

WORKING ON THE ONENOTE SOFTWARE

The screenshot shows the OneNote application window with a document titled 'VM1-DC'. The document content is as follows:

Server Name: VM1
January 7, 2020 1:48 PM

OS: Microsoft Windows Server 2016 (64-bit)
CPU: 4 sockets, with 1 core each
RAM: 16GB RAM
Hard Drive: 4 * 40GB
Remote Desktop Enable: Yes

Network Configuration:

- Ethernet{0}
 - o IP Address: 10.157.121.26
 - o Subnet mask: 255.255.254.0
 - o Default Gateway: 10.157.120.1
 - o DNS Servers: 127.0.0.1
- Ethernet{1}
 - o IP Address: 192.168.21.1
 - o Subnet mask: 255.255.255.0
 - o Default Gateway:
 - o DNS Servers: 127.0.0.1

Key Users

administrator@minh.local (password: Minh1996S)
email: minhcoireal1996@gmail.com
phone number: (506)-961-6728

Virtualization Details

Host: nbcc-ac-esx02.cc.loc
Storage Array: all hard drives on NBCC_AC_Students_VM3
Virtual Networks:

- Ethernet{1} is on Moncton_Lab_21
- Ethernet{0} is on NBCC-AC-Moncton-120

Roles:
Role installed:

SCRIPT FOR DHCP SCOPE CONFIGURING ON WINDOWS SERVER

The screenshot shows the Windows PowerShell ISE window with a script titled 'Untitled1.ps1'. The script is as follows:

```
1 $check = Get-WindowsFeature | Where-Object {$_.Name -eq "DHCP"}
2 if ($check.Installed -ne "True") {
3   Add-WindowsFeature dhcp | Out-Null
4 }
5 write-host "What network address would you like to configure a scope for?"
6 $net = Read-Host
7 Write-host "What is the first IP address in the scope?"
8 $first = Read-Host
9 Write-host "What is the last IP address in the scope?"
10 $last = Read-Host
11 Write-host "What is the subnet mask?"
12 $sm = read-host
13 Add-DhcpServerv4Scope -Name $net -StartRange $first -EndRange $last -SubnetMask $sm -Description "Scope"
14 Write-host "Would you like to activate the scope? (yes or no)"
15 $confirm = read-host
16 If ($confirm -eq "yes") {
17   Set-DhcpServerv4Scope -ScopeId $net -State active
18 }
19 Write-host "Would you like to authorized the scope in AD? (yes or no)"
20 $confirm2 = Read-Host
21 If ($confirm2 -eq "yes") {
22   Add-dhcp server in DC
23 }
```

The output of the script execution is shown in the console window:

```
PS C:\Users\Administrator.MINH>
PS C:\Users\Administrator.MINH>
PS C:\Users\Administrator.MINH> C:\Users\Administrator.MINH\Desktop\Untitled1.ps1
What network address would you like to configure a scope for?
192.168.24.0
What is the first IP address in the scope?
192.168.24.1
What is the last IP address in the scope?
192.168.24.254
What is the subnet mask?
255.255.255.0
Would you like to activate the scope? (yes or no)
yes
Would you like to authorized the scope in AD? (yes or no)
yes
PS C:\Users\Administrator.MINH>
```

WORKING ON LINUX PARTITION

```
student@localhost:~  
0 dump disk layout to sfdisk script file  
  
Save & Exit  
w write table to disk and exit  
q quit without saving changes  
  
Create a new label  
g create a new empty GPT partition table  
G create a new empty SGI (IRIX) partition table  
o create a new empty DOS partition table  
s create a new empty Sun partition table  
  
Command (m for help): d  
Partition number (1-4, default 4): 4  
  
Partition 4 has been deleted.  
  
Command (m for help): n  
Partition type  
p primary (3 primary, 0 extended, 1 free)  
e extended (container for logical partitions)  
Select (default e): p  
  
Selected partition 4  
First sector (3026944-33554431, default 3026944):  
Last sector, +/-sectors or +/-size{K,M,G,T,P} (3026944-33554431, default 33554431): +3G  
  
Created a new partition 4 of type 'Linux' and of size 3 GiB.
```

```
student@localhost:~  
[2] 15484  
bash: Xbill: command not found...  
Similar command is: 'xbill'  
[2]+ Exit 127 Xbill  
[student@localhost ~]$  
[student@localhost ~]$  
[student@localhost ~]$ lsblk  


| NAME                            | MAJ:MIN | RM | SIZE  | RO | TYPE | MOUNTPOINT |
|---------------------------------|---------|----|-------|----|------|------------|
| sda                             | 8:0     | 0  | 40G   | 0  | disk |            |
| ├─sda1                          | 8:1     | 0  | 1G    | 0  | part | /boot      |
| ├─sda2                          | 8:2     | 0  | 39G   | 0  | part |            |
| │ └─fedora_localhost--live-root | 253:0   | 0  | 35G   | 0  | lvm  | /          |
| │ └─fedora_localhost--live-swap | 253:1   | 0  | 4G    | 0  | lvm  | [SWAP]     |
| sdb                             | 8:16    | 0  | 16G   | 0  | disk |            |
| ├─sdb1                          | 8:17    | 0  | 477M  | 0  | part |            |
| ├─sdb2                          | 8:18    | 0  | 500M  | 0  | part |            |
| │ └─vg00-volume1                | 253:2   | 0  | 252M  | 0  | lvm  |            |
| │ └─vg00-volume2                | 253:3   | 0  | 100M  | 0  | lvm  |            |
| ├─sdb3                          | 8:19    | 0  | 500M  | 0  | part |            |
| └─sdb4                          | 8:20    | 0  | 800M  | 0  | part |            |
| sdc                             | 8:32    | 0  | 16G   | 0  | disk |            |
| ├─sdc1                          | 8:33    | 0  | 16G   | 0  | part |            |
| sdd                             | 8:48    | 0  | 16G   | 0  | disk |            |
| ├─sdd1                          | 8:49    | 0  | 16G   | 0  | part |            |
| sde                             | 8:64    | 0  | 16G   | 0  | disk |            |
| ├─sde1                          | 8:65    | 0  | 5G    | 0  | part |            |
| └─sde2                          | 8:66    | 0  | 11G   | 0  | part |            |
| sr0                             | 11:0    | 1  | 1024M | 0  | rom  |            |

  
[student@localhost ~]$
```

```

#
# /etc/fstab
# Created by anaconda on Tue Jan 21 09:32:08 2020
#
# Accessible filesystems, by reference, are maintained under '/dev/disk/'.
# See man pages fstab(5), findfs(8), mount(8) and/or blkid(8) for more info.
#
# After editing this file, run 'systemctl daemon-reload' to update systemd
# units generated from this file.
#
/dev/mapper/fedora_localhost--live-root / ext4 defaults 1 1
UUID=92b0b489-0f56-4b77-9955-8ced62cbd246 /boot ext4 defaults 1 2
/dev/mapper/fedora_localhost--live-swap none swap defaults 0 0
/dev/volgroup/DATA /media/DATA ext4 defaults 0 0
/dev/volgroup/Documents /media/Documents ntfs defaults 0 0
/dev/volgroup/Software /media/Software vfat defaults 0 0
//10.152.70.149/linux /media/linux cifs rw,credentials=/etc/samba/netcred 0 0

```

ManageEngine
ADSelfService plus

Welcome, admin
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[Organization Chart](#) | [License](#) | [Help](#) | [Talk Back](#)

▼ Search Employee 🔍

Dashboard Reports Configuration Admin Support Domain Settings

Self-Service ▲

Administrative Tools ▼

- Quick Enrollment
- Self Update Layout
- Gina (Ctrl+Alt+Del)
- Technicians
- Password Synchronizer
- External Data Sources
- Security Center** ▲

Policy Configuration

Build Self-Service Policies. Decide what self-service features users must avail.

Password Self-Service Modes

Self-Service Features : [Reset Password](#) | [Unlock Account](#) | [Self Update](#) | [Change Password](#)

Click "Add New Policy" Button to add a new policy. To edit an existing policy, click on [✎] icon in the Actions column.

Available Policies ➕ Add New Policy

Actions	Advanced	Policy Name	Permissions	Domain Name
✎ ✖	⚙️	Policy1	Reset Password, Unlock Account, Self Update, Change Password	example.com
✎ ✖	⚙️	Policy2	Reset Password, Unlock Account, Self Update, Change Password	example.com

💡 Need New Features ?

SCRIPT FOR CONFIGURING DHCP ON LINUX OS

```
#
# DHCP Server Configuration file.
#   see /usr/share/doc/dhcp*/dhcpcd.conf.sample
#   see 'man 5 dhcpcd.conf'
#

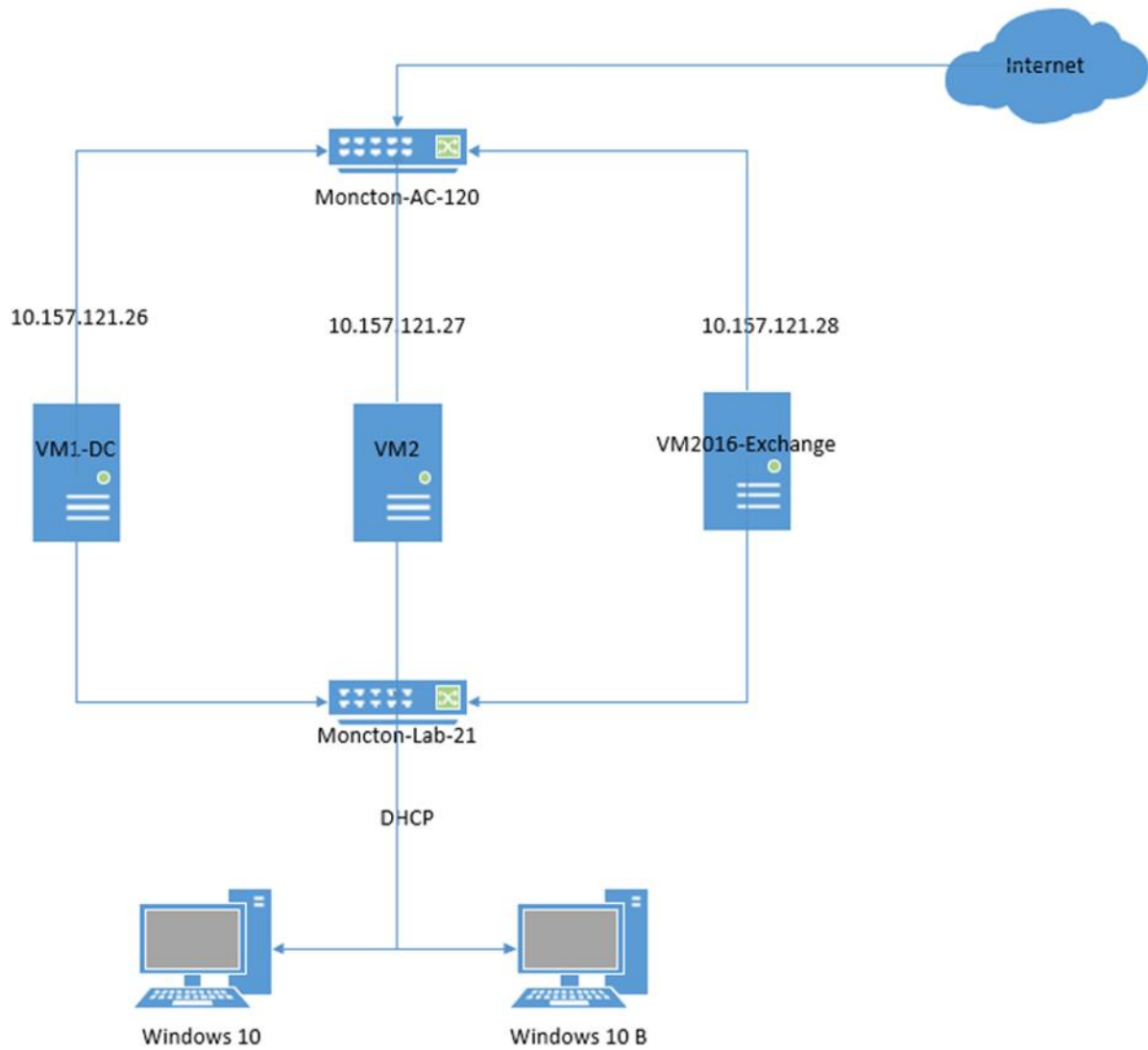
option rfc3442-classless-static-routes code 121 = array of integer 8;
option ms-classless-static-routes code 249 = array of integer 8;

option domain-name "vmware.lab";
option domain-name-servers 8.8.8.8;
default-lease-time 600;
max-lease-time 7200;
authoritative;

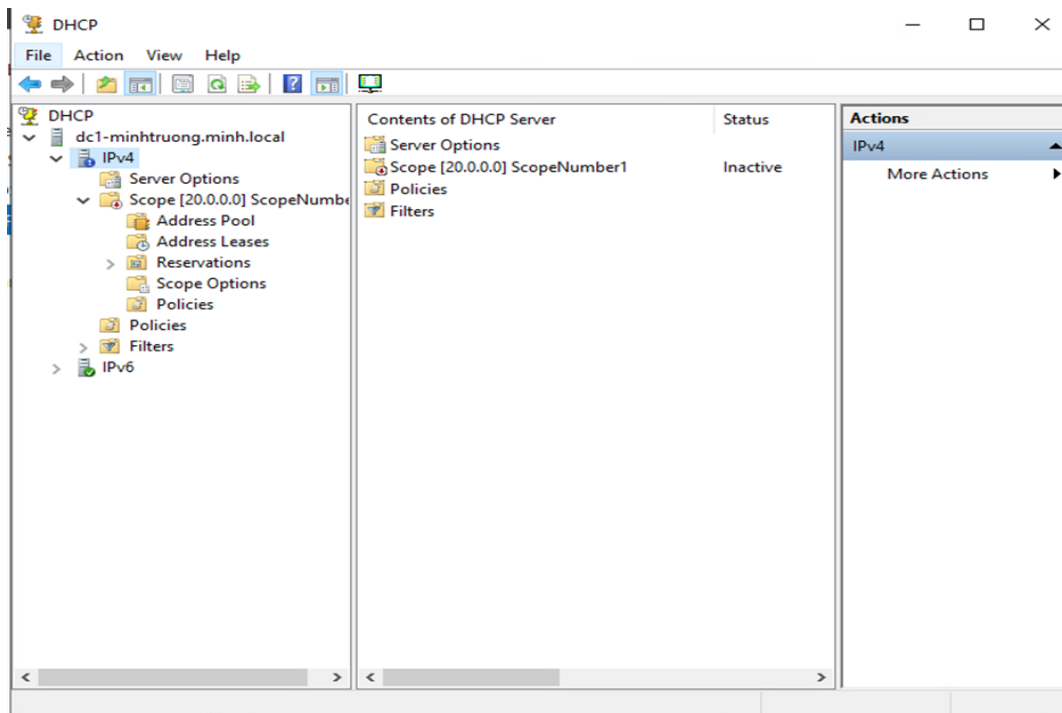
subnet 192.168.1.0 netmask 255.255.255.0 {
    range 192.168.1.201 192.168.1.220;
    option broadcast-address 192.168.1.255;
    option routers 192.168.1.129;
    option ms-classless-static-routes 24, 8, 8, 8, 192, 168, 1, 129,
                                       24, 216, 58, 199, 192, 168, 1, 129,
                                       24, 31, 13, 95, 192, 168, 1, 129;
    option rfc3442-classless-static-routes 24, 8, 8, 8, 192, 168, 1, 129,
                                           24, 216, 58, 199, 192, 168, 1, 129,
                                           24, 31, 13, 95, 192, 168, 1, 129;
}

subnet 192.168.255.0 netmask 255.255.255.0 {
    range 192.168.255.150 192.168.255.200;
    option broadcast-address 192.168.255.255;
    option routers 192.168.255.2;
    option ms-classless-static-routes 24, 8, 8, 8, 192, 168, 255, 129,
                                       24, 216, 58, 199, 192, 168, 255, 129,
                                       24, 31, 13, 95, 192, 168, 255, 129;
    option rfc3442-classless-static-routes 24, 8, 8, 8, 192, 168, 255, 129,
                                           24, 216, 58, 199, 192, 168, 255, 129,
                                           24, 31, 13, 95, 192, 168, 255, 129;
}
```

WORKING ON THE DRAWING THE DIAGRAM BY VISUAL SOFTWARE



CONFIGURE DHCP SERVER



CONFIGURE DHCP SCOPE BY USING POWERSHELL COMMANDS

