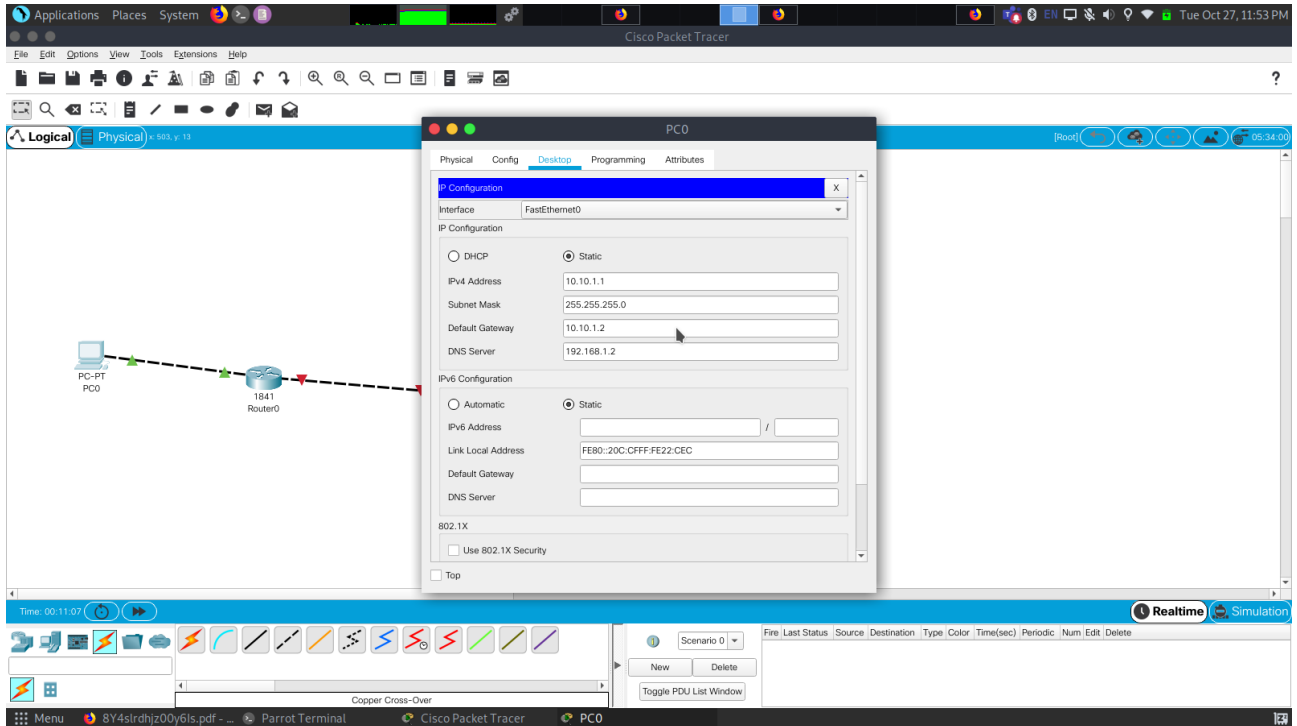
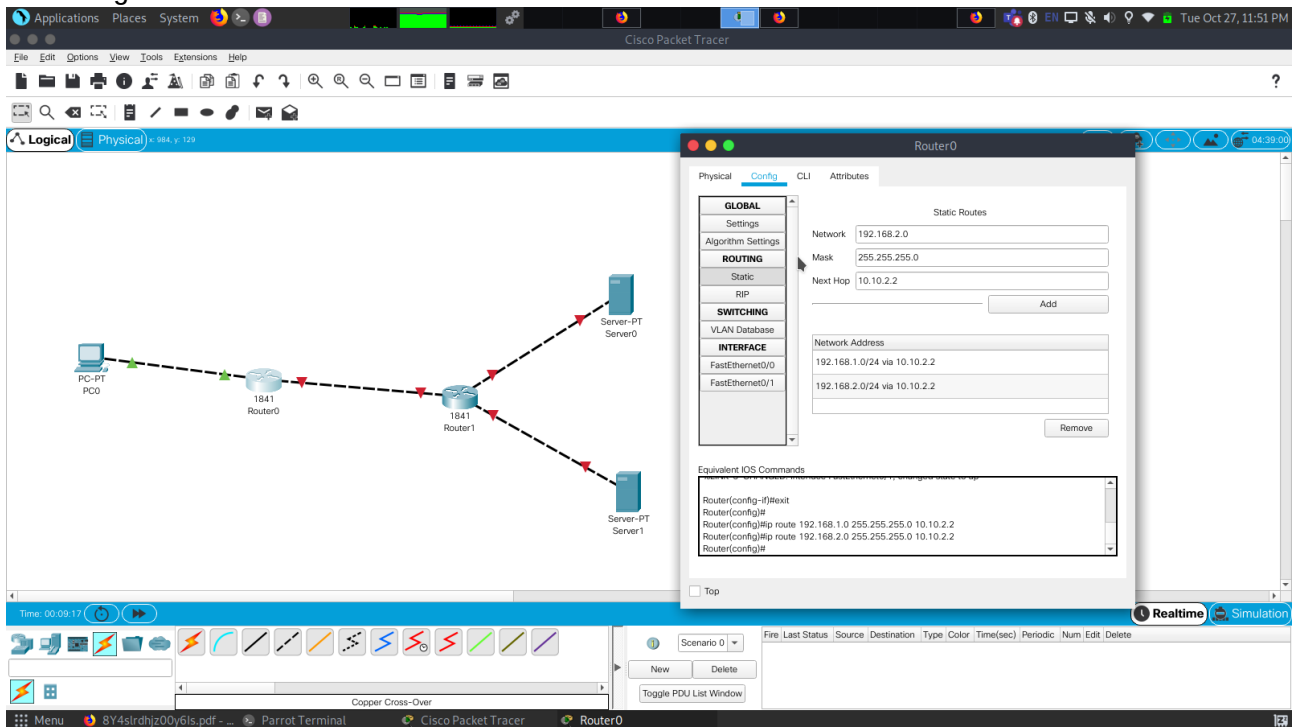
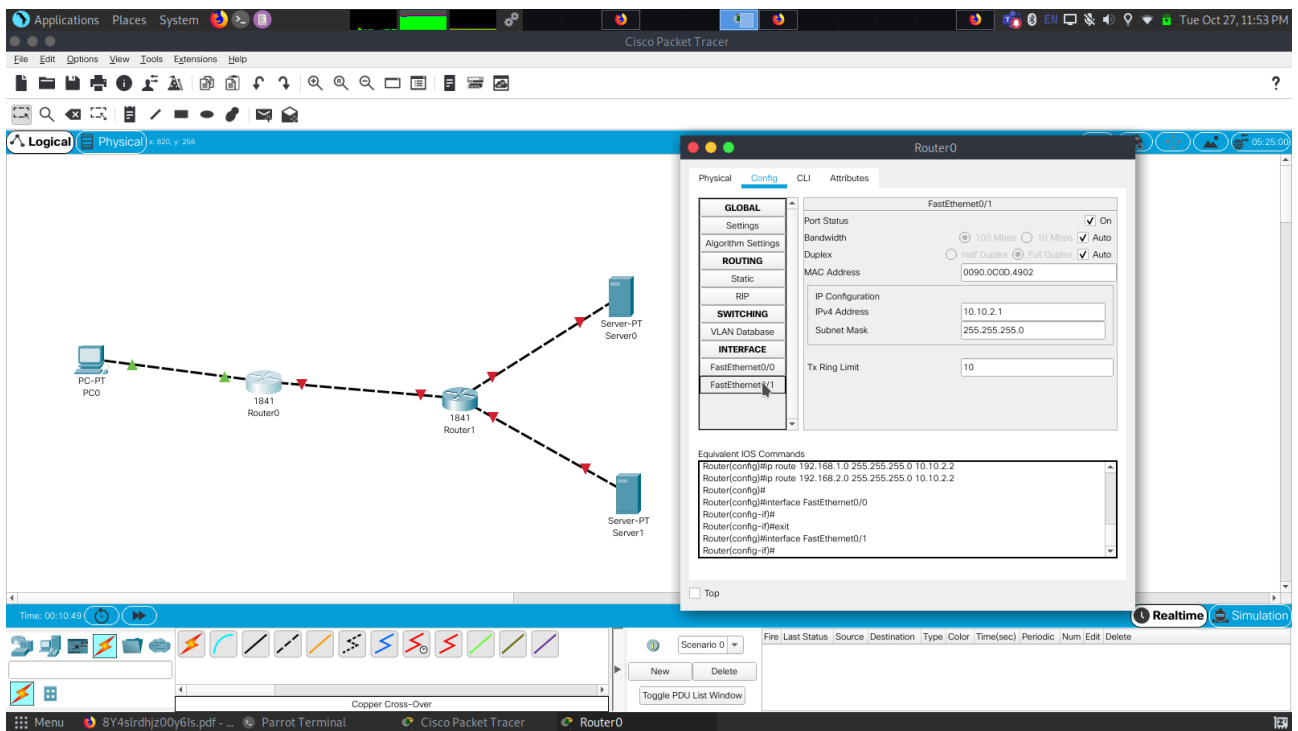
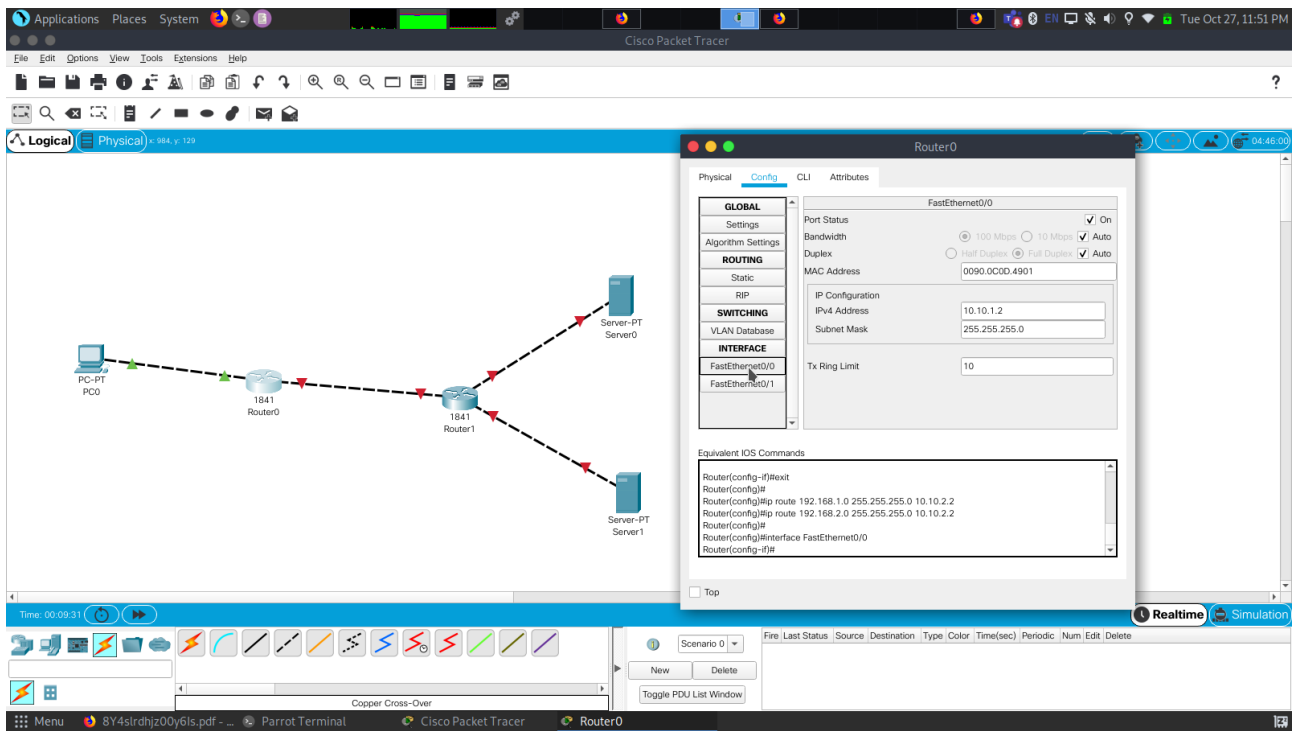


## WEEK 7

Using Cisco packet tracer understand the life of packet in internet.

## PC 0

router 1  
routing table



router 2  
routing table

Applications Places System Cisco Packet Tracer Wed Oct 28, 12:04 AM

File Edit Options View Tools Extensions Help

Logical Physical 830, 9 87

Router1 Config

Physical Config CLI Attributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

SWITCHING

VLAN Database

INTERFACE

FastEthernet0/0

FastEthernet0/1

Ethernet0/0/0

Static Routes

Network 10.10.1.0

Mask 255.255.255.0

Next Hop 10.10.2.1

Add

Remove

Equivalent IOS Commands

```
Router(config)#interface FastEthernet0/0
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)#
```

Time: 24:22:08

Realtime Simulation

Scenario 0

New Delete

Toggle PDU List Window

Menu 8Y4slrdhjz00y6ls.pdf [Parrot Terminal] Cisco Packet Tracer Router1

Applications Places System Cisco Packet Tracer Wed Oct 28, 12:02 AM

File Edit Options View Tools Extensions Help

Logical Physical 830, 9 87

Router1 Config

Physical Config CLI Attributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

SWITCHING

VLAN Database

INTERFACE

FastEthernet0/0

FastEthernet0/1

Ethernet0/0/0

FastEthernet0/0

Port Status ☒ On

Bandwidth ☒ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 0030.A3E2.E901

IP Configuration

IPv4 Address 10.10.2.2

Subnet Mask 255.255.255.0

Tx Ring Limit 10

Equivalent IOS Commands

```
Router(config)#interface Ethernet0/0/0
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)#
```

Time: 24:19:58

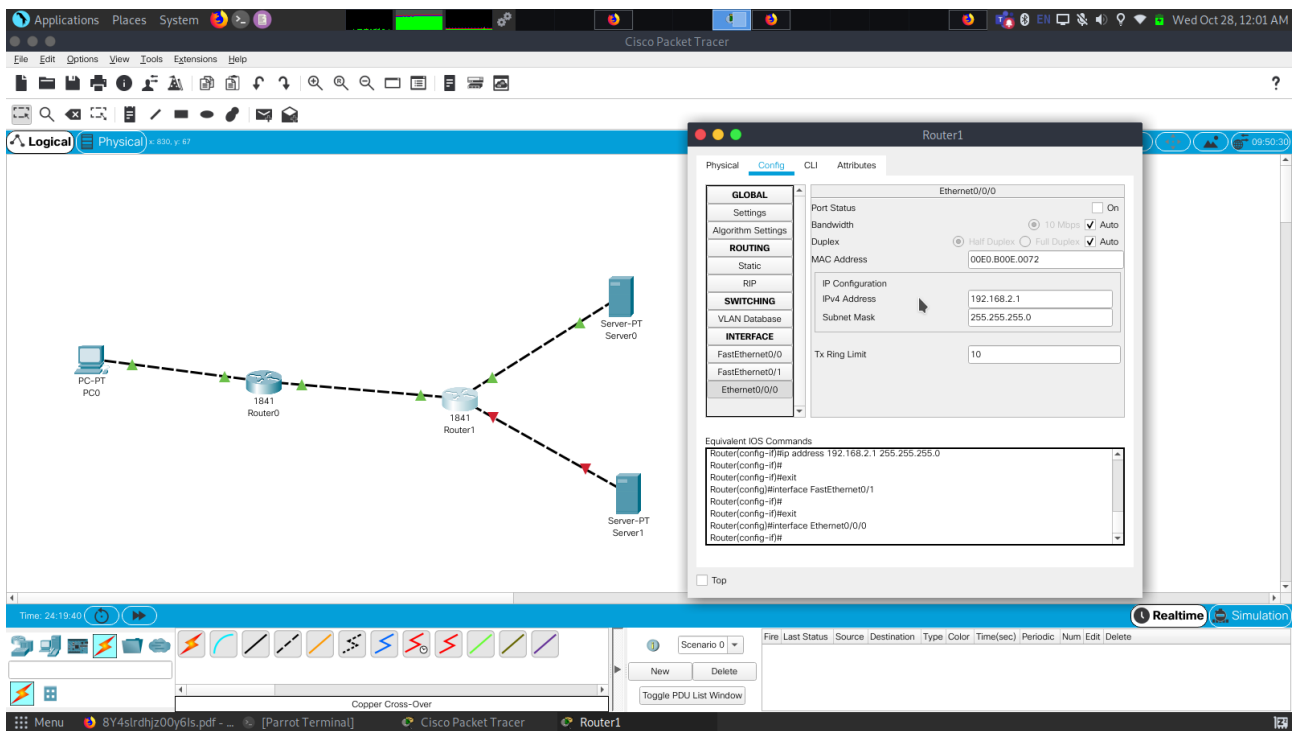
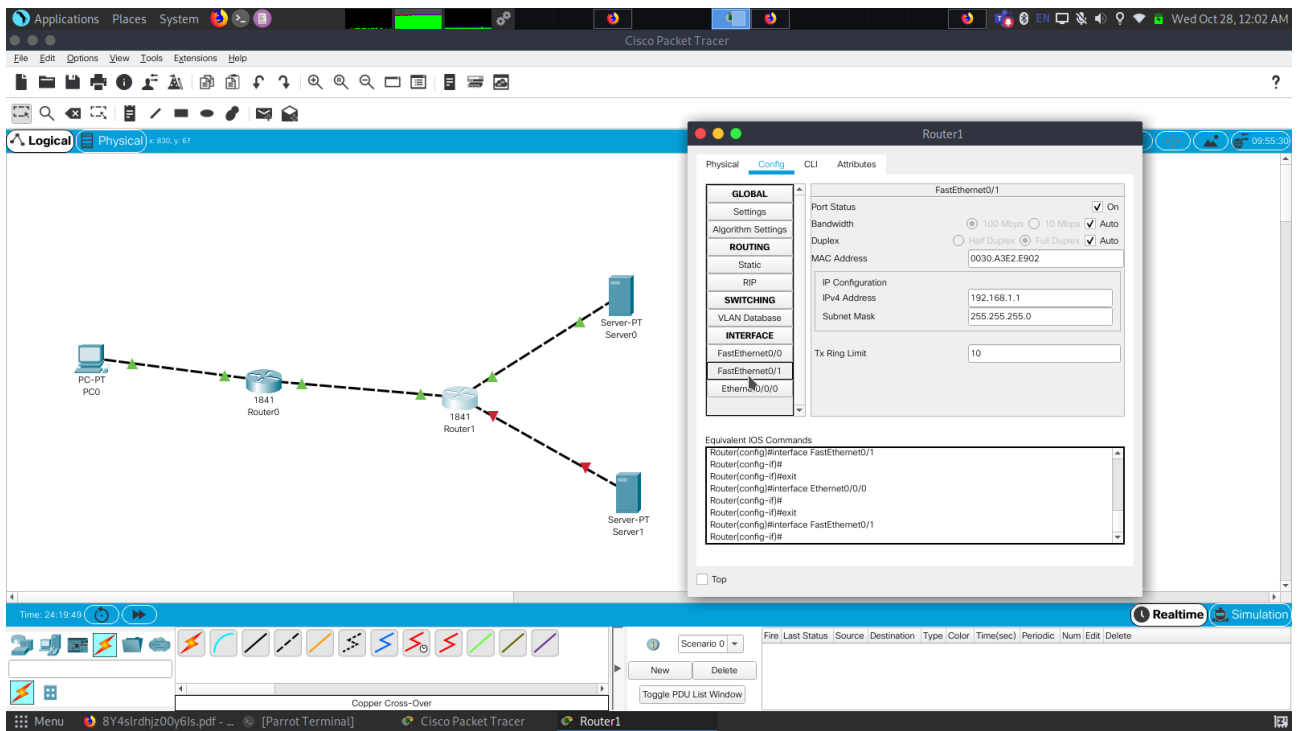
Realtime Simulation

Scenario 0

New Delete

Toggle PDU List Window

Menu 8Y4slrdhjz00y6ls.pdf [Parrot Terminal] Cisco Packet Tracer Router1



dns server

Applications Places System Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical 755, 179

PC-PT PC0 1841 Router0 1841 Router1 Server-PT Server0 Server-PT Server1

Server0

Physical Config Services Desktop Programming Attributes

SERVICES

- HTTP
- DHCP
- DHCPv6
- TFTP
- DNS
- SYSLOG
- AAA
- NTP
- EMAIL
- FTP
- IoT
- VM Management
- Radius EAP

DNS

DNS Service ☒ On ☐ Off

Resource Records

Name  Type A Record

Address

Add Save Remove

No.	Name	Type	Detail
0	google.com	A Record	192.168.2.2

DNS Cache

Time: 24:23:43

Realtime Simulation

Scenario 0

File Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete

New Delete

Toggle PDU List Window

Menu 8Y4slrdhiz00y6ls.pdf [Parrot Terminal] Cisco Packet Tracer Server0

## dns server ip

Applications Places System Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical 755, 179

PC-PT PC0 1841 Router0 1841 Router1 Server-PT Server0 Server-PT Server1

Server0

Physical Config Services Desktop Programming Attributes

IP 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  /

Link Local Address  FE80::230:A3FF:FE77:D3

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication  MD5

Time: 24:24:42

Realtime Simulation

Scenario 0

File Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete

New Delete

Toggle PDU List Window

Menu 8Y4slrdhiz00y6ls.pdf [Parrot Terminal] Cisco Packet Tracer Server0

## WEB SERVER

The screenshot shows the Cisco Packet Tracer interface with a network diagram. A PC-PT PC0 is connected to a 1841 Router0. The Router0 is connected to a 1841 Router1. The Router1 is connected to a Server-PT Server1. The Server1 configuration window is open, showing the Desktop tab. The IP Configuration section is set to Static with the following values:

- IPV4 Address: 192.168.2.2
- Subnet Mask: 255.255.255.0
- Default Gateway: 192.168.2.1
- DNS Server: 0.0.0.0

The IPv6 Configuration section is also set to Static with the following values:

- IPV6 Address: FE80::250:FFF:FE93:CC44
- Link Local Address: FE80::250:FFF:FE93:CC44
- Default Gateway:
- DNS Server:

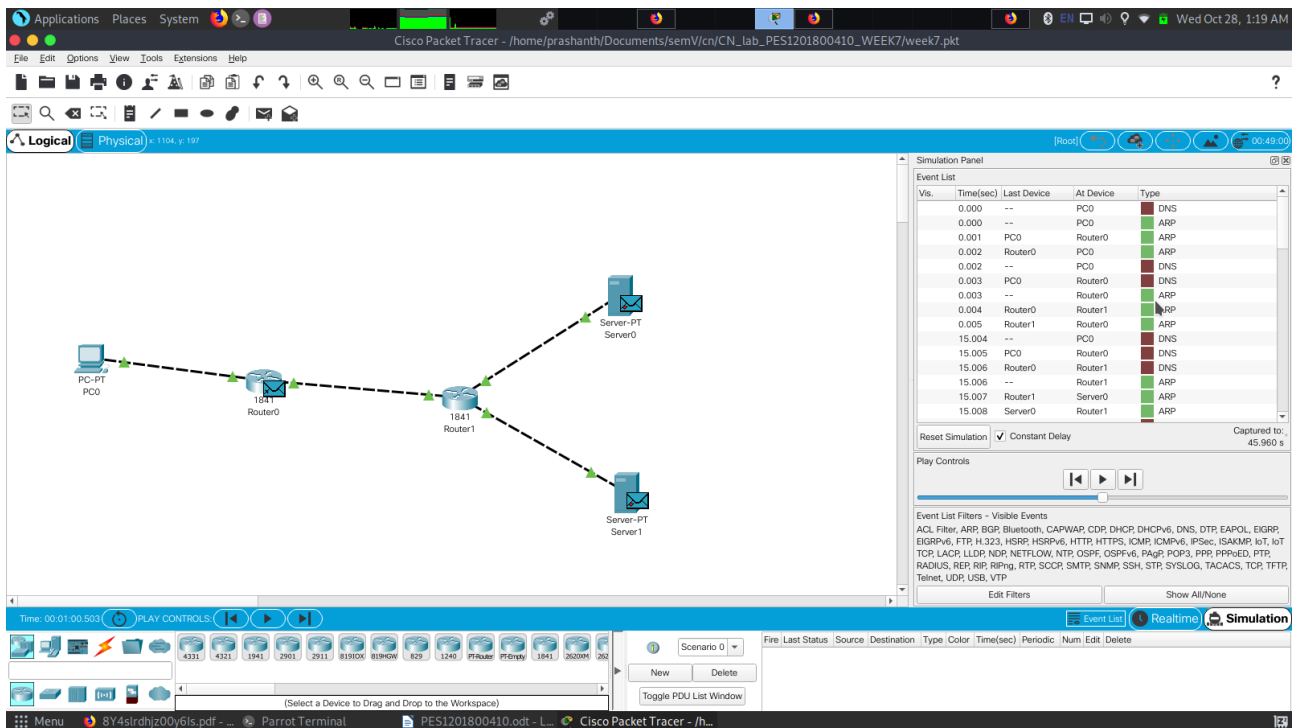
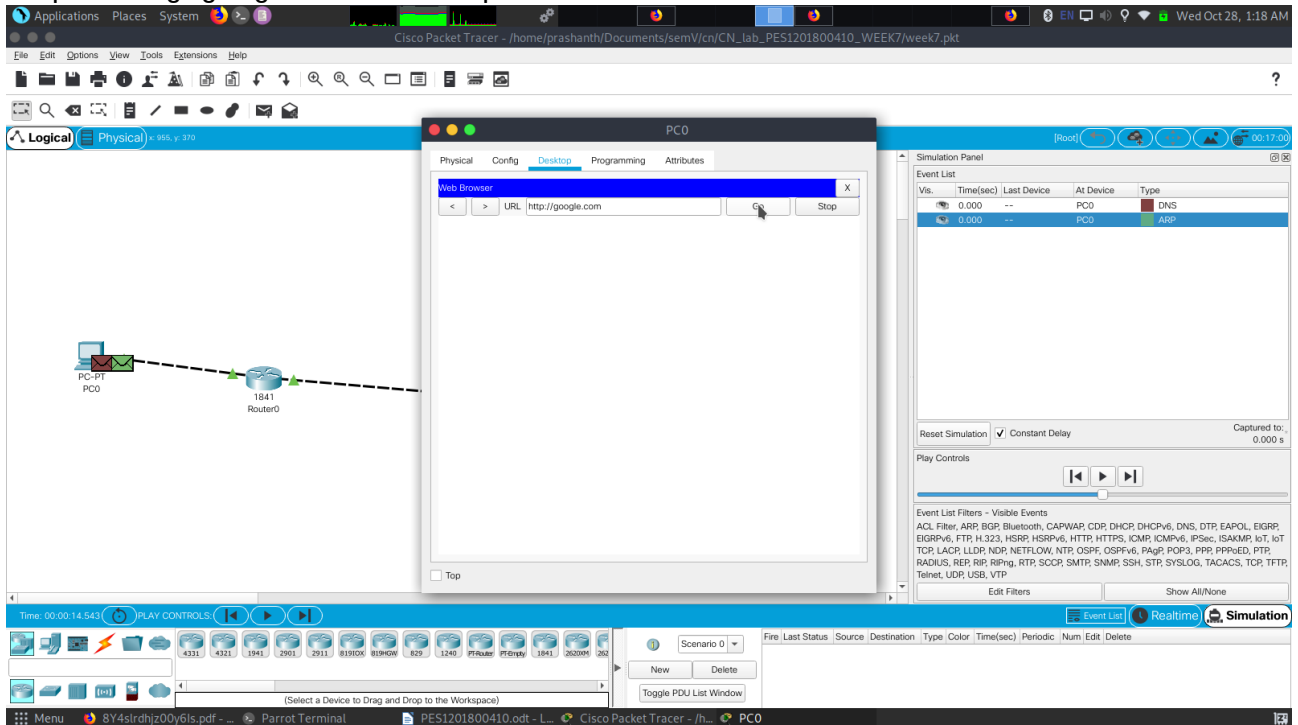
The 802.1X section is set to Use 802.1X Security with Authentication set to MD5.

## html page

The screenshot shows the Cisco Packet Tracer interface with a network diagram. A PC-PT PC0 is connected to a 1841 Router0. The Router0 is connected to a 1841 Router1. The Router1 is connected to a Server-PT Server0 and a Server-PT Server1. The Server1 configuration window is open, showing the Services tab. The File Name is set to index.html. The HTML content is as follows:

```
<html>
<center><font size="+2" color="blue">Cisco Packet Tracer</font></center>
<hr>Welcome to Cisco Packet Tracer. Opening doors to new opportunities.
Mind Wide Open.
<p>Quick Links:
<br><a href="helloworld.html">A small page</a>
<br><a href="copyrights.html">Copyrights</a>
<br><a href="image.html">image page</a>
<br><a href="cscoptogo177x111.jpg">image</a>
</html>
```

## Packet tracing requesting google.com from pc 0



dns server responses

Applications Places System Cisco Packet Tracer Wed Oct 28, 12:45 AM

File Edit Options View Tools Extensions Help

Logical Physical 405, 7:26

Simulation Panel [root] 07:32:30

Event List

Vis.	Time(sec)	Last Device	At Device	Type
	0.000	--	PC0	DNS
	0.001	PC0	Router0	DNS
	0.002	Router0	Router1	DNS
	0.003	Router1	Server0	DNS
	0.004	Server0	Router1	DNS
	0.005	Router1	Router0	DNS
	0.006	Router0	PC0	DNS
	0.006	--	PC0	TCP
	0.007	PC0	Router0	TCP
	0.008	Router0	Router1	TCP
	0.009	Router1	Server1	TCP
	0.010	Server1	Router1	TCP
	0.011	Router1	Router0	TCP
	0.012	Router0	PC0	TCP
	0.012	--	PC0	HTTP

Reset Simulation ☒ Constant Delay Captured to: 0.012 s

Play Controls

Event List Filters - Visible Events

ACL Filter, ARP, BGP, Bluetooth, CAPWAP, CDP, DHCP, DHCPv6, DNS, DTP, EAPOL, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPsec, ISAKMP, IoT, IoT TCP, LACP, LLDP, Meraki, NDP, NETFLOW, NTP, OSPF, OSPFv6, PaGr, POP3, PPP, PPPoE, PTP, RADIUS, RER, RIP, RIPng, RTP, SCRP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters Show All/None

Time: 24:56:39.877 PLAY CONTROLS

Scenario 0 Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete

New Delete

Toggle PDU List Window

Automatically Choose Connection Type

Menu DNS Server Cisco Pack... Parrot Terminal Cisco Packet Tracer PC0

Applications Places System Cisco Packet Tracer Wed Oct 28, 12:45 AM

File Edit Options View Tools Extensions Help

Logical Physical 405, 7:26

Simulation Panel [root] 07:46:30

Event List

Vis.	Time(sec)	Last Device	At Device	Type
	0.012	PC0	Router0	HTTP
	0.013	PC0	Router0	TCP
	0.013	--	PC0	HTTP
	0.014	PC0	Router0	HTTP
	0.014	Router0	Router1	TCP
	0.015	Router0	Router1	HTTP
	0.015	Router1	Server1	TCP
	0.016	Router1	Server1	HTTP
	0.017	Server1	Router1	HTTP
	0.018	Router1	Router0	HTTP
	0.019	Router0	PC0	HTTP
	0.019	--	PC0	TCP
	0.020	PC0	Router0	TCP
	0.021	Router0	Router1	TCP
	0.022	Router1	Server1	TCP

Reset Simulation ☒ Constant Delay Captured to: 0.022 s

Play Controls

Event List Filters - Visible Events

ACL Filter, ARP, BGP, Bluetooth, CAPWAP, CDP, DHCP, DHCPv6, DNS, DTP, EAPOL, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPsec, ISAKMP, IoT, IoT TCP, LACP, LLDP, Meraki, NDP, NETFLOW, NTP, OSPF, OSPFv6, PaGr, POP3, PPP, PPPoE, PTP, RADIUS, RER, RIP, RIPng, RTP, SCRP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters Show All/None

Time: 24:56:39.887 PLAY CONTROLS

Scenario 0 Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete

New Delete

Toggle PDU List Window

Automatically Choose Connection Type

Menu DNS Server Cisco Pack... Parrot Terminal Cisco Packet Tracer PC0



# response html page

The screenshot shows the Cisco Packet Tracer interface. A PC0 configuration window is open, displaying a web browser with the URL <http://google.com>. The browser shows the Cisco Packet Tracer welcome page, which includes a message: "Welcome to Cisco Packet Tracer. Opening doors to new opportunities. Mind Wide Open." and quick links: [A small page](#), [Copyrights](#), [Image page](#), and [Image](#).

The background shows the Packet Tracer workspace with a PC0 connected to a Router0. The Simulation Panel on the right displays the Event List, showing various network events and their types (TCP, HTTP, etc.). The bottom status bar indicates the time is 00:01:00.503 and the simulation is running in Realtime mode.