**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

![A screenshot of a social media post

Description generated with very high confidence]()

Figure : Converting the virtual disk from dynamic to disk

![A screenshot of a cell phone

Description generated with very high confidence]()

Figure : Expaning the disk

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

![A screenshot of a cell phone

Description generated with very high confidence]()

Figure : Extended drive to the 7gb

![A screenshot of a cell phone

Description generated with very high confidence]()

Figure : Shrinked Volume

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

**![A screenshot of a cell phone

Description generated with very high confidence]()**

Figure : External Switch

![A screenshot of a social media post

Description generated with very high confidence]()

Figure : 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

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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> "

**Conclusion**

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.