ITAS 233 LAB 06

Chapter 6

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Table of Contents

INTRODUCTION **3**

PART 2: GUI Storage Spaces 3

Activity 6-2 3

Activity 6-3 4

Activity 6-4 5

Activity 6-5 5

Activity 6-6 6

CONCLUSION 11

Introduction

The lab is basically about setting up **ServerVM1, InstallCore and ServerVM2** on the Hyper-v. We need to install server 2016 Desktop version on both server vm1 and serverVM2. However, we have to install the server core version on the install core vm. This lab also teaches us about making vm using the powershell, checkpoints in the hyper-v and accessing a hyper drive in the vm. This lab also teach us about making a PS session towards the serverVM1 and ServerVM2 using the poweshell of the **hyper-V**.

Part 2: Working with hyper V

Activity 6-2:Making a VMTest1 using powershell

Make a new vm with name VMtest1

Command used:

PS C:\Users\Administrator> New-VM VMTest1 -MemoryStartupBytes 1GB -NewVHDPath c:\VMs\VMTest1\VMTest1.vhdx -NewVHDSizeBytes 40GB

Connect the network adapter into this vm:

Connect-VMNetworkAdapter VMTest1 -Name "Network Adapter" -SwitchName JJPrivateNet

Link the dvd drive into the ios:

Set-VMDvdDrive VMTest1 -Path C:\iso\Windows_Server_2016_Datacenter_EVAL_en-us_14393_refresh.ISO

View the details of the VMtest1

Get-VM VMTEst1

Get-VM VMTEst1 | fl * // To get more details

Command to start the vmare which are turned

Get-VM | Where-Object {$_.State -eq “Off”} | Start-VM

Force turn of the vmware

Get-VM | Where-Object {$_.State -eq “running”} | Stop-VM

Removing Vmtest1 and vhdx

Remove-VM VMTest1 -Force

del C:\VMs\VMTest1\VMTest1.vhdx

Activity 6-3:Successful Checkpoint Production

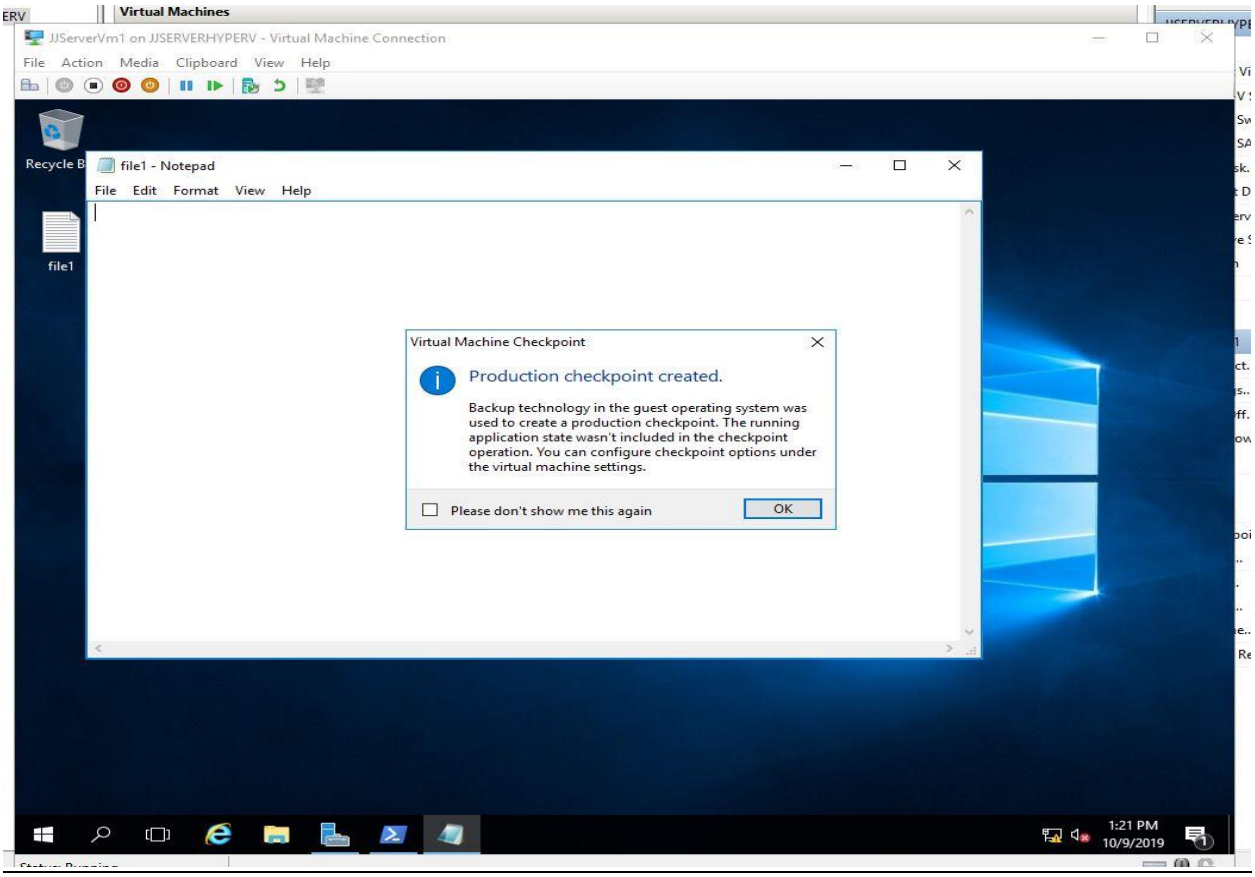

Figure 1: Screen shot of the successful production

Checkpoints are also like the snapshot in the vmware. We are able to make the snapshot in the hyper-v from the **action** toolbar in the vm screen.

Activity 6-4:Exporting InstallCore to the exports folder

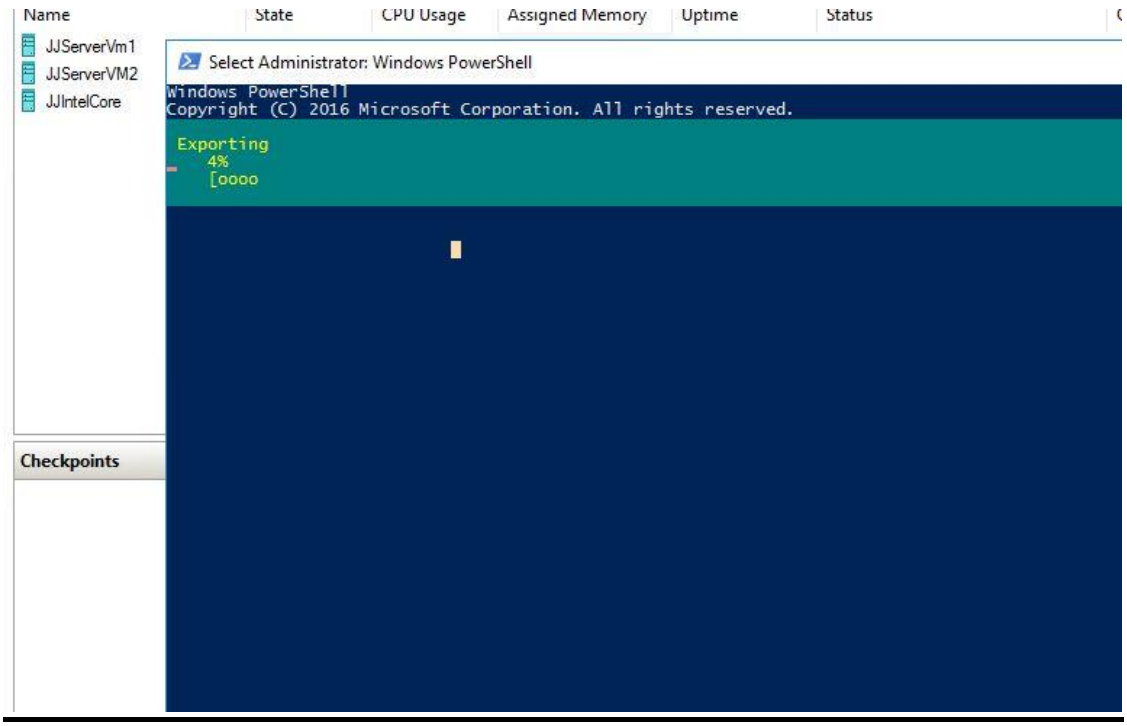

Figure 2: Exporting the install core on to the exports folder in the c drive

Exporting and importing the vm helps us to make a duplicate version of the vm. This also helps us to make a similar vm with the same features with the different name.

Activity 6-5:Drive Share to the Servervm1

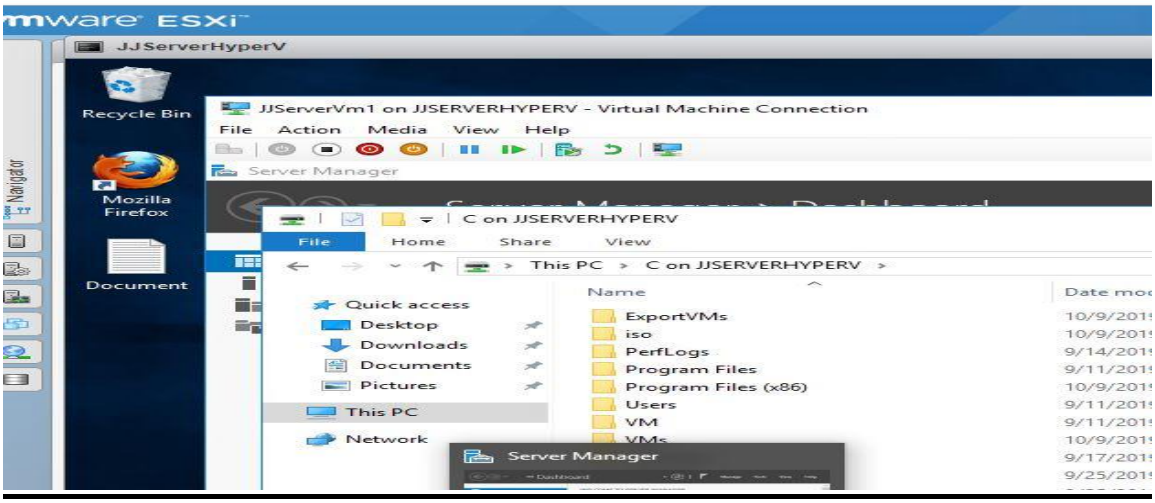

Figure 3: Accessing C drive of the hyper v in the server dm1

Enhanced mode in the **hyper-v settings** help us access the drive of the **Hyper V .** If the enhance mode is turned on, when we turn on the s**ervervm1 .** it ask for the things that need to be shared.

Activity 6-6:PSsession to the Servervm1 from hyperV

Power shell output screen after typing all the commands in the activity 6.6.

This commands below are the commands that are required to start the vm of the hypervisor using the power shell. This commands also teach us about a start a powershell session from the powershell of the hypervisor. It also make us aware us how to shutown the vm from the powershell.

Windows PowerShell

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PS C:\Users\Administrator> Set-VMHost -EnableEnhancedSessionMode $false

PS C:\Users\Administrator> Start-VM JJServerVm1

PS C:\Users\Administrator> Get-VM JJServerVM1

Name	State	CPUUsage(%)	MemoryAssigned(M)	Uptime	Status	Version
----	-----	----------	----------	------	------	-------

JJServerVm1 Running 1 1024 00:00:33.0930000 Operating normally 8

PS C:\Users\Administrator> Enter-PSSession -VMNAme JJServerVM1

cmdlet Enter-PSSession at command pipeline position 1

Supply values for the following parameters:

Credential

Enter-PSSession : The credential is invalid.

At line:1 char:1

+ Enter-PSSession -VMNAme JJServerVM1

+ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

+ CategoryInfo : InvalidArgument: (:) [Enter-PSSession], PSDirectException

+ FullyQualifiedErrorId : CreateRemoteRunspaceForVMFailed,Microsoft.PowerShell.Commands.EnterPSSessionCommand

PS C:\Users\Administrator> Enter-PSSession -VMNAme JJServerVM1

cmdlet Enter-PSSession at command pipeline position 1

Supply values for the following parameters:

Credential

[JJServerVm1]: PS C:\Users\Administrator\Documents>

[JJServerVm1]: PS C:\Users\Administrator\Documents> Get-Disk

Number Friendly Name Serial Number HealthStatus OperationalStatus Total Size Partiti

Style

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

0 Virtual HD Healthy Online 127 GB MBR

[JJServerVm1]: PS C:\Users\Administrator\Documents> Get-NetIPAddress

IPAddress : fe80::643d:c1df:b2cd:9630%13

InterfaceIndex : 13

InterfaceAlias : Ethernet

AddressFamily : IPv6

Type : Unicast

PrefixLength : 64

PrefixOrigin : WellKnown

SuffixOrigin : Link

AddressState : Preferred

ValidLifetime : Infinite ([TimeSpan]::MaxValue)

PreferredLifetime : Infinite ([TimeSpan]::MaxValue)

SkipAsSource : False

PolicyStore : ActiveStore

IPAddress : fe80::5efe:192.168.0.12%8

InterfaceIndex : 8

InterfaceAlias : isatap.{F39630F3-E388-46BF-8E13-CA989FB7A180}

AddressFamily : IPv6

Type : Unicast

PrefixLength : 128

PrefixOrigin : WellKnown

SuffixOrigin : Link

AddressState : Deprecated

ValidLifetime : Infinite ([TimeSpan]::MaxValue)

PreferredLifetime : Infinite ([TimeSpan]::MaxValue)

SkipAsSource : False

PolicyStore : ActiveStore

IPAddress : ::1

InterfaceIndex : 1

InterfaceAlias : Loopback Pseudo-Interface 1

AddressFamily : IPv6

Type : Unicast

PrefixLength : 128

PrefixOrigin : WellKnown

SuffixOrigin : WellKnown

AddressState : Preferred

ValidLifetime : Infinite ([TimeSpan]::MaxValue)

PreferredLifetime : Infinite ([TimeSpan]::MaxValue)

SkipAsSource : False

PolicyStore : ActiveStore

IPAddress : 192.168.0.12

InterfaceIndex : 13

InterfaceAlias : Ethernet

AddressFamily : IPv4

Type : Unicast

PrefixLength : 24

PrefixOrigin : Manual

SuffixOrigin : Manual

AddressState : Preferred

ValidLifetime : Infinite ([TimeSpan]::MaxValue)

PreferredLifetime : Infinite ([TimeSpan]::MaxValue)

SkipAsSource : False

PolicyStore : ActiveStore

IPAddress : 127.0.0.1

InterfaceIndex : 1

InterfaceAlias : Loopback Pseudo-Interface 1

AddressFamily : IPv4

Type : Unicast

PrefixLength : 8

PrefixOrigin : WellKnown

SuffixOrigin : WellKnown

AddressState : Preferred

ValidLifetime : Infinite ([TimeSpan]::MaxValue)

PreferredLifetime : Infinite ([TimeSpan]::MaxValue)

SkipAsSource : False

PolicyStore : ActiveStore

[JJServerVm1]: PS C:\Users\Administrator\Documents> Stop-Computer

Stop-Computer : Privilege not held.

+ CategoryInfo : InvalidOperation: (WIN-HAKP20CJRE4:String) [Stop-Computer], ManagementException

+ FullyQualifiedErrorId : StopComputerException,Microsoft.PowerShell.Commands.StopComputerCommand

[JJServerVm1]: PS C:\Users\Administrator\Documents> shutdown /s /t 0

[JJServerVm1]: PS C:\Users\Administrator\Documents>

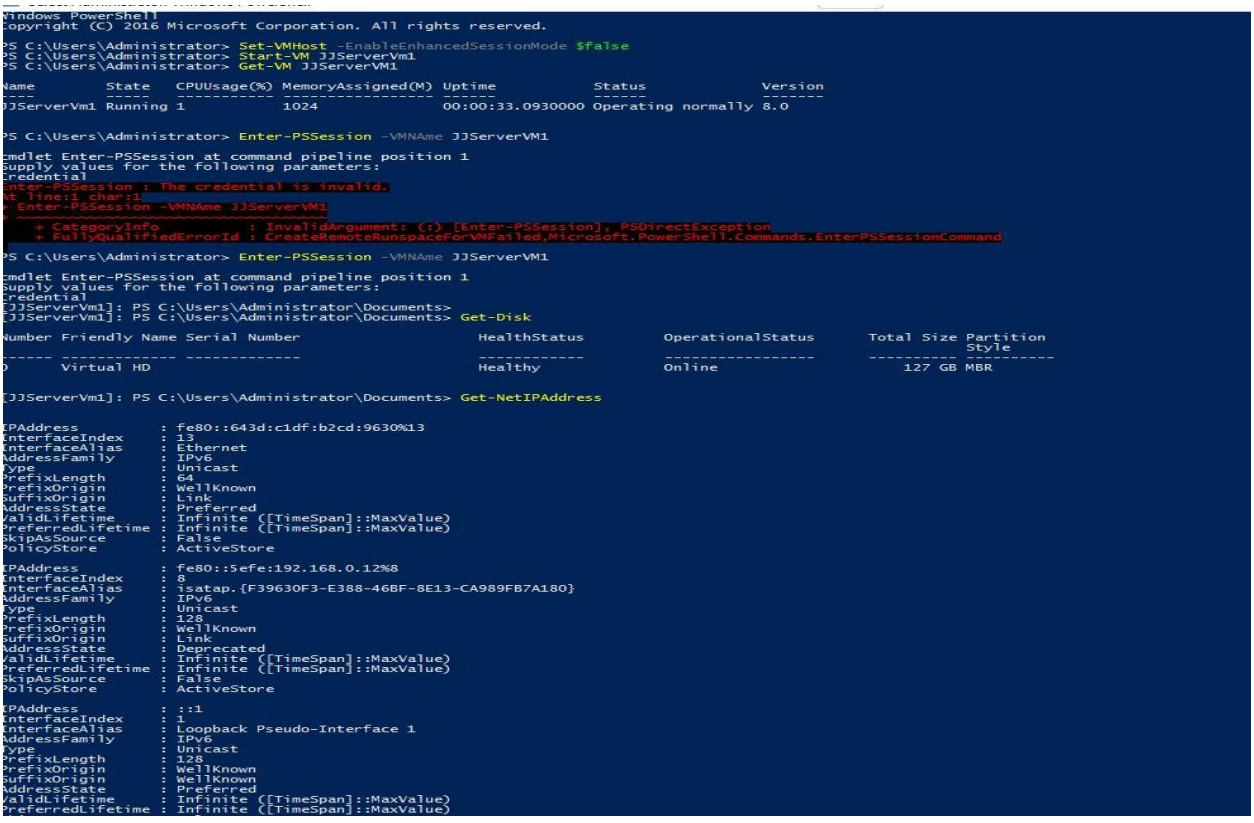

Figure 4: Screenshot of the powershell activity 6.6

Conclusion

This lab helped me to know more about using vm on the hyper-v . We created serverVM1, ServerVM2 and InstallCore using this lab in the hyper-v. We also created a vm named VMTest1 using the power shell in the hyper-v. We not only learned how to make vm using the powershell,but also learned to make checkpoints, PS session using the powershell and access hyper v drive using the EnhancedSessionMode in the Hyper-v Settings.