

COMPUTER NETWORKS LAB

WEEK 9

PES1UG19CS545

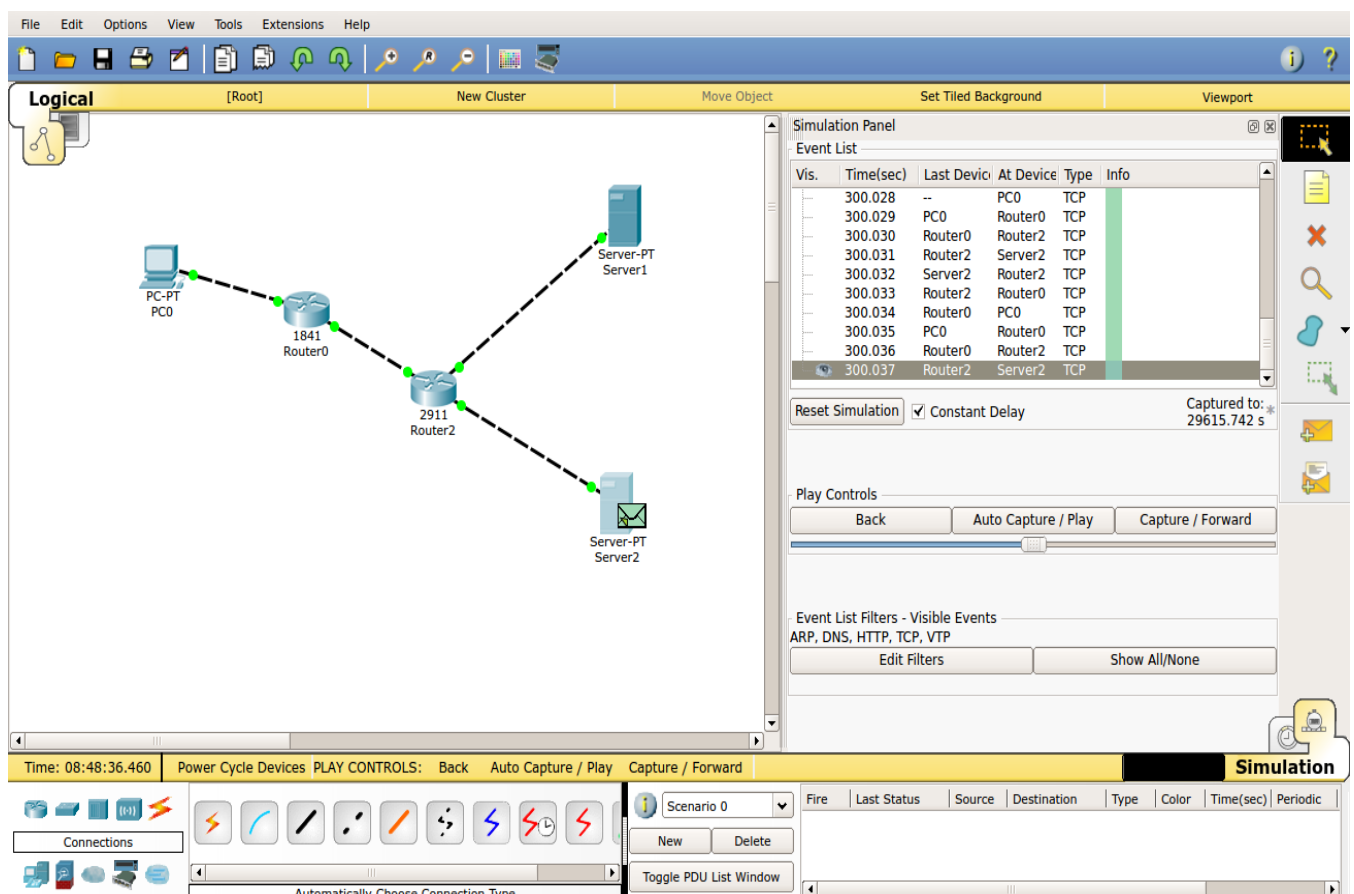
TUSHAR Y S

CISCO PACKET TRACER 2 – Life of a packet in Internet

Task 1

Configuring Topology

An HTTP request is made from the PC for the page index.html in the domain google.com



HTTP Request with DNS service

Configuring Network and Routing Table

The screenshot shows the configuration window for Router1, specifically the Ethernet0/0/0 interface. The left sidebar contains a tree view with categories: GLOBAL, ROUTING, SWITCHING, and INTERFACE. Under INTERFACE, several FastEthernet and Ethernet interfaces are listed. The main panel displays the configuration for Ethernet0/0/0, including Port Status (On), Bandwidth (10 Mbps), Duplex (Full Duplex), MAC Address (00E0.F9E3.C2DC), IP Configuration (IP Address: 192.168.1.1, Subnet Mask: 255.255.255.0), and Tx Ring Limit (10). At the bottom, a text area shows the equivalent IOS commands for the configuration.

Router1

Physical Config CLI

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

SWITCHING

VLAN Database

INTERFACE

FastEthernet0/0

FastEthernet0/1

Ethernet0/0/0

FastEthernet0/1/0

FastEthernet0/1/1

FastEthernet0/1/2

FastEthernet0/1/3

Ethernet0/0/0

Port Status ☒ On

Bandwidth ☒ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address

IP Configuration

IP Address

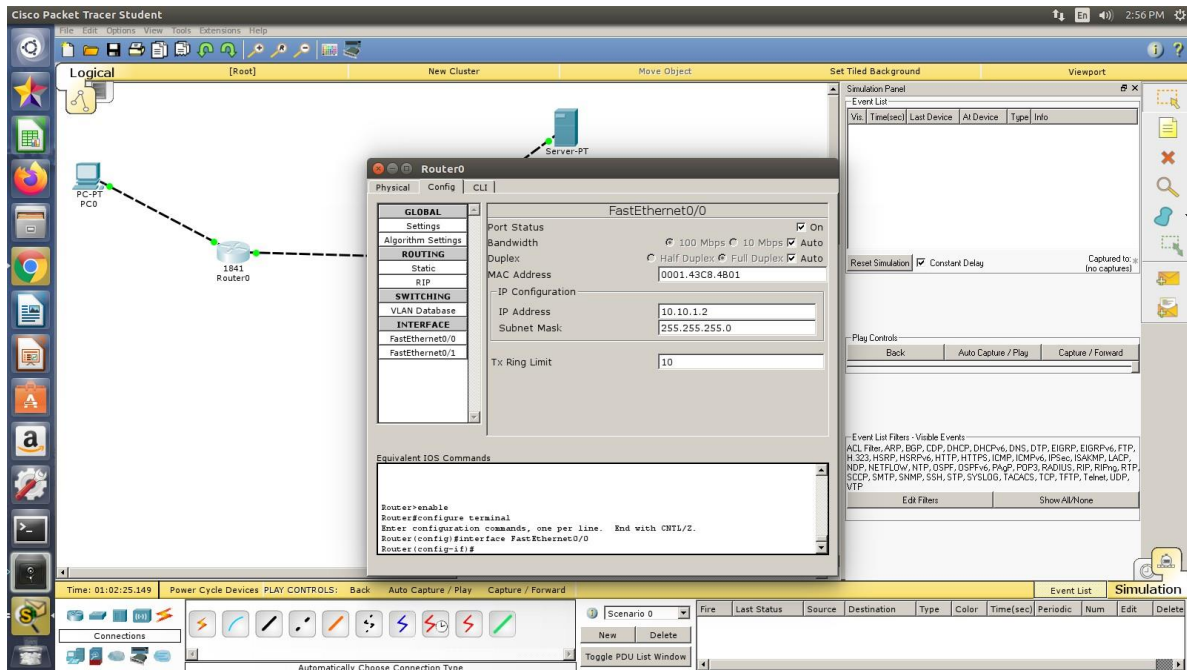
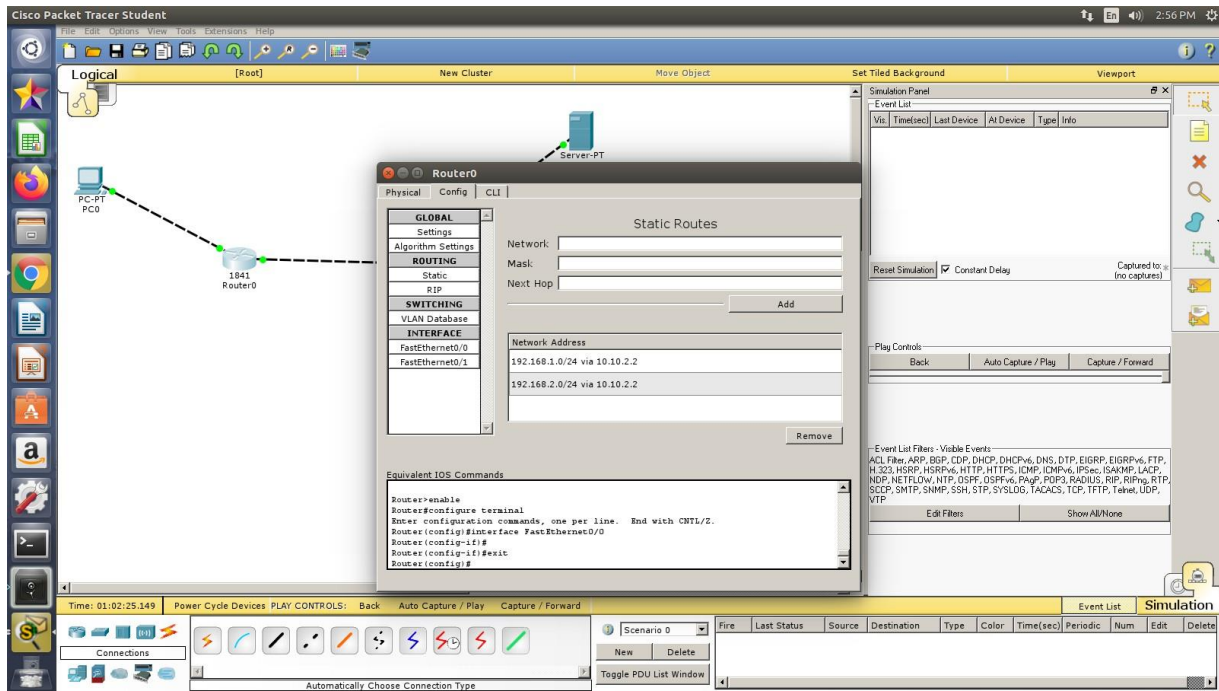
Subnet Mask

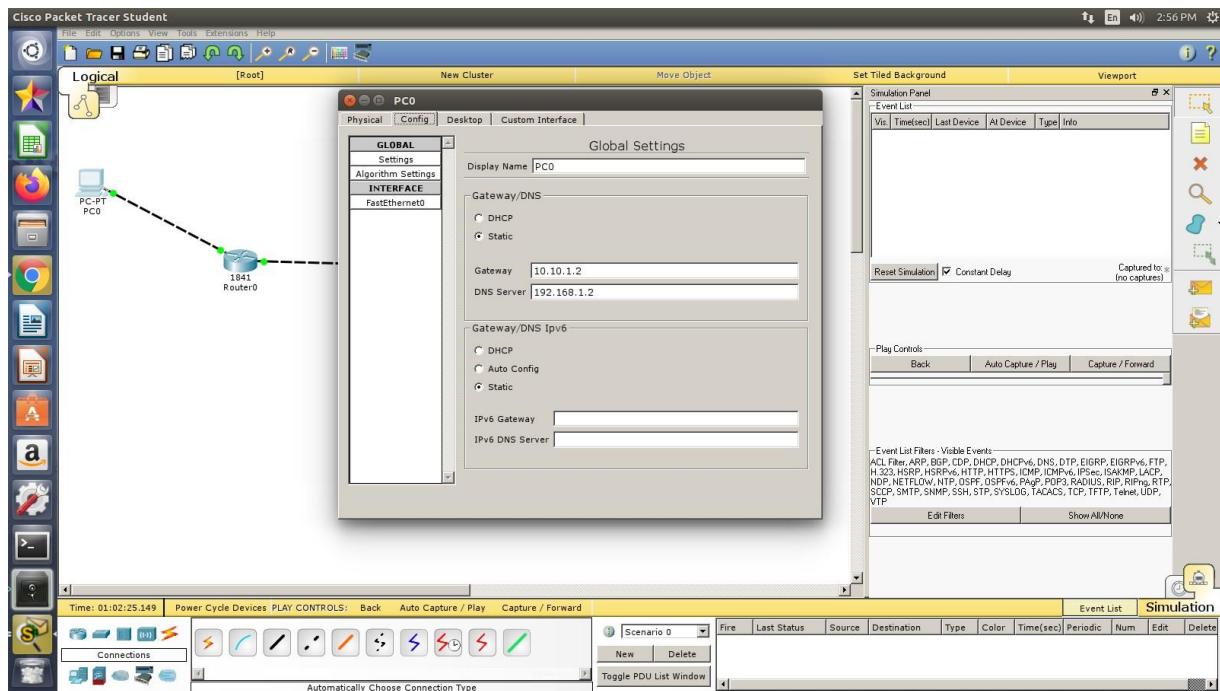
Tx Ring Limit

Equivalent IOS Commands

```
Router(config-if)#exit
Router(config)#interface FastEthernet0/1
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/1
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Ethernet0/0/0
Router(config-if)#
```

End System	Interface Name	IP address	Subnet mask	Gateway	DNS server
PC0	FastEthernet0	10.10.1.1	255.255.255.0	10.0.0.3	192.168.1.2
Server0-DNS	FastEthernet0	192.168.1.2	255.255.255.0	192.168.1.1	
Server1-Web	FastEthernet0	192.168.2.2	255.255.255.0	192.168.2.1	





Routers

Router	Interface Name	IP Address	Subnet Mask
Router0	FastEthernet0/0	10.10.1.2	255.255.255.0
Router0	FastEthernet0/0	10.10.2.1	255.255.255.0
Router1	FastEthernet0/0	10.10.2.2	255.255.255.0
Router1	FastEthernet0/0	192.168.1.1	255.255.255.0
Router1	Ethernet0/0/0	192.168.2.1	255.255.255.0

Routing Table

Router	Destination Network	Next Hop
Router0	192.168.1.0	10.10.2.2
Router0	192.168.2.0	10.10.2.2
Router1	10.10.1.0	10.10.2.1

