

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

Date: 04/02/19

WEEK-1

Assignment-1

Problem Statement: Configure a Router

CLI code:

```
Router>en
Router#config terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface fastEthernet 0/0
Router(config-if)#ip address 192.168.10.1 255.255.255.0
Router(config-if)#no shutdown

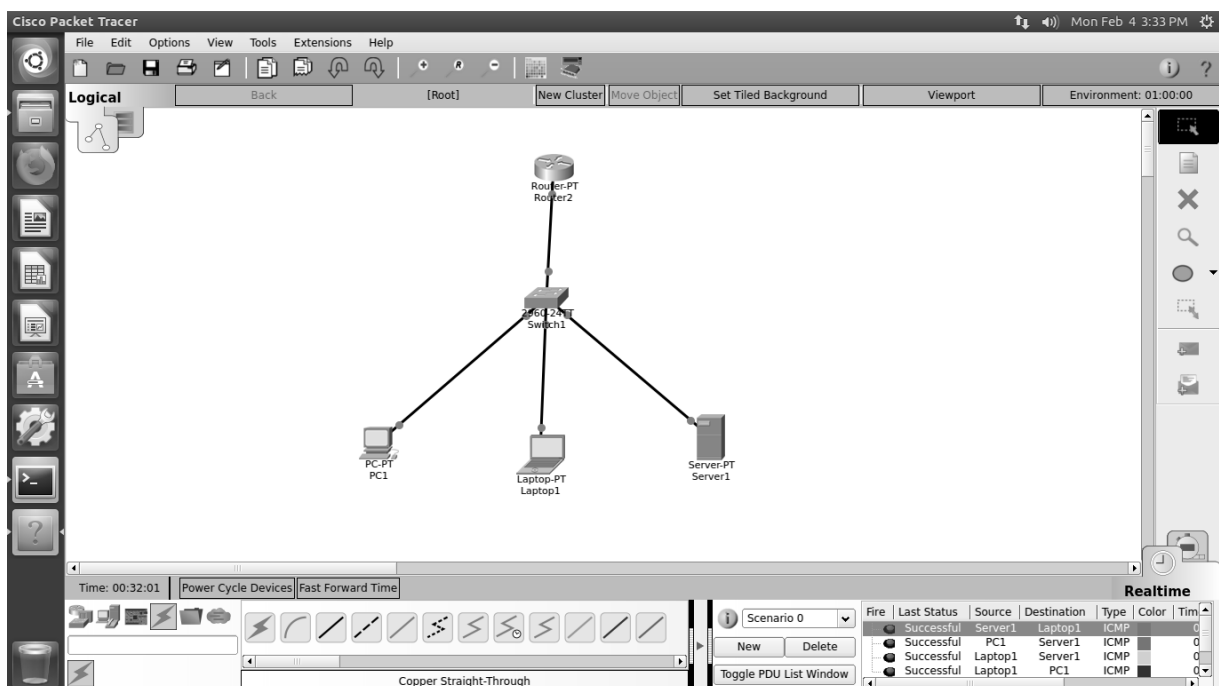
Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed
state to up

Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
Router#
```

Screen-Shot:



Name: Ranajit Roy, Sec: A, Roll: 47

Assignment-2

Problem Statement: Configure two Routers and connect them both with serial port.

CLI code:

Router-1:

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

Router(config)#interface gigabitEthernet 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 serial 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
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 192.168.11.0 255.255.255.0 10.0.0.0
Router(config)#
```

Router-2:

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

Router(config)#interface gigabitEthernet 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 serial 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 192.168.10.0 255.255.255.0 10.0.0.0
Router(config)#
```

Screen-Shot:

