**LAB-TASK (CEFALO)**

1. Install a virtualization software of your choice (VMware/VirtualBox/others).

* Installed VMWare workstation Pro 17 with crack license
* Add a virtual network card to make this a “Virtual switch”

1. Create a VM and install MikroTik Router OS on it.  
     
   - Created a VM for Mikrotik and added two v-NIC (one for WAN and other for LAN as per the req)   
   - Downloaded the ISO file from the Mikrotik website

**2a.** Please find the configuration attachment

1. Created a NEW VM for Client   
   - OS : Windows 10  
   - RAM: 4GB  
   - Disk Size: 30 GB  
   - Core: 2  
   - One NIC – 10.10.10.x/24
2. Created a NEW VM for the Server   
   a)  
   - OS : Centos 7  
   - RAM: 4GB  
   - Disk Size: 50 GB  
   - Core: 2  
   - One NIC – 10.10.10.x/24  
   b)  
   - webserver configured as per the req (apache)  
   - Client machine accessed the webserver from a browser by using webserver.cefalo-bd.com  
   **c)**- Enabled the SSH server on the Linux machine with port 2512, and kept root access disabled. (by editing the sshd.conf file  
   - allowed the port and services in the firewall  
     
   **d)**  
   - Created a folder named “Copy-me on” the Windows-10/11 CLIENT NODE's desktop that needs to be transferred to the Linux machine's web server root folder. By scp command  
   (scp -P 2512 -r ~/Desktop/copy-me username@webserver.cefalo-bd.com:/var/www/html/)  
   I can also use WinSCP software in the Windows 10 Client Machine
3. Split the CLIENT machine’s C drive into two partitions.  
   - By using disk management >shrink
4. Created a linked-clone of the CLIENT, and named it CLIENT-CLONE. This Windows machine was accessible remotely through Remote Desktop Protocol (RDP) with port 3339.  
   - Using the VMWare workstation pro tool to clone the machine  
   - then enable RDP in the clone  
   - Accessed from the host PC by using Remote Desktop tool

Regards,   
Imran Hossain