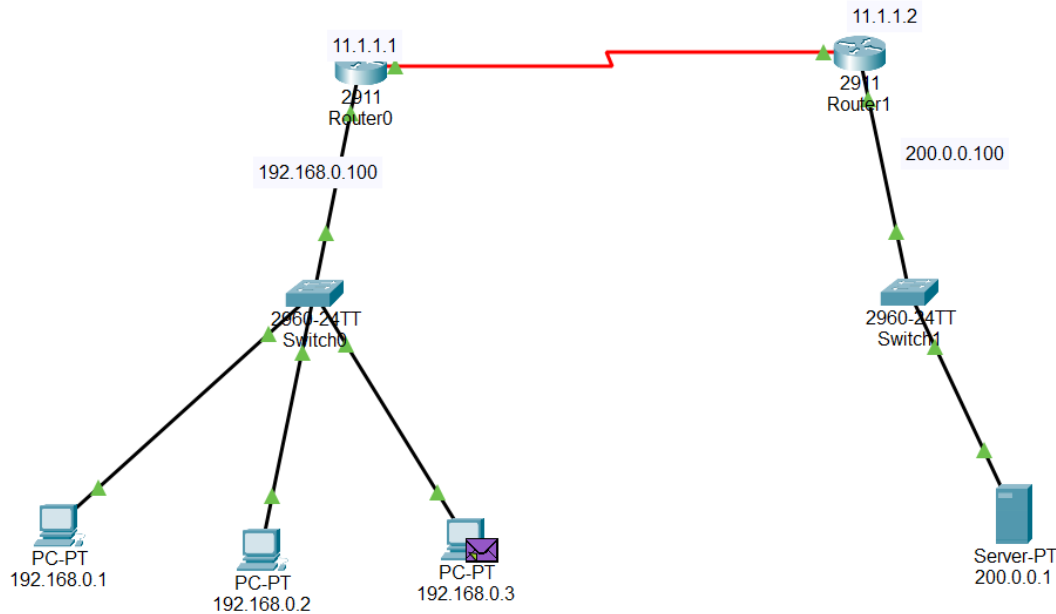


NPS LAB EXPERIMENTS

EXP-9



Logical View: The network topology is shown with Router0 connected to Switch0, which is connected to three PCs. Router1 is connected to Switch1, which is connected to a Server-PT.

PDU Information at Device: Router0

OST Model	Inbound PDU Details	Outbound PDU Details
At Device: Router0	Source: 192.168.0.3	Destination: 200.0.0.1
In Layers	Out Layers	
Layer7	Layer7	
Layer6	Layer6	
Layer5	Layer5	
Layer4	Layer4	
Layer3: IP Header Src. IP: 192.168.0.3, Dest. IP: 200.0.0.1 ICMP Message Type: 8	Layer3: IP Header Src. IP: 50.0.0.3, Dest. IP: 200.0.0.1 ICMP Message Type: 8	
Layer2: Ethernet II Header 0800.BAAA.E774.>> 0800.B007.2701	Layer2: HDLC Frame HDLC	
Layer1: Port GigabitEthernet0/0	Layer1: Port(s): Serial0/3/0	

1. GigabitEthernet0/0 receives the frame.

Simulation Panel

Vis	Time(sec)	Last Device	At Device
0.000	--	--	192.168.0.3
0.001	192.168.0.3	Switch0	
0.002		Router0	
0.003	Router0	Router1	
0.004	Router1	Switch1	
0.005	Switch1	200.0.0.1	
0.006	200.0.0.1	Switch1	
0.007	Switch1	Router1	
0.008	Router1	Router0	
0.009	Router0	Switch0	
0.010	Switch0	192.168.0.3	

Reset Simulation ☒ Constant Delay Captured to: 0.010 s

Play Controls: [Play] [Pause] [Stop] [Fast Forward] [Fast Backward]

Event List Filters - Visible Events: ACL Filter, Bluetooth, CAPWAP, CDP, DHCPv6, DTP, EAPOL, EIGRPv6, FTP, H.323, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPsec, ISAKMP, IoT, IoT TCP, LACP, LLDP, Meraki, NDP, NETFLOW, NTP, OSPFv6, PAgP, POP3, PPP, PPPoE, PTP, RADIUS, REP, rdpng, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters Show AllNone

Time: 00:15:31.765 PLAY CONTROLS [Play] [Pause] [Stop] [Fast Forward] [Fast Backward]

Event List Realtime Simulation

Router 0

Router>enable

Router#

Router#configure terminal

Router(config)#interface GigabitEthernet0/0

Router(config-if)#ip address 192.168.0.100 255.255.255.0

Router(config-if)#no shutdown

Router(config-if)#exit

Router(config)#interface Serial0/3/0

Router(config-if)#no shutdown

```
Router(config-if)#ip address 11.1.1.1 255.0.0.0
Router(config-if)#ip address 11.1.1.1 255.0.0.0
Router(config-if)#
%LINK-5-CHANGED: Interface Serial0/3/0, changed state to up
```

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/3/0, changed state to up
```

```
Router(config-if)#exit
Router(config)#ip route 0.0.0.0 0.0.0.0 11.1.1.2
Router(config)#interface g0/0
Router(config-if)#ip nat inside
Router(config-if)#exit
Router(config)#interface serial 0/3/0
Router(config-if)#ip nat outside
Router(config-if)#exit
Router(config)#access-list 50 permit 192.168.0.0 0.0.0.255
Router(config)#ip nat pool publicip 50.0.0.1 50.0.0.50 netmask 255.255.255.0
Router(config)#ip nat inside source list 50 pool publicip
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
```

```
Router#
```

Router 1

```
Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface GigabitEthernet0/0
Router(config-if)#ip address 200.0.0.100 255.255.255.0
Router(config-if)#no shutdown
Router(config-if)#

Router(config-if)#exit
Router(config)#interface Serial0/3/0
Router(config-if)#ip address 11.1.1.2 255.0.0.0
Router(config-if)#no shutdown
Router(config-if)#exit

Router(config)#ip route 50.0.0.0 255.0.0.0 11.1.1.1
```

