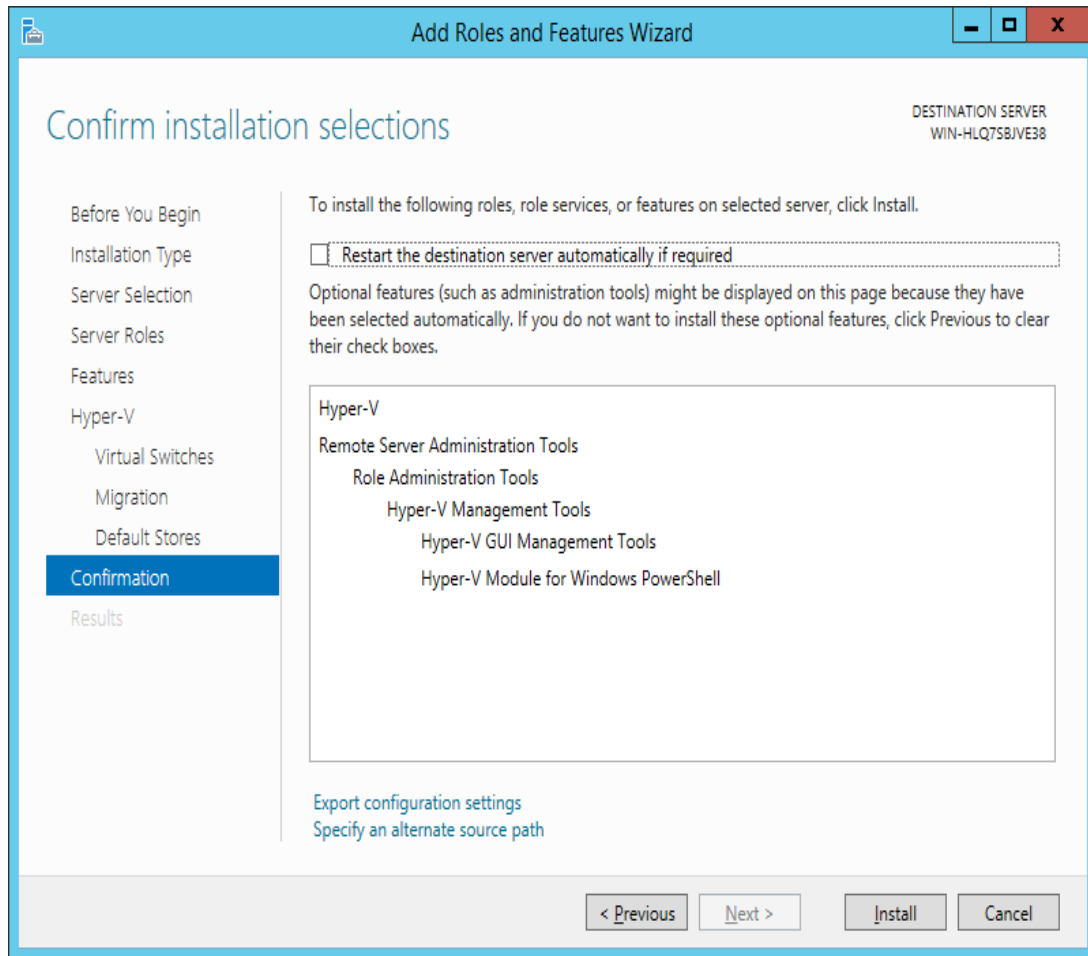
14. Click Next



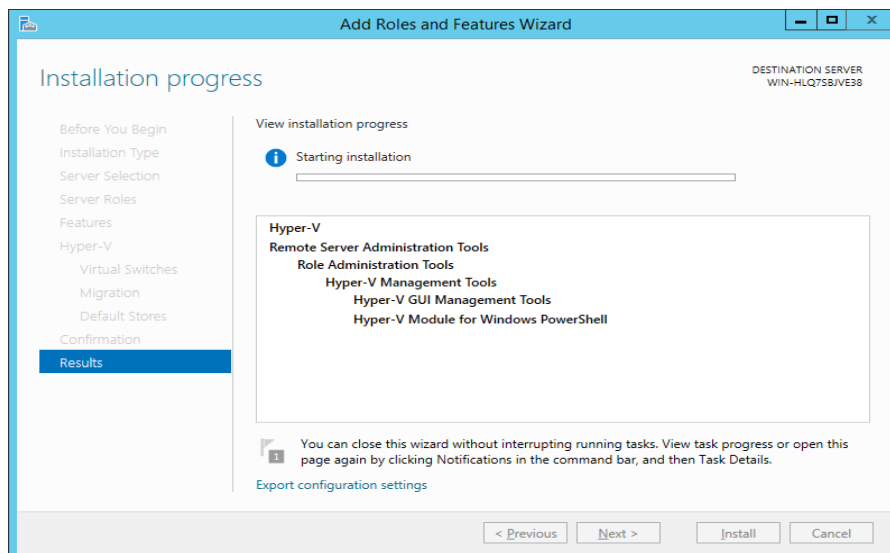
15. Select the destination Folder where you would like to install new virtual machine-> Click Next



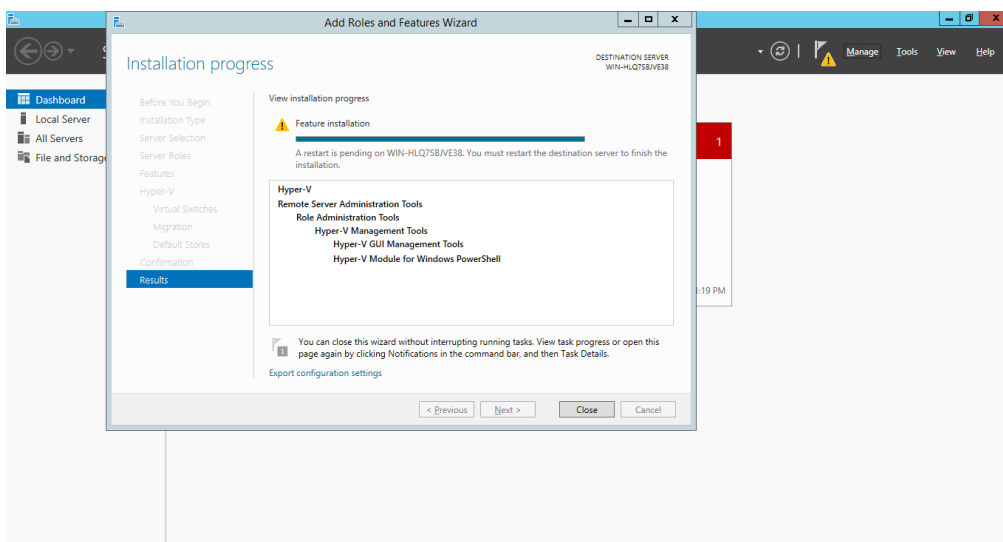
16. Click Install



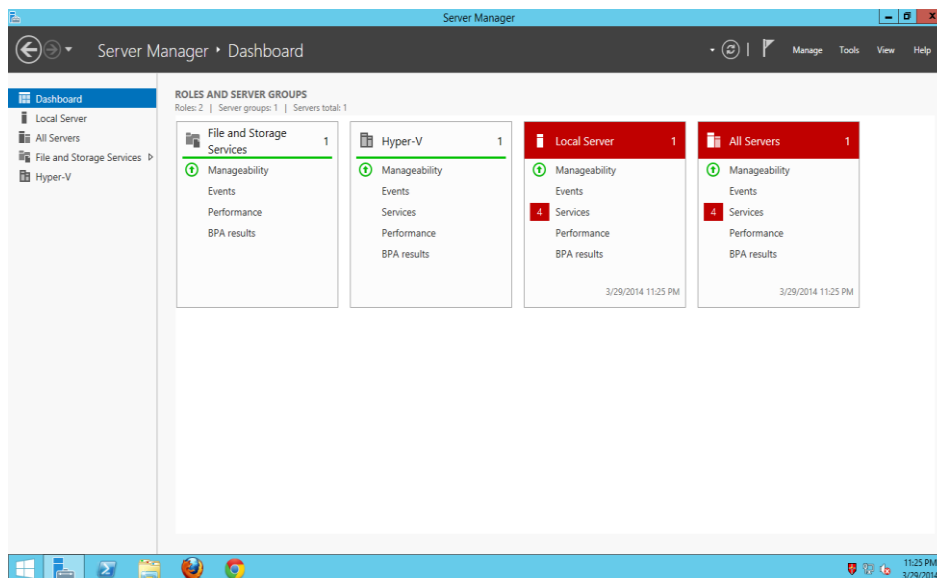
17.



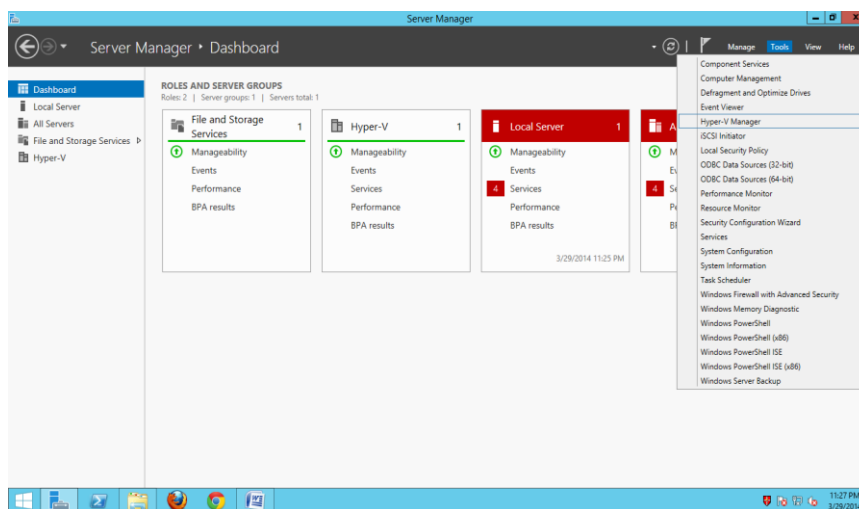
18. Installation Complete --> Click Close



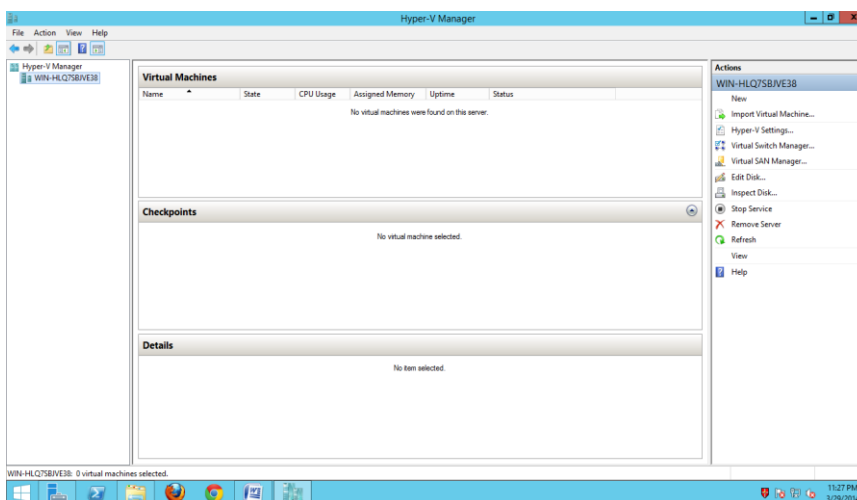
19.



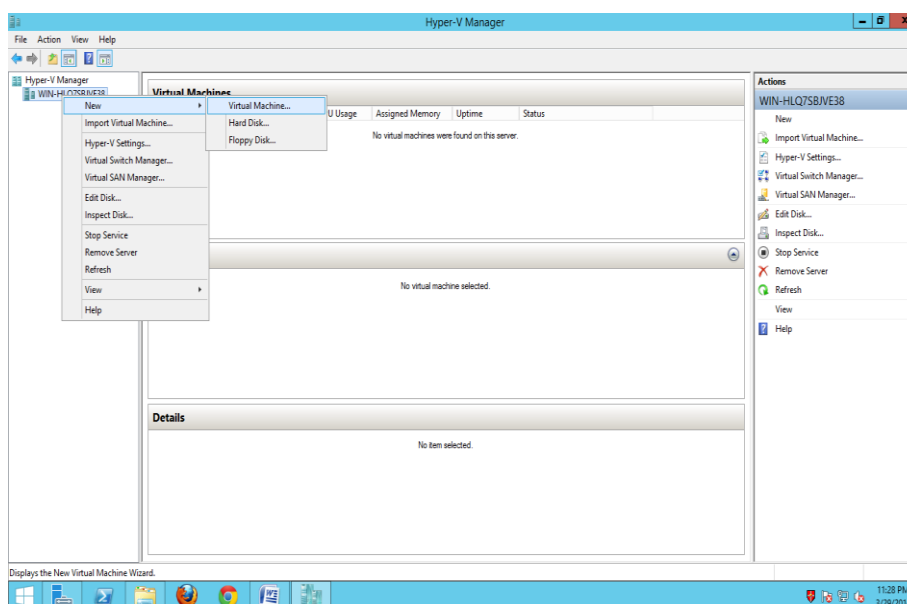
20. Go to Tools->HyperVManager



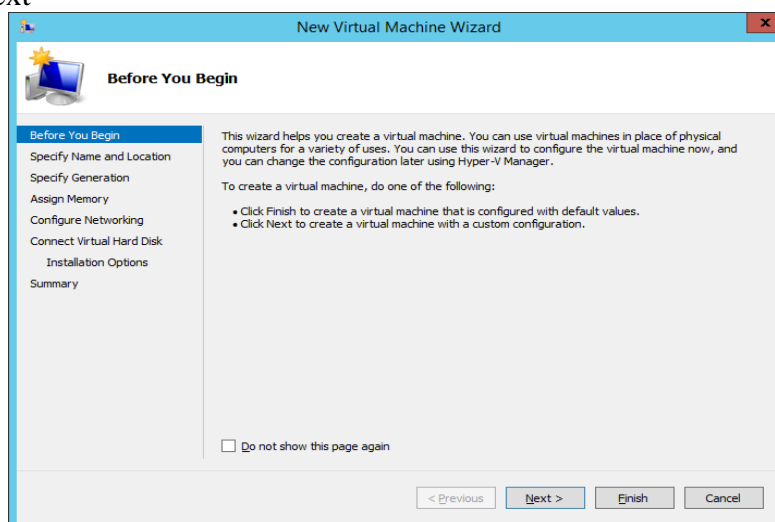
21. Still no Virtual Machine is installed on hyper-v



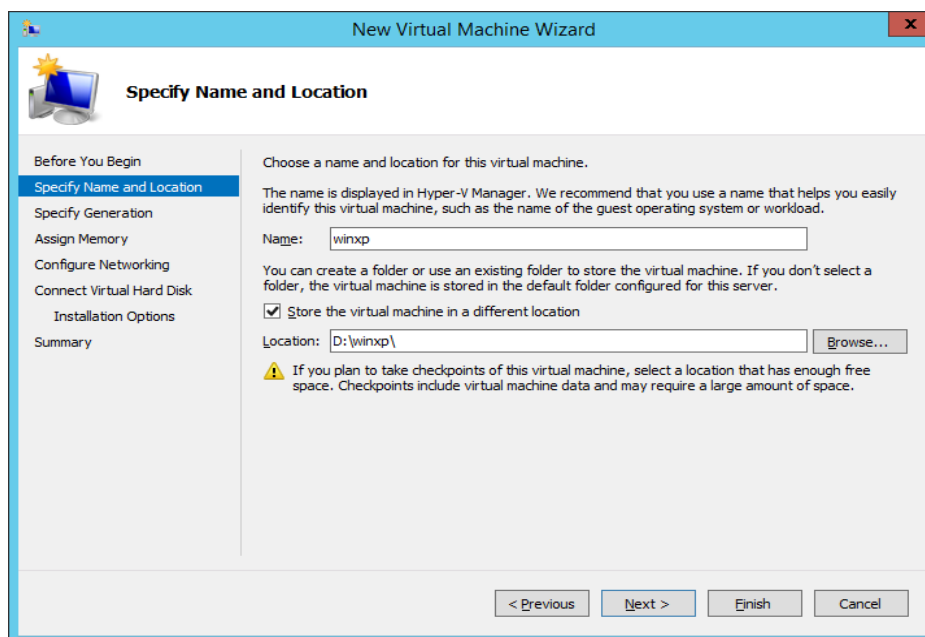
22. Right Click on WIN-HLQ7SBJVE38 under Hyper-v Manager -> Click New ->Virtual Machine



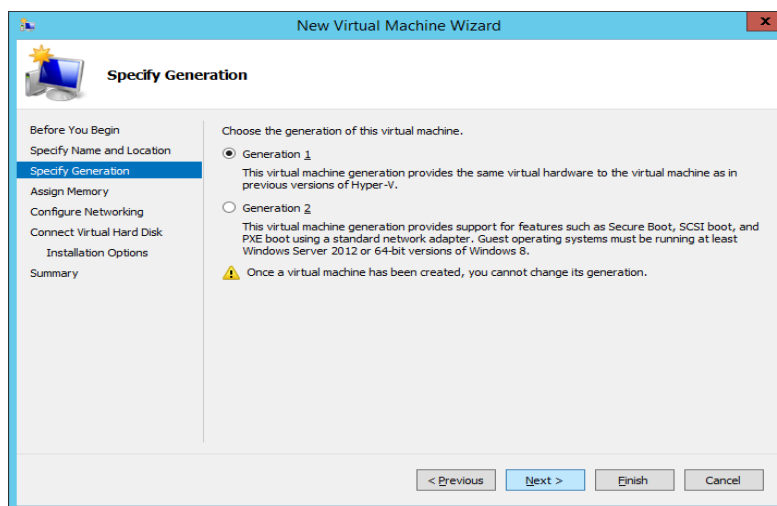
23. Click Next



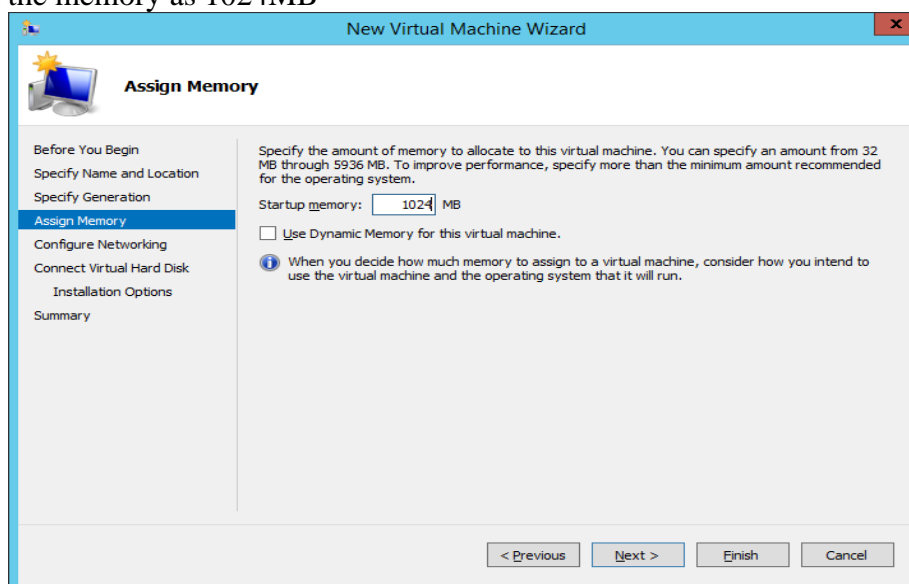
24. Type the name of VM and select the path of hyper-v



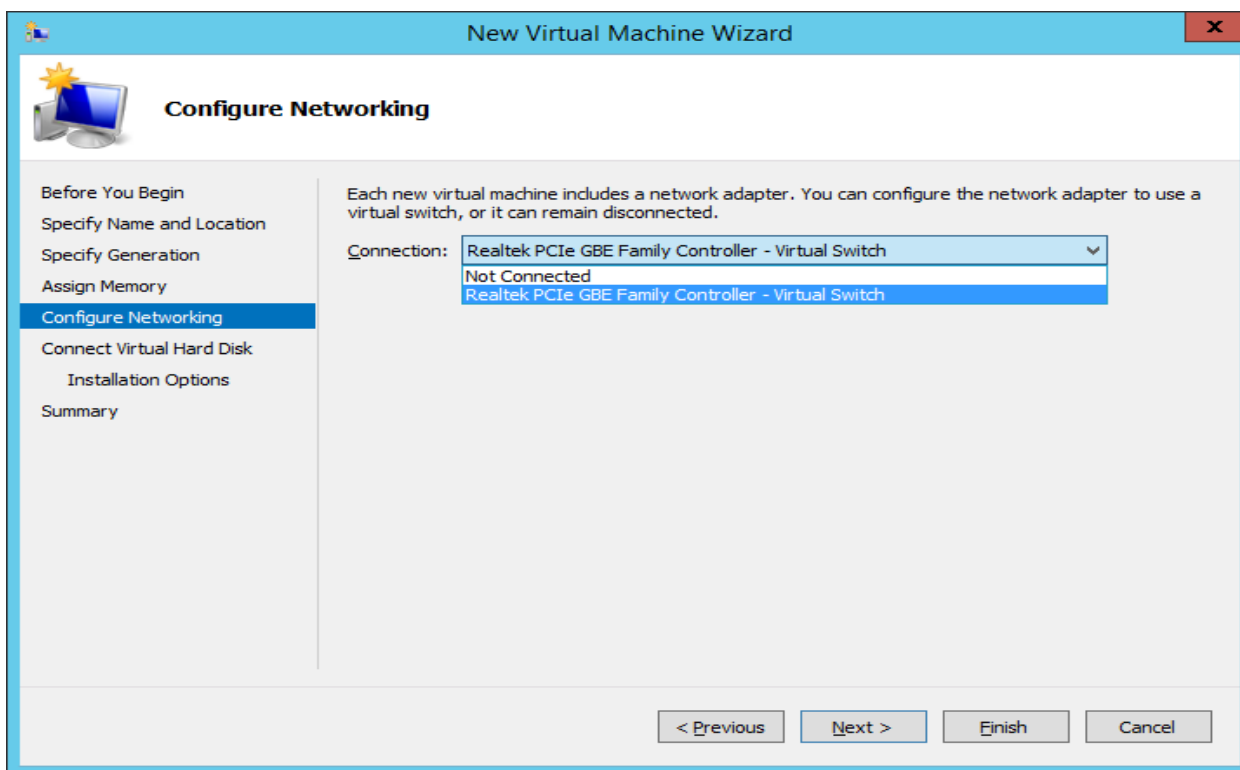
25. Click Next



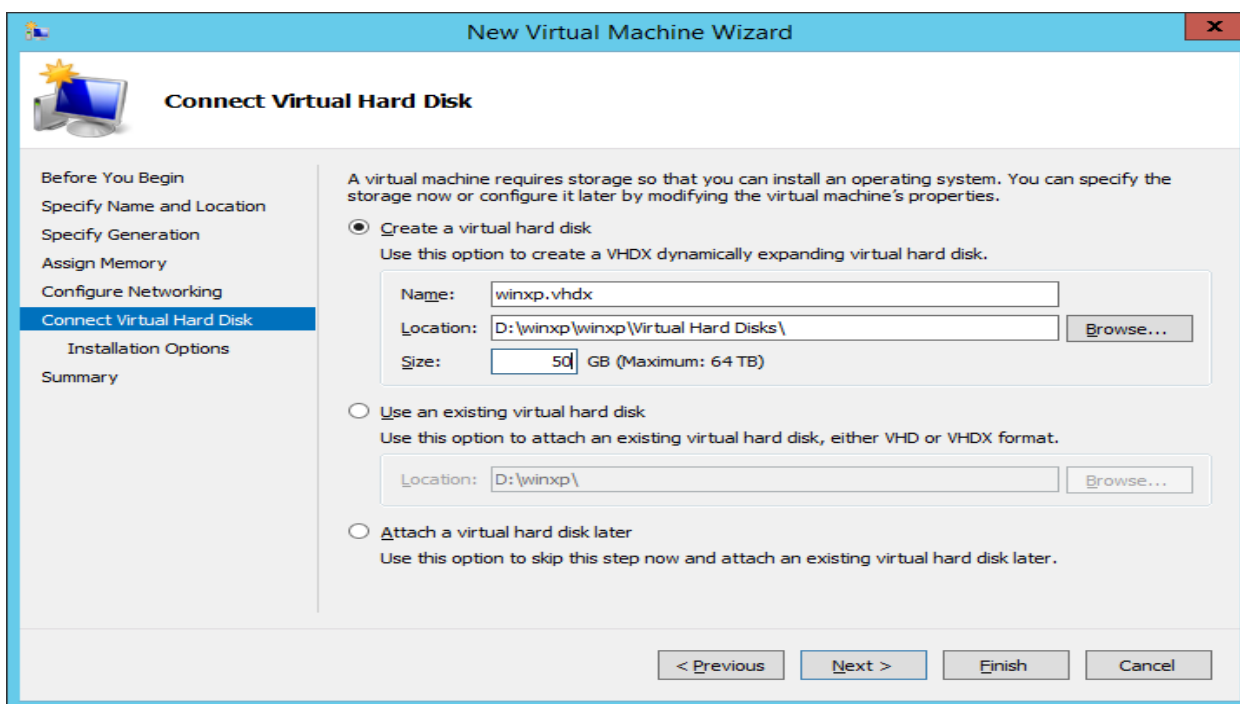
26. Set the memory as 1024MB



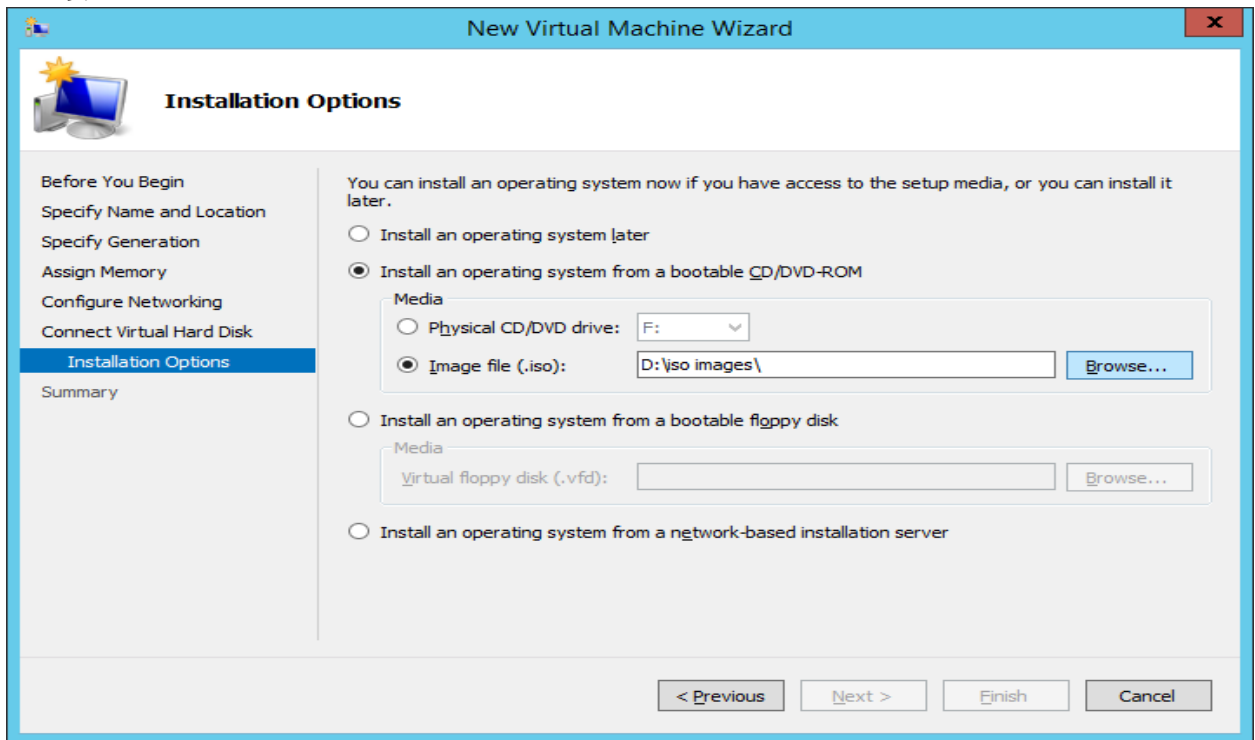
27. Select the Connection as Shown:



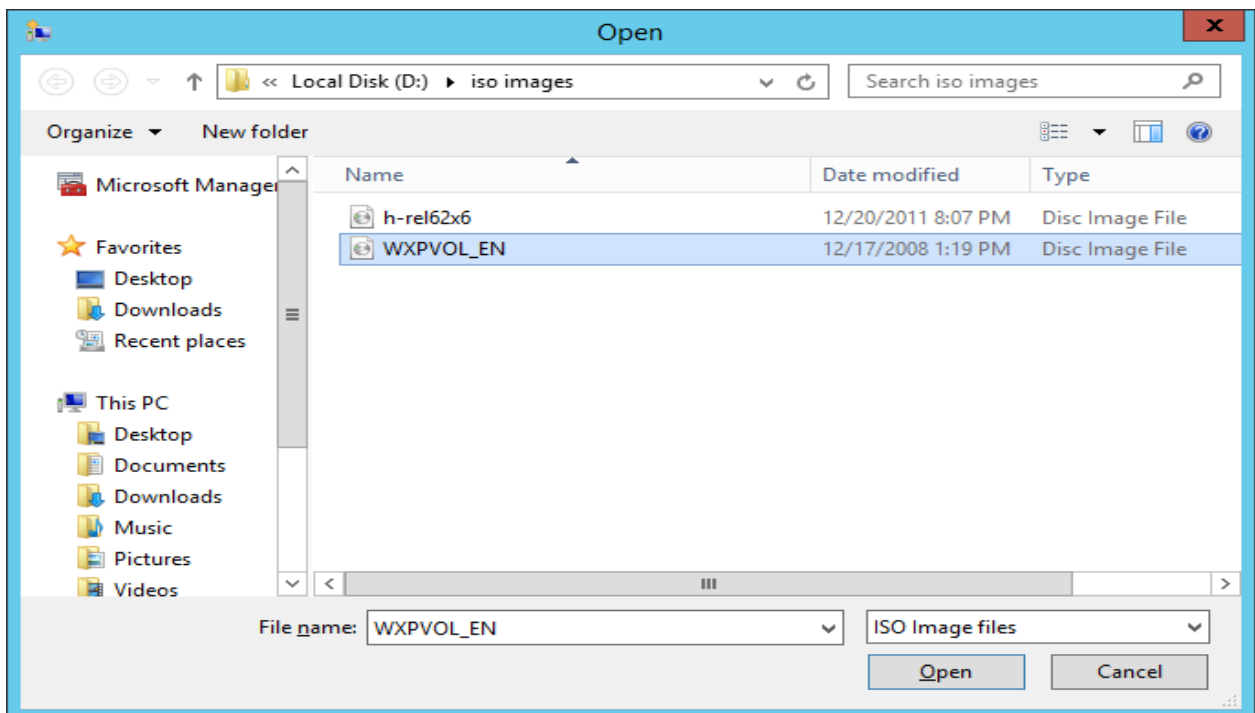
28. Set the size 50GB and click next



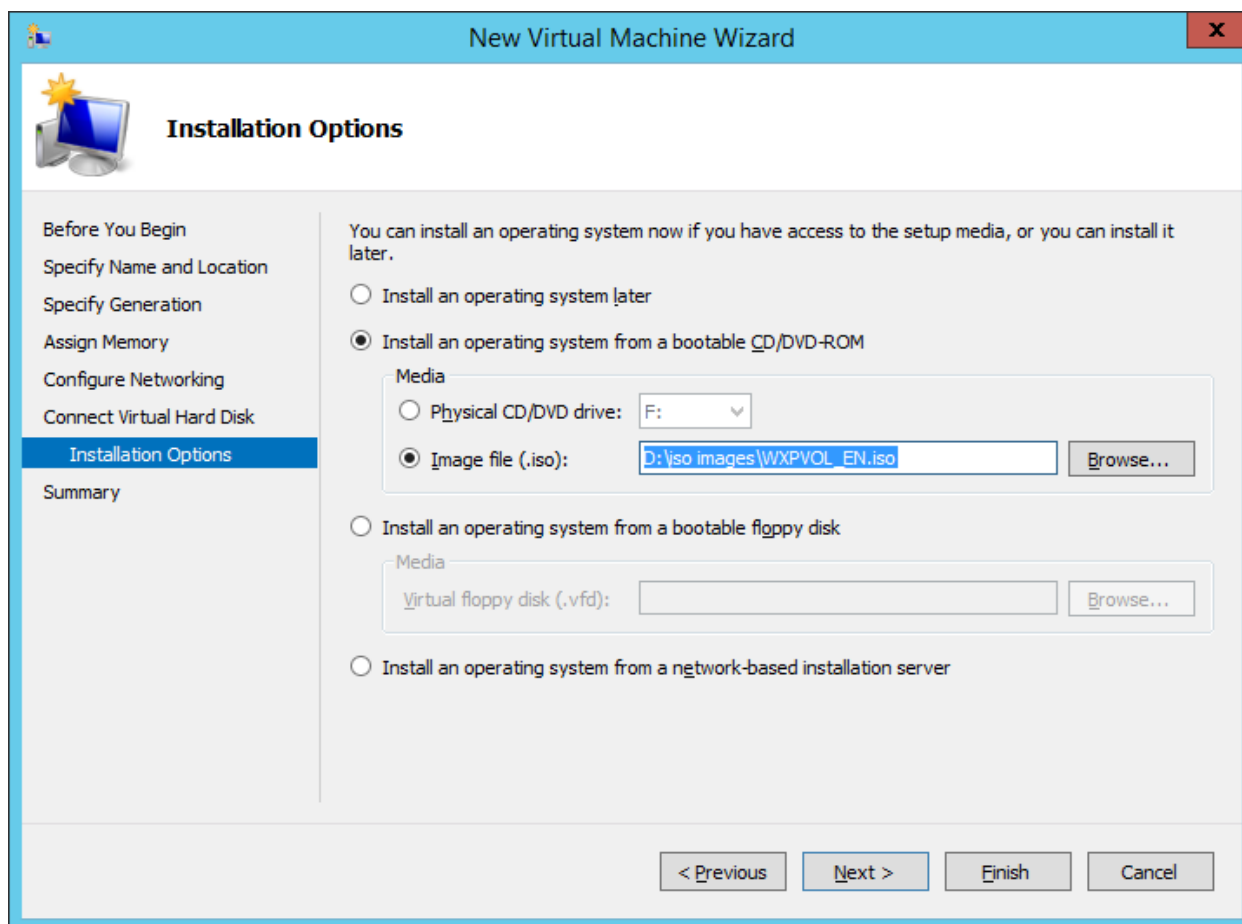
29.



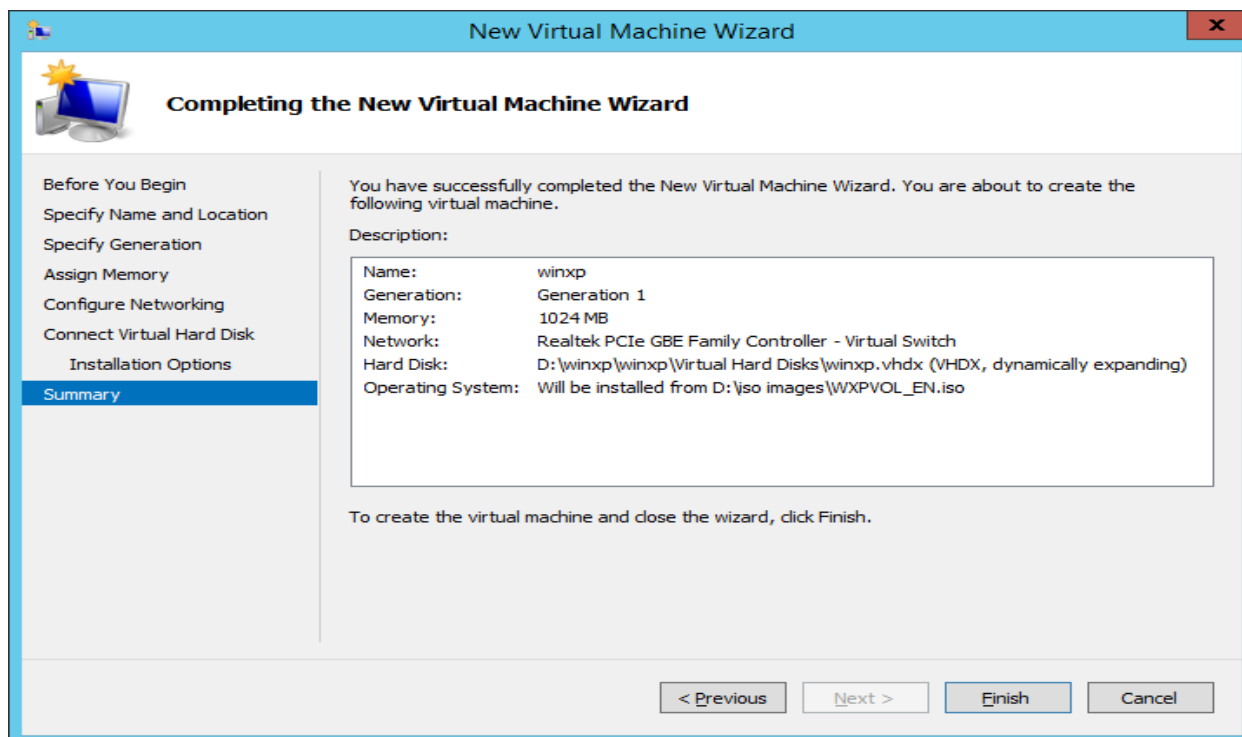
30. Click on browse n select d path for iso image of xp.



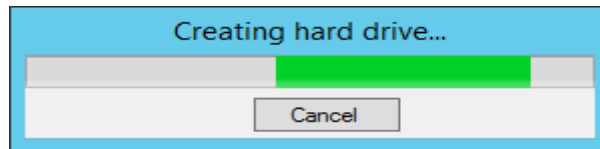
31. Click Next



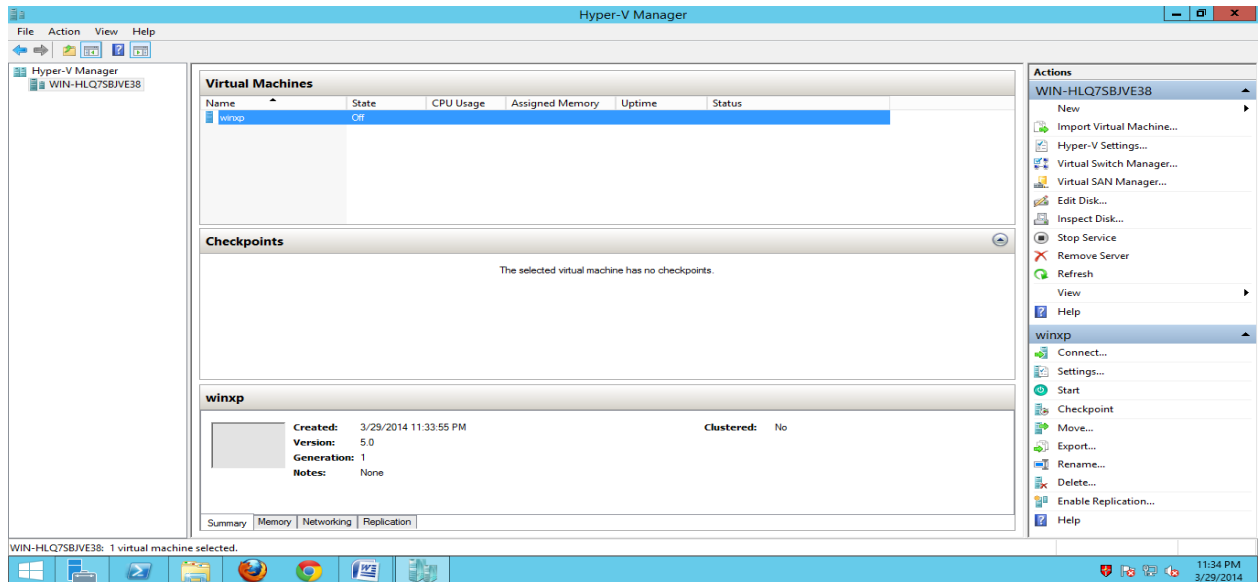
32. Click Finish



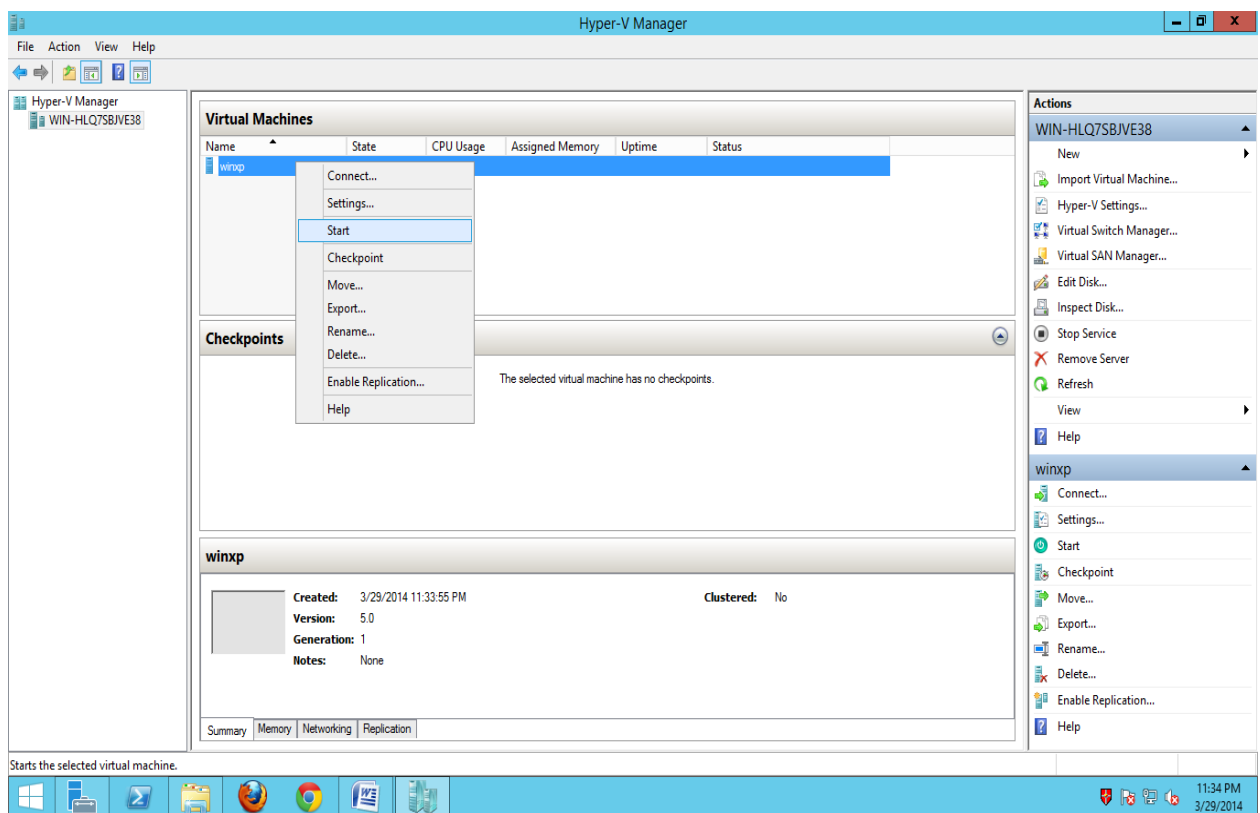
33. As you click on Finish.



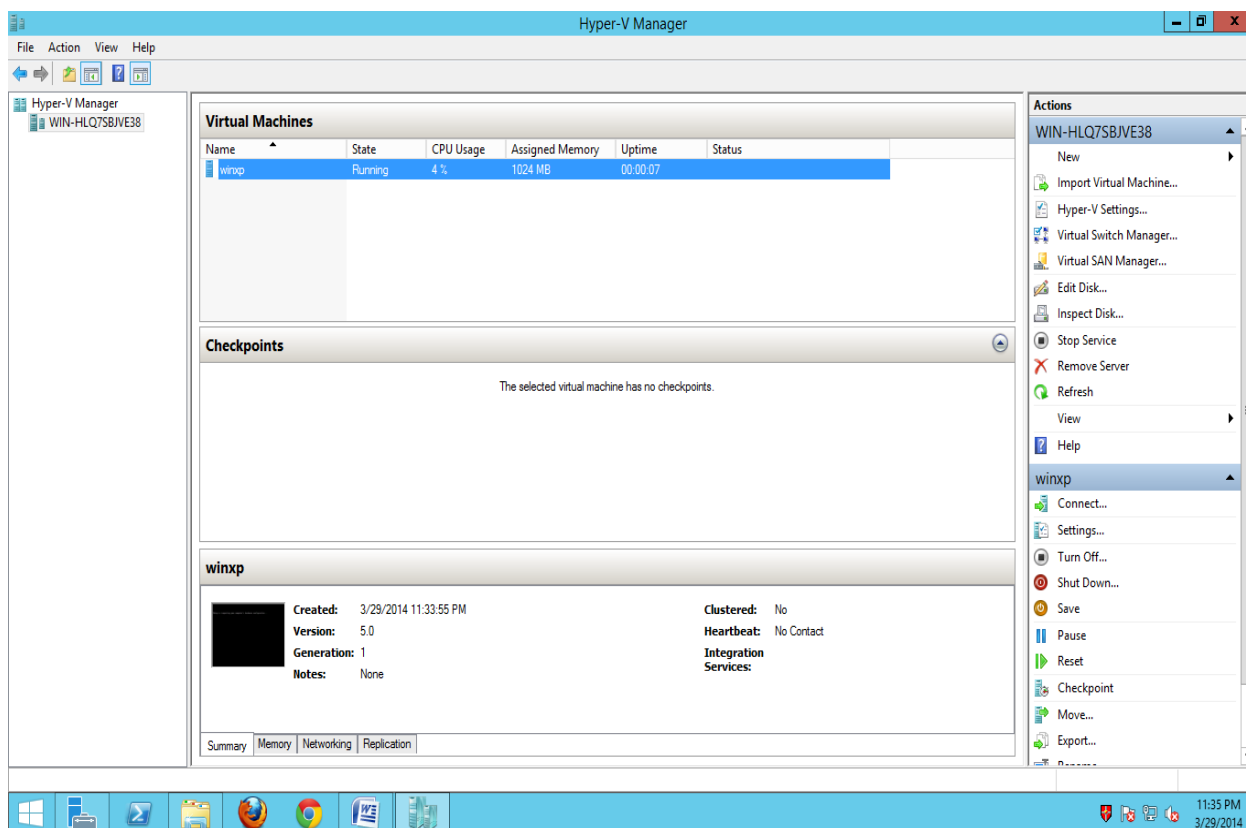
34.



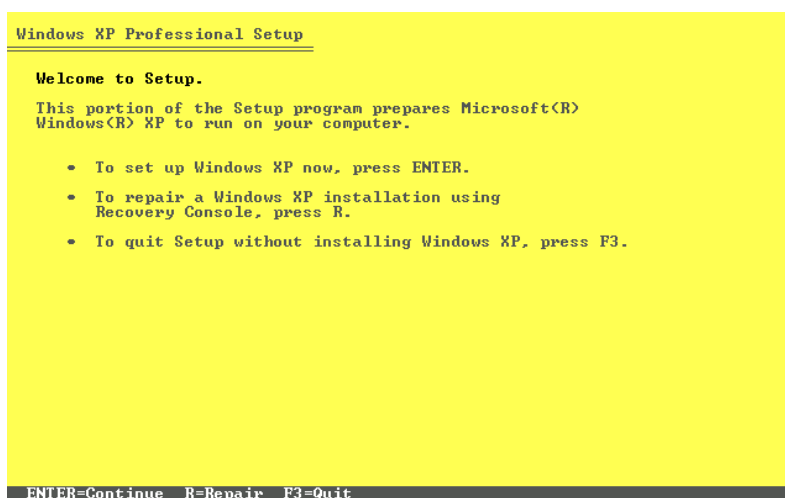
35. Right Click on winxp-> Start



36. Double Click on winxp VM



37. After double click on winxpvms -> the following screen will appear ->



38. Press ENTER

```
Windows XP Licensing Agreement

Microsoft Windows XP Professional
END-USER LICENSE AGREEMENT

IMPORTANT-READ CAREFULLY: This End-User
License Agreement ("EULA") is a legal agreement between you
(either an individual or a single entity) and Microsoft
Corporation for the Microsoft software product identified above,
which includes computer software and may include associated
media, printed materials, "online" or electronic documentation,
and Internet-based services ("Product"). An amendment or
addendum to this EULA may accompany the Product. YOU AGREE TO BE
BOUND BY THE TERMS OF THIS EULA BY
INSTALLING, COPYING, OR OTHERWISE USING THE
PRODUCT. IF YOU DO NOT AGREE, DO NOT INSTALL
OR USE THE PRODUCT; YOU MAY RETURN IT TO YOUR
PLACE OF PURCHASE FOR A FULL REFUND.

1. GRANT OF LICENSE. Microsoft grants you the following rights
provided that you comply with all terms and conditions of
this EULA:

* Installation and use. You may install, use, access,
display and run one copy of the Product on a single
computer, such as a workstation, terminal or other device
("Workstation Computer"). The Product may not be used
by more than two (2) processors at any one time on any

F8=I agree ESC=I do not agree PAGE DOWN=Next Page
```

39. Press F8

```
Windows XP Professional Setup

The following list shows the existing partitions and
unpartitioned space on this computer.

Use the UP and DOWN ARROW keys to select an item in the list.

• To set up Windows XP on the selected item, press ENTER.
• To create a partition in the unpartitioned space, press C.
• To delete the selected partition, press D.

51200 MB Disk 0 at Id 0 on bus 0 on atapi [MBR]
  Unpartitioned space          51199 MB

ENTER=Install C=Create Partition F3=Quit
```

40. Press ENTER key

```
Windows XP Professional Setup

A new partition for Windows XP has been created on
51200 MB Disk 0 at Id 0 on bus 0 on atapi [MBR].
This partition must now be formatted.

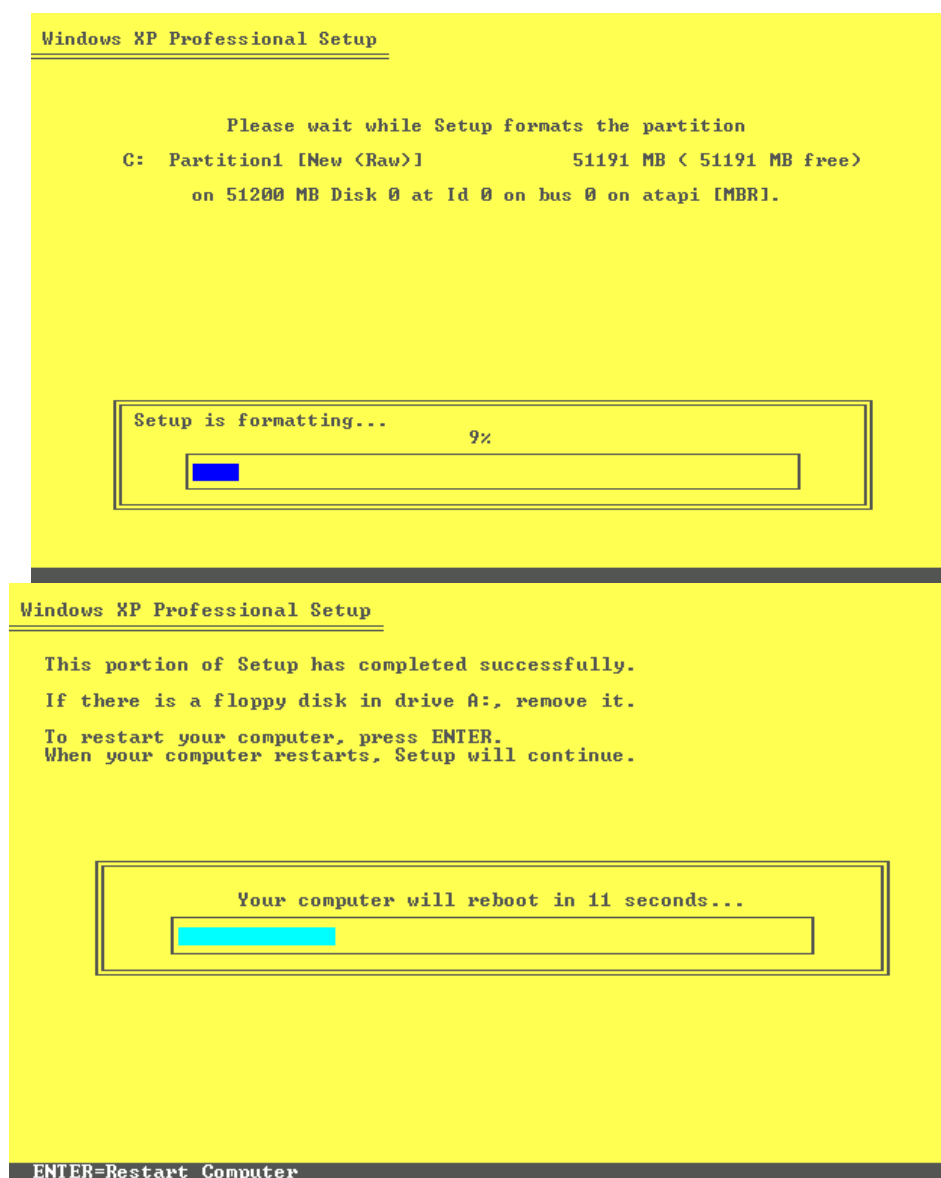
From the list below, select a file system for the new partition.
Use the UP and DOWN ARROW keys to select the file system you want,
and then press ENTER.

If you want to select a different partition for Windows XP,
press ESC.

Format the partition using the NTFS file system (Quick)
Format the partition using the NTFS file system

ENTER=Continue ESC=Cancel
```

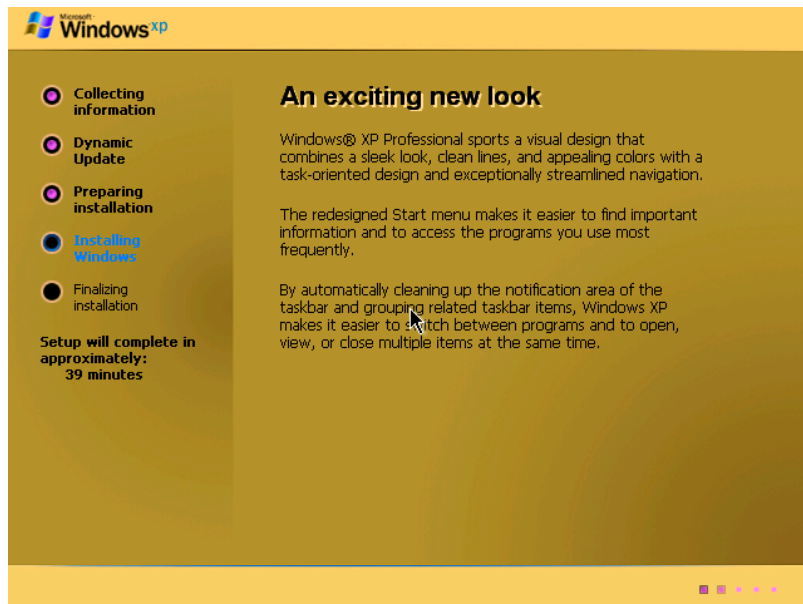

41. Press ENTER for formatting the partition



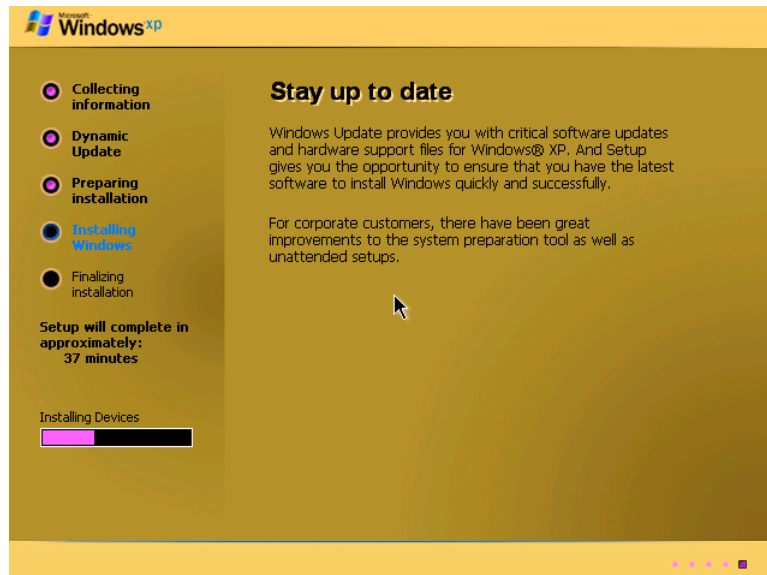
42. Press any key



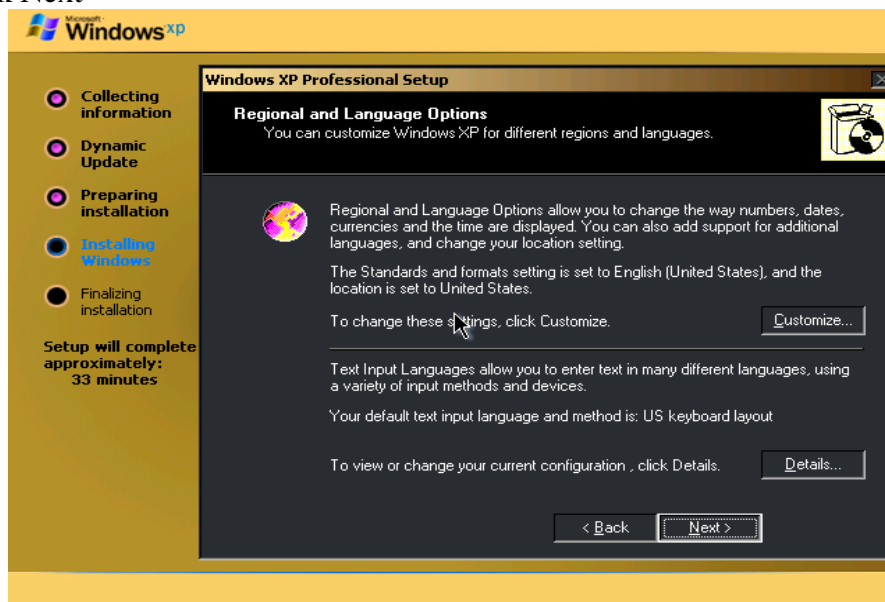
43.



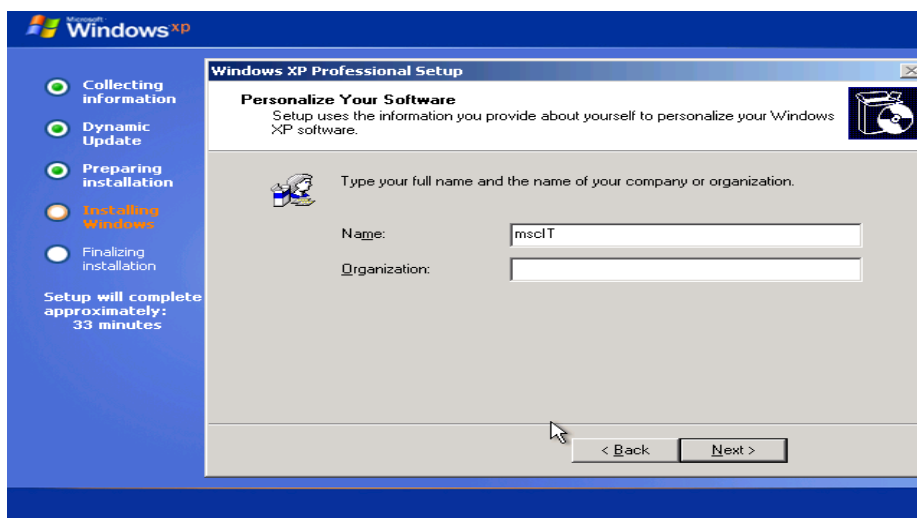
44. Installing Devices



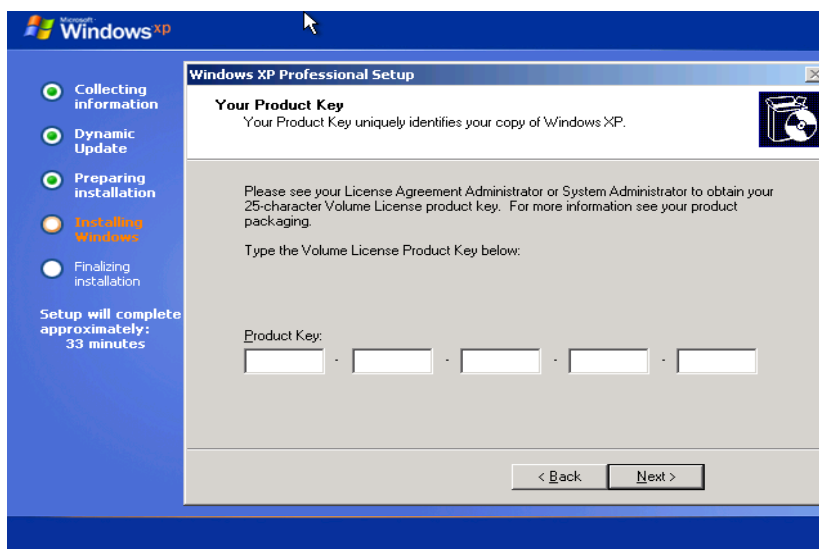
45. Click Next



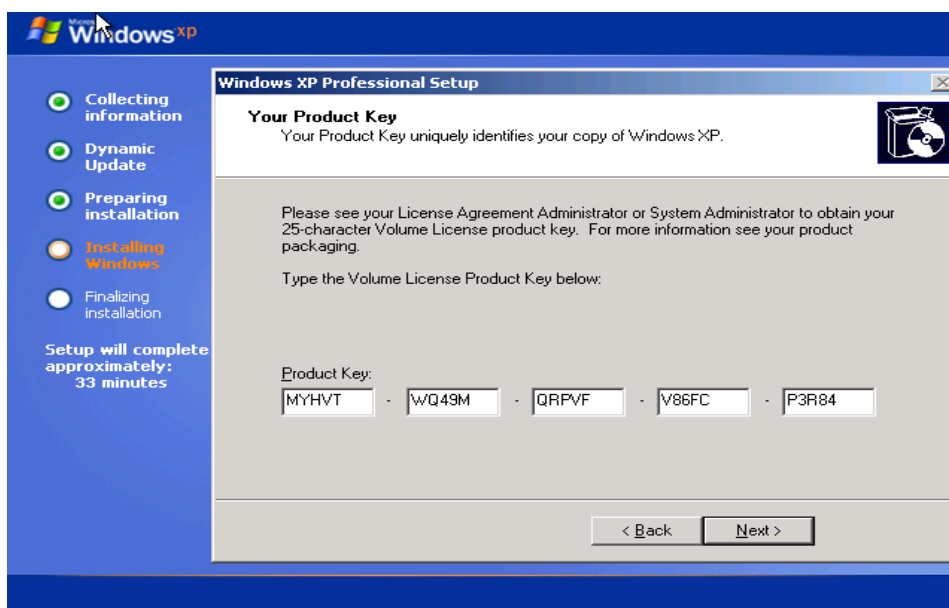
46. Type the Name and Click Next



47.



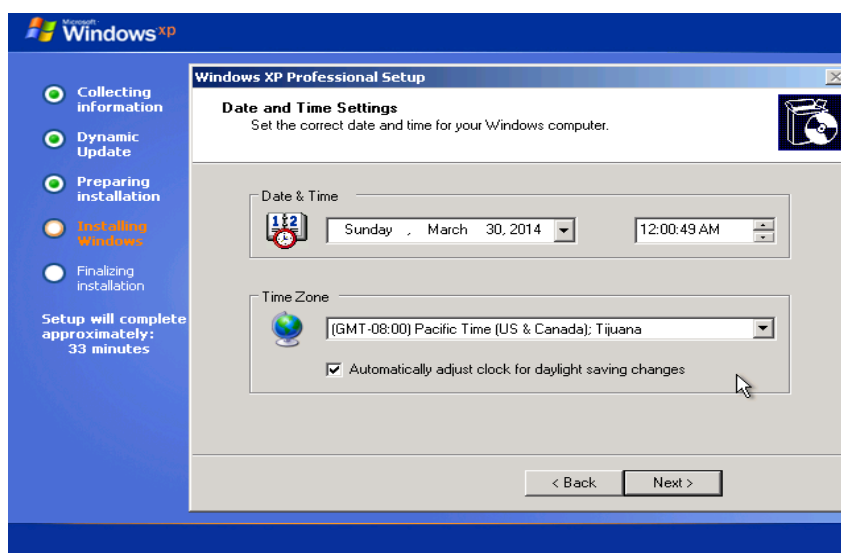
48. Enter product key



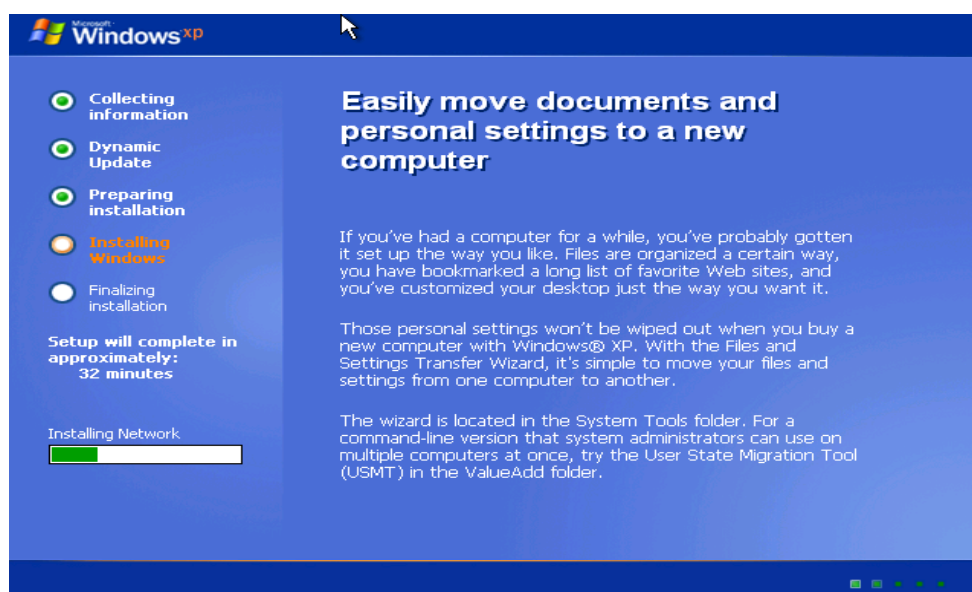
49. Click next and type password



50. Click Next



51. After Click on Next



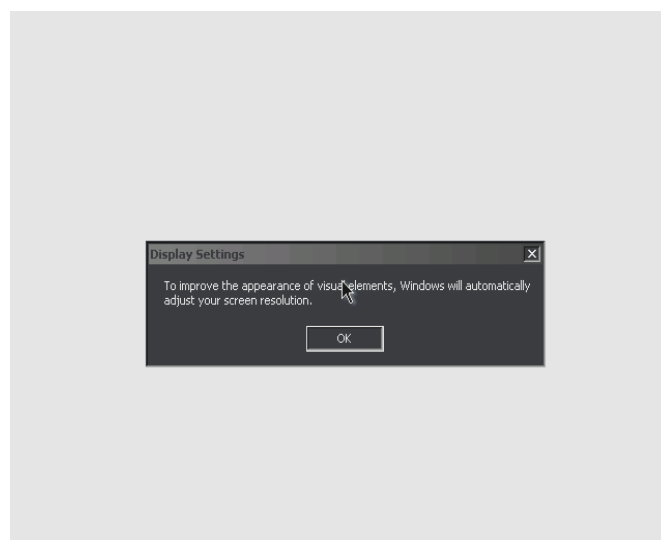
52. Press any Key



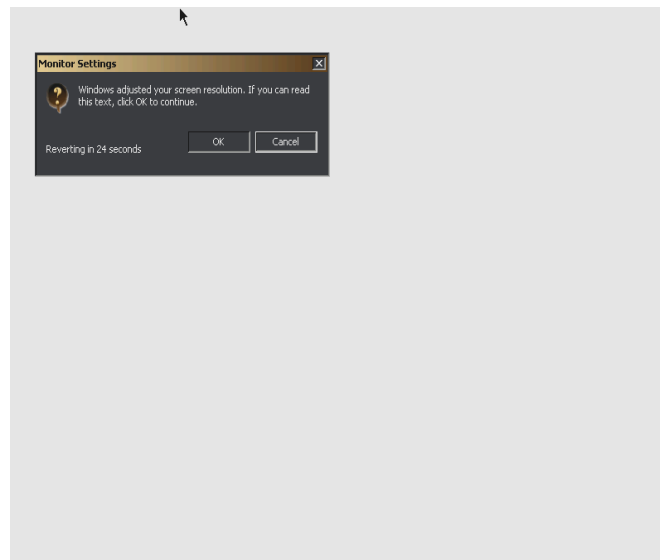
53.



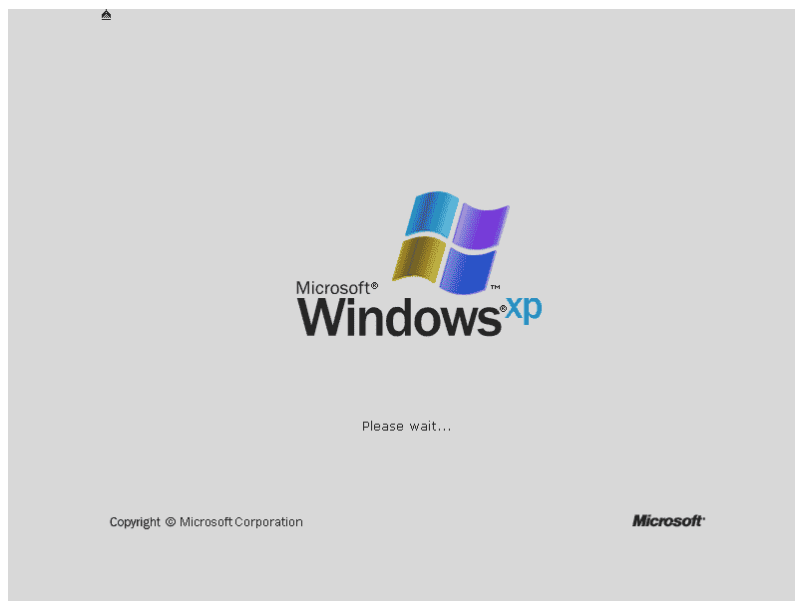
54. Click OK



55. Click OK



56.



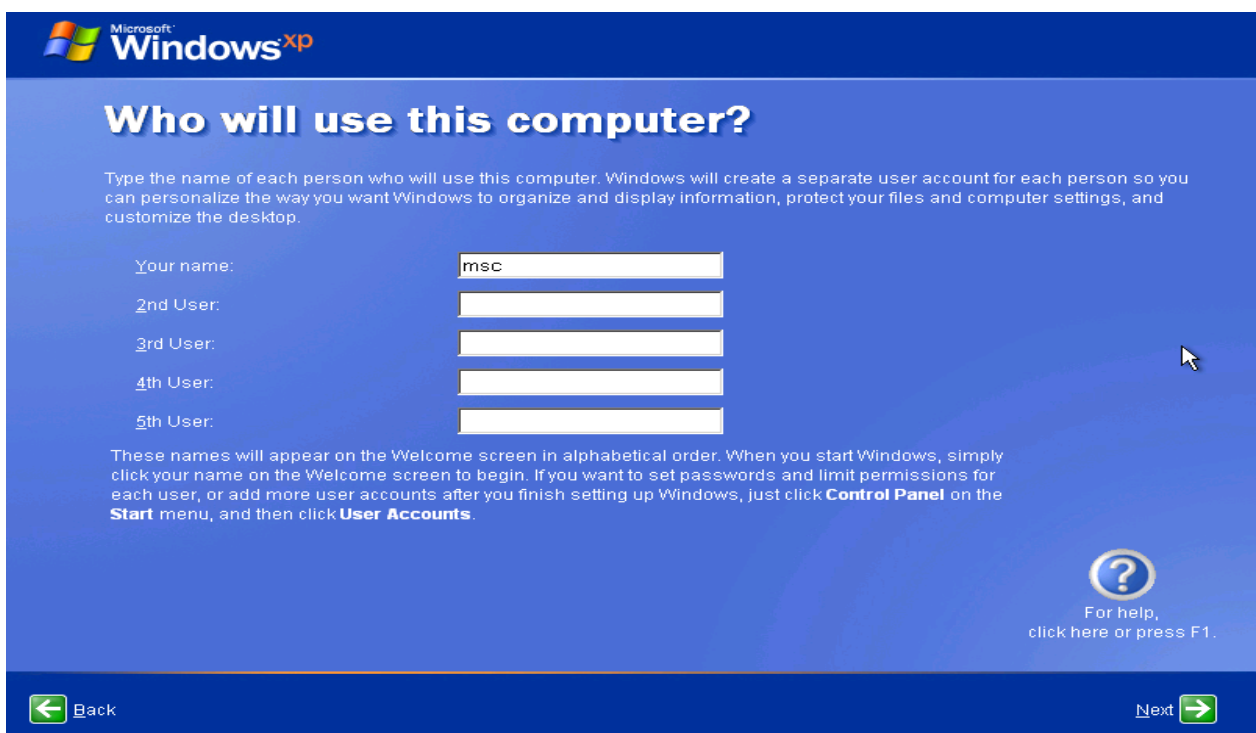
57. Click NEXT Button



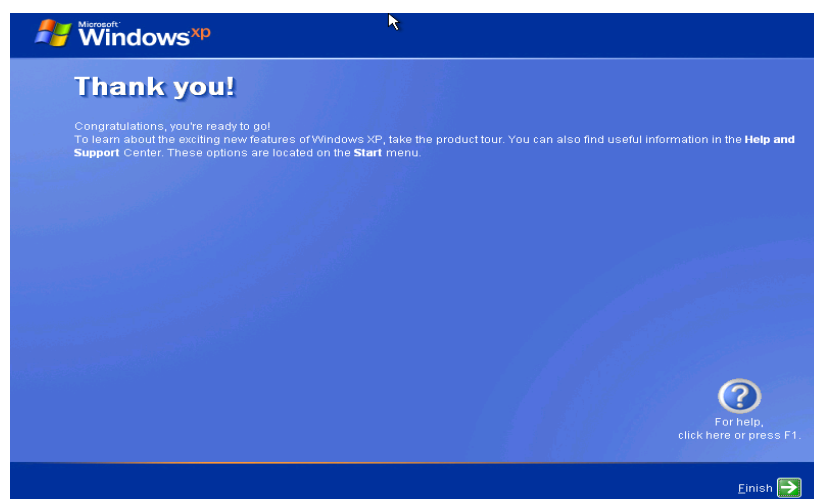
58. Click Next



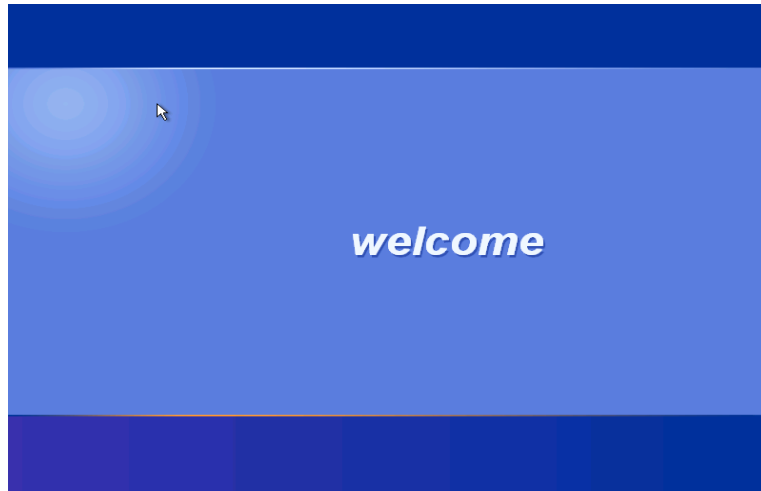
59. Type Your Name and click next



60. Click FINISH



61.



62.



63.



64.

