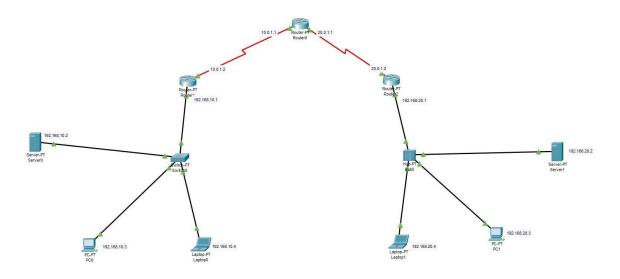
Cyber Security and Digital Forensics

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



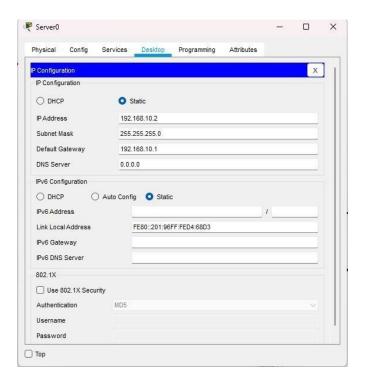
```
Router(config-if)#ip address 10.0.1.1 255.0.0.0
Router(config-if) #no shutdown
Router(config-if)#
Router(config-if) #exit
Router(config) #interface Serial3/0
Router(config-if) #ip address
% Incomplete command.
Router(config-if) #ip address 20.0.1.1 255.0.0.0
Router(config-if) #ip address 20.0.1.1 255.0.0.0
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
Enter configuration commands, one per line. End with {\tt 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-if)#exit
Router(config)#interface FastEthernet0/0
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
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)#
```

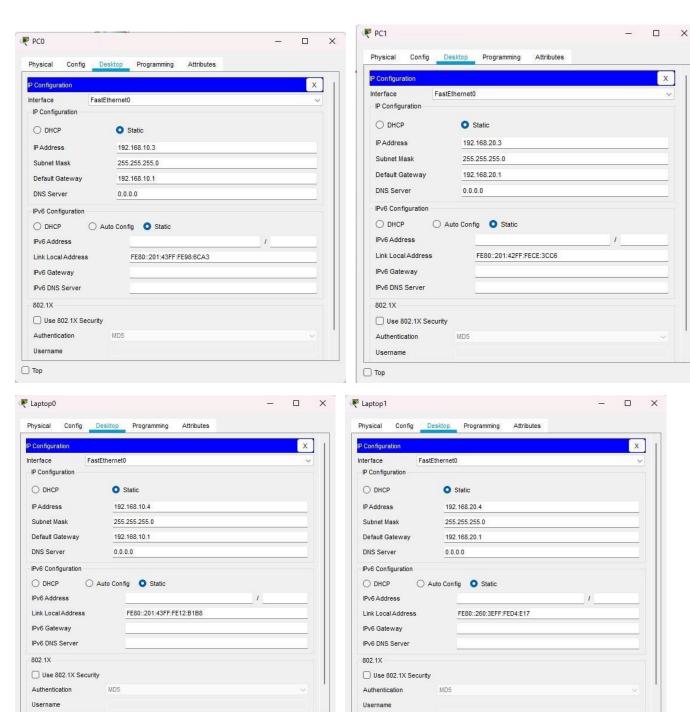
Would you like to enter the initial configuration dialog? [yes/no]: n

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:\>ping 192.168.10.1

Pinging 192.168.10.1 with 32 bytes of data:

Reply from 192.168.10.1: bytes=32 time=\ims TIL=255

Paing statistics for 192.168.10.1:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = lms, Average = 0ms

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

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

Ping statistics for 10.0.1.1:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 2ms, Maximum = Sms, Average = 2ms

C:\>ping 20.0.1.1

Pinging 20.0.1.1: bytes=32 time=2ms TIL=254

Reply from 20.0.1.1: bytes=32 time=2ms TIL=254

Reply from 20.0.1.1: bytes=32 time=3ms TIL=254

Reply from 20.0.1.1: bytes=32 time=
```

```
Command Frompt

Eing statistics for 192.168.10.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in mills-seconds:
    Hinlams loss, Haisman = Ims, Average = Ones
    Chyping 10.0.1.1: bytes=32 time=Ams TII=364
    Baply from 10.0.1.1: bytes=32 time=Ams TII=364
    Raply from 20.0.1.1: bytes=32 time=Ams TII=364
    Baply from 30.0.1.1: bytes=32 time=Ams TII=364
    Baply from 30.0.1.1: bytes=32 time=Ams TII=364
    Baply from 30.0.1.1: bytes=32 time=Ams TII=365
    Baply from 132.163.20.1: bytes=32 time=Ams TII=35
    Baply from 132.163.20.1: bytes=32 time=Ams TII=35
    Baply from 132.163.20.1: bytes=32 time=Ams TII=35
    Baply from 132.163.20.3: bytes=32 time=Ams TII=35
    Baply from 132.163.20.3: bytes=32 time=Ams TII=35
    Baply from 32.163.20.3: bytes=32 time=Ams TII=35
    Baply from 32.163.20.3: bytes=32 time=Ams TII=35
    Baply from 32.163.20.3: bytes=32 time=Ams TII=35
    Baply from 132.163.20.3: bytes=32 time=Ams TII=35
    Baply from 32.1
```

```
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)#
```