ITAS141 Lab 7- Ethan Holmes

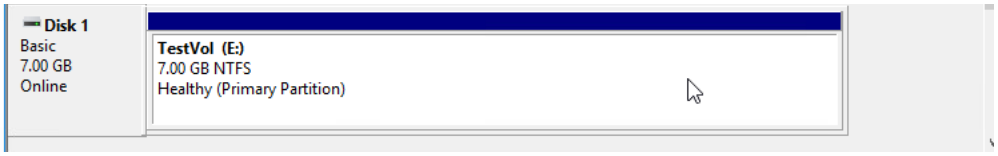


*Figure 1: 7GB TestVol*

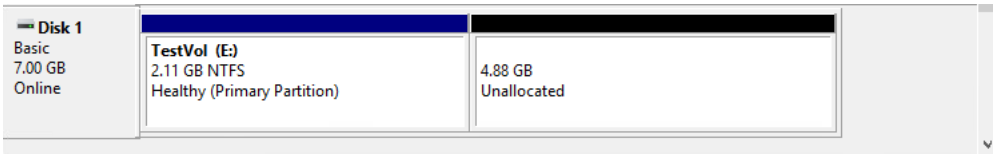


*Figure 2: Shrunk the Volume*

```
C:\Windows\system32>ping 192.168.0.111

Pinging 192.168.0.111 with 32 bytes of data:
Reply from 192.168.0.111: bytes=32 time=3ms TTL=128
Reply from 192.168.0.111: bytes=32 time=2ms TTL=128
Reply from 192.168.0.111: bytes=32 time=3ms TTL=128
Reply from 192.168.0.111: bytes=32 time=22ms TTL=128

Ping statistics for 192.168.0.111:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 22ms, Average = 7ms
```

*Figure 3: Ping of ServerVM1 to InstallDE*

```
Pinging 192.168.0.100 with 32 bytes of data:
Reply from 192.168.0.100: bytes=32 time=4ms TTL=128
Reply from 192.168.0.100: bytes=32 time=1ms TTL=128
Reply from 192.168.0.100: bytes=32 time<1ms TTL=128
Reply from 192.168.0.100: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.0.100:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 4ms, Average = 1ms
```

*Figure 4: InstallDE to ServerVM1*

```
PS C:\Windows\system32> New-VMSwitch InternalNet1 -SwitchType Internal

Name          SwitchType NetAdapterInterfaceDescription
----          ---------- ------------------------------
InternalNet1 Internal
```

*Figure 5: Creating the Switch with Powershell*

```
PS C:\Windows\system32> Get-NetAdapter

Name                      InterfaceDescription                    ifIndex Status       MacAddress             LinkSpeed
----                      --------------------                    ------- ------       ----------             ---------
vEthernet (InternalNet1)  Hyper-V Virtual Ethernet Adapter #3          42 Up           00-15-5D-08-1D-05       10 Gbps
```

*Figure 6: Get-NetAdapter command*

```
PS C:\Windows\system32> Connect-VMNetworkAdapter -VMName ServerVM1 -SwitchName InternalNet1
PS C:\Windows\system32> Get-VMNetworkAdapter -VMName Server*

Name            IsManagementOs VMName    SwitchName          MacAddress   Status             IPAddresses
----            -------------- ------    ----------          ----------   ------             -----------
Network Adapter False          ServerVM2 External-192.168.0 00155D081D03 {LostCommunication} {}
Network Adapter False          ServerVM1 InternalNet1       00155D081D02 {Ok}                {192.168.0.100, fe80::4...
```

*Figure 7: Connecting the Network Adapter to the machine*

```
PS C:\Windows\system32> Connect-VMNetworkAdapter -VMName InstallDE -SwitchName InternalNet1
```

*Figure 8: Installing to InstallDE since that was the second machine I used*

```
PS C:\Windows\system32> New-NetIPaddress

cmdlet New-NetIPAddress at command pipeline position 1
Supply values for the following parameters:
IPAddress: 192.168.0.10
InterfaceAlias: vEthernet (InternalNet1)
```

*Figure 9: Creating the IP Address*

```
PS C:\Windows\system32> Set-NetIPaddress -InterfaceAlias "vEthernet (InternalNet1)" -IPAddress 192.168.0.10
```

*Figure 10: Setting the IP on the NIC*

```
PS C:\Windows\system32> route add 192.168.0.0 mask 255.255.255.0 192.168.8.10
 OK!
```

```
Pinging 192.168.0.10 with 32 bytes of data:
Reply from 192.168.0.10: bytes=32 time<1ms TTL=128
Reply from 192.168.0.10: bytes=32 time<1ms TTL=128
Reply from 192.168.0.10: bytes=32 time<1ms TTL=128
Reply from 192.168.0.10: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.0.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
PS C:\Windows\system32>
```

*Figure 11: Ping to the IP Address*

```
PS C:\Windows\system32> route delete 192.168.0.0 mask 255.255.255.0 192.168.0.10
The route deletion failed: Element not found.

PS C:\Windows\system32> route delete 192.168.0.0 192.168.0.10
The route deletion failed: Element not found.

PS C:\Windows\system32> route delete 192.168.0.0
 OK!
PS C:\Windows\system32>
```

*Figure 12: delete route, different from what the textbook supplied*

```
PS C:\Windows\system32> Connect-VMNetworkAdapter -VMName InstallDE -SwitchName PrivateNet
PS C:\Windows\system32> 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:\Windows\system32> Remove-VMSwitch External-192.168.0

Confirm
Are you sure you want to remove the virtual switch "External-192.168.0"?
[Y] Yes  [A] Yes to All  [N] No  [L] No to All  [S] Suspend  [?] Help (default is "Y"): y
PS C:\Windows\system32>
```

*Figure 13: Deleting the Virtual Switches*