

Institute of Engineering & Management
Department of Computer Science and Engineering
Network Lab for 3rd year 6th semester 2019
Code: CS 692

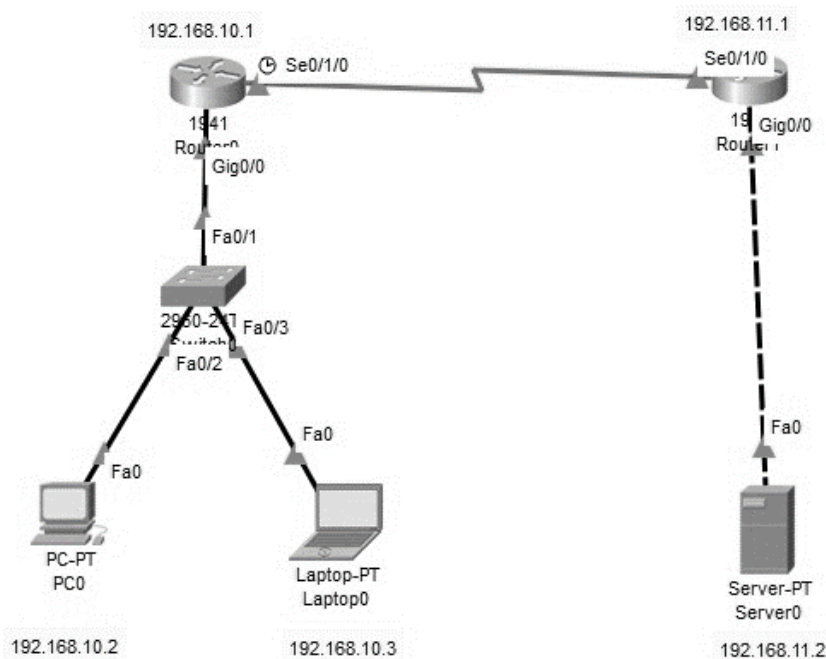
Date: 11/02/19

WEEK-2

ASSIGNMENT-1

Problem Statement: Configure two Routers and connect them using default routing protocol.

Screen-shot:



Realtime							
Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic
●	Successful	Laptop0	Server0	ICMP		0.000	N
●	Successful	PC0	Server0	ICMP		0.000	N
●	Successful	Server0	Laptop0	ICMP		0.000	N

CLI Code:

Router 0:

Router>en

Router#config terminal

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#interface gig

Router(config)#interface gig 0/0

Router(config-if)#ip address 192.168.10.1 255.255.255.0

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 se 0/1/0
Router(config-if)#ip address 10.0.0.1 255.0.0.0
Router(config-if)#no shutdown
```

%LINK-5-CHANGED: Interface Serial0/1/0, changed state to down

```
Router(config-if)#
```

%LINK-5-CHANGED: Interface Serial0/1/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/1/0, changed state to up

```
Router(config-if)#clock rate 64000
Router(config-if)#ip route 0.0.0.0 0.0.0.0 10.0.0.0
Router(config)#
```

Router-1:

```
Router>en
Router#config terminal
Enter configuration commands, one per line. End with CNTL/Z.
```

```
Router(config)#interface gig 0/0
Router(config-if)#ip address 192.168.11.1 255.255.255.0
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 se 0/1/0
Router(config-if)#ip address 10.0.0.2 255.0.0.0
Router(config-if)#no shutdown
```

```
Router(config-if)#
%LINK-5-CHANGED: Interface Serial0/1/0, changed state to up
```

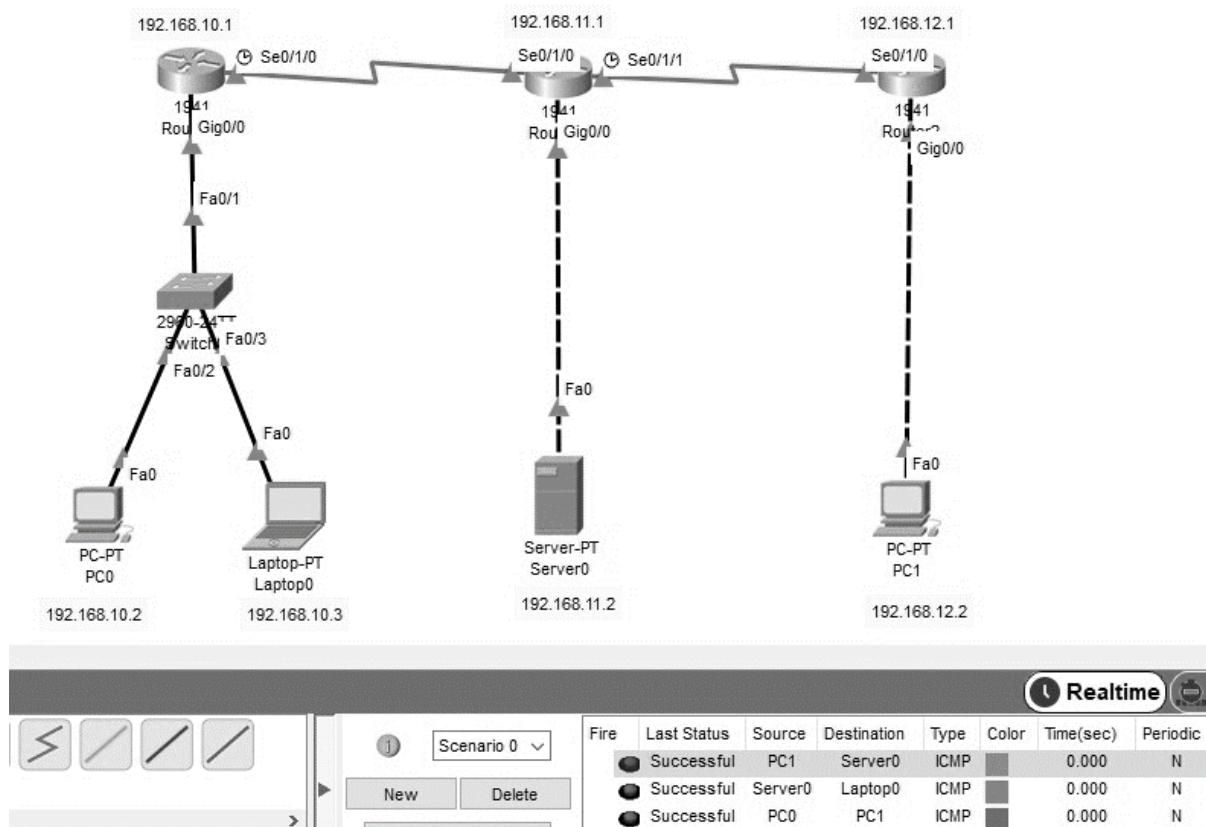
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/1/0, changed state to up

```
Router(config-if)#ip route 0.0.0.0 0.0.0.0 10.0.0.0
Router(config)#
```

ASSIGNMENT 2:

Problem Statement: Configure two Routers and connect them using dynamic routing protocol.

Screen-shot:



CLI Code:

Router 0:

```
Router>en
```

```
Router#config terminal
```

Enter configuration commands, one per line. End with CNTL/Z.

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

```
Router(config-if)#ip address 192.168.10.1 255.255.255.0
```

```
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 se 0/1/0
```

```
Router(config-if)#ip address 10.0.0.1 255.0.0.0
```

```
Router(config-if)#clock rate 64000
```

```
Router(config-if)#no shutdown
```

%LINK-5-CHANGED: Interface Serial0/1/0, changed state to down

```
Router(config-if)#
```

%LINK-5-CHANGED: Interface Serial0/1/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/1/0, changed state to up

```
Router(config-if)#exit
Router(config)#router rip
Router(config-router)#network 192.168.10.0
Router(config-router)#network 10.0.0.0
Router(config-router)#version 2
Router(config-router)#
```

Router 1:

```
Router>en
Router#config terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface gig 0/0
Router(config-if)#ip address 192.168.11.1 255.255.255.0
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 se 0/1/0
Router(config-if)#ip address 10.0.0.2 255.0.0.0
Router(config-if)#no shutdown
```

```
Router(config-if)#
%LINK-5-CHANGED: Interface Serial0/1/0, changed state to up
```

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/1/0, changed state to up

```
Router(config-if)#exit
Router(config)#interface se 0/1/1
Router(config-if)#ip address 11.0.0.1 255.0.0.0
Router(config-if)#clock rate 64000
Router(config-if)#no shutdown
```

%LINK-5-CHANGED: Interface Serial0/1/1, changed state to down

```
Router(config-if)#
%LINK-5-CHANGED: Interface Serial0/1/1, changed state to up
```

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/1/1, changed state to up

```
Router(config-if)#exit
Router(config)#router rip
Router(config-router)#network 192.168.11.0
Router(config-router)#network 10.0.0.0
Router(config-router)#version 2
Router(config-router)#network 11.0.0.0
Router(config-router)#version 2
Router(config-router)#
```

Router 2:

Router>en

Router#config terminal

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#interface gig 0/0

Router(config-if)#ip address 192.168.12.1 255.255.255.0

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 se 0/1/0

Router(config-if)#ip address 11.0.0.2 255.0.0.0

Router(config-if)#no shutdown

Router(config-if)#

%LINK-5-CHANGED: Interface Serial0/1/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/1/0, changed state to up

Router(config-if)#exit

Router(config)#router rip

Router(config-router)#network 192.168.12.0

Router(config-router)#network 11.0.0.0

Router(config-router)#version 2

Router(config-router)#