

Task no : 7

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Section = 5B

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Lab 7

Assigning IP Address to a Network (Dynamically/DHCP, using Command)

1. Repeat Steps "1" to "8" from Lab 6, After that stay in CLI, in "router(config)#".

```
Router#config terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#
Router(config)#

Ctrl+F6 to exit CLI focus

Copy

Paste
```

- 2. Write commands:
 - 2.1. ip dhcp excluded-address [start ip address] [end ip address] like: ip dhcp excluded-address 192.168.1.2 192.168.1.10

(optional command, if you want to keep some IP Addresses separate, not to be assigned by DHCP)

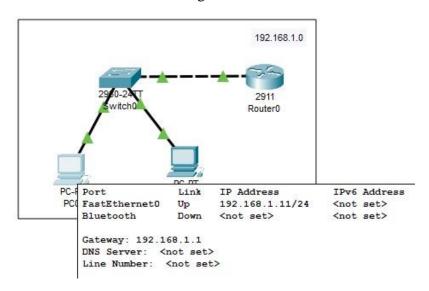
- 2.2. ip dhcp pool [CustomPoolName] like: ip dhcp pool Network192
- 2.3. network [NetworkID] [Subnet Mask] like: network 192.168.1.0 255.255.255.0
- 2.4. default-router [Router IP Address] like: default-router 192.168.1.1

(This was assigned in "Lab 6" content)

2.5. Lastly, to exit from this "router(dhcp-config)#" just type "exit"

```
Router#config terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#
Router(config)#ip dhcp excluded-address 192.168.1.2 192.168.1.10
Router(config)#ip dhcp pool Network192
Router(dhcp-config)#network 192.168.1.0 255.255.255.0
Router(dhcp-config)#default-router 192.168.1.1
Router(dhcp-config)#exit
Router(config)#
```

3. Now, configure IP addresses to be DHCP, like we did in "Lab-4, Step 8 to 10" and afterwards hover over the PCs to check if the IP is configured or not



4. Now, to check connection between PCs and Router, execute "ping" & "telnet" commands

Computer Networks

Rasikh Ali

Lab 7 - Task

Task 1;

Design network of "Lab-7" or "Lab-8" (2-3 rows of computers) Use:

- Switch (1)
- Router (1)
- End-Devices like Laptop/PC

Assign IP Address (167.158.15.0) using Command for Router. And Dynamically (DHCP-Router) for End-Devices

