

CCT College Dublin

CA-2

Module Title:	Operating Systems & Architecture
Assessment Title:	Virtual Windows Active Directory / Network Server Virtualization – Part 2
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Assessment Due Date:	14-05-2023
Date of Submission:	14-05-2023

Declaration

By submitting this assessment, I confirm that I have read the CCT policy on Academic Misconduct and understand the implications of submitting work that is not my own or does not appropriately reference material taken from a third party or other source. I declare it to be my own work and that all material from third parties has been appropriately referenced. I further confirm that this work has not previously been submitted for assessment by myself or someone else in CCT College Dublin or any other higher education institution.

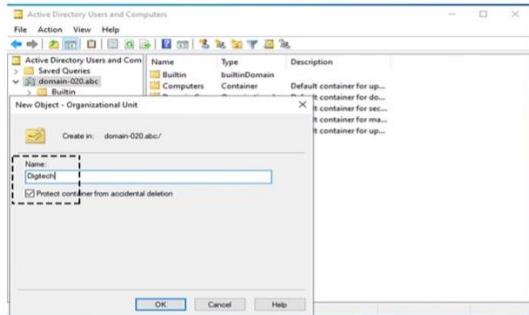
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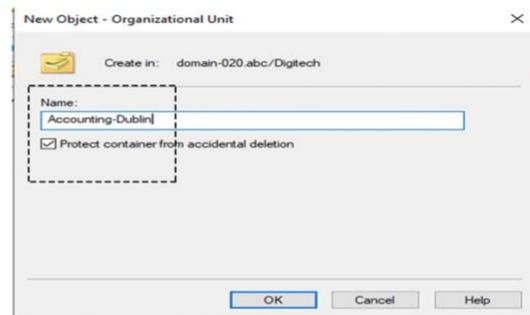
Part 1: Setting up the resources and network users

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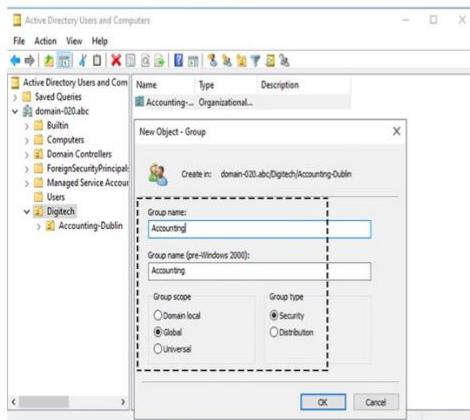
1.Creating Digitech department in AD users and computers



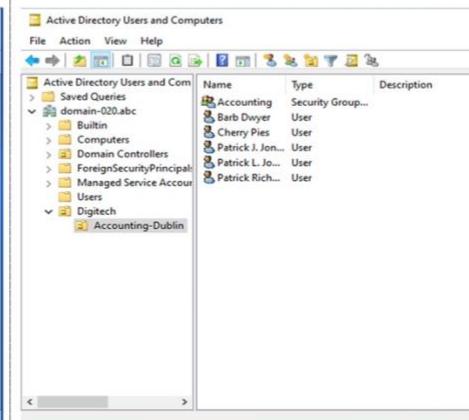
2.Creating Accounting-Dublin OU under digitech department



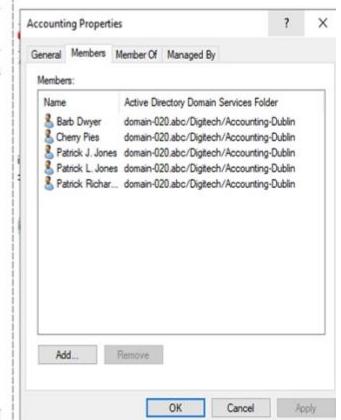
3.Creating Global Security Group calling Accounting inside Accounting-Dublin OU



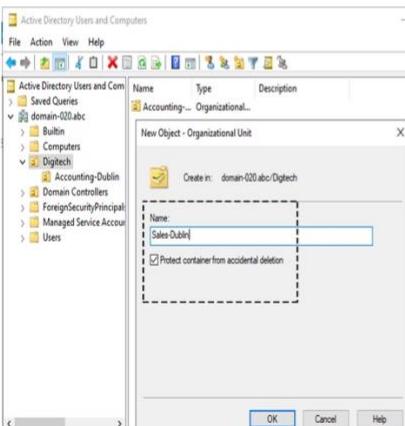
4. Adding users to Accounting-Dublin OU



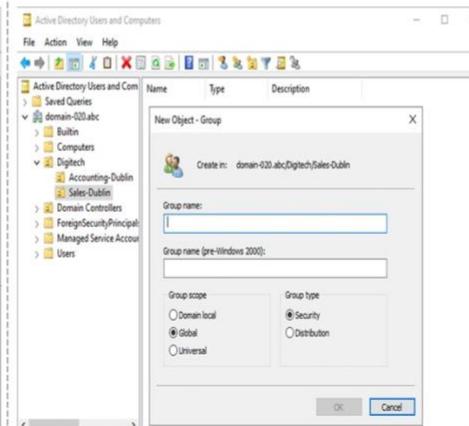
5. Adding Users to Accounting group



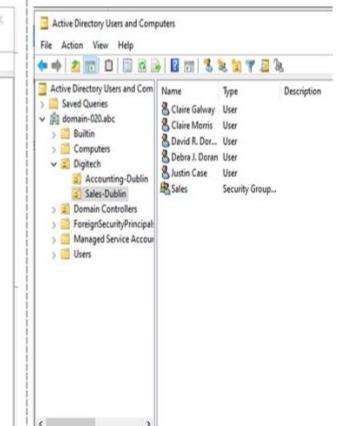
6.Creating Sales-Dublin OU under digitech department



7.Creating Global Security Group calling Accounting inside Sales-Dublin OU



8. Adding Users to Sales group

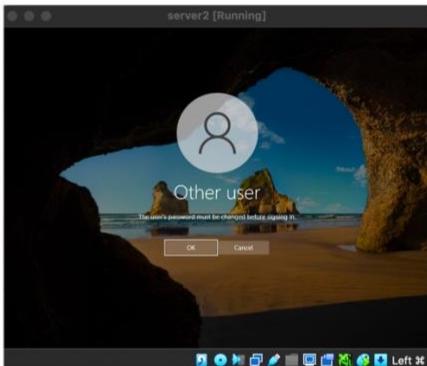


Part 1: Setting up the resources and network users

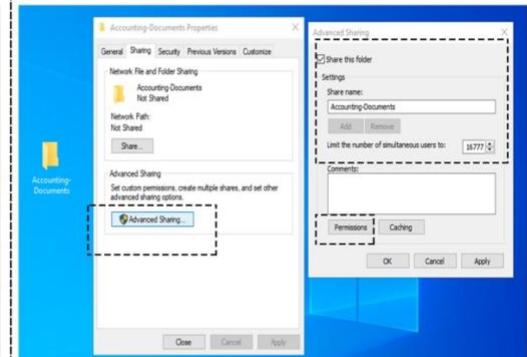
1. Setting up user must change password at next login



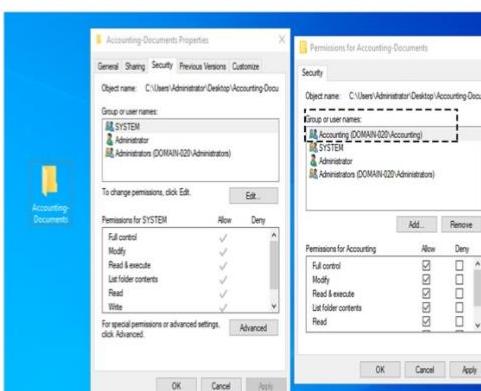
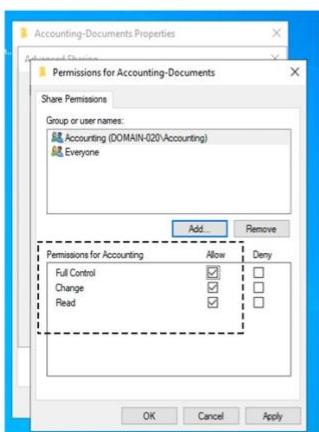
2. User asked to change their password



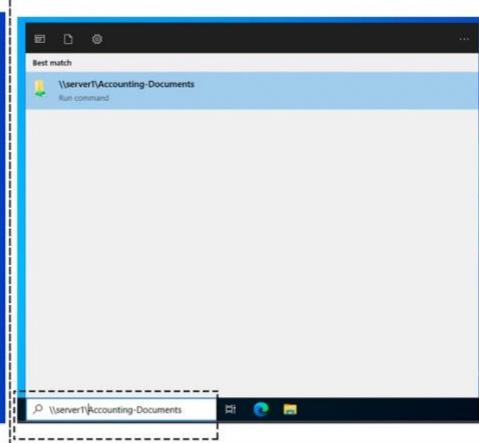
3. Created a folder for accounting document, editing their sharing properties by selecting advance sharing- enabling the sharing folder.



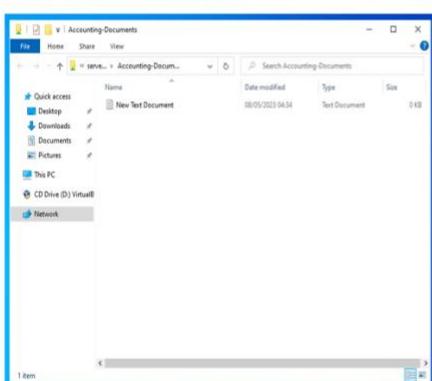
3. On the permission tab adding accounting team to access the folder



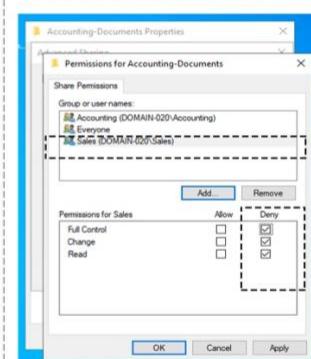
4. On web server signed in as accounting user, the user can access the folder with UNC cmd



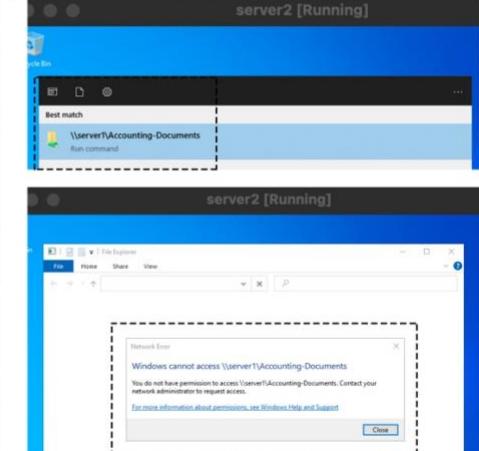
5. Accounting User can access the accounting doc folder



6. on the permission tab adding sales group and denying to access the accounting folder

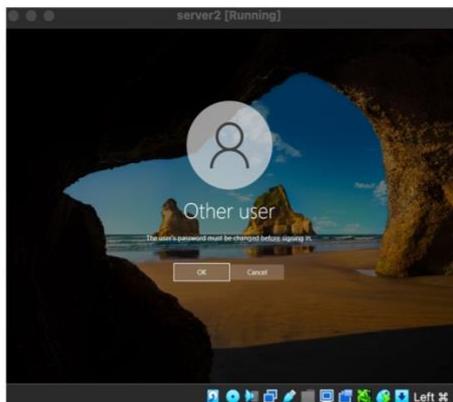


7. On web server signed in as sales user, user cannot access accounting docs

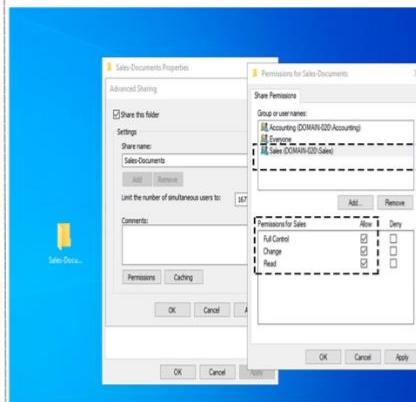


Part 1: Setting up the resources and network users

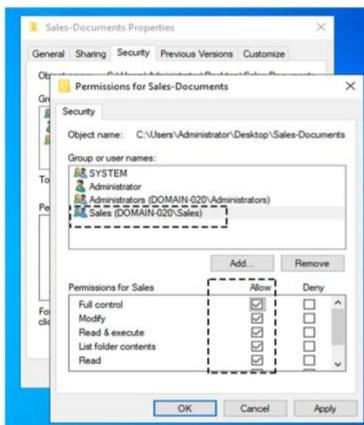
1.Sale User asked to change their password



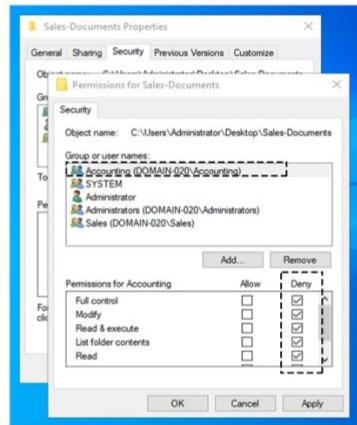
2, Created a folder for Sales document, editing their sharing properties by selecting advance sharing- enabling the sharing folder.



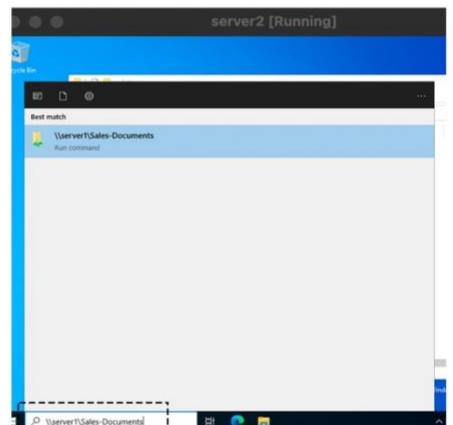
3.On the permission tab adding sales team to access the folder



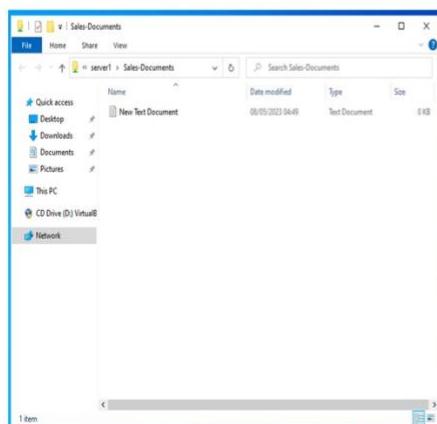
4.On the permission tab adding accounting team, they cannot access the folder



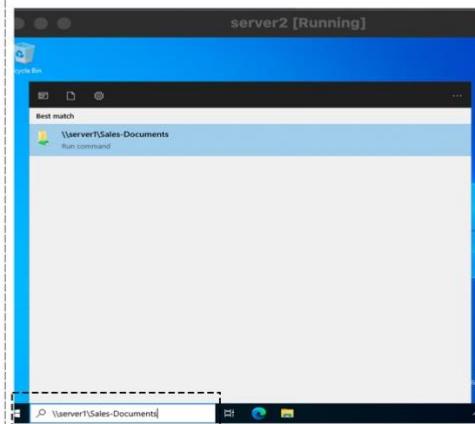
4.On web server signed in as sales user, the user can access the folder with UNC cmd



5. Sales User can access the accounting doc folder

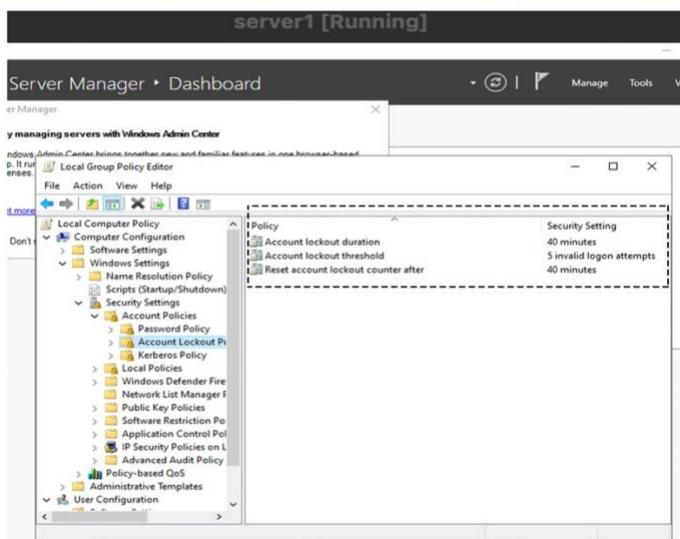


7. On web server signed in as accounting user. The user cannot access sales docs

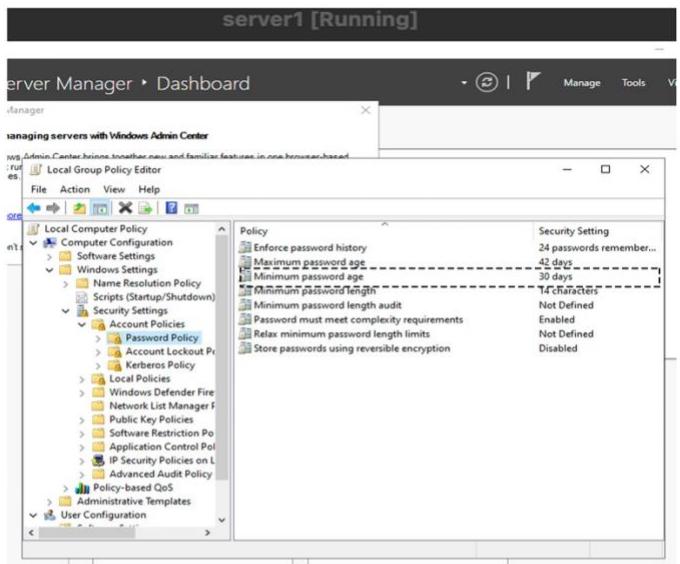


Part 1: Setting up the resources and network users

1. Setting up the account lockout policy, If the user enters password more than 5 times the account will be locked.



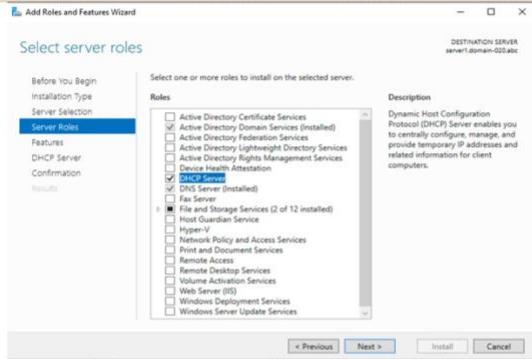
2. Setting up password policy, The user has to change the password every 30 days.



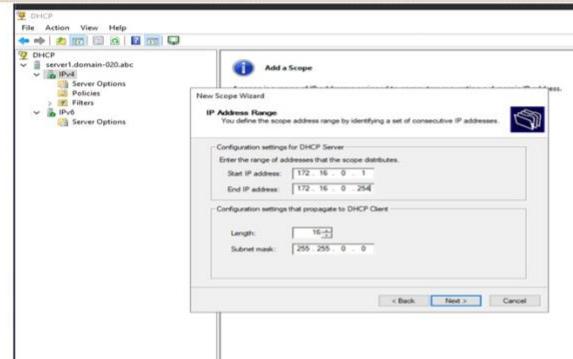
Part 2: Setting Up a DHCP Server for the Domain

Part 2: Setting Up a DHCP Server for the Domain

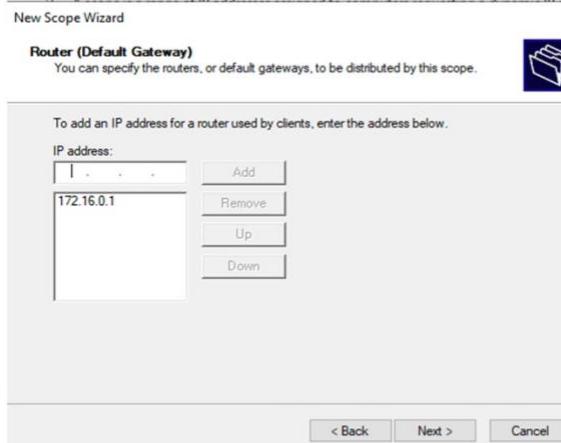
1. Adding DHCP Server feature.



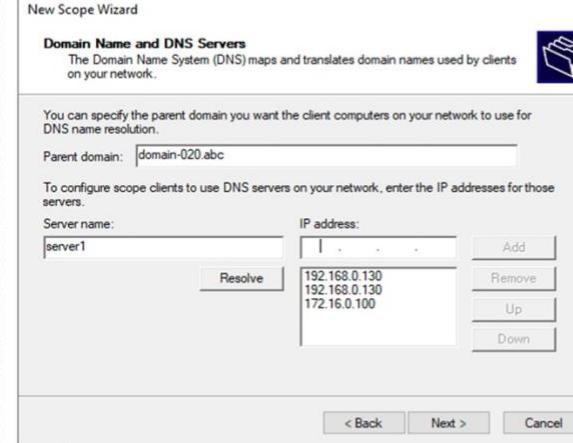
2. Creating new scope on DHCP Console with given IP address



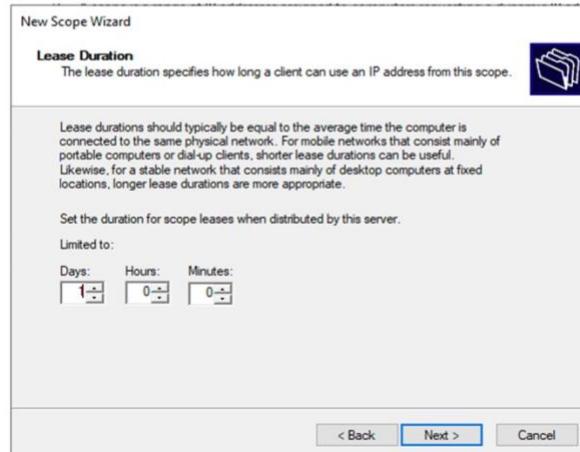
3. Setting up the default gateway on scope wizard



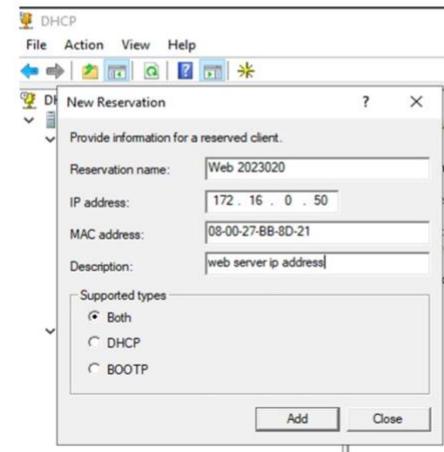
4. Adding server name and the ip address



5. Setting up the duration for 24hrs

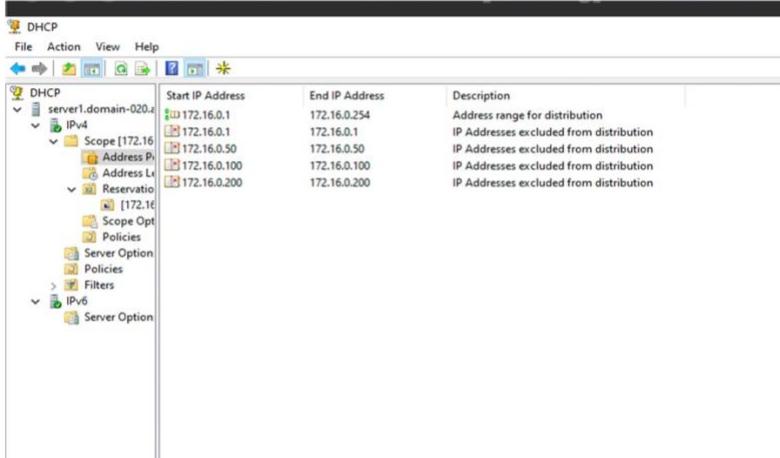


6. Adding reservation for the web computer with ip address 172.16.0.50



Part 2: Setting Up a DHCP Server for the Domain

1. Created four exclusions on the address pool



2. On the web server dynamically received the ip address and DHCP approved

```
C:\Users\Administrator>ipconfig /all

Windows IP Configuration

Host Name . . . . . : server2
Primary Dns Suffix . . . . . : domain-020.abc
Node Type . . . . . : Hybrid
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No
DNS Suffix Search List. . . . . : domain-020.abc

Ethernet adapter Ethernet:

Connection-specific DNS Suffix . . . . . :
Description . . . . . : Intel(R) PRO/1000 MT Desktop Adapter
Physical Address. . . . . : 08-00-27-BB-8D-21
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . . . : Yes
Link-local IPv6 Address . . . . . : fe80::5430:292:3c0c:6bb4%13(Preferred)
Autoconfiguration IPv4 Address . . . . . : 169.254.107.180(Preferred)
Subnet Mask . . . . . : 255.255.0.0
Default Gateway . . . . . :
DHCPv6 IAID . . . . . : 101187623
DHCPv6 Client DUID. . . . . : 00-01-00-01-2B-D3-3C-BB-08-00-27-BB-8D-21
DNS Servers . . . . . :
NetBIOS over Tcpip. . . . . : Enabled

C:\Users\Administrator>
```

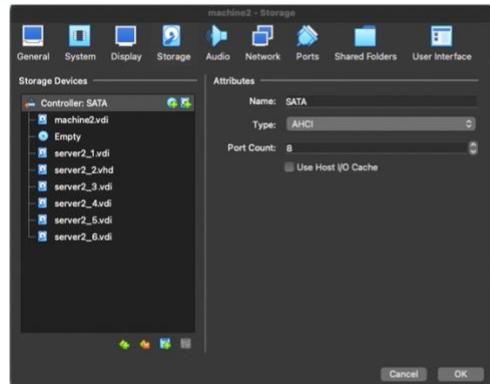
DHCP SERVER

A DHCP server is a computer program that automatically assigns IP addresses to devices on a network. This makes it easy for devices to connect to the network without needing to be manually configured. The DHCP server keeps track of available IP addresses and assigns them to devices as they join the network. It also assigns other important network settings, such as the default gateway and DNS server address. This helps to prevent problems that can occur when multiple devices have the same IP address. DHCP servers are commonly used in larger networks to simplify network administration and make it easier for devices to connect to the network.

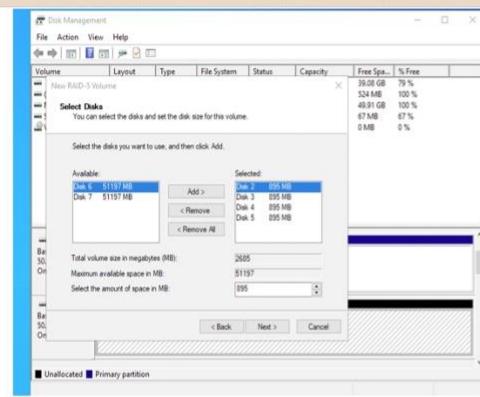
Part 3: Configuring RAID on the Web Server

Part 3: Configuring RAID on the Web Server

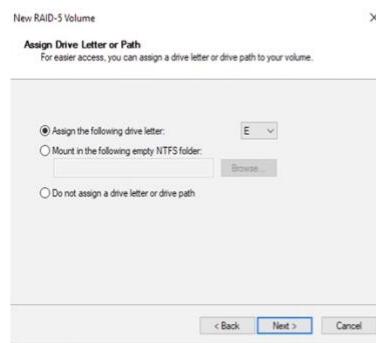
1. Created 6 hard drives



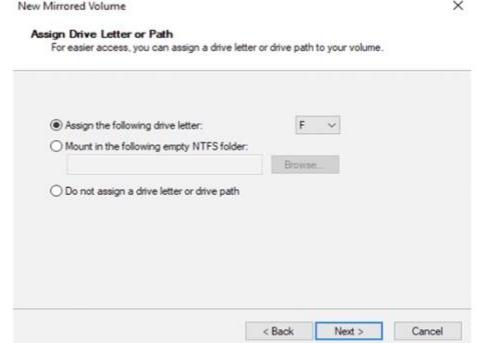
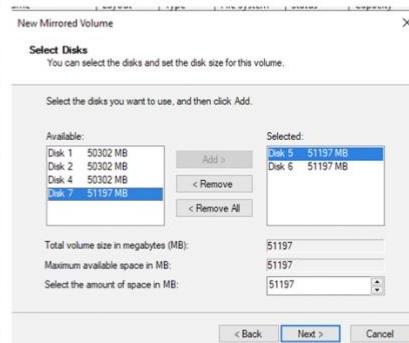
2. Setting up 4 hard drive as RAID 5.



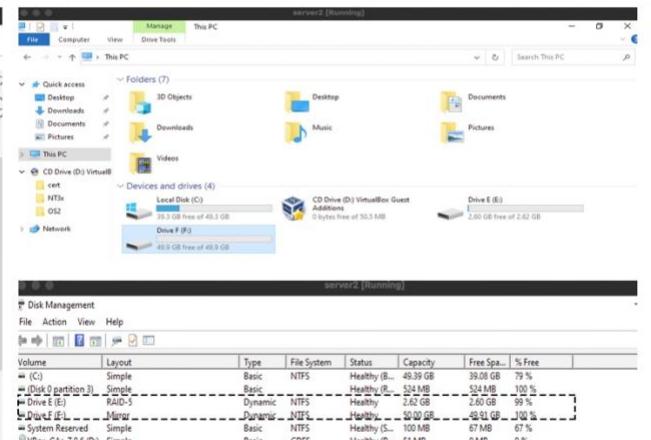
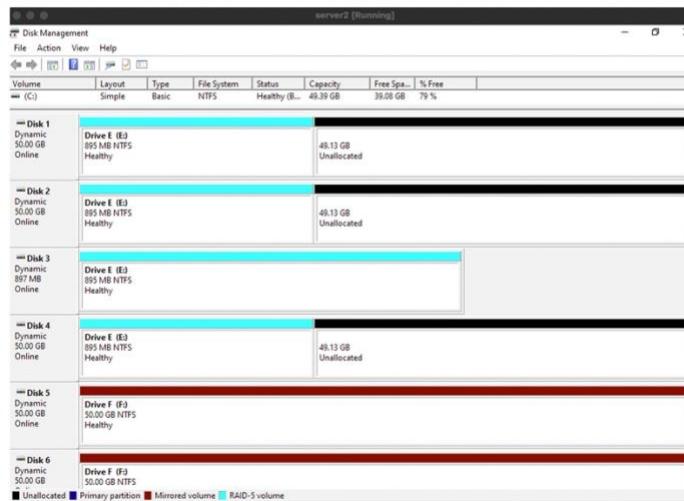
3. Naming RAID 5 Volume as E



4. Setting up 2 hard disk as RAID 1 MIRRORED and assigning it as F.



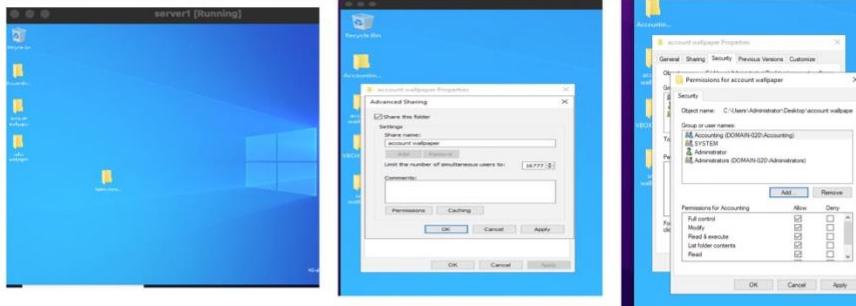
Created 5 RAID VOLUME AND RAID 1 MIRRORED VOLUME



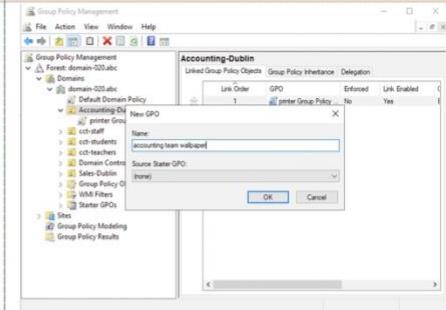
PART 4a – Network Infrastructure

PART -4 A NETWORK INFRASTRUCTURE

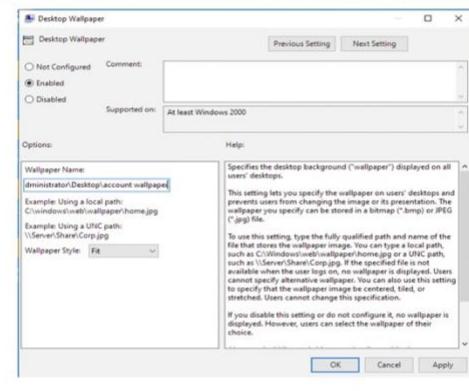
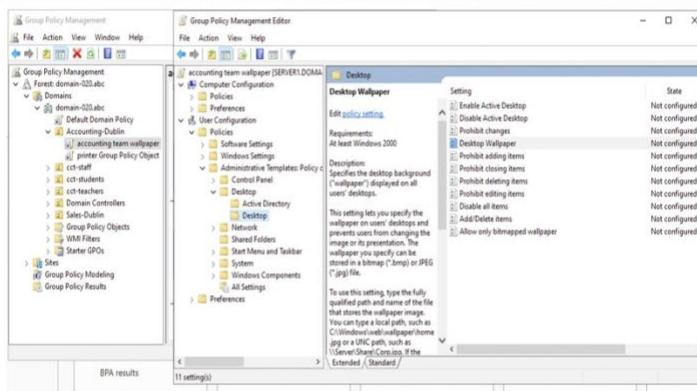
1. Added the accounting team wallpaper via shared folder and enabling the sharing folder and assigning permission on the properties tab



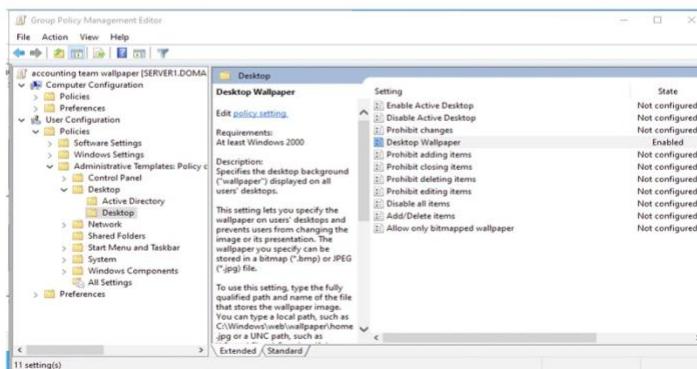
2. Creating new gpo for accounting department to add wallpaper



3. Editing GPO and adding the path to the wallpaper folder and enabling the feature.

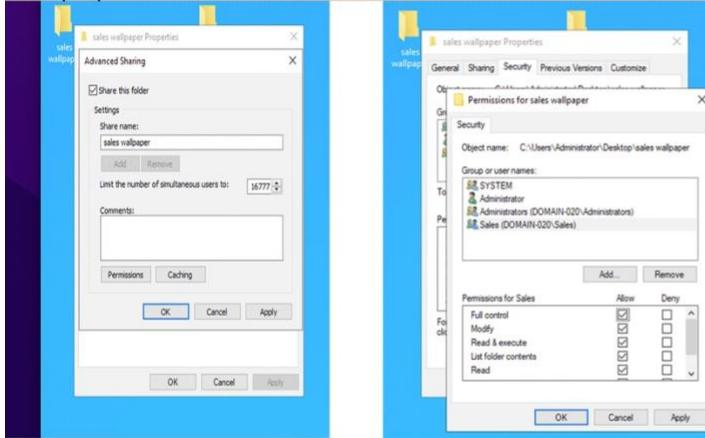


4. Feature enabled and signing in on the accounting user, wallpaper has been generated

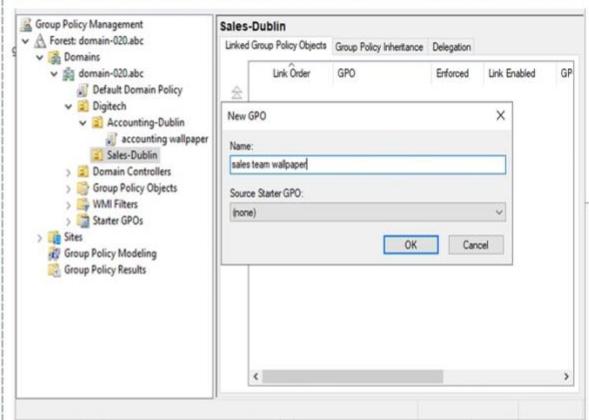


PART -4 A NETWORK INFRASTRUCTURE

1. Added the sales team wallpaper via shared folder and enabling the sharing folder and assigning permission on the properties tab



2. Creating new gpo for sales department to add wallpaper



3. Editing GPO and adding the path to the wallpaper folder and enabling the feature.

Setting	Description	State
Enable Active Desktop	To use this setting, type the fully qualified path and name of the file that stores the wallpaper image. You can type a local path, such as C:\Windows\Web\wallpaper\home.jpg, or a UNC path, such as \\Server\Share\Corp.jpg.	Not configured
Disable Active Desktop	If you disable this setting or do not configure it, no wallpaper is displayed. However, users can select the wallpaper of their choice.	Not configured
Prohibit changes	This setting lets you specify the wallpaper on users' desktops and prevents users from changing the image or its presentation. The wallpaper you specify can be stored in a bitmap (*.bmp) or JPEG (*.jpg) file.	Not configured
Desktop Wallpaper	Specifies the desktop background ("wallpaper") displayed on all users' desktops.	Enabled
Prohibit adding items	This setting lets you specify the wallpaper on users' desktops and prevents users from changing the image or its presentation. The wallpaper you specify can be stored in a bitmap (*.bmp) or JPEG (*.jpg) file.	Not configured
Prohibit deleting items	This setting lets you specify the wallpaper on users' desktops and prevents users from changing the image or its presentation. The wallpaper you specify can be stored in a bitmap (*.bmp) or JPEG (*.jpg) file.	Not configured
Prohibit editing items	This setting lets you specify the wallpaper on users' desktops and prevents users from changing the image or its presentation. The wallpaper you specify can be stored in a bitmap (*.bmp) or JPEG (*.jpg) file.	Not configured
Active Directory	This setting lets you specify the wallpaper on users' desktops and prevents users from changing the image or its presentation. The wallpaper you specify can be stored in a bitmap (*.bmp) or JPEG (*.jpg) file.	Not configured
Network	This setting lets you specify the wallpaper on users' desktops and prevents users from changing the image or its presentation. The wallpaper you specify can be stored in a bitmap (*.bmp) or JPEG (*.jpg) file.	Not configured
Shared Folders	This setting lets you specify the wallpaper on users' desktops and prevents users from changing the image or its presentation. The wallpaper you specify can be stored in a bitmap (*.bmp) or JPEG (*.jpg) file.	Not configured
Start Menu and Taskbar	This setting lets you specify the wallpaper on users' desktops and prevents users from changing the image or its presentation. The wallpaper you specify can be stored in a bitmap (*.bmp) or JPEG (*.jpg) file.	Not configured
System	This setting lets you specify the wallpaper on users' desktops and prevents users from changing the image or its presentation. The wallpaper you specify can be stored in a bitmap (*.bmp) or JPEG (*.jpg) file.	Not configured
Windows Components	This setting lets you specify the wallpaper on users' desktops and prevents users from changing the image or its presentation. The wallpaper you specify can be stored in a bitmap (*.bmp) or JPEG (*.jpg) file.	Not configured
All Settings	This setting lets you specify the wallpaper on users' desktops and prevents users from changing the image or its presentation. The wallpaper you specify can be stored in a bitmap (*.bmp) or JPEG (*.jpg) file.	Not configured
Preferences	This setting lets you specify the wallpaper on users' desktops and prevents users from changing the image or its presentation. The wallpaper you specify can be stored in a bitmap (*.bmp) or JPEG (*.jpg) file.	Not configured

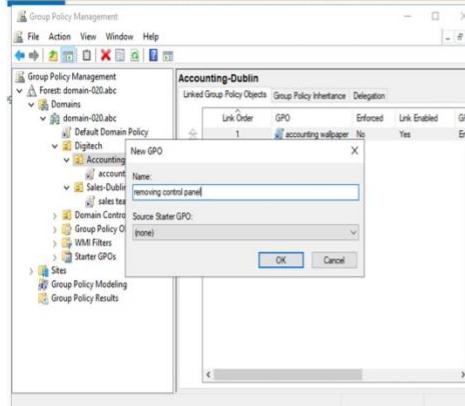
4. Feature enabled and signing in on the salesuser, wallpaper has been generated



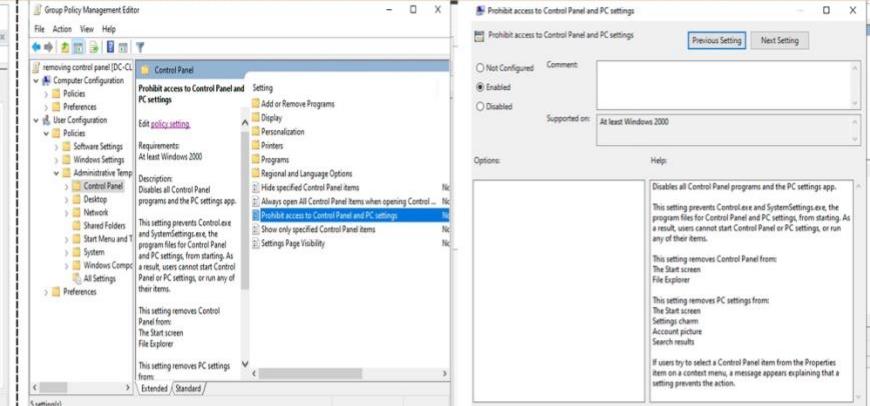
4B.Network Infrastructure

PART -4 b NETWORK INFRASTRUCTURE

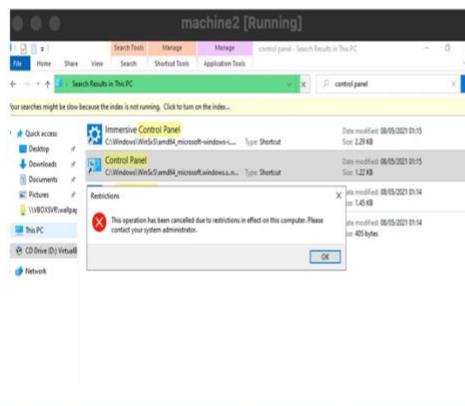
1. Creating new gpo to remove the control panel from accounting team



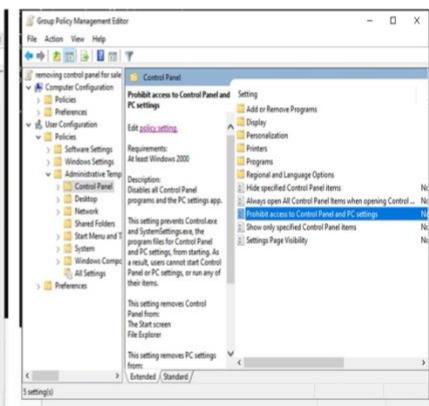
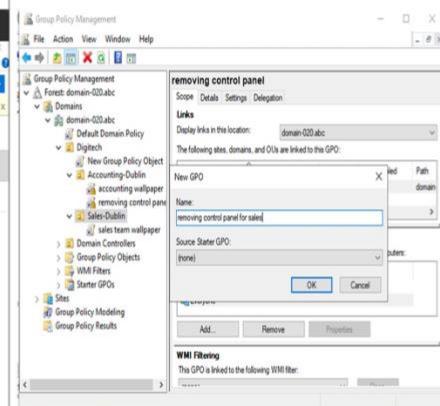
2. Editing gpo and enabling the prohibit access to control panel and pc settings



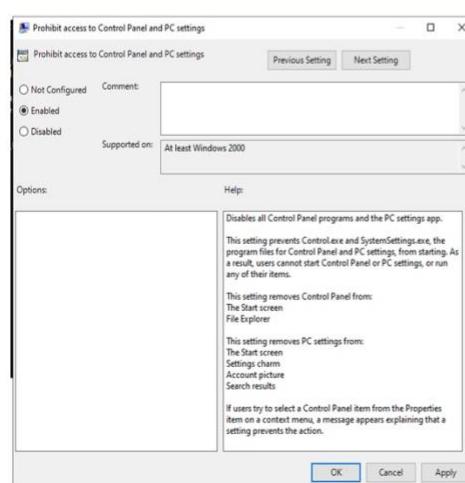
3. Access denied to accounting user



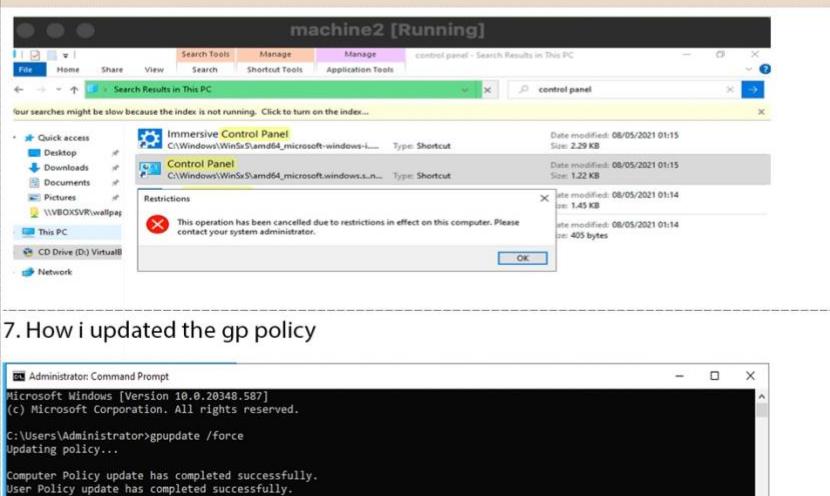
4. Creating new gpo to remove the control panel from sales team



5. Editing gpo and enabling the prohibit access to control panel and pc settings



6. Access denied to sales user



7. How i updated the gp policy

```

Administrator: Command Prompt
Microsoft Windows [Version 10.0.20348.587]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Administrator>gpupdate /force
Updating policy...

Computer Policy update has completed successfully.
User Policy update has completed successfully.

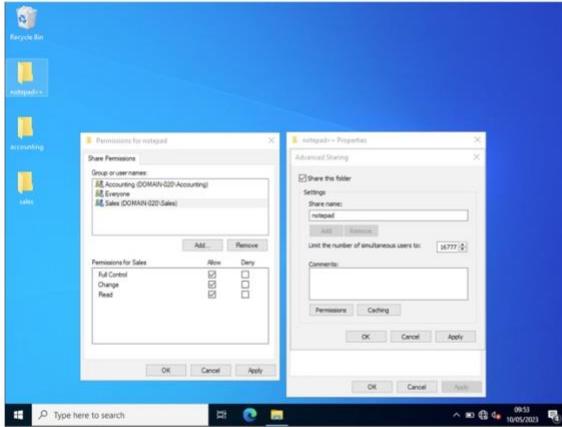
C:\Users\Administrator>

```

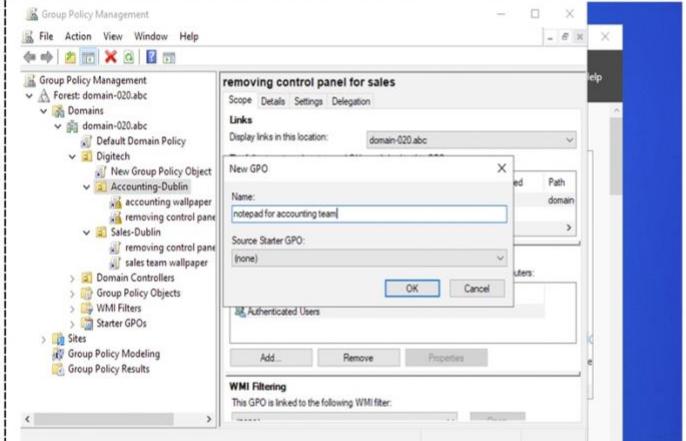
4C-Network Infrastructure.

PART -4 c NETWORK INFRASTRUCTURE

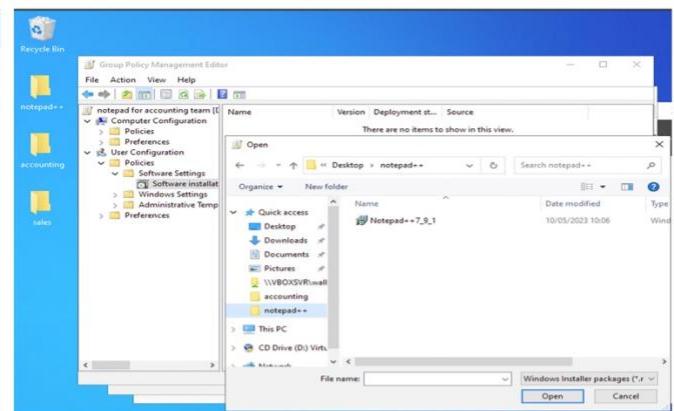
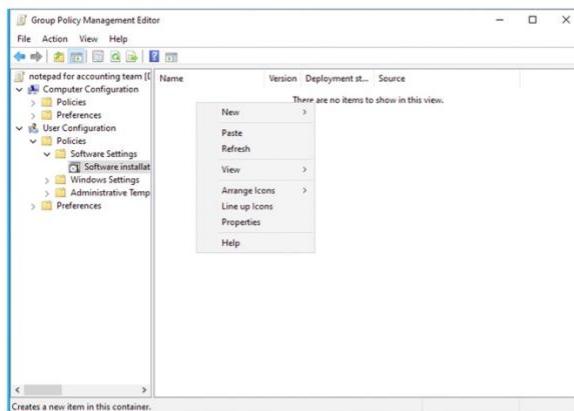
1. Added notepad++ MSI version folder via shared folder



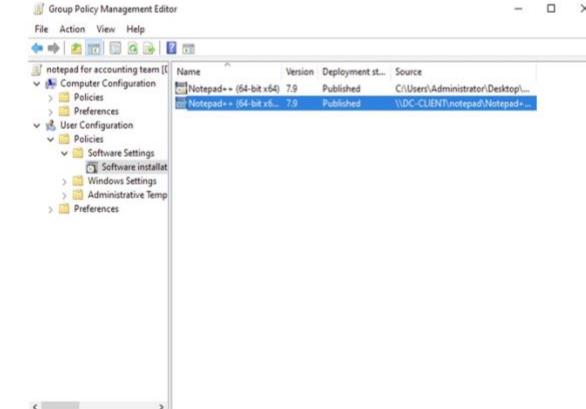
2. Creating new gpo for accounting team.



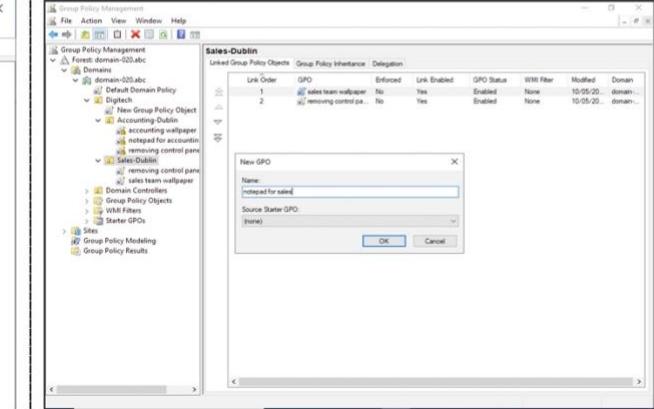
3.Editing gpo and on the software instalation creating new package and adding notepad++ msi version file



4. Notepad++ software has been added.

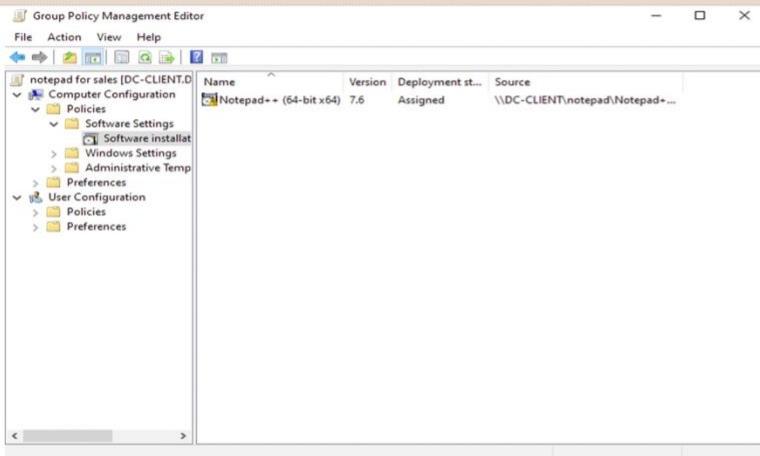


5. Creating new gpo for sales team.

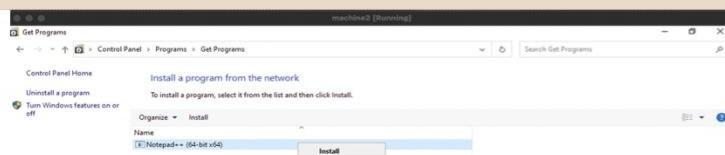


PART -4 c NETWORK INFRASTRUCTURE

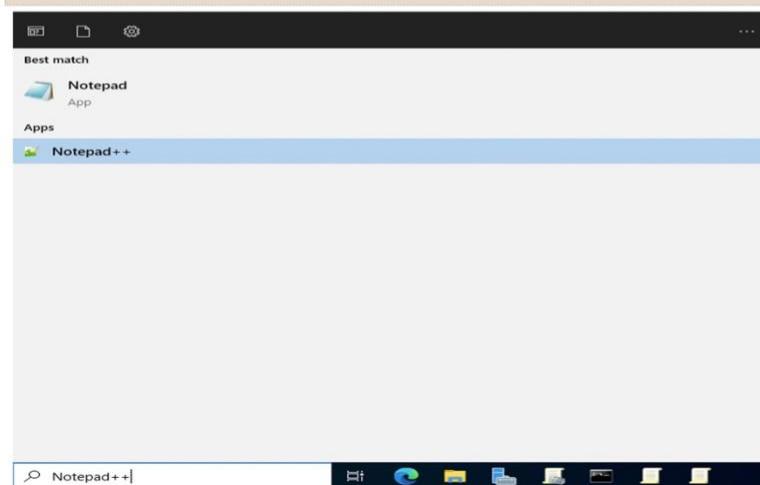
1.Editing gpo and on the software instalation creating new package and adding notepad++ msi version file



2. On sale user we can install notepad++ on control panel/programs/getprograms.



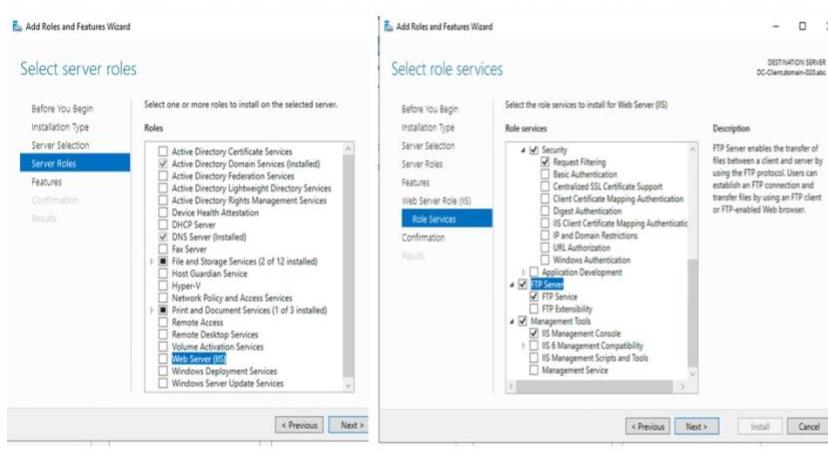
3. Notepad++ has been installed on the sale user



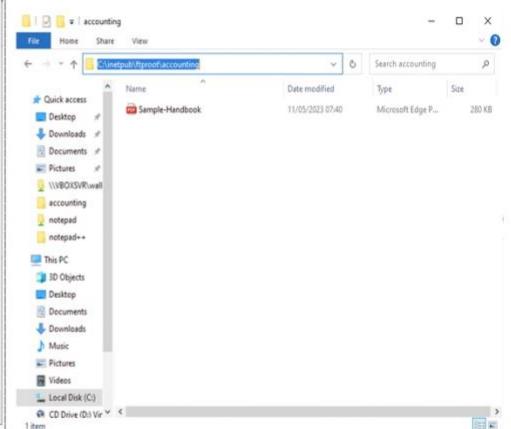
4E-Network Infrastructure

PART -4 e NETWORK INFRASTRUCTURE

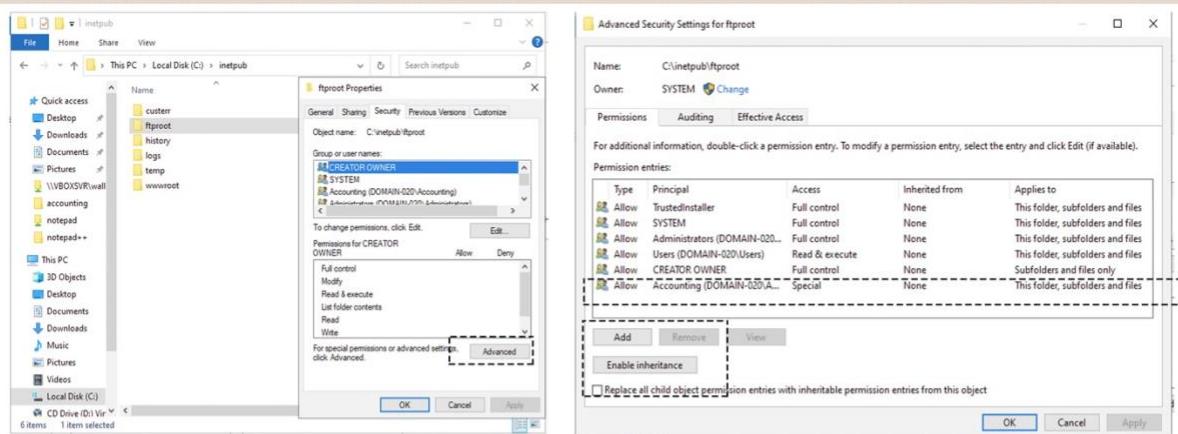
1. Adding ISS Service and enabling FTP Service on role service.



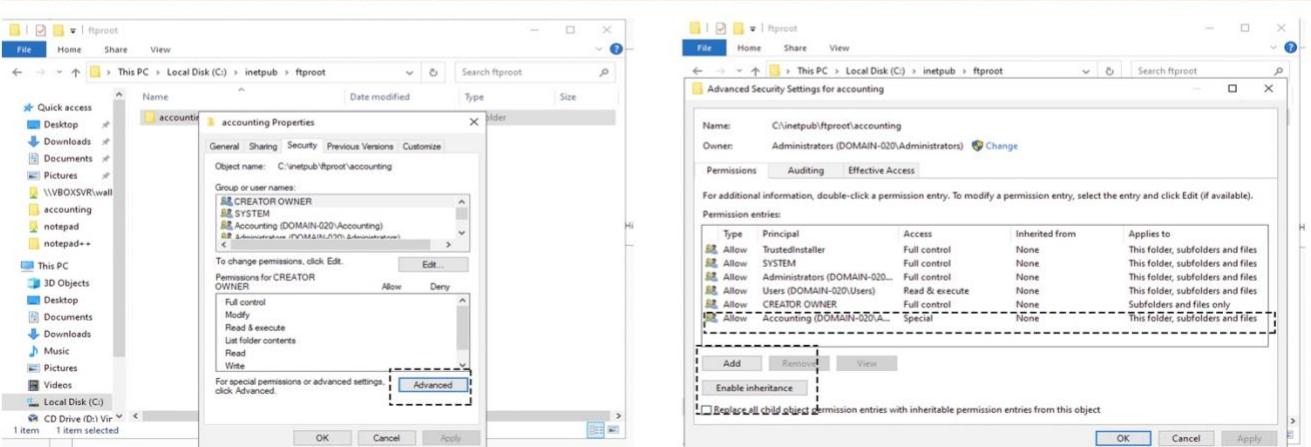
2. Created a folder for DigiTech-Acceptable-Use-Policy pn c:/inetpub/ftproot/accounting/pdf



3. Editing permission for ftproot folder and enabling inheritance and add adding accounting user to access the pdf

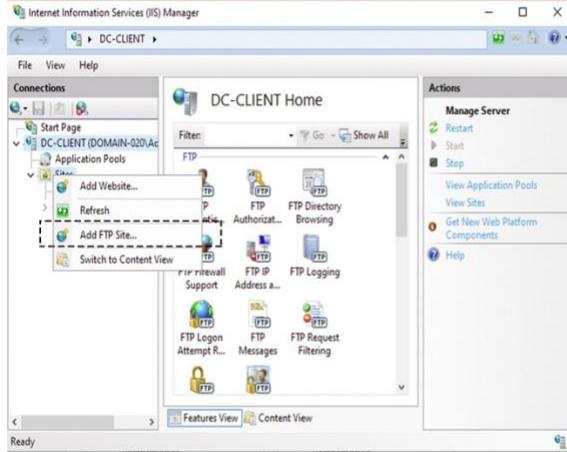


4. Editing permission for accounting folder and enabling inheritance and add adding accounting user to access the pdf

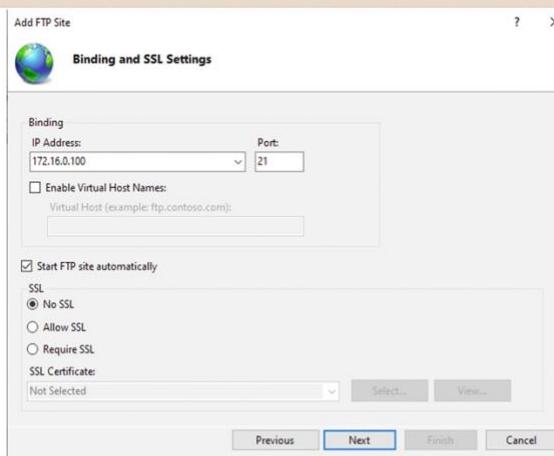


PART -4 e NETWORK INFRASTRUCTURE

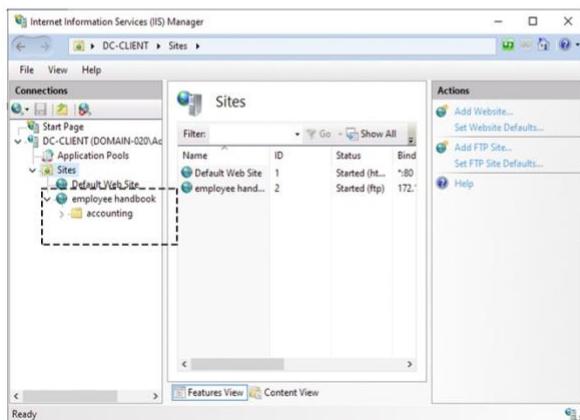
1. Adding ftp server on ISS manager



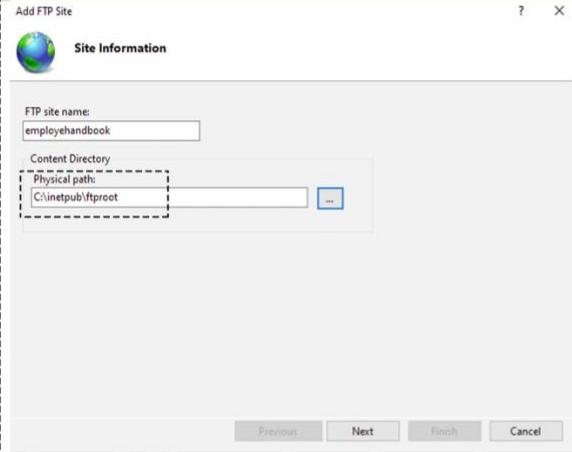
3. Setting up system ip address



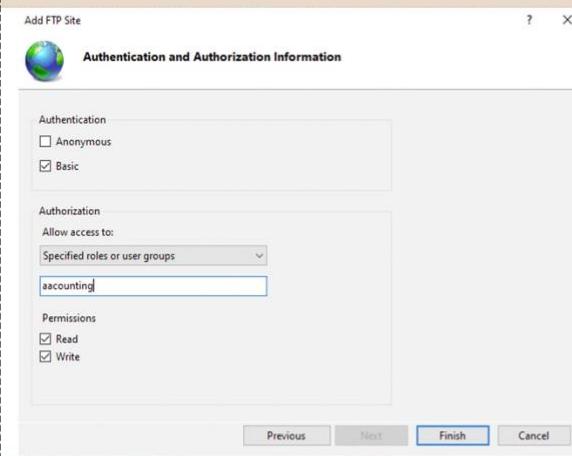
5. FTP site has been added



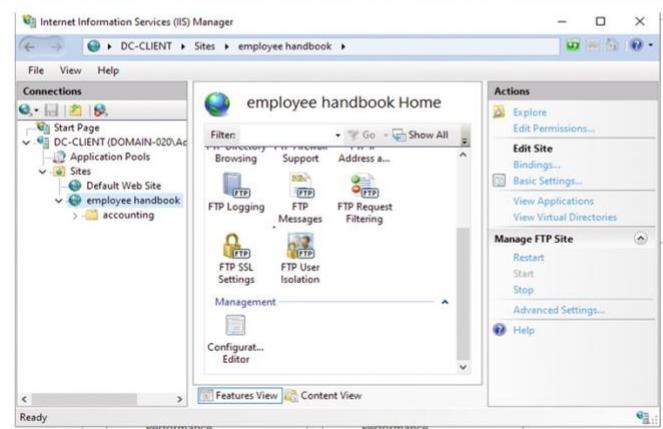
2. Setting up pdf path from local disk



4. setting up authorization to specific users

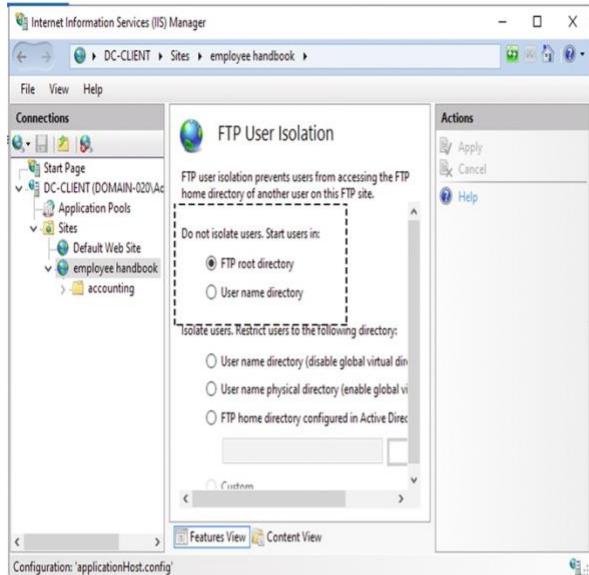


5. On ftp user isolation editing permission

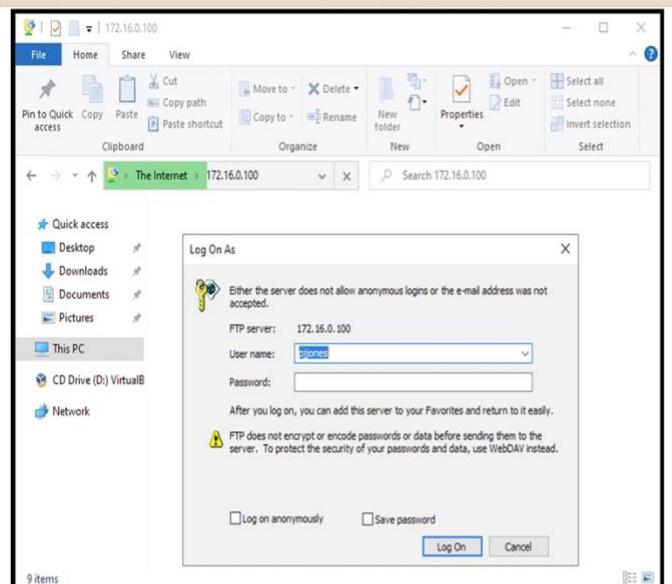


PART -4 e NETWORK INFRASTRUCTURE

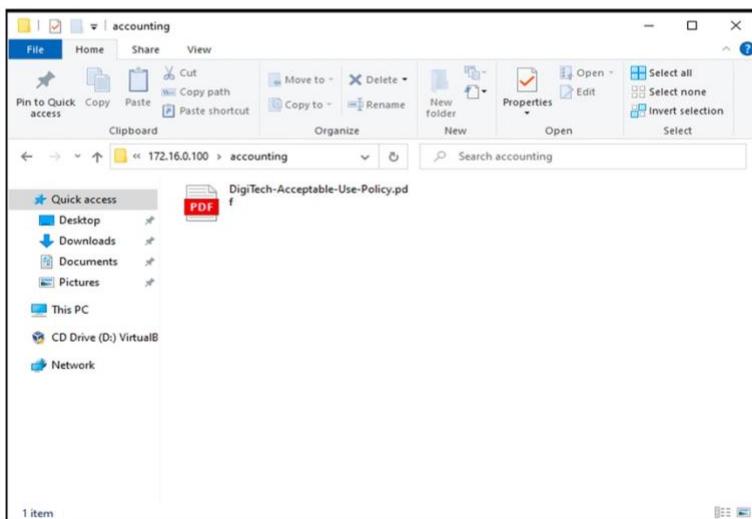
1. Editing FTP isolation



2. On Web server searching `ftp://172.16.0.50` the accounting user asked to enter the username and password



3. After entering the login details user can access the Employee handbook



4F-Network Infrastructure

PART -4 f NETWORK INFRASTRUCTURE

1. Added the users via powershell by the following command on powershell

Import-Module ActiveDirectory

```
# Set the OU path where the users will be created
$OUPath = "OU=Sales-Dublin,OU=Digitech,DC=domain-020,DC=abc"

# Create Bill Clinton
New-ADUser -Name "Bill Clinton" -GivenName "Bill" -Surname "Clinton" ` 
-UserPrincipalName "bclinton@domain-020.abc" ` 
-SamAccountName "bclinton" ` 
-AccountPassword (ConvertTo-SecureString "password1234!!" -AsPlainText -Force) ` 
-Path $OUPath -Enabled $true

# Create Hillary Clinton
New-ADUser -Name "Hillary Clinton" -GivenName "Hillary" -Surname "Clinton" ` 
-UserPrincipalName "hclinton@domain-020.abc" ` 
-SamAccountName "hclinton" ` 
-AccountPassword (ConvertTo-SecureString "password1234!!" -AsPlainText -Force) ` 
-Path $OUPath -Enabled $true

# Create Fred Flintstone
New-ADUser -Name "Fred Flintstone" -GivenName "Fred" -Surname "Flintstone" ` 
-UserPrincipalName "fflimestone@domain-020.abc" ` 
-SamAccountName "fflimestone" ` 
-AccountPassword (ConvertTo-SecureString "password1234!!" -AsPlainText -Force) ` 
-Path $OUPath -Enabled $true

# Create Barney Rubble
New-ADUser -Name "Barney Rubble" -GivenName "Barney" -Surname "Rubble" ` 
-UserPrincipalName "brubble@domain-020.abc" ` 
-SamAccountName "brubble" ` 
-AccountPassword (ConvertTo-SecureString "password1234!!" -AsPlainText -Force) ` 
-Path $OUPath -Enabled $true

# Create Snoop Dogg
New-ADUser -Name "Snoop Dogg" -GivenName "Snoop" -Surname "Dogg" ` 
-UserPrincipalName "sdogg@domain-020.abc" ` 
-SamAccountName "sdogg" ` 
-AccountPassword (ConvertTo-SecureString "password1234!!" -AsPlainText -Force) ` 
-Path $OUPath -Enabled $true
```

2. Finding OU path for the sales team



3 Running powershell as administrator and entering the above command to add the users

```
Administrator: Windows PowerShell ISE
File Edit View Tools Debug Add-ons Help
Untitled1.ps1 Untitled2.ps1*
1 Import-Module ActiveDirectory |
2 # Set the OU path where the users will be created
3 $OUPath = "OU=Sales-Dublin,OU=Digitech,DC=domain-020,DC=abc"
4
5 # Create Bill Clinton
6 New-ADUser -Name "Bill Clinton" -GivenName "Bill" -Surname "Clinton" ` 
7 -UserPrincipalName "bclinton@domain-020.abc" ` 
8 -SamAccountName "bclinton" ` 
9 -AccountPassword (ConvertTo-SecureString "password1234!!" -AsPlainText -Force) ` 
10 -Path $OUPath -Enabled $true
11
12 # Create Hillary Clinton
13 New-ADUser -Name "Hillary Clinton" -GivenName "Hillary" -Surname "Clinton" ` 
14 -UserPrincipalName "hclinton@domain-020.abc" ` 
15 -SamAccountName "hclinton" ` 
16 -AccountPassword (ConvertTo-SecureString "password1234!!" -AsPlainText -Force) ` 
17 -Path $OUPath -Enabled $true
18
19 # Create Fred Flintstone
20 New-ADUser -Name "Fred Flintstone" -GivenName "Fred" -Surname "Flintstone" ` 
21 -UserPrincipalName "fflimestone@domain-020.abc" ` 
22 -SamAccountName "fflimestone" ` 
23 -AccountPassword (ConvertTo-SecureString "password1234!!" -AsPlainText -Force) ` 
24 -Path $OUPath -Enabled $true
25
26 # Create Barney Rubble
27 New-ADUser -Name "Barney Rubble" -GivenName "Barney" -Surname "Rubble" ` 
28 -UserPrincipalName "brubble@domain-020.abc" ` 
29 -SamAccountName "brubble" ` 
30 -AccountPassword (ConvertTo-SecureString "password1234!!" -AsPlainText -Force) ` 
31 -Path $OUPath -Enabled $true
32
33 # Create Snoop Dogg
34 New-ADUser -Name "Snoop Dogg" -GivenName "Snoop" -Surname "Dogg" ` 
35 -UserPrincipalName "sdogg@domain-020.abc" ` 
36 -SamAccountName "sdogg" ` 
37 -AccountPassword (ConvertTo-SecureString "password1234!!" -AsPlainText -Force) ` 
38 -Path $OUPath -Enabled $true
39
40 New-ADUser -Name "Bill Clinton" -GivenName "Bill" -Surname "Clinton" -UserPrincipalName "bclinton@domain-020.abc"
At line:12 char:1
+ New-ADUser -Name "Bill Clinton" -GivenName "Bill" -Surname "Clinton" ...
+ ~~~~~
+ CategoryInfo          : NotSpecified: (Name:Bill Clinton, ...ain-020,DC=abc:String)
+ FullyQualifiedErrorId : ActiveDirectoryServer:8648,Microsoft.ActiveDirectory.Management.Commands.NewUser
PS C:\Users\Administrator> New-ADUser -Name "Bill Clinton" -GivenName "Bill" -Surname "Clint
PS C:\Users\Administrator>
```

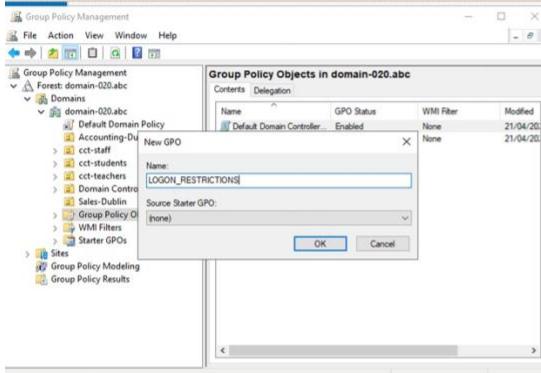
4. Users has been added to the sales group

Name	Type	Description
Barney Rubble	User	
Bill Clinton	User	
Claire Galway	User	
Claire Morris	User	
David R. Dor...	User	
Debra J. Doran	User	
Fred Flintsto...	User	
Hillary Clinton	User	
Justin Case	User	
Sales	Security Group...	
Snoop Dogg	User	

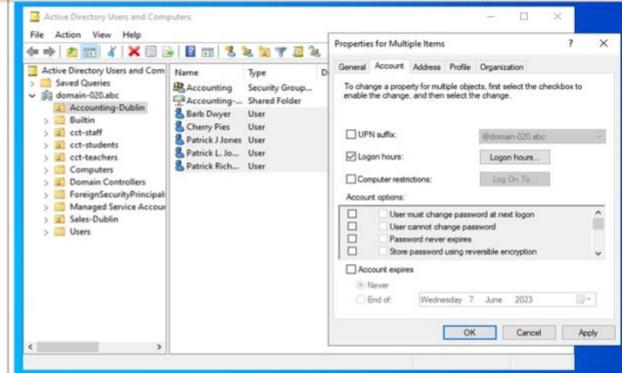
PART 5A -Challenge task

Part -5a

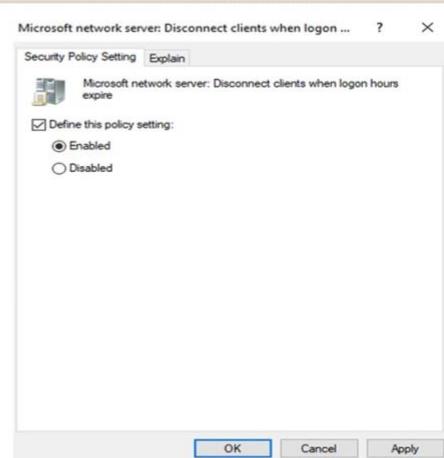
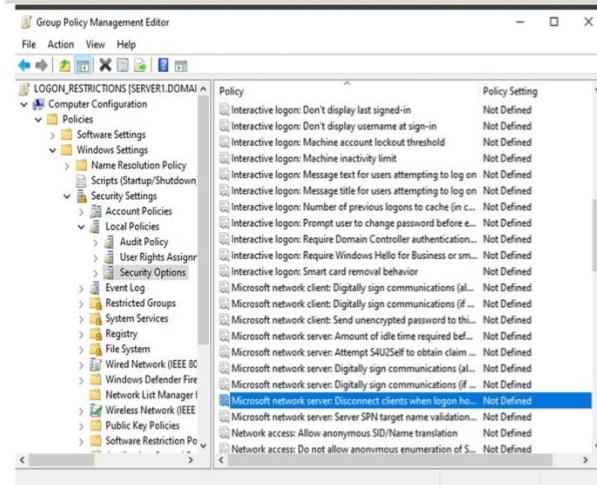
1. Creating gpo to set logon restriction



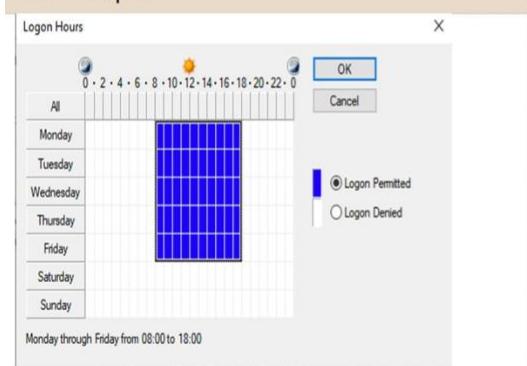
2. Selecting the users to add logon hours



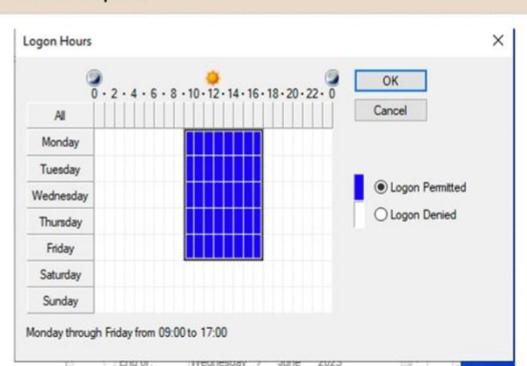
3. GPO editing - Microsoft network server-Disconnect clients when logon hours exceeds and enabling the feature



4. Logon has been set for sales team from 8am to 6pm.



5. Logon has been set for accounting team from 9am to 5pm.



6. User login after login hour shows limits.

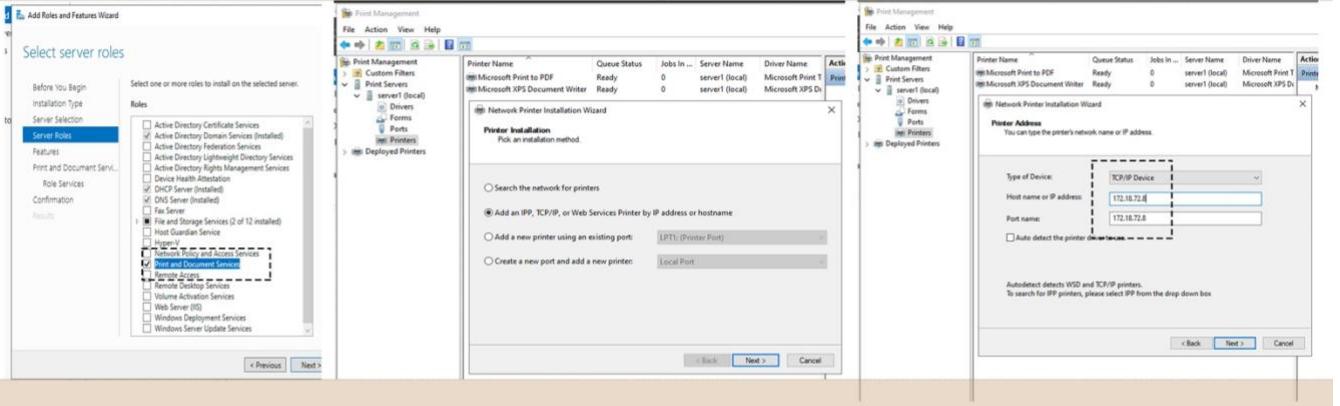


PART 5B-Challenge task

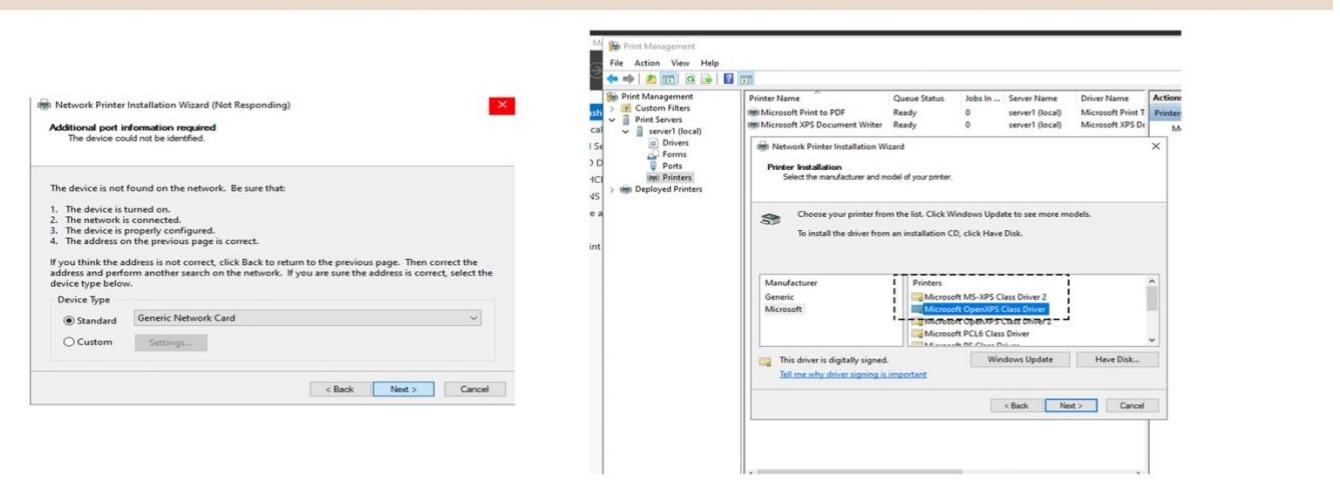
Part -5B

1.Adding print feature

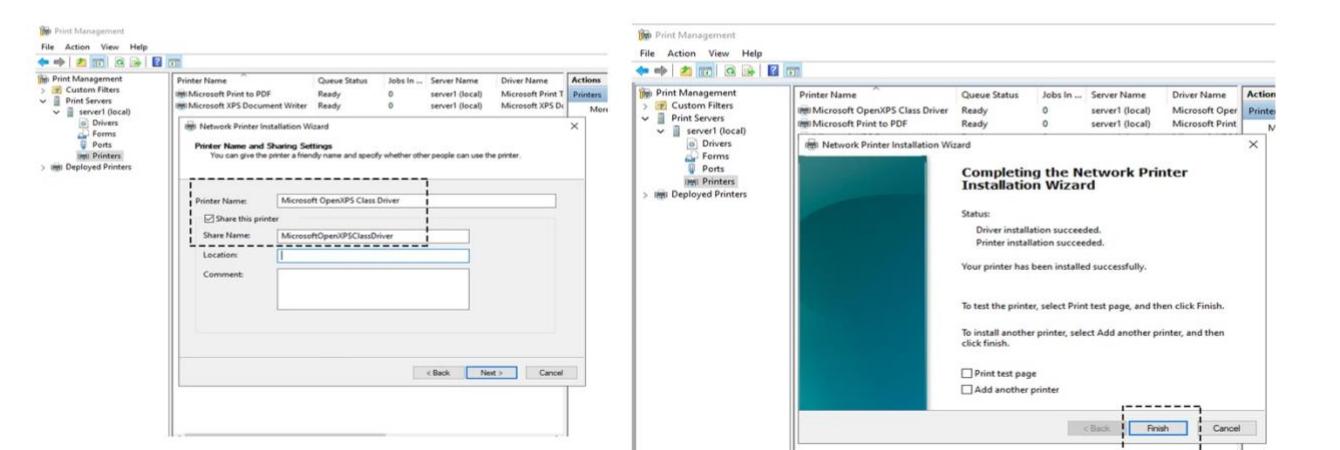
2. Adding new printer on print management console and setting ip an IP address



3. Selecting printer from the list



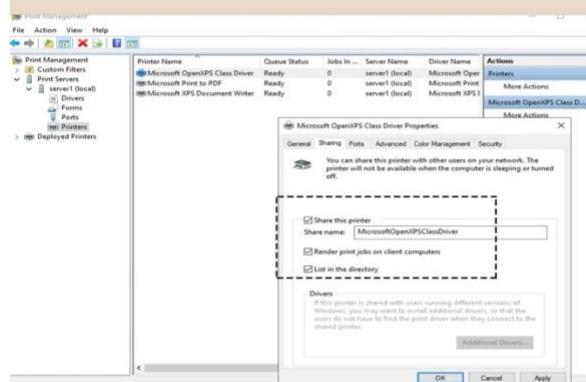
4. Setting up printing name and sharing name and completing installation



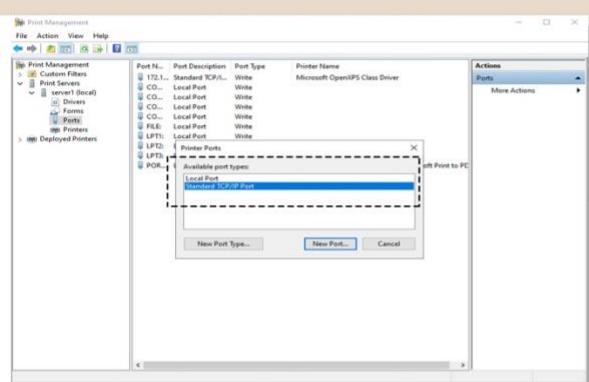
PART 5C-Challenge task

Part -5c

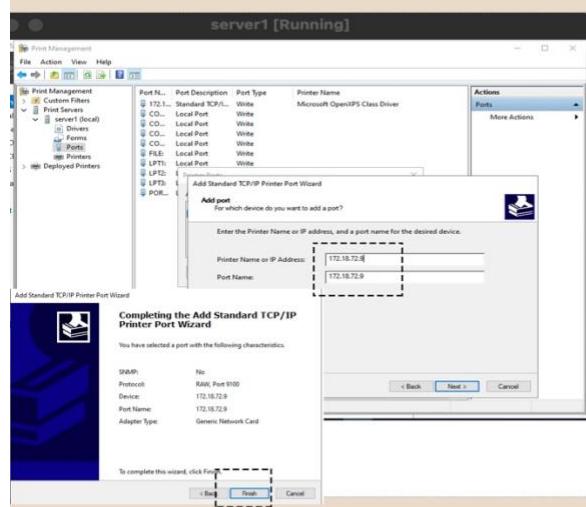
1. Enabling sharing feature on the created printer



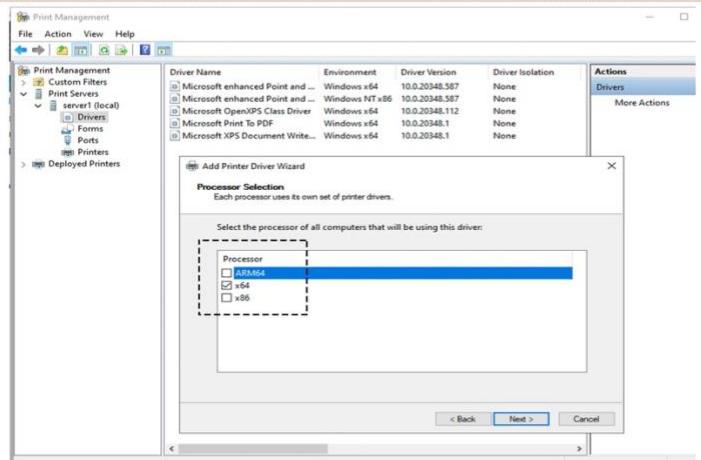
2. Setting up new port for the printer.



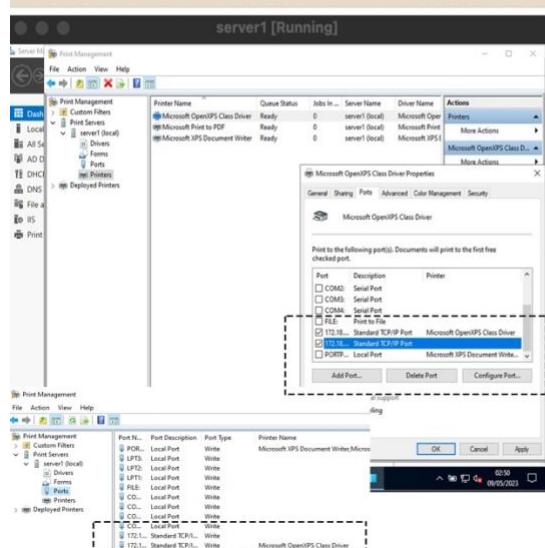
3. Setting up IP address for the created port.



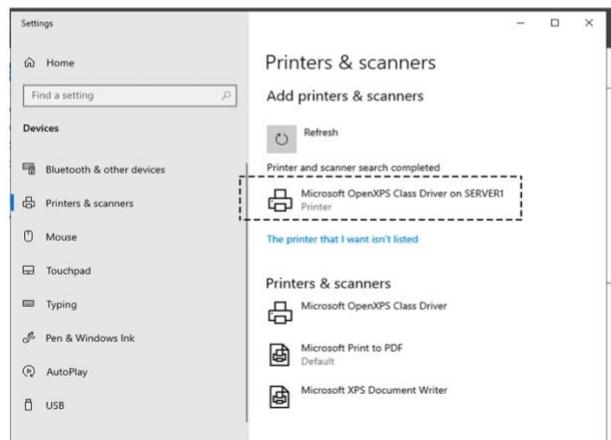
4,Adding new driver x64.



5. On the priter properties tab adding the created port



6. On the Accounting user setting tab, we can see that the printer has been added successfully

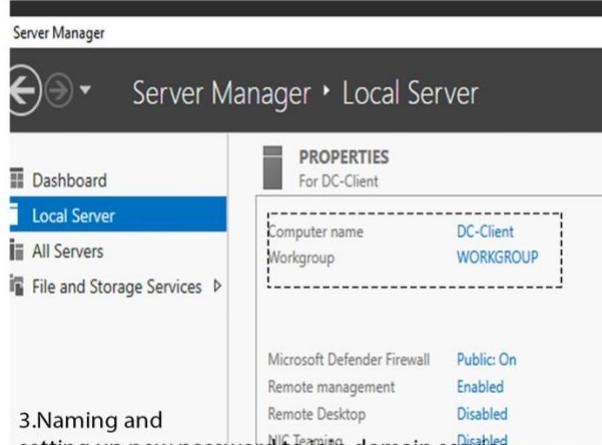


PART 6-Challenge task

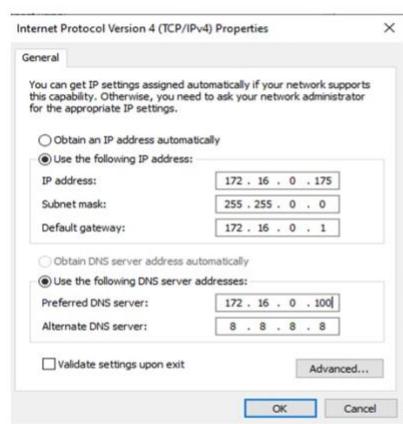
Part 6

1. Created a VM and renamed it as DC-CLIENT

2. Setting up IP Address for DC-CLIENT



3. Naming and setting up new password to join domain service.



3. On the powershell usong the dollowing cmd Get-Help-Install-ADDSForest we can find how to change server to domain.

```
PS C:\Users\Administrator> Install-WindowsFeature -Name AD-Domain-Services -IncludeManagementTools
Success Restart Needed Exit Code      Feature Result
True    No          Success          {Active Directory Domain Services, Group P...}

PS C:\Users\Administrator> Get-Help ADDSForest
Name           Category   Module          Synopsis
Test-ADDSForest Cmldlet   ADDSDeployment Test-ADDSFor...
Install-ADDSForest Cmldlet   ADDSDeployment Install-ADDS...

PS C:\Users\Administrator> Get-Help Install-ADDSForest
NAME
  Install-ADDSForest

SYNTAX
  Install-ADDSForest [-DomainName <string>] [-SkipPreChecks]
  [-SafeModeAdministratorPassword <securestring>] [-CreateDnsDelegation]
  [-DatabasePath <string>] [-DnsDelegationCredential <pscredential>]
  [-NoDnsOnNetwork] [-DomainMode {Win2008 | Win2008R2 | Win2012 | Win2012R2 |
  WinThreshold | Default}] [-DomainNetbiosName <string>] [-ForestMode {Win2008 |
  Win2008R2 | Win2012 | Win2012R2 | WinThreshold | Default}] [-InstallDns]
  [-LogPath <string>] [-NoRebootOnCompletion] [-SkipAutoConfigureDns] [-SysvolPath
  <string>] [-Force] [-WhatIf] [-Confirm] [<CommonParameters>]

ALIASES
  None

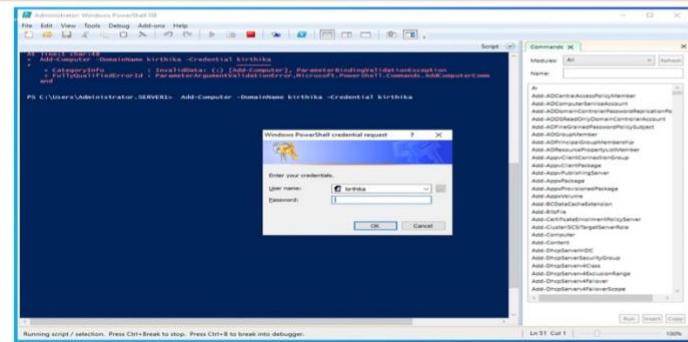
REMARKS
  Get-Help cannot find the Help files for this cmdlet on this computer. It is
  displaying only partial help.
  -- To download and install Help files for the module that includes this
  cmdlet, use Update-Help.

PS C:\Users\Administrator>
```

1. JEntering the below line on the powershell.

```
Administrator: Install-ADForest -DomainName "CCT.COM" -DomainMode Win2012 -ForestMode Win2012 -DomainNetBiosName "CCT" -CreateDsDelegation:$false -InstallDS:$true -DatabasePath "C:\Windows\NTDS" -LogPath "C:\Windows\NTDS" -SysvolPath "C:\Windows\SYSVOL" -Force:$true -NoBootOnCompletion:$false  
Administrator: Install-ADForest -DomainName "CCT.COM" -DomainMode Win2012 -ForestMode Win2012 -DomainNetBiosName "CCT" -CreateDsDelegation:$false -InstallDS:$true -DatabasePath "C:\Windows\NTDS" -LogPath "C:\Windows\NTDS" -SysvolPath "C:\Windows\SYSVOL" -Force:$true -NoBootOnCompletion:$false  
Administrator: Install-ADForest -DomainName "CCT.COM" -DomainMode Win2012 -ForestMode Win2012 -DomainNetBiosName "CCT" -CreateDsDelegation:$false -InstallDS:$true -DatabasePath "C:\Windows\NTDS" -LogPath "C:\Windows\NTDS" -SysvolPath "C:\Windows\SYSVOL" -Force:$true -NoBootOnCompletion:$false  
Administrator: Install-ADForest -DomainName "CCT.COM" -DomainMode Win2012 -ForestMode Win2012 -DomainNetBiosName "CCT" -CreateDsDelegation:$false -InstallDS:$true -DatabasePath "C:\Windows\NTDS" -LogPath "C:\Windows\NTDS" -SysvolPath "C:\Windows\SYSVOL" -Force:$true -NoBootOnCompletion:$false
```

2.After entering the command user asked to enter the credentials



3. Installing AD service

```
Administrator: Install-ADForest -DomainName "CCT.COM" -DomainMode Win2012 -ForestMode Win2012 -DomainNetBiosName "CCT" -CreateDsDelegation:$false -InstallDS:$true -DatabasePath "C:\Windows\NTDS" -LogPath "C:\Windows\NTDS" -SysvolPath "C:\Windows\SYSVOL" -Force:$true -NoBootOnCompletion:$false  
Administrator: Install-ADForest -DomainName "CCT.COM" -DomainMode Win2012 -ForestMode Win2012 -DomainNetBiosName "CCT" -CreateDsDelegation:$false -InstallDS:$true -DatabasePath "C:\Windows\NTDS" -LogPath "C:\Windows\NTDS" -SysvolPath "C:\Windows\SYSVOL" -Force:$true -NoBootOnCompletion:$false  
Administrator: Install-ADForest -DomainName "CCT.COM" -DomainMode Win2012 -ForestMode Win2012 -DomainNetBiosName "CCT" -CreateDsDelegation:$false -InstallDS:$true -DatabasePath "C:\Windows\NTDS" -LogPath "C:\Windows\NTDS" -SysvolPath "C:\Windows\SYSVOL" -Force:$true -NoBootOnCompletion:$false
```

4. Current account has been signedout and domain server has been created

