ITAS 233 LAB 07

Chapter 7

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Introduction

The lab is basically about setting up **Dynamic, fixed and extended virtual disk** on the Hyper-V. We will also learn about the purpose about the different switch such as external, ,private and internal . In this lab, we have to install Linux vm and do the file sharing between the host and Linux. This lab help us to teach us more abut the different switch method connected to the computer as well as how could could we change the configuration of the virtual disk.

Part 2: Working with hyper V

Activity 7-3:Editing a Virtual Disk

Step 1: Do the activity 7-1.

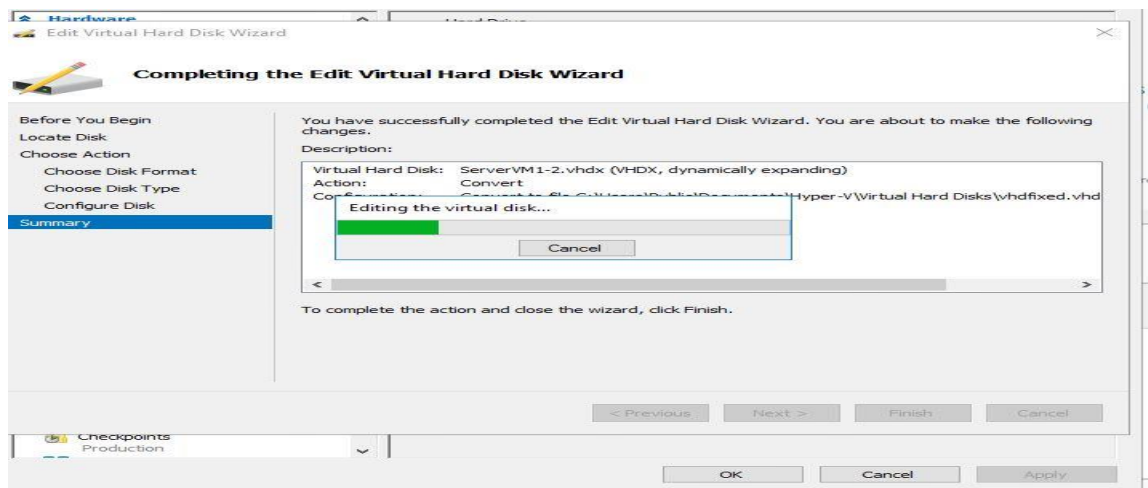Step 2: Covert dynamic disk to the fixed virtual disk, from the vmserver1 Settings

Figure 1: Converting the virtual disk from dynamic to disk

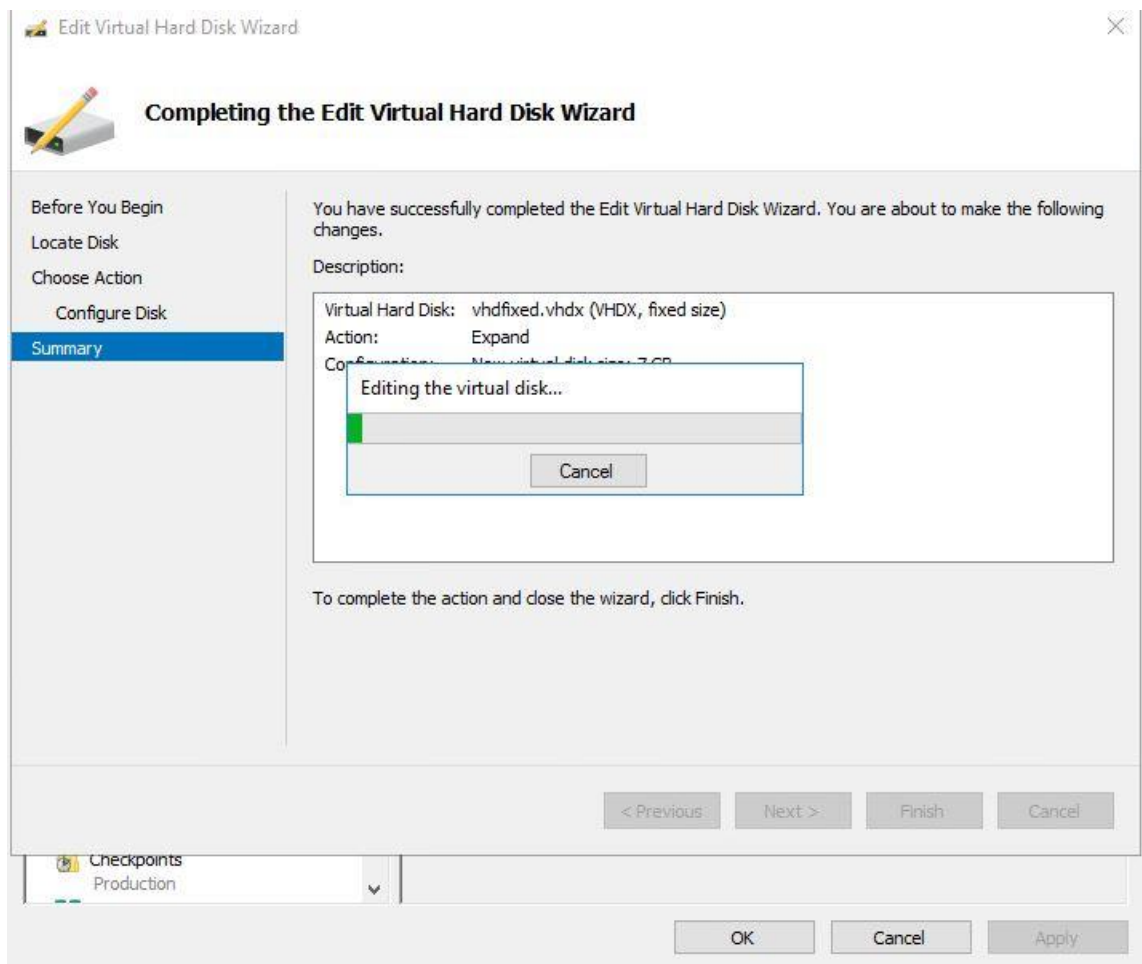Figure 2: Expaning the disk

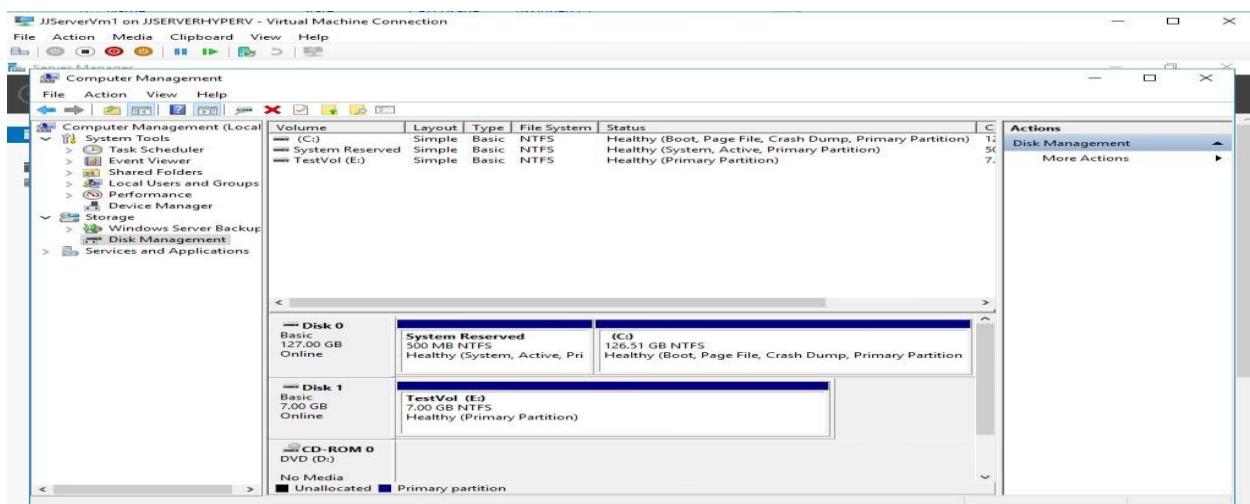Step 3: Extend the fixed drive to the 7GB from the ServerVM1 settings and hardware options.
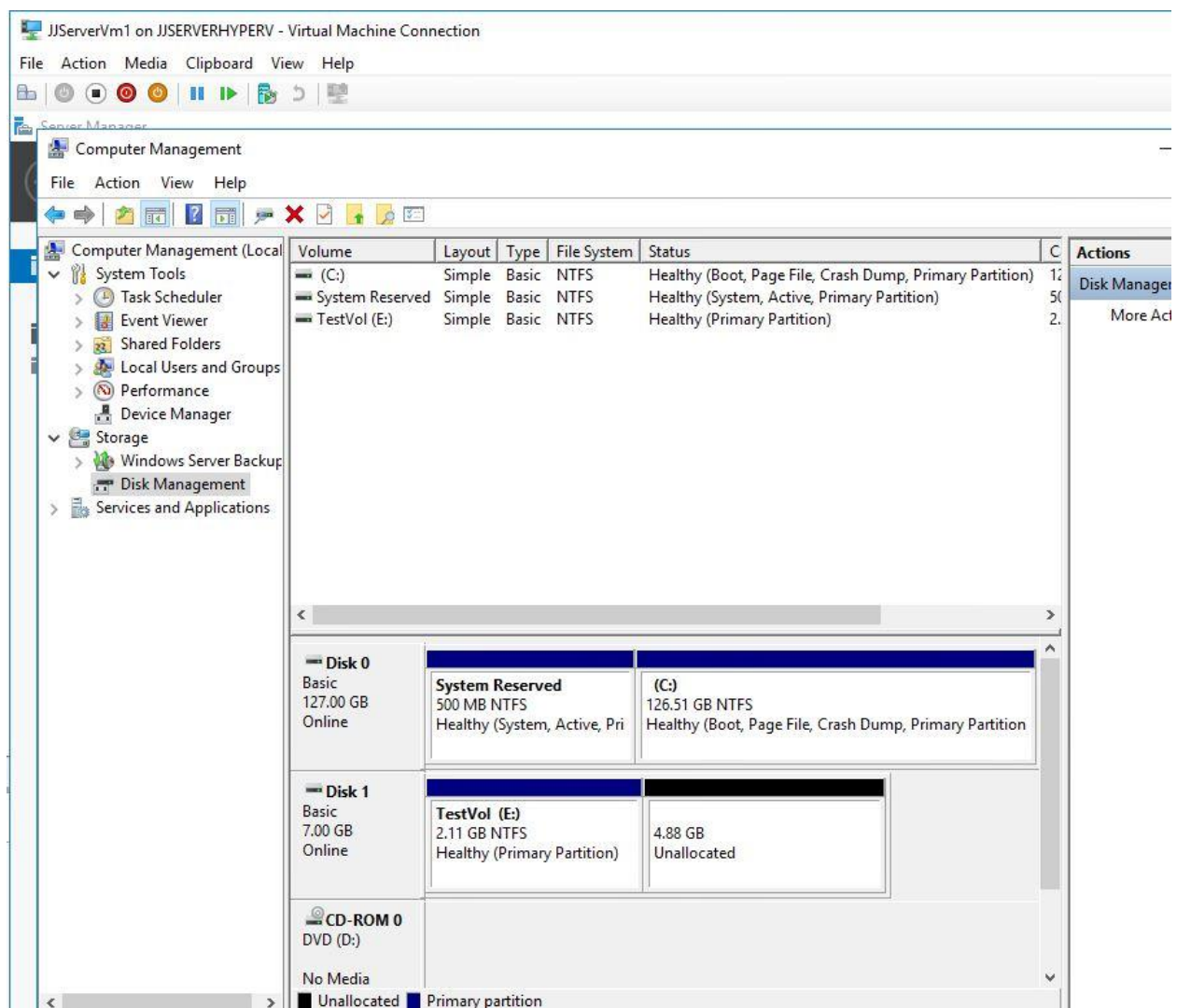

Figure 3: Extended drive to the 7gb

Figure 4: Shrinked Volume

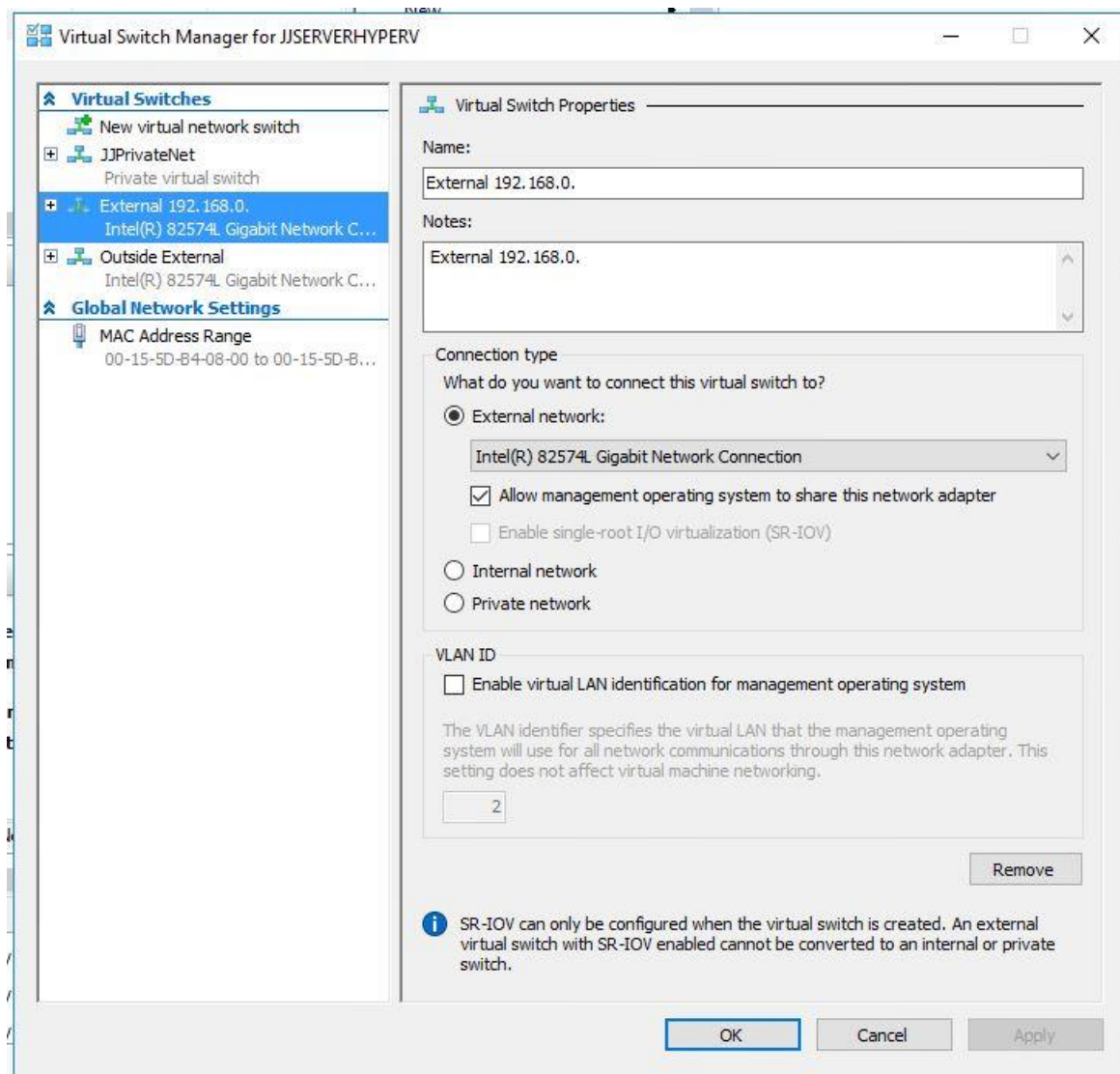## Activity 7-4:Working with External Virtual Switches

Figure 5: External Switch
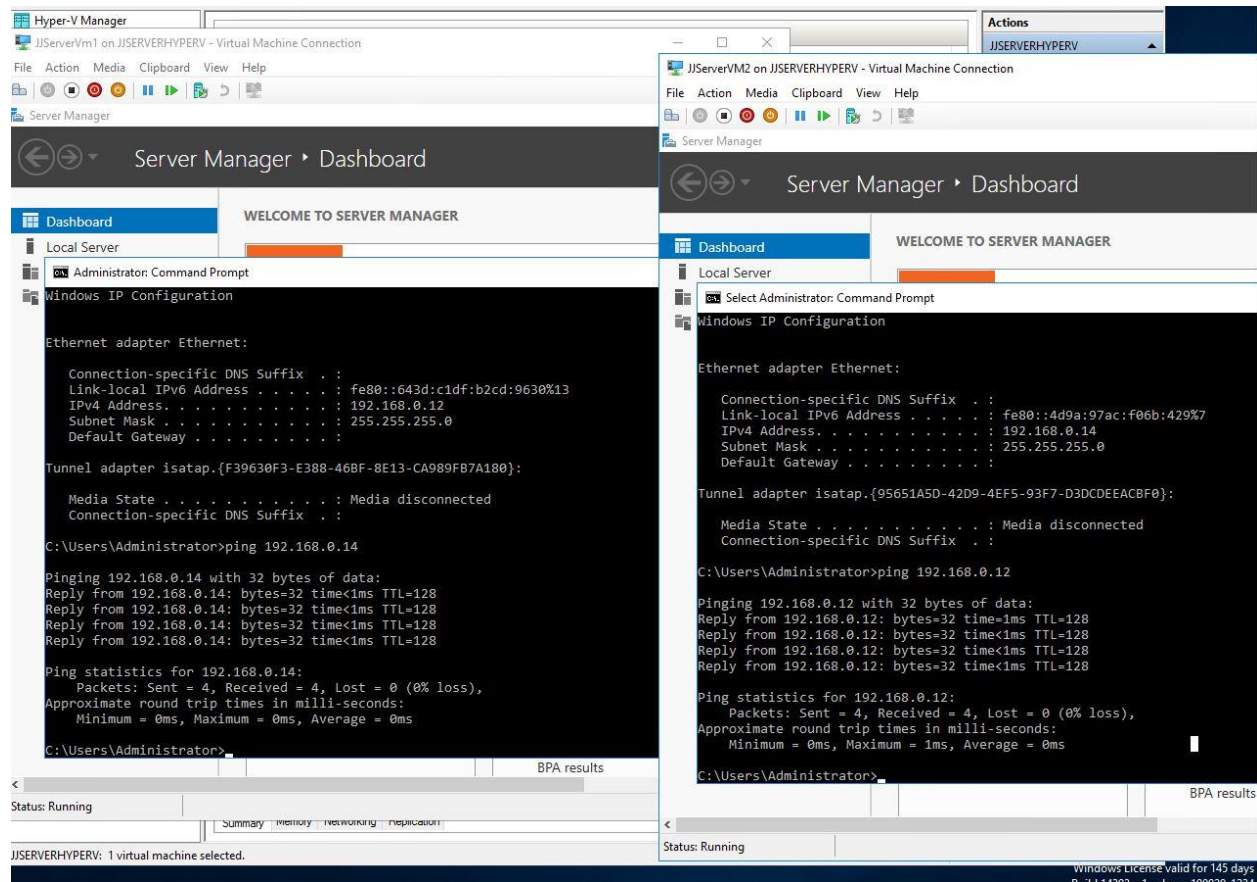
Figure 6: Pinging Each other

Activity 7-5:Working with Internal Virtual Switches

Windows PowerShell

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PS C:\Users\Administrator>

PS C:\Users\Administrator>

PS C:\Users\Administrator> New-VMSwitch InternalNet1 -SwitchType Internal

Name   SwitchType NetAdapterInterfaceDescription

----   ---------- ------------------------------

InternalNet1 Internal

PS C:\Users\Administrator> Connect-VMNetworkAdapter -VMName JJServerVM1 - SwitchNAme InternalNet1

PS C:\Users\Administrator> Get-VMNetworkAdapter -VMName Server*

PS C:\Users\Administrator> Connect-VMNetworkAdapter -VMName JJServerVM2 - SwitchNAme InternalNet1

PS C:\Users\Administrator> New-NetIPAddress -InterfaceAlias "vEthernet (InternalNet1)" -IPAddress 192.168.0.11

IPAddress   : 192.168.0.11

InterfaceIndex   : 41

InterfaceAlias   : vEthernet (InternalNet1)

AddressFamily   : IPv4

Type   : Unicast

PrefixLength   : 32

PrefixOrigin   : Manual

SuffixOrigin   : Manual

AddressState   : Tentative

ValidLifetime   : Infinite ([TimeSpan]::MaxValue)

PreferredLifetime : Infinite ([TimeSpan]::MaxValue)

SkipAsSource   : False

PolicyStore   : ActiveStore

IPAddress   : 192.168.0.11

InterfaceIndex   : 41

InterfaceAlias   : vEthernet (InternalNet1)

AddressFamily   : IPv4

Type   : Unicast

PrefixLength   : 32

PrefixOrigin   : Manual

SuffixOrigin   : Manual

AddressState   : Invalid

ValidLifetime   : Infinite ([TimeSpan]::MaxValue)

PreferredLifetime : Infinite ([TimeSpan]::MaxValue)

SkipAsSource   : False

PolicyStore   : PersistentStore

PS C:\Users\Administrator> Set-NetIPAddress -InterfaceAlias "vEthernet (InternalNet1)" -IPAddress 192.168.0.11

PS C:\Users\Administrator> route add 192.168.0.0 mask 255.255.255.0 192.168.0.11

 OK!

PS C:\Users\Administrator> route delete 192.168.0.0 mask 255.255.255.0 192.168.0.11

The route deletion failed: Element not found.

PS   C:\Users\Administrator>   Connect-VMNetworkAdapter   -VMName   JJServerVM1, JJServerVM2 -SwitchName JJPrivateNet

PS C:\Users\Administrator> remove -VMSwitch InternalNet1

PS C:\Users\Administrator> remove-VMSwitch InternalNet1

Confirm

Are you sure you want to remove the virtual switch "InternalNet1"?

[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help (default is "Y"): y

PS C:\Users\Administrator> "

PART 2: File Sharing Connecting eith the Centos 7

Step 1: Installed the MobaXterm in the Server Hyper-V

Step 2: Installed the Centos 7 in the Hyper-V

Step 3: Assigned the static IP Address for the nic in the centos 7.

Step 4: SSH to the Centos 7 using the Mobaxterm

Step 5: Share file using the stp protocol in the MobaXterm.
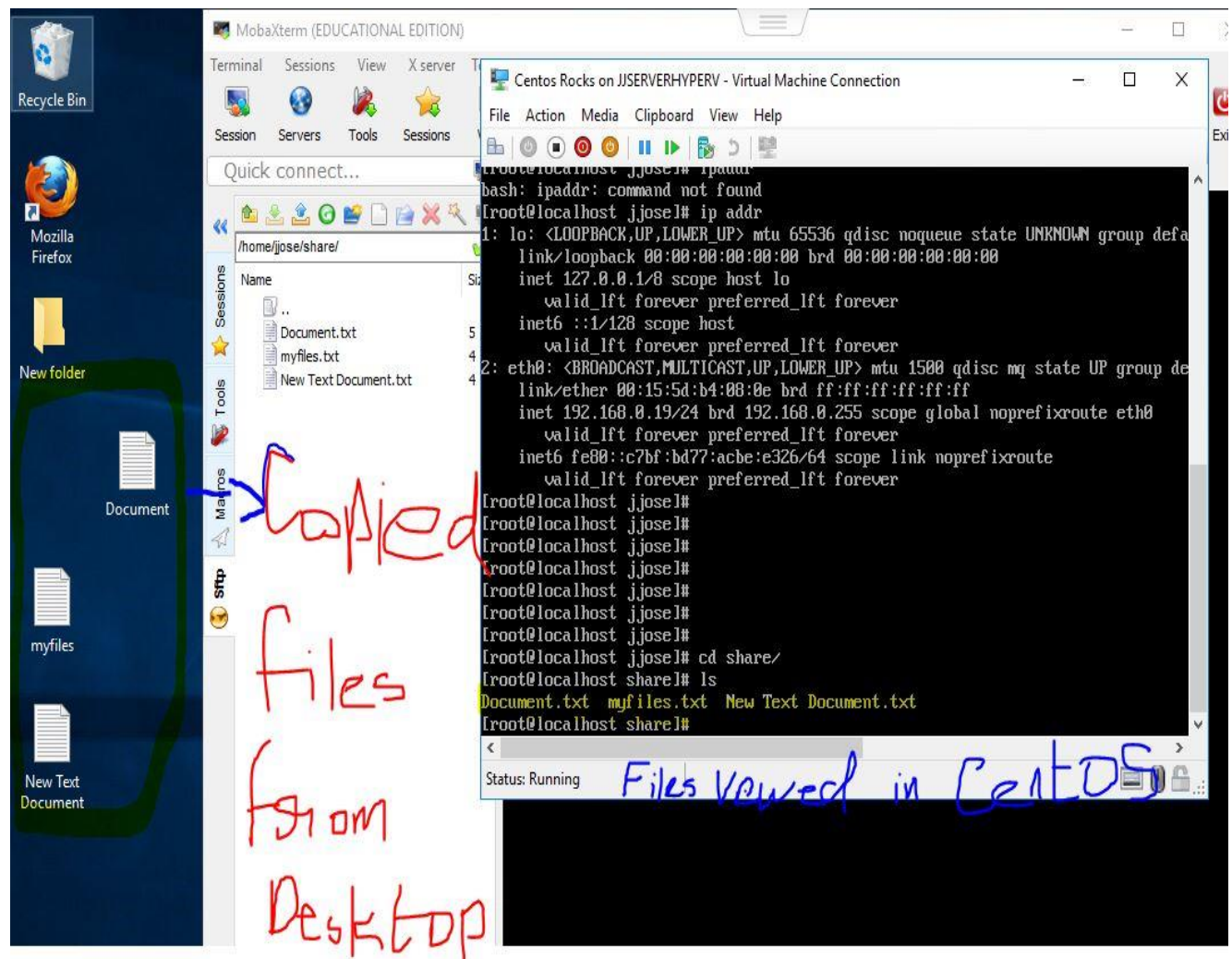

Figure 7: File Sharing Using The MobaXterm

<u>Conclusion</u>

This lab helped me to know more about using virtual disk inside the hyper-V. We created internal and external switch in the vmware. We connected the both switch with the server DM1 and Server DM2. We not only learned how to make dynamic virtual disk but also learned how to convert the dynamic virtual disk to the fixed disk. We also learned how to extend the drive using the hyper-V manager.