As Windows Server Administrator, you are asked to design and install computer system for company called DDP hf, where 550 employees work in. You need to set up a Domain Controller as well as set up a DHCP (IPv4), DNS and other services.

All below tasks are done using PowerShell.

1. Rename the server to dc1 and windows 10 client to client1. (5%)
2. Rename the network adapters on the server, the adapter configured with the 10.x.x.x should have name "Public" and the other should be have the name "Private". (5%)
3. Configure the private adapter with a static ipv4 addresses, and DNS address, the server should get **the last usable IP Address** from **172.16.16.0/22**. (10%)
4. Install AD DS roles and promote the server to a domain controller, use “**ddp-yourName.local**” for doamin name. (10%)
5. Install and configure DHCP, for DHCP use the entire /24 range then **exclude the last 10 ip address**. (10%)
6. Join the client computer to a domain. (10%)
7. Create PowerShell script that will automate the creation of the OUs, Groups and Users, add the users to their appropriate Groups. (30%)
8. Use the script in question 7 to create a home directory for each user under ' “ “**C:\ddp\_Users**”. (20%)

**Hint:** you can use the following variables:

**$HomeDrive = 'H:'**

**$UserRoot = '\\dc1\ddp\_users'**

**$FolderRoot = 'C:\ddp\_users'**

to create the home directory, use the cmdlets

" **New-Item -Path $HomeDirectory -Type directory -force;** "

New-ADuser parameters: **-HomeDrive**

**-HomeDirectory**

