



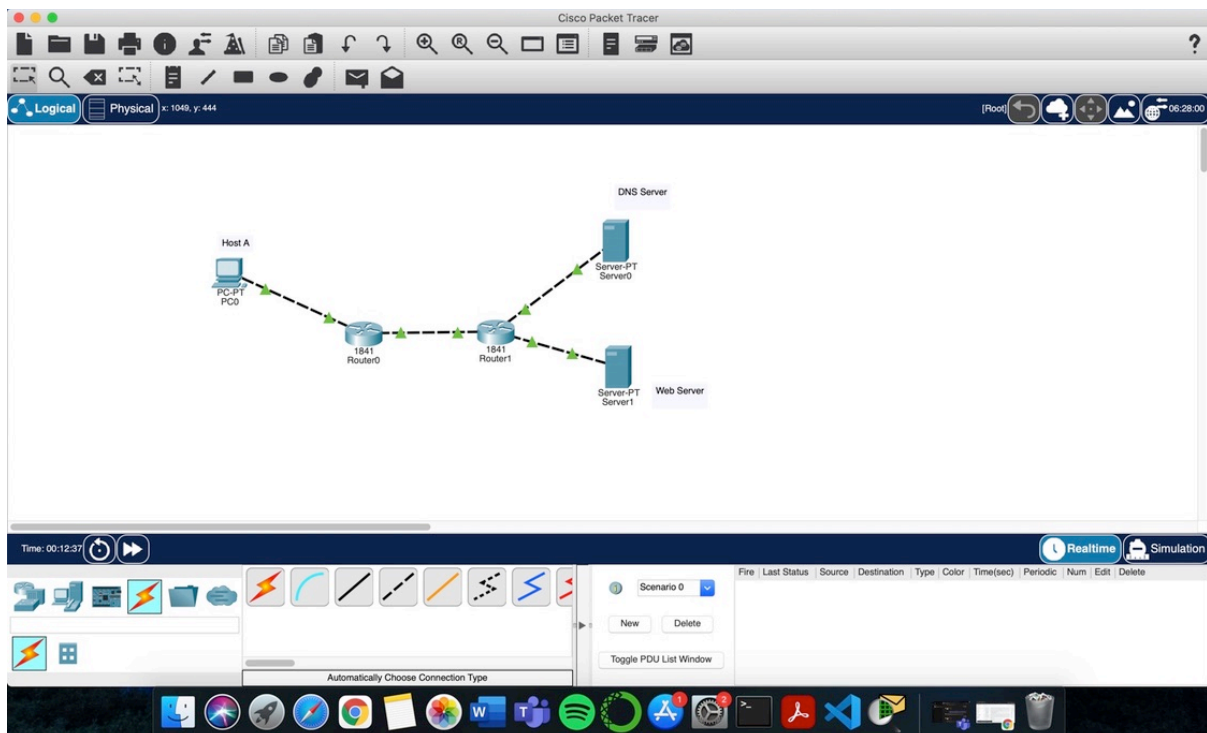
COMPUTER NETWORKS LAB WEEK – 7

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EXPERIMENT : Understand the life of packet in Internet

CONFIGURATION : (TOPOLOGY)

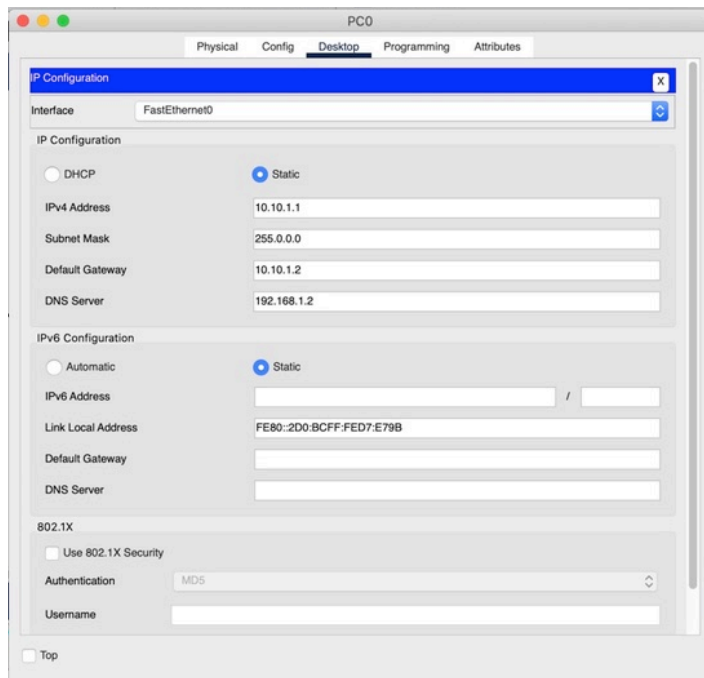


HOST A CONFIGURATION :

HOST A : IP Address ---> 10.10.1.1

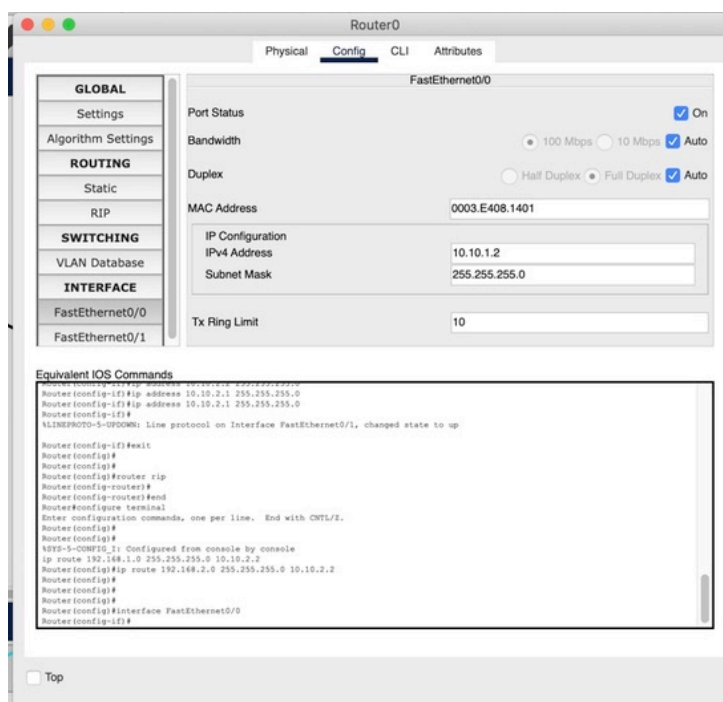
Gateway -----> 10.10.1.2

DNS Server ---> 192.168.1.2



ROUTER 0 CONFIGURATION :

ROUTER 1 : Incoming Interface IP --> 10.10.1.2 (Fast ethernet 0)
 Outgoing Interface IP --> 10.10.2.1 (Fast ethernet 1)



Router0

Physical **Config** CLI Attributes

GLOBAL

- Settings
- Algorithm Settings
- ROUTING**
- Static
- RIP
- SWITCHING**
- VLAN Database
- INTERFACE**
- FastEthernet0/0
- FastEthernet0/1

FastEthernet0/1

Port Status ☒ On

Bandwidth ☐ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 0003.E408.1402

IP Configuration

IPv4 Address 10.10.2.1

Subnet Mask 255.255.255.0

Tx Ring Limit 10

Equivalent IOS Commands

```

LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
Router(config-if)#exit
Router(config)#
Router(config)#router rip
Router(config-router)#
Router(config-router)#end
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#
Router(config)#
VSTS-5-CORPIS-1: Configured from console by console
ip route 192.168.1.0 255.255.255.0 10.10.2.2
Router(config)#ip route 192.168.2.0 255.255.255.0 10.10.2.2
Router(config)#
Router(config)#
Router(config)#interface FastEthernet0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/1
Router(config-if)#
  
```

☐ Top

ROUTER 1 CONFIGURATION :

ROUTER 2 : Incoming Interface IP --> 10.10.2.2 (Fast ethernet 0)
 Outgoing Interface1 IP --> 192.168.1.1 (Fast ethernet 1)
 Outgoing Interface2 IP --> 192.168.2.1 (External added interface)

Router1

Physical **Config** CLI Attributes

Settings

- Algorithm Settings
- ROUTING**
- Static
- RIP
- SWITCHING**
- VLAN Database
- INTERFACE**
- FastEthernet0/0
- FastEthernet0/1
- Ethernet0/1/0

FastEthernet0/0

Port Status ☒ On

Bandwidth ☐ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 00D0.582C.0901

IP Configuration

IPv4 Address 10.10.2.2

Subnet Mask 255.0.0.0

Tx Ring Limit 10

Equivalent IOS Commands

```

LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
ip address 192.168.1.1 255.255.255.0
Router(config-if)#ip address 192.168.1.1 255.255.255.0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Ethernet0/1/0
Router(config-if)#no shutdown
Router(config-if)#
VLINE-5-CHANGED: Interface Ethernet0/1/0, changed state to up
VLINE-5-UPDOWN: Line protocol on Interface Ethernet0/1/0, changed state to up
no ip address
Router(config-if)#ip address 192.168.2.1 255.255.255.0
Router(config-if)#ip address 192.168.2.1 255.255.255.0
Router(config-if)#
Router(config-if)#exit
Router(config)#
Router(config)#ip route 10.10.1.0 255.255.255.0 10.10.2.1
Router(config)#ip route 10.10.1.0 255.255.255.0 10.10.2.1
Router(config)#
Router(config)#interface FastEthernet0/0
Router(config-if)#
  
```

☐ Top

Router1

Physical **Config** CLI Attributes

Settings

Algorithm Settings

ROUTING

Static

RIP

SWITCHING

VLAN Database

INTERFACE

FastEthernet0/0

FastEthernet0/1

Ethernet0/1/0

FastEthernet0/1

Port Status ☒ On

Bandwidth ☐ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 00D0.582C.0902

IP Configuration

IPv4 Address 192.168.1.1

Subnet Mask 255.255.255.0

Tx Ring Limit 10

Equivalent IOS Commands

```

Router(config)#interface FastEthernet0/1
Router(config-if)#ip address 192.168.1.1 255.255.255.0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Ethernet0/1/0
Router(config-if)#no shutdown
Router(config-if)#
VLINE0-S-CHANGED: Interface Ethernet0/1/0, changed state to up
VLINE0-S-UPDOWN: Line protocol on Interface Ethernet0/1/0, changed state to up
no ip address
Router(config-if)#ip address 192.168.2.1 255.255.255.0
Router(config-if)#ip address 192.168.2.1 255.255.255.0
Router(config-if)#
Router(config-if)#exit
Router(config)#
Router(config)#ip route 10.10.1.0 255.255.255.0 10.10.2.1
Router(config)#ip route 10.10.1.0 255.255.255.0 10.10.2.1
Router(config)#
Router(config)#interface FastEthernet0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/1
Router(config-if)#
Router(config-if)#exit

```

☐ Top

Router1

Physical **Config** CLI Attributes

Settings

Algorithm Settings

ROUTING

Static

RIP

SWITCHING

VLAN Database

INTERFACE

FastEthernet0/0

FastEthernet0/1

Ethernet0/1/0

Ethernet0/1/0

Port Status ☒ On

Bandwidth ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 0001.6366.2EB7

IP Configuration

IPv4 Address 192.168.2.1

Subnet Mask 255.255.255.0

Tx Ring Limit 10

Equivalent IOS Commands

```

Router(config)#interface Ethernet0/1/0
Router(config-if)#no shutdown
Router(config-if)#
Router(config-if)#exit
VLINE0-S-CHANGED: Interface Ethernet0/1/0, changed state to up
VLINE0-S-UPDOWN: Line protocol on Interface Ethernet0/1/0, changed state to up
no ip address
Router(config-if)#ip address 192.168.2.1 255.255.255.0
Router(config-if)#ip address 192.168.2.1 255.255.255.0
Router(config-if)#
Router(config-if)#exit
Router(config)#
Router(config)#ip route 10.10.1.0 255.255.255.0 10.10.2.1
Router(config)#ip route 10.10.1.0 255.255.255.0 10.10.2.1
Router(config)#
Router(config)#interface FastEthernet0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/1
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Ethernet0/1/0
Router(config-if)#
Router(config-if)#exit

```

☐ Top

DNS SERVER AND WEB SERVER CONFIGURATION:

DNS Server : IP Address ----> 192.168.1.2

Default Gateway : 192.168.1.1

WEB Server : IP Address ----> 192.168.2.2

Default Gateway : 192.168.2.1

The image displays two screenshots of network configuration windows, likely from a Packet Tracer environment, showing the configuration for two servers, Server0 and Server1.

Server0 Configuration:

- 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: (empty)
 - Link Local Address: FE80::201:C7FF:FE99:6DDC
 - Default Gateway: (empty)
 - DNS Server: (empty)
- 802.1X:**
 - ☐ Use 802.1X Security
 - Authentication: MD5
 - Username: (empty)
 - Password: (empty)

Server1 Configuration:

- IP Configuration:**
 - ☐ DHCP
 - ☒ Static
 - IPv4 Address: 192.168.2.2
 - Subnet Mask: 255.255.255.0
 - Default Gateway: 192.168.2.1
 - DNS Server: 0.0.0.0
- IPv6 Configuration:**
 - ☐ Automatic
 - ☒ Static
 - IPv6 Address: (empty)
 - Link Local Address: FE80::202:17FF:FE4C:D7A8
 - Default Gateway: (empty)
 - DNS Server: (empty)
- 802.1X:**
 - ☐ Use 802.1X Security
 - Authentication: MD5
 - Username: (empty)
 - Password: (empty)

ROUTING TABLE ENTRIES :

Router name	Network	Gateway
ROUTER 1	192.168.1.0	10.10.2.2
ROUTER 1	192.168.2.0	10.10.2.2
ROUTER 2	10.10.1.0	10.10.2.1

The screenshot shows the configuration interface for Router0, specifically the 'Config' tab. The left sidebar contains a tree view with categories: GLOBAL (Settings, Algorithm Settings), ROUTING (Static, RIP), SWITCHING (VLAN Database), and INTERFACE (FastEthernet0/0, FastEthernet0/1). The 'Static Routes' section is active, displaying fields for Network, Mask, and Next Hop, along with an 'Add' button. Below these fields, a table lists configured static routes: 192.168.1.0/24 via 10.10.2.2 and 192.168.2.0/24 via 10.10.2.2. A 'Remove' button is at the bottom right of the table. At the bottom of the window, a text area titled 'Equivalent IOS Commands' shows the following commands: Router (config)#, Router (config)#, Router (config)#interface FastEthernet0/0, Router (config-if)#, Router (config-if)#exit, Router (config)#interface FastEthernet0/1, Router (config-if)#, Router (config-if)#exit, Router (config)#interface FastEthernet0/0, Router (config-if)#, Router (config-if)#exit, Router (config)#, and Router (config)#. A 'Top' button is located at the bottom left.

Router0

Physical Config CLI Attributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

SWITCHING

VLAN Database

INTERFACE

FastEthernet0/0

FastEthernet0/1

Static Routes

Network

Mask

Next Hop

Add

Network Address

192.168.1.0/24 via 10.10.2.2

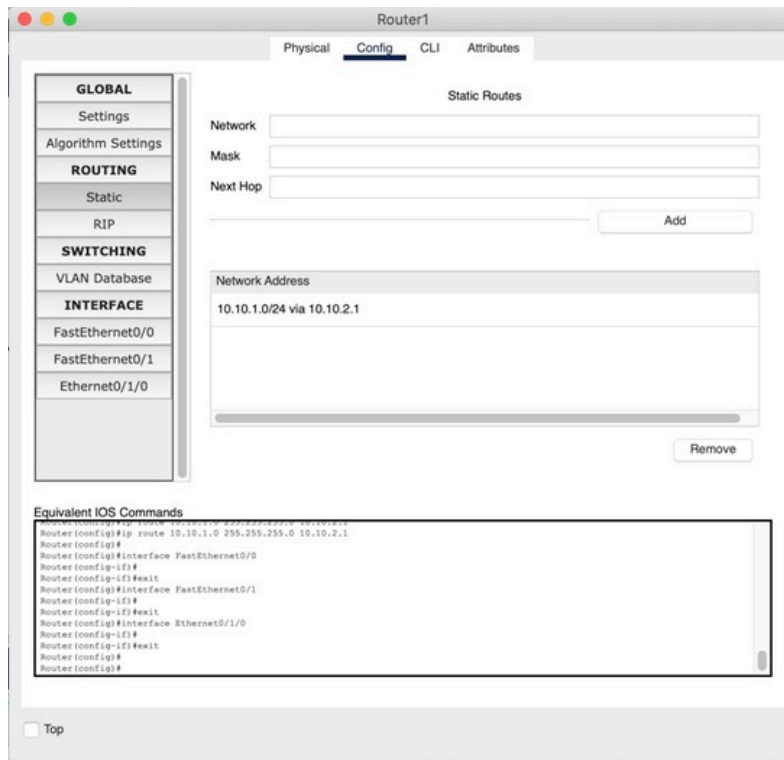
192.168.2.0/24 via 10.10.2.2

Remove

Equivalent IOS Commands

```
Router (config)#
Router (config)#
Router (config)#interface FastEthernet0/0
Router (config-if)#
Router (config-if)#exit
Router (config)#interface FastEthernet0/1
Router (config-if)#
Router (config-if)#exit
Router (config)#interface FastEthernet0/0
Router (config-if)#
Router (config-if)#exit
Router (config)#
Router (config)#
```

Top



OUTPUT :

