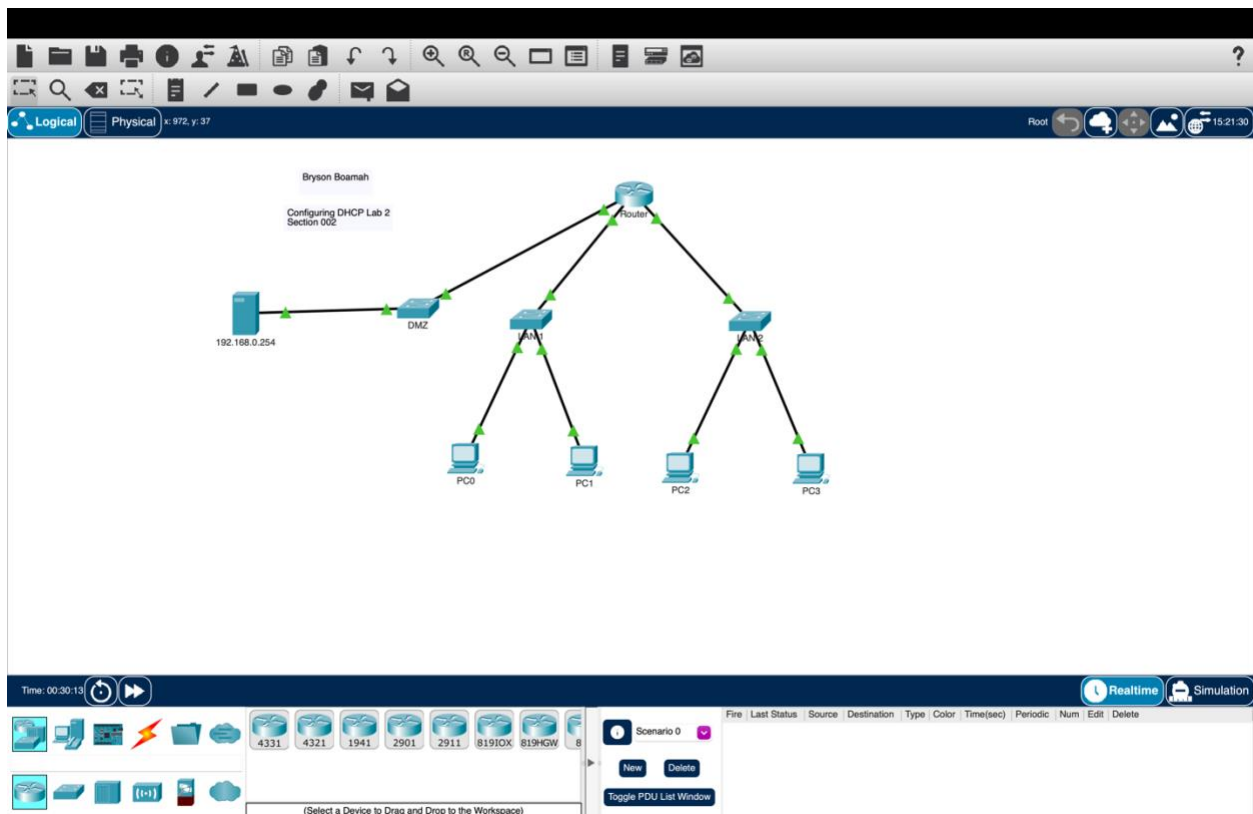


Networking Infrastructure Management

Configuring DHCP Lab 2

Complete the DHCP Lab 2 and submit the following screenshots. Ensure all screenshots are viewable.

1. The network diagram includes the router, three switches, a server, and four PCs. The statically assigned interfaces are annotated. Student's name, section number, and lab number are shown.



2. The 'show run' command displays the three router interfaces with valid assigned IP and the ip helper-addresses. Hit 'enter' several times until the configuration is displayed.

Cisco Packet Tracer File Edit Options View Tools Extensions Window Help Wed Oct 29 6:38 PM

PC0

IP Configuration

Interface: FastEthernet0

IP Configuration

☒ DHCP ☐ Static DHCP request successful.

IPv4 Address: 192.168.1.3

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.1.1

DNS Server: 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address: /

Link Local Address: FE80::2E0:A3FF:FEDA:47BA

Default Gateway:

DNS Server:

802.1X

☐ Use 802.1X Security

Authentication: MD5

Username:

Password:

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PC1

IP Configuration

Interface: FastEthernet0

IP Configuration

☒ DHCP ☐ Static

IPv4 Address: 192.168.1.2

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.1.1

DNS Server: 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address: /

Link Local Address: FE80::2D0:BCFF:FE84:96C9

Default Gateway:

DNS Server:

802.1X

☐ Use 802.1X Security

Authentication: MD5

Username:

Password:

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PC2

IP Configuration

InterfaceFastEthernet0

IP Configuration

DHCP

Static

DHCP request successful.

IPv4 Address192.168.2.3

Subnet Mask255.255.255.0

Default Gateway192.168.2.1

DNS Server0.0.0.0

IPv6 Configuration

Automatic

Static

IPv6 Address

Link Local AddressFE80::290:21FF:FEA9:2513

Default Gateway

DNS Server

802.1X

Use 802.1X Security

AuthenticationMD5

Username

Password

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PC3

IP Configuration

InterfaceFastEthernet0

IP Configuration

DHCP

Static

DHCP request successful.

IPv4 Address192.168.2.2

Subnet Mask255.255.255.0

Default Gateway192.168.2.1

DNS Server0.0.0.0

IPv6 Configuration

Automatic

Static

IPv6 Address

Link Local AddressFE80::202:4AFF:FEC2:E503

Default Gateway

DNS Server

802.1X

Use 802.1X Security

AuthenticationMD5

Username

Password

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- | | Physical | Config | <u>CLI</u> | Attributes |
|---|----------|--------|------------|------------|
| IOS Command Line Interface | | | | |
| <pre> Router(config-router)#end Router#configure terminal Enter configuration commands, one per line. End with CNTL/Z. Router(config)#interface FastEthernet0/0 Router(config-if)# N9Y9-S-COMPIS_1 Configured from console by console Router(config-if)#exit Router(config)#interface FastEthernet0/0 Router(config-if)# ip dhcp pool LAN1 Router(dhcp-config)# network 192.168.1.1 255.255.255.0 Router(dhcp-config)# default-router 192.168.1.1 Router(dhcp-config)# dns-server 8.8.8.8 Router(dhcp-config)# exit Router(config)# ip dhcp pool LAN2 Router(dhcp-config)# network 192.168.2.1 255.255.255.0 Router(dhcp-config)# default-router 192.168.2.1 Router(dhcp-config)# dns-server 8.8.8.8 Router(dhcp-config)# exit Router(config)#? Router# N9Y9-S-COMPIS_1 Configured from console by console Router# show run Building configuration... Current configuration : 1137 bytes ! version 12.2 no service timestamps log datetime msec no service timestamps debug datetime msec no service password-encryption hostname Router ! ! ! ! ip dhcp pool LAN1 network 192.168.1.0 255.255.255.0 default-router 192.168.1.1 dns-server 8.8.8.8 ip dhcp pool LAN2 network 192.168.2.0 255.255.255.0 default-router 192.168.2.1 dns-server 8.8.8.8 ! ! no ip cef no ipv6 cef ! ! ! ! ! ! ! ! ! ! interface FastEthernet0/0 ip address 192.168.0.1 255.255.255.0 ! Router# </pre> | | | | |
| | | | | Copy Paste |

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