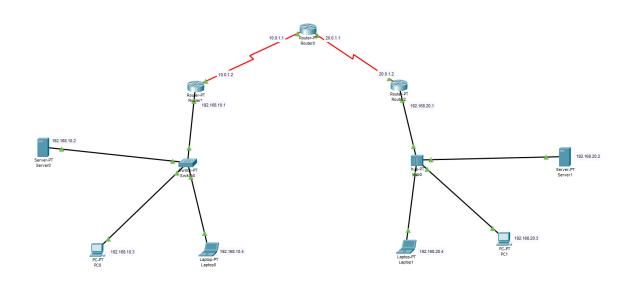
Cyber Security and Digital Forenscis

Practical 3: Exploring Router and VLAN security, setting up access lists using cisco packet tracer



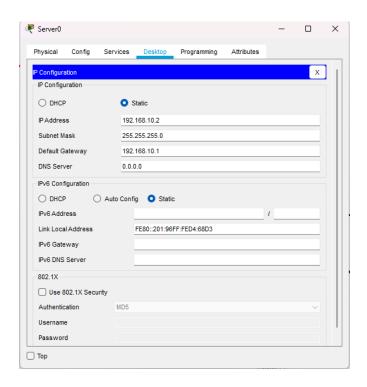
```
Router(config-if) #ip address 10.0.1.1 255.0.0.0
Router(config-if) #no shutdown
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial3/0
Router(config-if)#ip address
% Incomplete command.
Router(config-if) #ip address 20.0.1.1 255.0.0.0
Router(config-if) #ip address 20.0.1.1 255.0.0.0
Router(config-if) #no shutdown
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial2/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial3/0
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
%LINK-5-CHANGED: Interface Serial3/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed state to up
Router(config-if) #exit
Router(config) #router rip
Router(config-router) #network 10.0.0.0
Router(config-router) #network 20.0.0.0
Router(config-router)#
Router(config-router) #end
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface Serial2/0
Router(config-if)#
%SYS-5-CONFIG_I: Configured from console by console
```

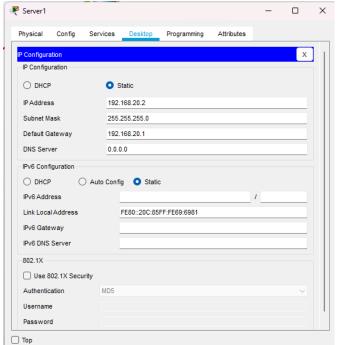
```
Would you like to enter the initial configuration dialog? [yes/no]: n
Press RETURN to get started!
Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z. Router(config) #interface Serial2/0
Router(config-if) #ip address 10.0.1.2 255.0.0.0
Router(config-if) #ip address 10.0.1.2 255.0.0.0
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 FastEthernet0/0
Router(config-if) #interface FastEthernetU/O
Router(config-if) #ip address 192.168.10.1 255.255.255.0
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) #router rip
Router(config-router) #network 10.0.0.0
Router(config-router) #network 192.168.10.0
Router(config-router)#
Router(config-router) #end
Router#configure terminal 
Enter configuration commands, one per line. End with CNTL/Z.
Router(config) #router rip
ROUTEF(CONFIG_I) #FUNCE: ITY
ROUTEF(Config-router) #
%SYS-5-CONFIG_I: Configured from console by console
no network 10.0.0.0
Router(config-router) #network 10.0.0.0
Router(config-router)#
Router(config-router)#end
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config) #interface Serial2/0
Router(config-if) # %SYS-5-CONFIG_I: Configured from console by console
Router(config-if)#exit
Router(config)#interface FastEthernet0/0
Router(config-if)#
```

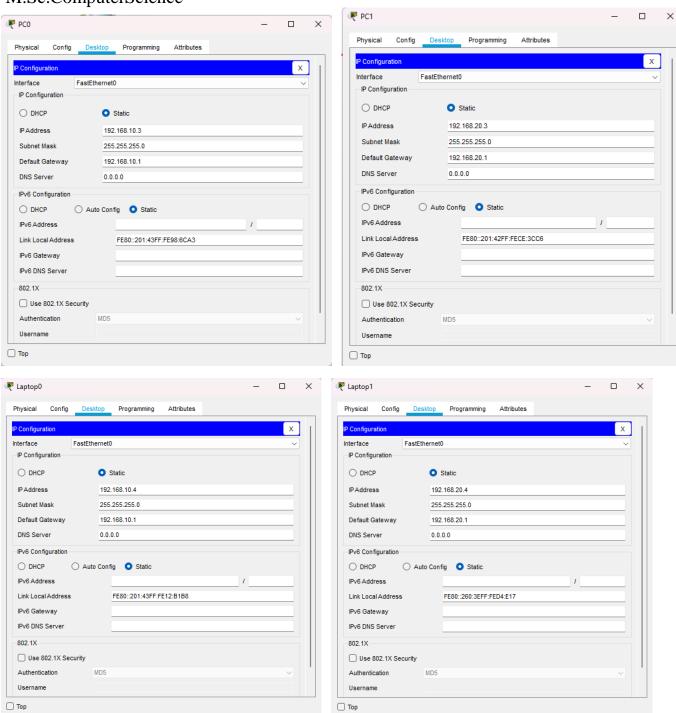
Would you like to enter the initial configuration dialog? [yes/no]: n

Press RETURN to get started!

```
Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config) #interface Serial2/0
Router(config-if) #ip address 20.0.1.2 255.0.0.0
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 FastEthernet0/0
Router(config-if) #ip address 192.168.20.1 255.255.255.0
Router(config-if) #ip address 192.168.20.1 255.255.255.0
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) #router rip
Router(config-router) #network 20.0.0.0
Router(config-router) #network 192.168.20.0
Router(config-router) #
```







```
Physical Config Desktop Programming Attributes

Command Prompt

C:\>ping 192.168.10.1

Pinging 192.168.10.1 with 32 bytes of data:

Reply from 192.168.10.1: bytes=32 time=\ms TII=255

Ping statistics for 192.168.10.1:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

Minimum = Oms, Maximum = lms, Average = Oms

C:\>ping 10.0.1.1 with 32 bytes of data:

Reply from 10.0.1.1: bytes=32 time=2ms TII=354

Reply from 20.0.1.1 with 32 bytes of data:

Reply from 20.0.1.1: bytes=32 time=5ms TII=354

Reply from 20.0.1.1: bytes=32 time=2ms TII=354

Reply from 20.0.1.1: bytes=32 time=1ms TII=354

Reply from 20.0.1.1: bytes=32 time=2ms TII=
```

```
Command Princy

Ding statistics for 103.160.10.1:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

Hinimum = 100.1.1.1 bytes=02 time=fine TTI=056
Reply from 10.0.1.1: bytes=02 time=fine TTI=056
Reply from 20.0.1.1: bytes=02 time=fine TTI=058
Reply from 20.0.1.1: bytes=02 time=fine TTI=058
Reply from 100.160.20.1

Pinging 102.160.20.1

Pinging 102.160.20.1 bytes=02 time=fine TTI=058
Reply from 102.160.20.1 bytes=02 time=fine TTI=058
Reply from 102.160.20.3 bytes=02 time=fine TTI=158
Reply from 102.160.20.3 bytes=02
```

```
Router>en
Router#config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config) #access-list?
access-list
Router(config) #access-list
% Incomplete command.
Router(config) #access-list?
access-list
Router(config) #access-list
% Incomplete command.
Router(config) #access-list?
access-list
Router(config) #access-list ?
 <1-99> IP standard access list
<100-199> IP extended access list
Router(config) #access-list
% Incomplete command.
Router(config)#interface FastEthernet0/0
Router(config-if) #access-list 10 deny 192.168.10.2 0.0.0.0
Router(config) #access-list 10 permit any
Router(config) #access-list 10 deny 192.168.10.2 0.0.0.0
Router(config)#interface s0
% Invalid input detected at '^' marker.
Router(config) #interface FastEthernet0/0
Router(config-if) #interface Se
Router(config-if) #interface Serial2/0
Router(config-if) #ip access-group 10 out
Router(config-if)#exit
Router(config)#
```