

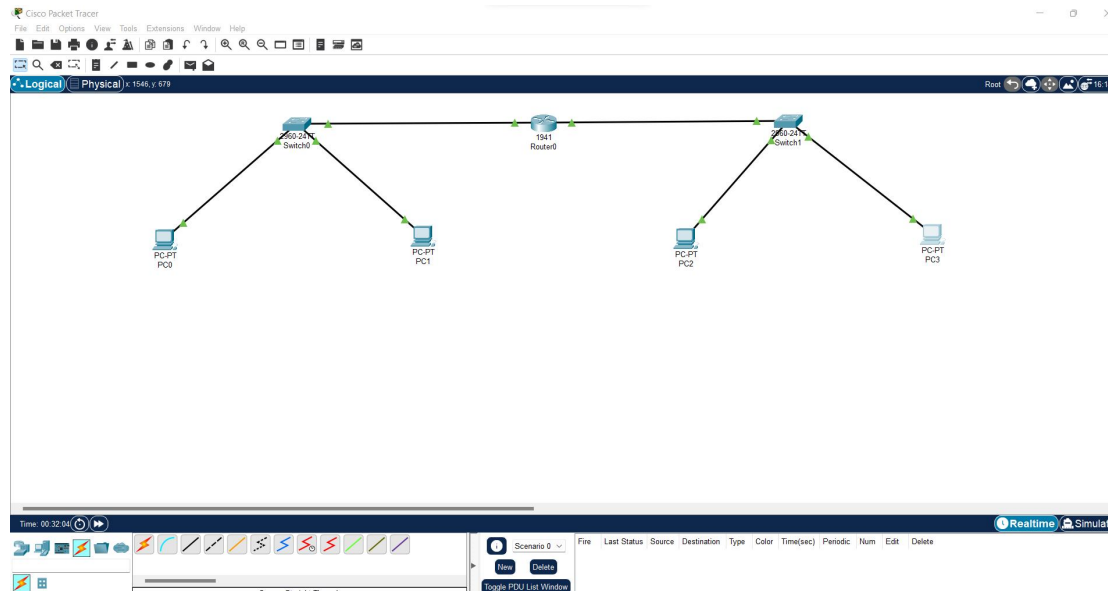
NAME: KOMAL MAHESH CHITNIS

MOODLE ID: 20102068

ROLL NO. 26

DIV: A

EXPERIMENT NO. 9



Router0

Physical Config CLI Attributes

IOS Command Line Interface

```
Router>enable
Router#conf t
Translating "conf t"...domain server (255.255.255.255)
% Unknown command or computer name, or unable to find computer address

Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface gigabitethernet 0/0
Router(config-if)#ip address 192.168.1.1 255.255.255.0
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed
state to up

Router(config-if)#exit
Router(config)#interface gigabitethernet 0/1
Router(config-if)#ip address 192.168.2.1 255.255.255.0
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed
state to up

Router(config-if)#exit
```

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Router0

Physical Config CLI Attributes

IOS Command Line Interface

```

Router(config)#ip dhcp pool LAN1
Router(dhcp-config)#network 192.168.1.0 255.255.255.0
Router(dhcp-config)#default-router 192.168.1.1
Router(dhcp-config)#dns-server 192.168.1.1
Router(dhcp-config)#exit
Router(config)#ip dhcp excluded-address 192.168.1.1
Router(config)#ip dhcp pool LAN2
Router(dhcp-config)#network 192.168.2.0 255.255.255.0
Router(dhcp-config)#default-router 192.168.2.1
Router(dhcp-config)#dns-server 192.168.2.1
Router(dhcp-config)#exit
Router(config)#ip dhcp excluded-address 192.168.2.1
Router(config)#end
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#wr
Building configuration...
[OK]
Router#show ip dhcp binding

```

IP address	Client-ID/ Hardware address	Lease expiration	Type
192.168.1.2	000C.CF2C.EADE	--	Automatic
192.168.1.3	00E0.F702.9089	--	Automatic
192.168.2.2	00E0.B09A.5E9A	--	Automatic
192.168.2.3	0050.0F2E.8594	--	Automatic

```

Router#show ip dhcp pool

Pool LAN1 :
Utilization mark (high/low)      : 100 / 0

```

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Router0

Physical Config CLI Attributes

IOS Command Line Interface

```

192.168.2.2      00E0.B09A.5E9A      --      Automatic
192.168.2.3      0050.0F2E.8594      --      Automatic
Router#show ip dhcp pool

```

```

Pool LAN1 :
Utilization mark (high/low)      : 100 / 0
Subnet size (first/next)         : 0 / 0
Total addresses                  : 254
Leased addresses                 : 2
Excluded addresses               : 2
Pending event                   : none

1 subnet is currently in the pool
Current index      IP address range      Leased/Excluded/
Total
192.168.1.1        192.168.1.1      - 192.168.1.254    2    / 2    / 254

Pool LAN2 :
Utilization mark (high/low)      : 100 / 0
Subnet size (first/next)         : 0 / 0
Total addresses                  : 254
Leased addresses                 : 2
Excluded addresses               : 2
Pending event                   : none

1 subnet is currently in the pool
Current index      IP address range      Leased/Excluded/
Total
192.168.2.1        192.168.2.1      - 192.168.2.254    2    / 2    / 254
Router#

```

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PC0

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☒ DHCP ☐ Static

IPv4 Address 169.254.234.222

Subnet Mask 255.255.0.0

Default Gateway 0.0.0.0

DNS Server 192.168.1.1

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address /

Link Local Address FE80::20C:CFFF:FE2C:EADE

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication MD5

Username

Password

☐ Top

PC1

Physical Config **Desktop** Programming Attributes

IP Configuration X

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 192.168.1.1

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address /

Link Local Address FE80::2E0:F7FF:FE02:9089

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication MD5

Username

Password

☐ Top

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0 ▾

IP Configuration

☒ DHCP ☐ Static

IPv4 Address 192.168.2.2

Subnet Mask 255.255.255.0

Default Gateway 192.168.2.1

DNS Server 192.168.2.1

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address /

Link Local Address FE80::2E0:B0FF:FE9A:5E9A

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication MD5 ▾

Username

Password

☐ Top

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0 ▾

IP Configuration

☒ DHCP ☐ Static

IPv4 Address 192.168.2.3

Subnet Mask 255.255.255.0

Default Gateway 192.168.2.1

DNS Server 192.168.2.1

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address /

Link Local Address FE80::250:FFF:FE2E:8594

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication MD5 ▾

Username

Password

☐ Top