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

Code: CS 692

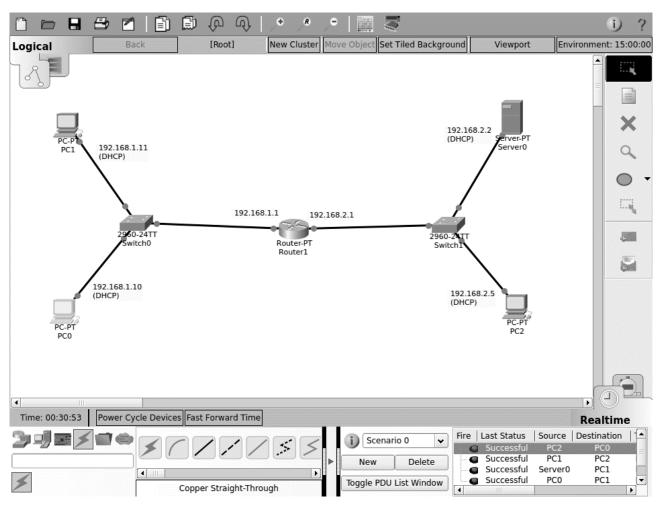
Date: 17/02/19

WEEK-3

Assignment-1

Problem Statement: Create a network and share IP address using DHCP.

Screen-Shot:



CLI code:

Router#config terminal

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

Router(config) #interface f 0/0

Router(config-if) #ip address 192.168.1.1 255.255.255.0

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

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```
Router(config-if)#exit
Router(config)#interface f 1/0
Router(config-if)#ip address 192.168.2.1 255.255.255.0
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet1/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0, changed state to up
exit
Router(config)#router rip
Router(config-router)#exit
Router(config)#interface f 0/0
Router(config-if)#ip helper-
Router(config-if)#ip helper-
Router(config-if)#ip helper-address 192.168.2.2
Router(config-if)#
```

Assignment-2

Problem Statement: Create a network and introduce a DNS in that network.

Screen-Shot:

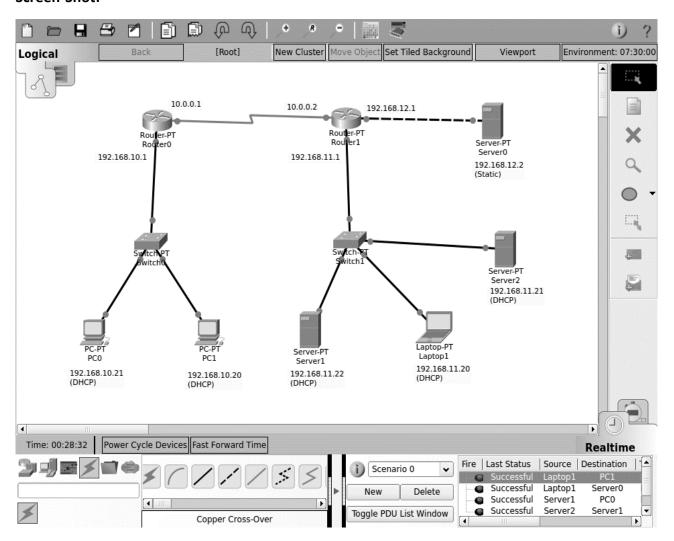


Fig: Network

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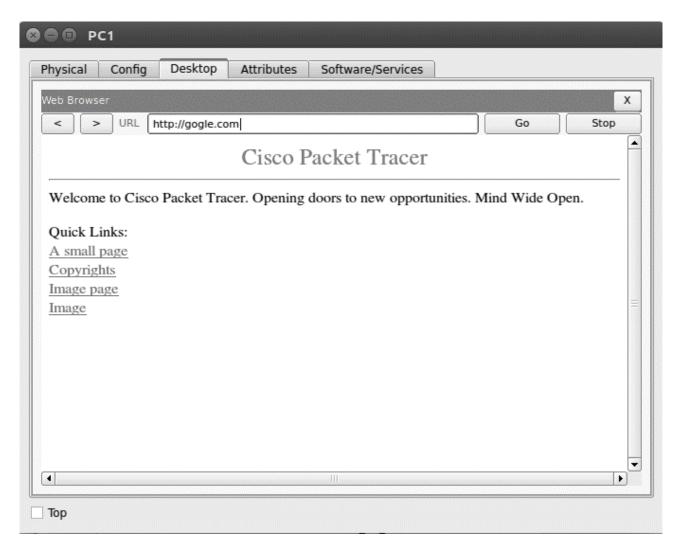


Fig: Browser in a terminal

CLI code:

Router-0:

```
Router>en
Router#config terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config) #interface f0/0
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-if)#exit
Router(config) #interface se2/0
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 Serial2/0, changed state to down
Router(config-if)#exit
Router(config) #interface f0/0
Router(config-if)#
```

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```
%LINK-5-CHANGED: Interface Serial2/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state
to up
Router(config-if) #ip helper-address 192.168.12.2
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) #exit
Router(config)#
Router-1:
Router>en
Router#config terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config) #interface se2/0
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 Serial2/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state
to up
Router(config-if)#exit
Router(config) #interface f1/0
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 FastEthernet1/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0, changed
state to up
Router(config-if) #exit
Router(config) #interface f0/0
Router(config-if) #ip address 192.168.11.1 255.255.255.0
Router(config-if) #ip helper-address 192.168.12.2
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-if) #exit
Router(config) #router rip
Router(config-router)#
Router (config-router) #network 192.168.11.0
Router (config-router) #network 192.168.12.0
Router(config-router) #network 10.0.0.0
Router (config-router) #exit
Router(config)#
```