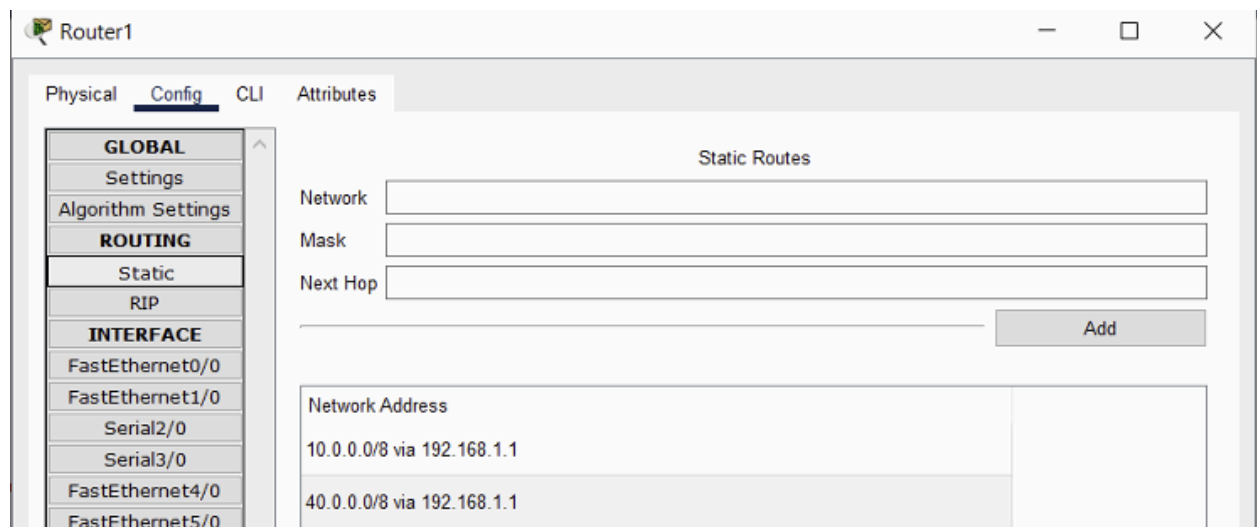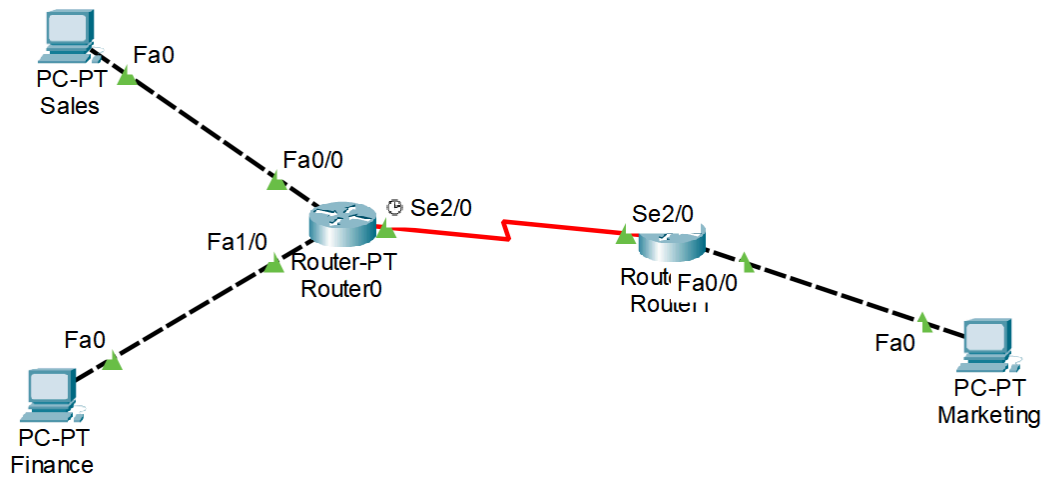CN Lab 6B

22k-4804

Task 1:

Physical   Config   CLI   Attributes

GLOBAL
Settings
Algorithm Settings
ROUTING
Static
RIP
INTERFACE
FastEthernet0/0
FastEthernet1/0
Serial2/0
Serial3/0

Static Routes

Network

Mask

Next Hop

Add

Network Address

30.0.0.0/8 via 192.168.1.2

```
Router(config)#access-list 1 permit 10.0.0.2 0.0.0.0
Router(config)#access-list 1 deny 40.0.0.2 0.0.0.0
Router(config)#in se2/0
Router(config-if)#ip access-group 1 out
Router(config-if)#
Router(config-if)#
Router(config-if)#exit
Router(config)#router rip
Router(config-router)#
Router(config-router)#end
Router#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#
Router(config)#
%SYS-5-CONFIG_I: Configured from console by console

Router(config)#show access-lists
                   ^
% Invalid input detected at '^' marker.

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

Router#
Router#show access-lists
Standard IP access list 1
    10 permit host 10.0.0.2
    20 deny host 40.0.0.2
```

Command Prompt

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 30.0.0.2

Pinging 30.0.0.2 with 32 bytes of data:

Reply from 40.0.0.1: Destination host unreachable.
Reply from 40.0.0.1: Destination host unreachable.
Reply from 40.0.0.1: Destination host unreachable.
Reply from 40.0.0.1: Destination host unreachable.

Ping statistics for 30.0.0.2:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>
```

Marketing

Physical   Config   Desktop   Programming   Attributes

Command Prompt

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 10.0.0.2

Pinging 10.0.0.2 with 32 bytes of data:

Request timed out.
Reply from 10.0.0.2: bytes=32 time=4ms TTL=126
Reply from 10.0.0.2: bytes=32 time=2ms TTL=126
Reply from 10.0.0.2: bytes=32 time=9ms TTL=126

Ping statistics for 10.0.0.2:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 9ms, Average = 5ms

C:\>
```

Task 2:

Marketing

Physical **Config** **Desktop** **Programming** **Attributes**

Command Prompt

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 40.0.0.2

Pinging 40.0.0.2 with 32 bytes of data:

Reply from 40.0.0.2: bytes=32 time=4ms TTL=126
Reply from 40.0.0.2: bytes=32 time=3ms TTL=126
Reply from 40.0.0.2: bytes=32 time=3ms TTL=126
Reply from 40.0.0.2: bytes=32 time=2ms TTL=126

Ping statistics for 40.0.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 4ms, Average = 3ms
```

Finance

Physical **Config** **Desktop** **Programming** **Attributes**

Command Prompt

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 40.0.0.2

Pinging 40.0.0.2 with 32 bytes of data:

Reply from 40.0.0.2: bytes=32 time<1ms TTL=127
Reply from 40.0.0.2: bytes=32 time<1ms TTL=127
Reply from 40.0.0.2: bytes=32 time<1ms TTL=127
Reply from 40.0.0.2: bytes=32 time<1ms TTL=127

Ping statistics for 40.0.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

```
Pinging 40.0.0.2 with 32 bytes of data:

Reply from 40.0.0.2: bytes=32 time=2ms TTL=128
Reply from 40.0.0.2: bytes=32 time=5ms TTL=128
Reply from 40.0.0.2: bytes=32 time<1ms TTL=128
Reply from 40.0.0.2: bytes=32 time<1ms TTL=128

Ping statistics for 40.0.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 5ms, Average = 1ms

C:\>ping 10.0.0.2

Pinging 10.0.0.2 with 32 bytes of data:

Reply from 40.0.0.1: Destination host unreachable.
Reply from 40.0.0.1: Destination host unreachable.
Reply from 40.0.0.1: Destination host unreachable.
Reply from 40.0.0.1: Destination host unreachable.

Ping statistics for 10.0.0.2:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

```
C:\>ping 30.0.0.2

Pinging 30.0.0.2 with 32 bytes of data:

Reply from 40.0.0.1: Destination host unreachable.
Reply from 40.0.0.1: Destination host unreachable.
Reply from 40.0.0.1: Destination host unreachable.
Reply from 40.0.0.1: Destination host unreachable.

Ping statistics for 30.0.0.2:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

```
Router>
Router>en
Router#config t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#access-list 110 deny icmp host 40.0.0.2 any echo
Router(config)#access-list 110 permit icmp any host 40.0.0.2 echo-reply
Router(config)#access-list 110 permit ip any any
Router(config)#interface Se2/0
Router(config-if)#ip access-group 110 out
Router(config-if)#exit
Router(config)#interface Fa1/0
Router(config-if)#ip access-group 110 out
Router(config-if)#
```

Tsk 3:

```
Enter configuration commands, one per line.   End with CNTL/Z.
Router(config)#access-list 120 deny ip 10.0.0.0 0.255.255.255 30.0.0.0 0.255.255.255
Router(config)#access-list 120 permit ip any any
Router(config)#int fal/0
Router(config-if)#ip access-group 120 out
Router(config-if)#exit
Router(config)#interface fal/0
Router(config-if)#no ip access-group 120 out
Router(config-if)#ip access-group 120 in
Router(config-if)#
```
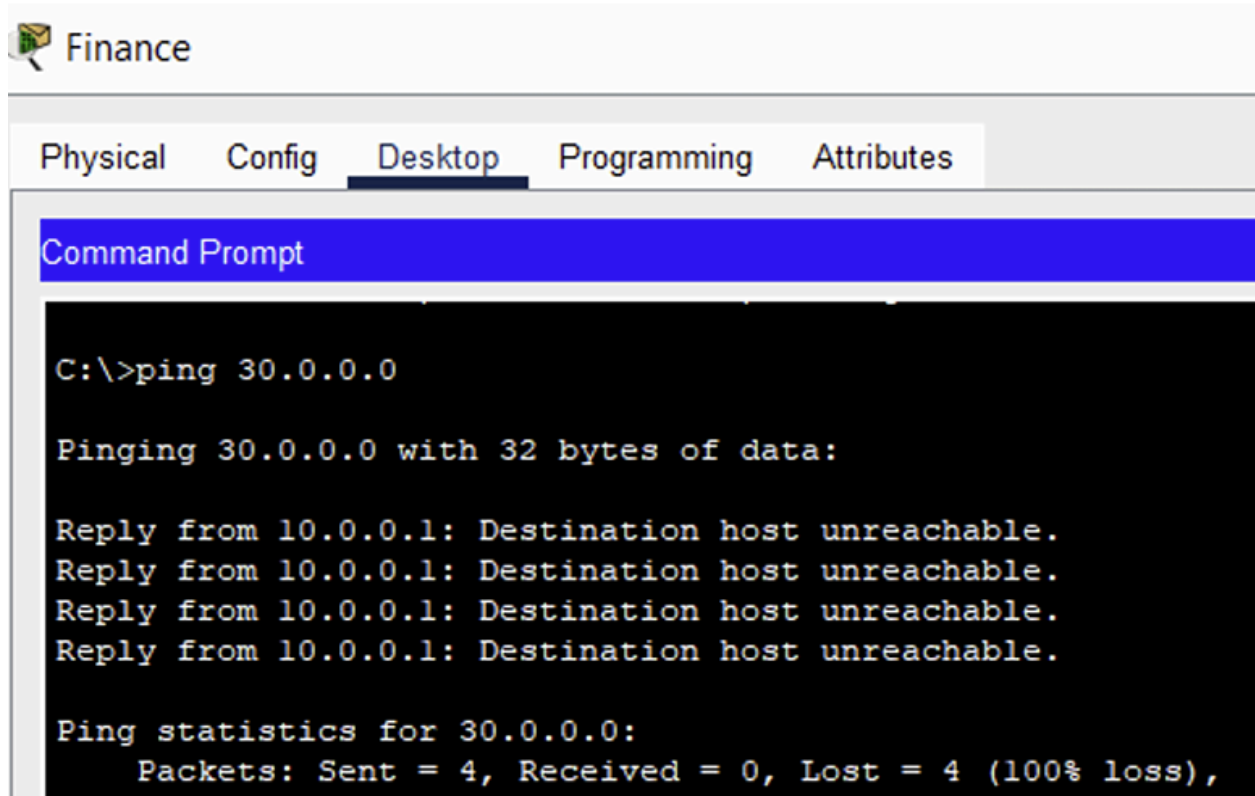
```
C:\>ping 10.0.0.0

Pinging 10.0.0.0 with 32 bytes of data:

Reply from 192.168.1.1: bytes=32 time=26ms TTL=254
Reply from 192.168.1.1: bytes=32 time=20ms TTL=254
Reply from 192.168.1.1: bytes=32 time=15ms TTL=254
Reply from 192.168.1.1: bytes=32 time=15ms TTL=254

Ping statistics for 10.0.0.0:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 15ms, Maximum = 26ms, Average = 19ms
```

Finance

Physical	Config	Desktop	Programming	Attributes

Command Prompt

```
C:\>ping 30.0.0.0

Pinging 30.0.0.0 with 32 bytes of data:

Reply from 10.0.0.1: Destination host unreachable.
Reply from 10.0.0.1: Destination host unreachable.
Reply from 10.0.0.1: Destination host unreachable.
Reply from 10.0.0.1: Destination host unreachable.

Ping statistics for 30.0.0.0:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

Lab Task 1:

A)

Physical   Config   CLI   Attributes

IOS Command Line Interface

```
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet1/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet1/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet1/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/0
Router(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

Router(config-if)#exit
Router(config)#interface FastEthernet0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet1/0
Router(config-if)#ip address
% Incomplete command.
Router(config-if)#ip address
% Incomplete command.
Router(config-if)#
Router(config-if)#exit
Router(config)#
Router(config)#
Router(config)#
Router(config)#
Router(config)#access-list 100 deny ip 192.168.1.0 0.0.0.255 192.168.2.0 0.0.0.255
Router(config)#access-list 100 permit ip any any
Router(config)#interface se2/0
Router(config-if)#ip access-group 100 out
Router(config-if)#exit
Router(config)#
```
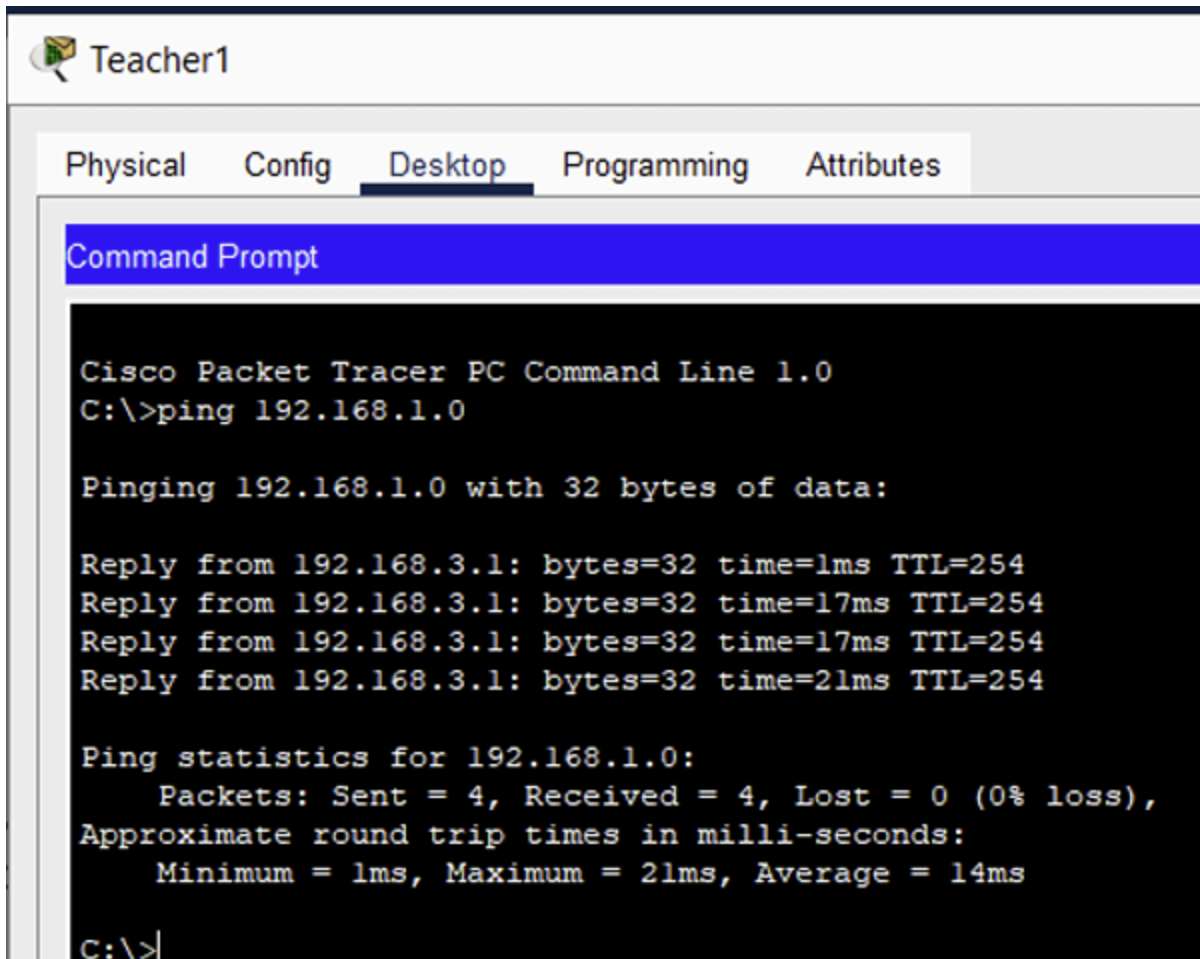
Student1

Physical   Config   **Desktop**   Programming   Attributes

Command Prompt

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.2.0

Pinging 192.168.2.0 with 32 bytes of data:

Reply from 192.168.1.1: Destination host unreachable.
Reply from 192.168.1.1: Destination host unreachable.
Reply from 192.168.1.1: Destination host unreachable.
Reply from 192.168.1.1: Destination host unreachable.

Ping statistics for 192.168.2.0:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

Teacher1

| Physical | Config | Desktop | Programming | Attributes |

Command Prompt

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.0

Pinging 192.168.1.0 with 32 bytes of data:

Reply from 192.168.3.1: bytes=32 time=1ms TTL=254
Reply from 192.168.3.1: bytes=32 time=17ms TTL=254
Reply from 192.168.3.1: bytes=32 time=17ms TTL=254
Reply from 192.168.3.1: bytes=32 time=21ms TTL=254

Ping statistics for 192.168.1.0:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 21ms, Average = 14ms

C:\>
```

b)

```
Router(config)#access-list 101 permit ip host 192.168.1.2 192.168.2.0 0.0.0.255
Router(config)#access-list 101 deny ip 192.168.1.0 0.0.0.255 192.168.2.0 0.0.0.255
Router(config)#access-list 101 permit ip any any
Router(config)#interface se2/0
Router(config-if)#ip access-group 101 out
```

Student1

Command Prompt

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.2.2

Pinging 192.168.2.2 with 32 bytes of data:

Request timed out.
Reply from 192.168.2.2: bytes=32 time=14ms TTL=126
Reply from 192.168.2.2: bytes=32 time=12ms TTL=126
Reply from 192.168.2.2: bytes=32 time=23ms TTL=126

Ping statistics for 192.168.2.2:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 12ms, Maximum = 23ms, Average = 16ms
```

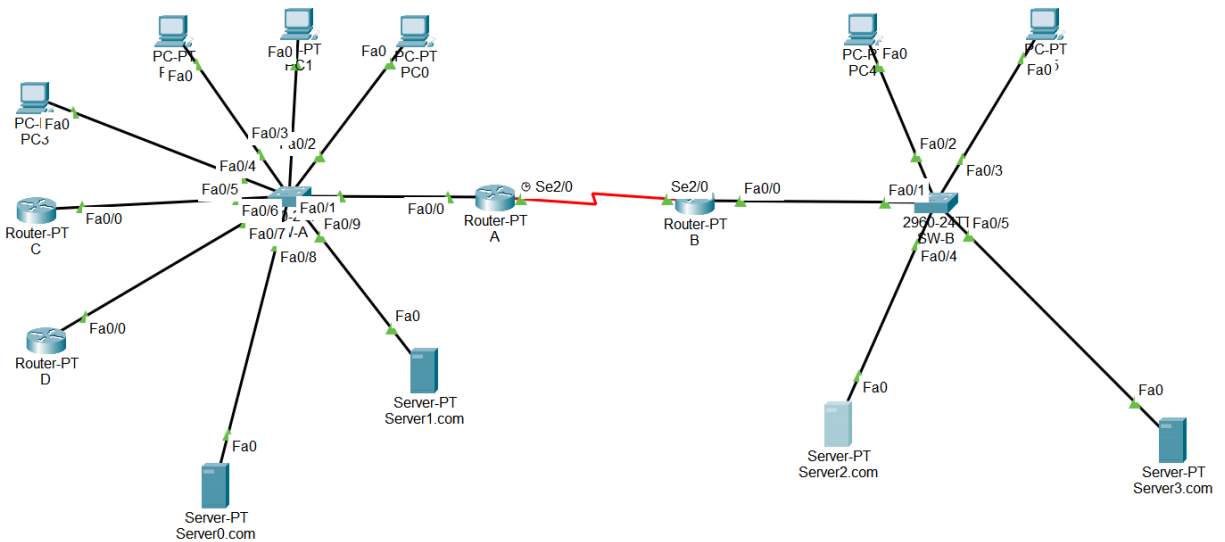Physical   Config   Desktop   Programming   Attributes

Command Prompt

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.2.2

Pinging 192.168.2.2 with 32 bytes of data:

Reply from 192.168.1.1: Destination host unreachable.
Reply from 192.168.1.1: Destination host unreachable.
Reply from 192.168.1.1: Destination host unreachable.
Reply from 192.168.1.1: Destination host unreachable.

Ping statistics for 192.168.2.2:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

Q2)

A)

A

IOS Command Line Interface

```
Router#
Router#
Router#config t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#access-list 10 deny 192.168.1.10
Router(config)#access-list 10 permit any
Router(config)#interface fa0/0
Router(config-if)#ip access-group 10 out
```

PC3

Physical | Config | Desktop | Programming | Attributes

Command Prompt

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.8

Pinging 192.168.1.8 with 32 bytes of data:

Reply from 192.168.1.8: bytes=32 time<1ms TTL=128
Reply from 192.168.1.8: bytes=32 time<1ms TTL=128
Reply from 192.168.1.8: bytes=32 time<1ms TTL=128
Reply from 192.168.1.8: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.1.8:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 192.168.2.5

Pinging 192.168.2.5 with 32 bytes of data:

Reply from 192.168.1.1: Destination host unreachable.
Reply from 192.168.1.1: Destination host unreachable.
Reply from 192.168.1.1: Destination host unreachable.
Reply from 192.168.1.1: Destination host unreachable.

Ping statistics for 192.168.2.5:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

2)

B

```
Router>en
Router#config t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#access-list 100 permit tcp 192.168.1.0 0.0.0.255 host 192.168.2.6 eq 80
Router(config)#access-list 100 deny ip 192.168.1.0 0.0.0.255 host 192.168.2.6
Router(config)#access-list 100 permit ip any any
Router(config)#interface fa0/0
Router(config-if)#ip access-group 100 in
```

Command Prompt

```
Cisco Packet Tracer PC Command Line 1.0
C:\>telnet 192.168.2.6 80
Trying 192.168.2.6 ...Open
```

```
C:\>telnet 192.168.2.6 22
Trying 192.168.2.6 ...
% Connection timed out; remote host not responding
```

3)

A

```
Router>
Router>en
Router#config t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#
Router(config)#access-list 110 permit tcp host 192.168.1.8 host 192.168.1.15 eq 22
Router(config)#access-list 110 deny tcp any host 192.168.1.15 eq 23
Router(config)#access-list 110 deny tcp any host 192.168.1.15 eq 3389
Router(config)#access-list 110 permit ip any any
Router(config)#interface fa0/0
Router(config-if)#ip access-group 110 in
```

```
C:\>ssh -l admin 192.168.1.1

Password:



RouterA#
```

PC2

```
C:\>ssh -l admin 192.168.1.1

% Connection timed out; remote host not responding
C:\>
```

4)

B   —

Physical   Config   CLI   Attributes

IOS Command Line Interface

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to down


%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up


Router>
Router>en
Router#config t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#access-list 101 deny icmp 192.168.1.0 0.0.0.255 192.168.2.0 0.0.0.255
Router(config)#access-list 101 deny icmp 192.168.2.0 0.0.0.255 192.168.1.0 0.0.0.255
Router(config)#access-list 101 permit ip any any
Router(config)#interface fa0/0
Router(config-if)#ip access-group 101 in
Router(config-if)#exit
Router(config)#interface fa0/1
%Invalid interface type and number
Router(config)#interface se2/0
Router(config-if)#ip access-group 101 in
Router(config-if)#exit
Router(config)#interface fa0/0
Router(config-if)#ip access-group 101 in
Router(config-if)#exit
Router(config)#
```

PC2

Physical   Config   Desktop   Programming   Attributes

Command Prompt

```
C:\>ping 192.168.2.5

Pinging 192.168.2.5 with 32 bytes of data:

Reply from 192.168.1.1: Destination host unreachable.
Reply from 192.168.1.1: Destination host unreachable.
Reply from 192.168.1.1: Destination host unreachable.
Reply from 192.168.1.1: Destination host unreachable.

Ping statistics for 192.168.2.5:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>ping 192.168.1.9

Pinging 192.168.1.9 with 32 bytes of data:

Reply from 192.168.1.9: bytes=32 time<1ms TTL=128
Reply from 192.168.1.9: bytes=32 time<1ms TTL=128
Reply from 192.168.1.9: bytes=32 time<1ms TTL=128
Reply from 192.168.1.9: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.1.9:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

5)

A   —

```
% Ambiguous command: "e"
RouterA>en
RouterA#config t
Enter configuration commands, one per line.  End with CNTL/Z.
RouterA(config)#
RouterA(config)#access-list 102 deny tcp 192.168.2.0 0.0.0.255 host 192.168.1.14 eq 21
RouterA(config)#access-list 102 permit ip any any
RouterA(config)#interface Se2/0
RouterA(config-if)#ip access-group 102 in
RouterA(config-if)#exit
RouterA(config)#
```

PC0

```
C:\>ftp 192.168.1.14
Trying to connect...192.168.1.14
Connected to 192.168.1.14
220- Welcome to PT Ftp server
```

PC4

```
C:\>ftp 192.168.1.14
Trying to connect...192.168.1.14

%Error opening ftp://192.168.1.14/ (Timed out)
.




(Disconnecting from ftp server)
```