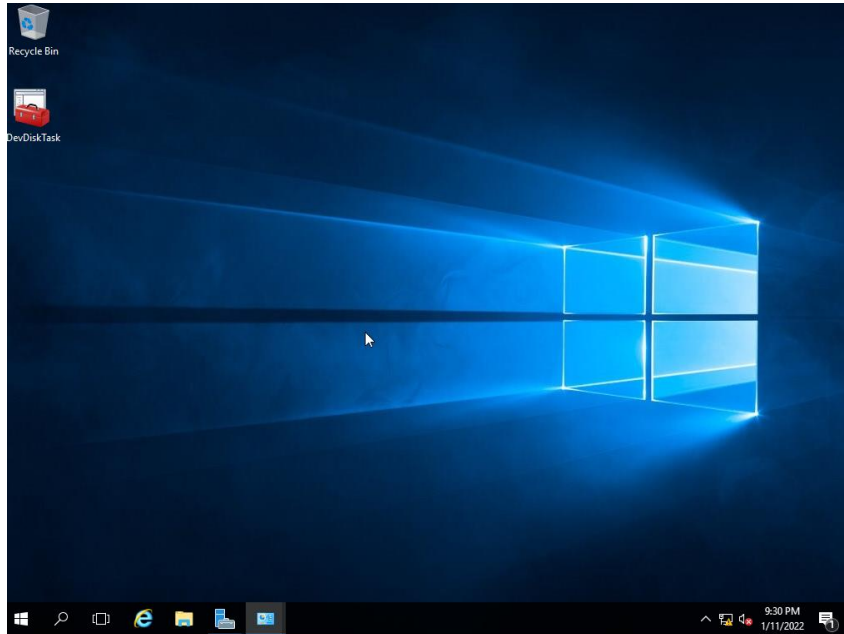ITAS 141 LAB 1
Part A)

Step 1-1: Resetting Virtual Machine from Snapshot

Figure 1: Windows server 2016 after restoring snapshot

This comes directly after completing my later steps, all previous settings saved in this snapshot

Step 1-2: Reviewing System Properties

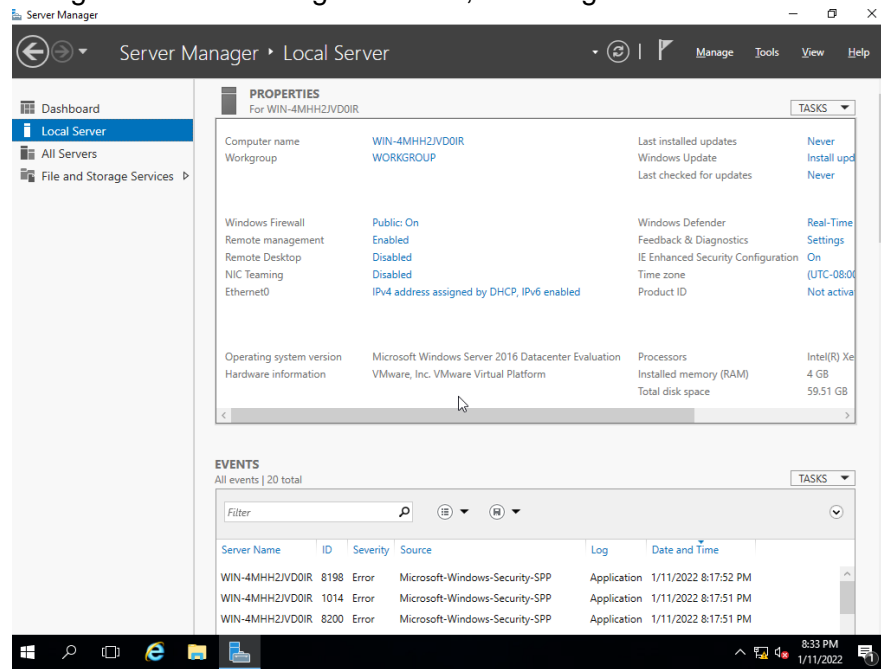Using the Server Management tool, checking out the function of the server.
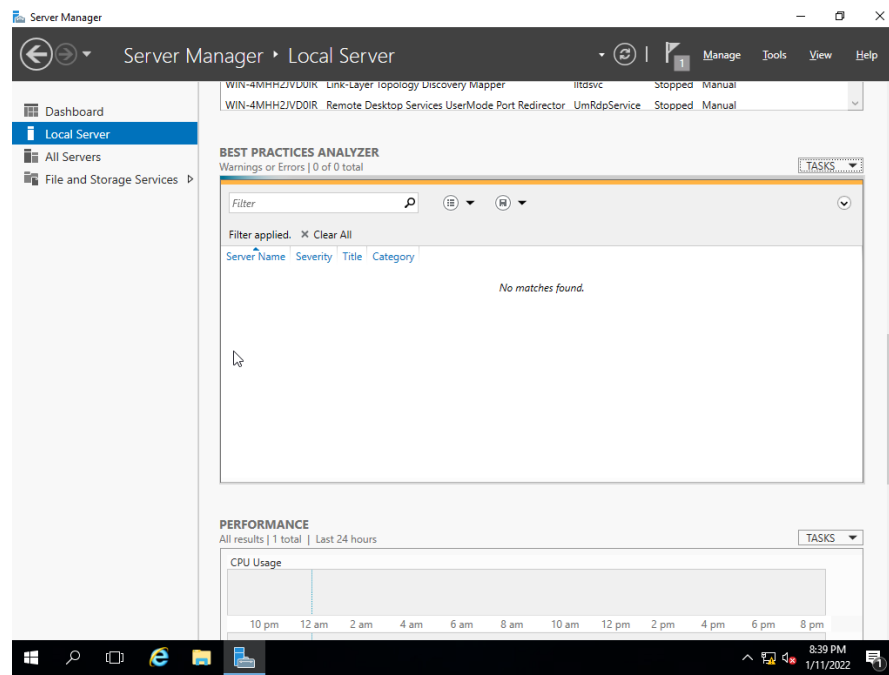

Figure 2: Local server info

Figure 3: Best Practice Analyzer as well as server performance data included

Checking out the performance and best practice analyzer, other tools that the textbook asked to check out.

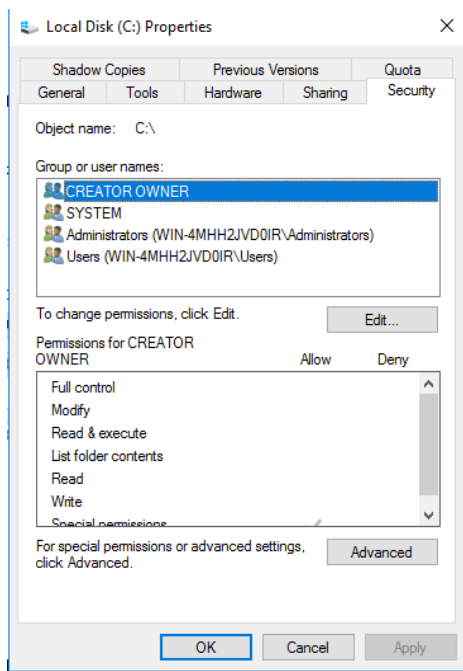Step 1-3: Examining the NTFS File System

Figure 4: File permissions for C: disk

Above are the NTFS file permissions that the textbook asked for us to explore as well as other file sections

Step 1-4: Working with MMC

In this step, we explored MMC and what we can do in it, along with creating and saving a custom group of options to our desktop
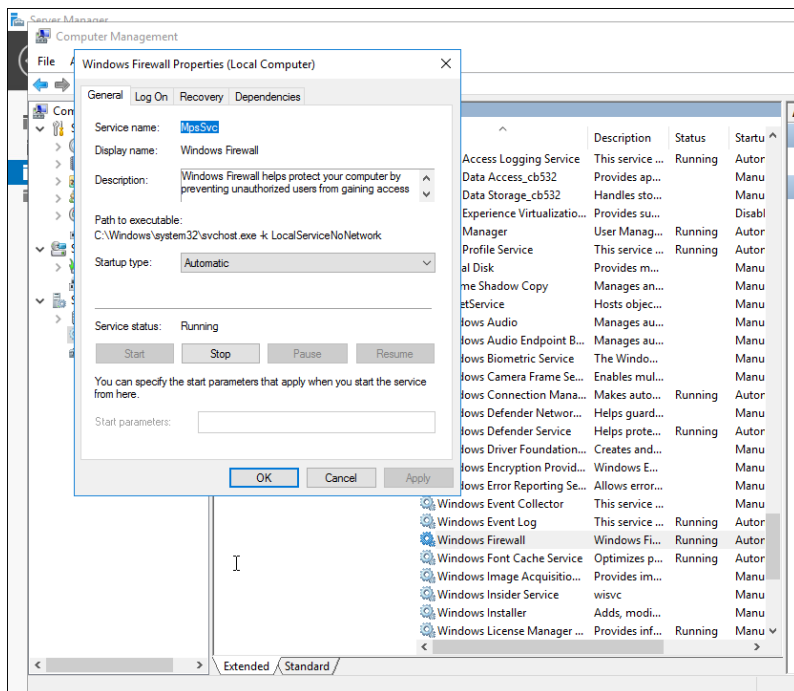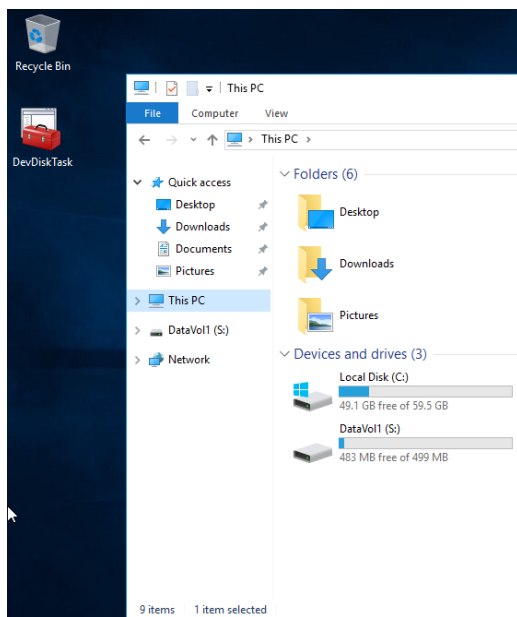
Figure 5: Windows firewall inside of the Management console

Figure 6: The creation of my custom MMC settings on desktop

Step 1-5: Creating a Volume

Using the MMC that I had created in step 1-4, we created a 500MB drive labeled as "S" through the Disk Management section.

Figure 7: Creation of the S: drive after using the MMC in Disk Management
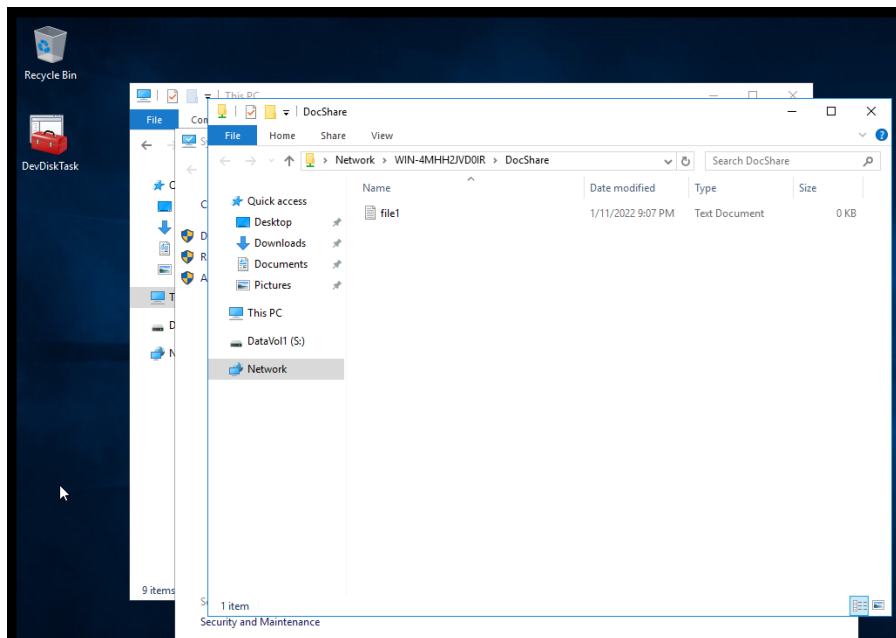
Figure 8: Network connected to the folder

After, we created a folder named "DocShare", and after that we created a text file labeled as "file1", and made it shareable, and to test that it was sharable, we network connect to it through going to "run" and typing \\WIN-4MHH2JVD0IR\DocShare
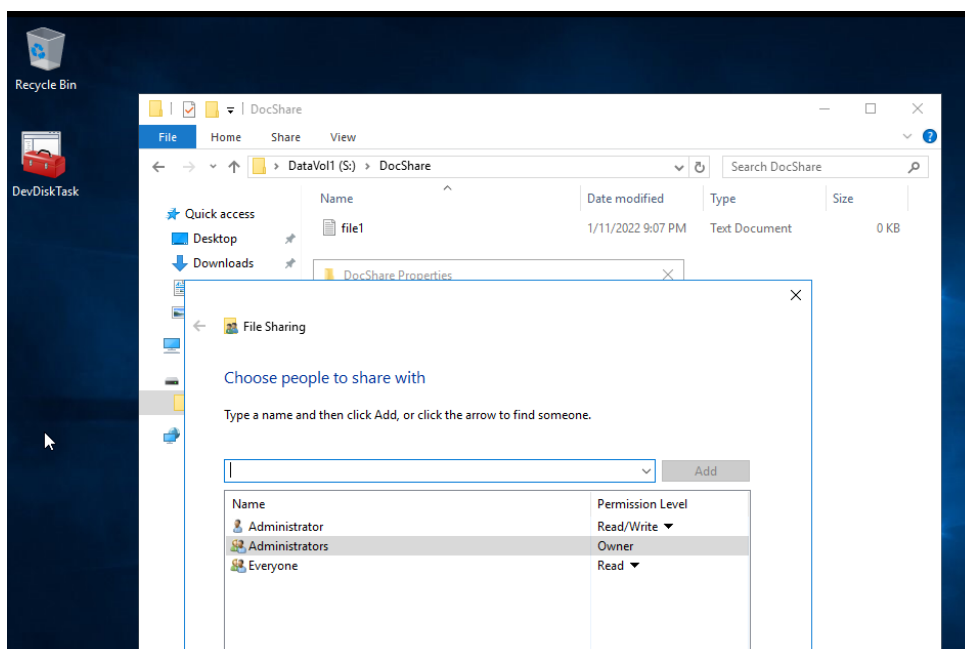

Figure 9: Enabling filesharing on the Folder

Step 1-7: Working with PowerShell

In this step we were tasked with using the Windows PowerShell to insert commands and testing different commands, below are the various ones that I used and tested.

```
PS C:\Users\Administrator> Get-Disk

Number Friendly Name Serial Number                 HealthStatus      OperationalStatus      Total Size Partition
                                                                                                       Style
------ ------------- -------------                 ------------      -----------------      ---------- ----------
0      VMware Vir...                               Healthy           Online                      60 GB MBR
1      VMware Vir...                               Healthy           Online                      20 GB GPT
2      VMware Vir...                               Healthy           Offline                     15 GB RAW
3      VMware Vir...                               Healthy           Offline                     10 GB RAW

PS C:\Users\Administrator>
```

Figure 10: Using GetDisk to check the status of all disks on the VM

```
PS C:\Users\Administrator> Get-Disk | Where-Object IsOffline -eq $False

Number Friendly Name Serial Number                 HealthStatus      OperationalStatus      Total Size Partition
                                                                                                       Style
------ ------------- -------------                 ------------      -----------------      ---------- ----------
0      VMware Vir...                               Healthy           Online                      60 GB MBR
1      VMware Vir...                               Healthy           Online                      20 GB GPT

PS C:\Users\Administrator>
```

Figure 11: Using GetDisk but filtering out disks not in use or "offline"

```
PS C:\Users\Administrator> $interfaces = Get-NetIPAddress
PS C:\Users\Administrator> $interfaces.IPAddress
fe80::5efe:192.168.8.26%7
fe80::6410:9e9d:7598:b96a%3
::1
192.168.8.26
127.0.0.1
PS C:\Users\Administrator>
```

Figure 12: Using a variable to store an object

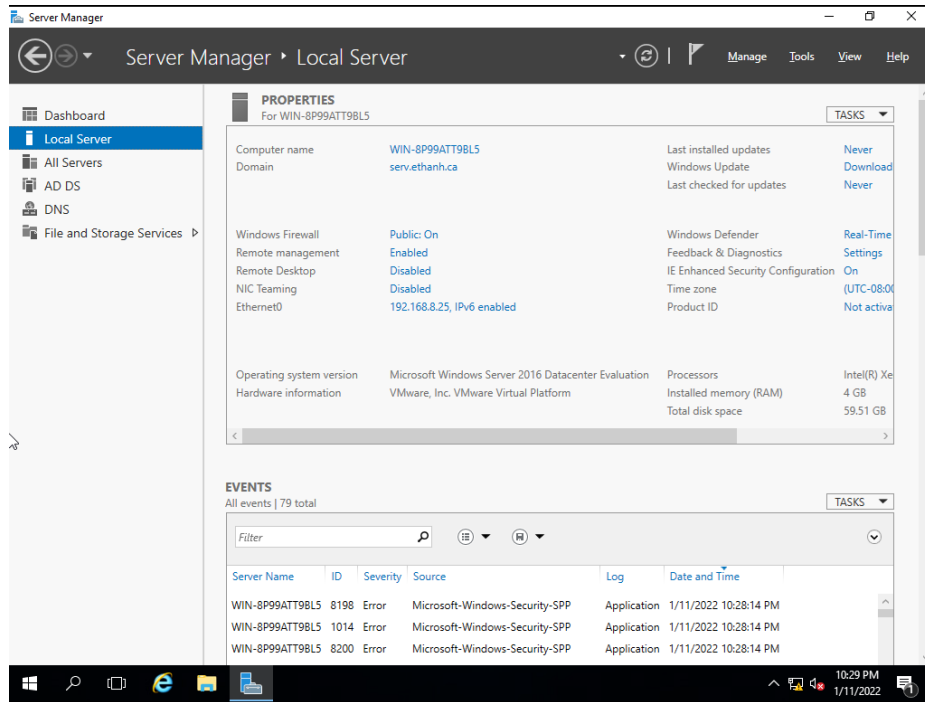Part B: Active Directory Install

Figure 13: Domain creation on windows machine

This was the creation of my domain that my other Virtual Machines had connected to, from here all my other virtual machines had connected to this domain group and worked from there on.