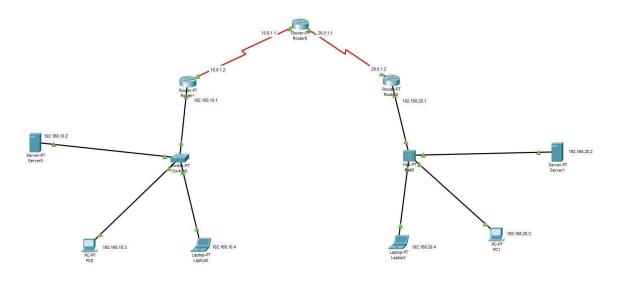
Cyber Security and Digital Forensics

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
```

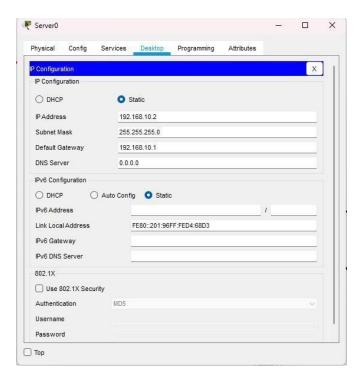
```
Would you like to enter the initial configuration dialog? [yes/no]: n
Press RETURN to get started!
Router>enable
Router#
Router#configure terminal
Router(config)#interface Serial2/0
Router(config)#interface Serial2/0
Router(config)#interface Serial2/0
Router(config)#ip address 10.0.1.2 255.0.0.0
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) pexit
Router(config) pinterface FastEthernet0/0
Router(config-if) pip address 192.168.10.1 255.255.255.0
Router(config-if) pip address 192.168.10.1 255.255.255.0
Router(config-if) #no shutdown
Router(config-if)#
%LINK-S-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/2.
Router(config)#router rip
Router(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)#
```

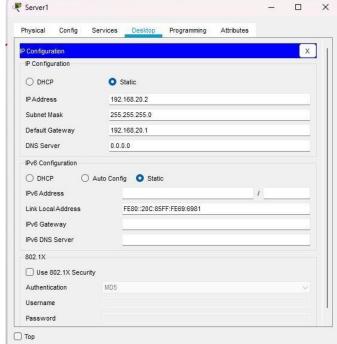
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Would you like to enter the initial configuration dialog? [yes/no]: n

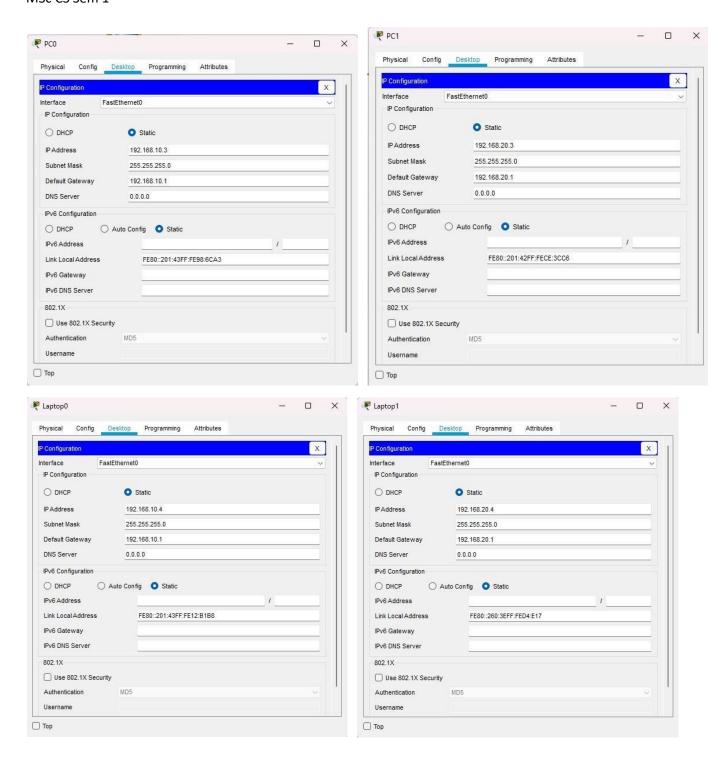
Press RETURN to get started!

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)#





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```
Physical Config Desktop Programming Attributes

Command Prompt

C:\Pping 192.168.10.1

Pinging 192.168.10.1: bytes=32 time-lns TTL=255

Reply from 192.168.10.1: bytes=32 time-lns TTL=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 = Ons, Maximum = Ins, Average = Ons

C:\Pping 10.0.1.1

Pinging 10.0.1.1 with 32 bytes of data:

Reply from 10.0.1.1: bytes=32 time=2ms TTL=254

Reply from 10.0.1.1: bytes=32 time=2ms TTL=254

Reply from 10.0.1.1: bytes=32 time=2ms TTL=264

Reply from 10.0.1.1: bytes=32 time=3ms TTL=264

Reply from 20.0.1.1: bytes=32 time=3ms TTL=264

Reply from 20.0.1.1: bytes=32 time=3ms TTL=264

Reply from 20.0.1.1: bytes=32 time=2ms TTL=264

Reply from 20.0.
```

```
Command Prompt

Sing statistics for 192.169.10.1:
    Packets: Sent = 4, Bacctved = 4, Lost = 0 (0% loss), Approximate round trip times in milit-seconds:
    Itiniams = 0ss, Marinum = 1ss, Austrage = 0ss
    C:\pping 10.0.1.1 tht 32 bytes of data:
    Beply from 10.0.1.1: bytes=02 time=1ss TII=054
    Beply from 00.0.1.1: bytes=02 time=1ss TII=054
    Beply from 10.0.1.1: bytes=02 time=1ss TII=054
    Beply from 10.0.1.1: bytes=02 time=1ss TII=054
    Beply from 10.0.1.1: bytes=02 time=1ss TII=055
    Beply from 10.0.1.1: bytes=02 time=1ss TII=055
    Beply from 10.0.1.10.10: bytes=02 time=1ss TII=055
    Beply from 10.0.1.10.0.0: bytes=02 time=1ss TII=055
    Beply from 10.0.1.10.0.0: bytes=02 time=1ss TII=105
    Beply from 10.0.1.10: bytes=02 time=1ss TII=105
    Beply from 10.0.10: bytes=02 time=1ss TII=105
    Beply fro
```

```
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) #
```

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