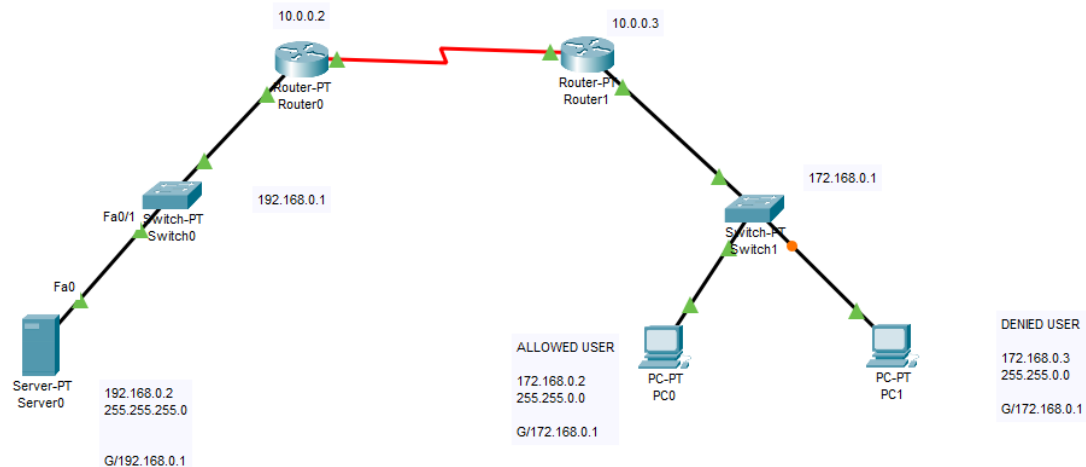


## Topology:



## Router 1 Configuration:

```
Router>en
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#host R1
R1(config)#int fa0/0
R1(config-if)#ip add 192.168.0.1 255.255.255.0
R1(config-if)#no shut

R1(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

R1(config-if)#int se2/0
R1(config-if)#ip add 10.0.0.2 255.0.0.0
R1(config-if)#clock rate 64000
R1(config-if)#no shut

%LINK-5-CHANGED: Interface Serial2/0, changed state to down
R1(config-if)#router rip
R1(config-router)#net 10.0.0.0
R1(config-router)#net 192.168.0.0
R1(config-router)#
```

## Router 2 Configuration:

```
Router>en
Router#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#host R2
R2(config)#int f0/0
R2(config-if)#ip add 172.168.0.1 255.255.0.0
R2(config-if)#no shut

R2(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

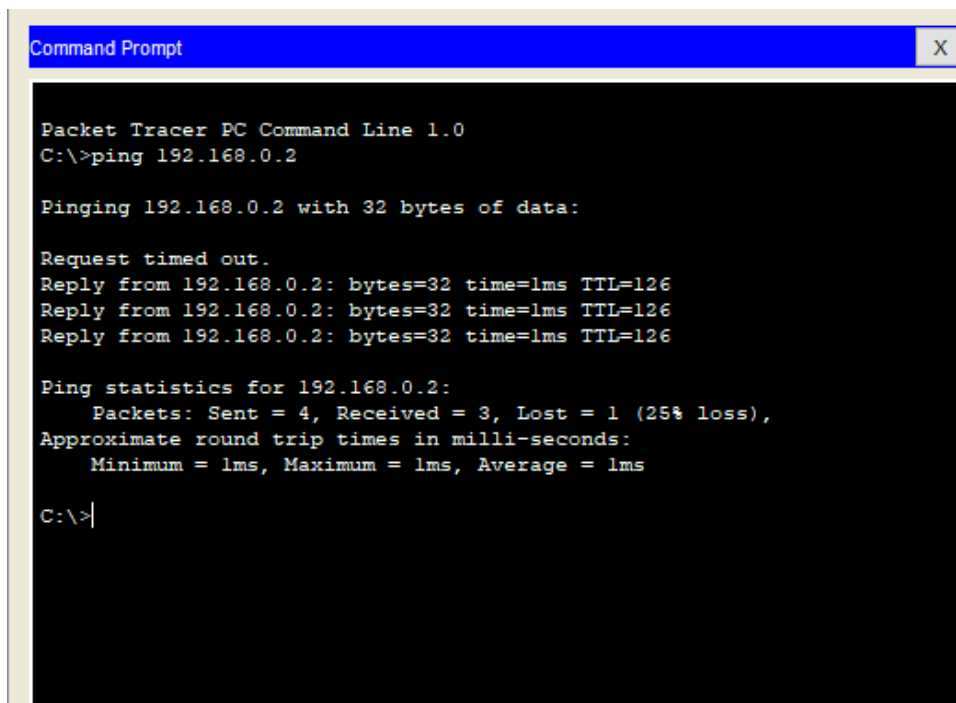
R2(config-if)#int se2/0
R2(config-if)#ip add 10.0.0.3 255.0.0.0
R2(config-if)#no shut

R2(config-if)#
%LINK-5-CHANGED: Interface Serial2/0, changed state to up

R2(config-if)#router rip
```

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed
state to up
nen
R2(config-router)#net 10.0.0.0
R2(config-router)#net 172.168.0.0
R2(config-router)#
R2(config-router)#end
R2#copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
R2#
%SYS-5-CONFIG_I: Configured from console by console
```

## Connection Establishment:



```
Command Prompt X

Packet Tracer PC Command Line 1.0
C:\>ping 192.168.0.2

Pinging 192.168.0.2 with 32 bytes of data:

Request timed out.
Reply from 192.168.0.2: bytes=32 time=1ms TTL=126
Reply from 192.168.0.2: bytes=32 time=1ms TTL=126
Reply from 192.168.0.2: bytes=32 time=1ms TTL=126

Ping statistics for 192.168.0.2:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 1ms, Average = 1ms

C:\>|
```

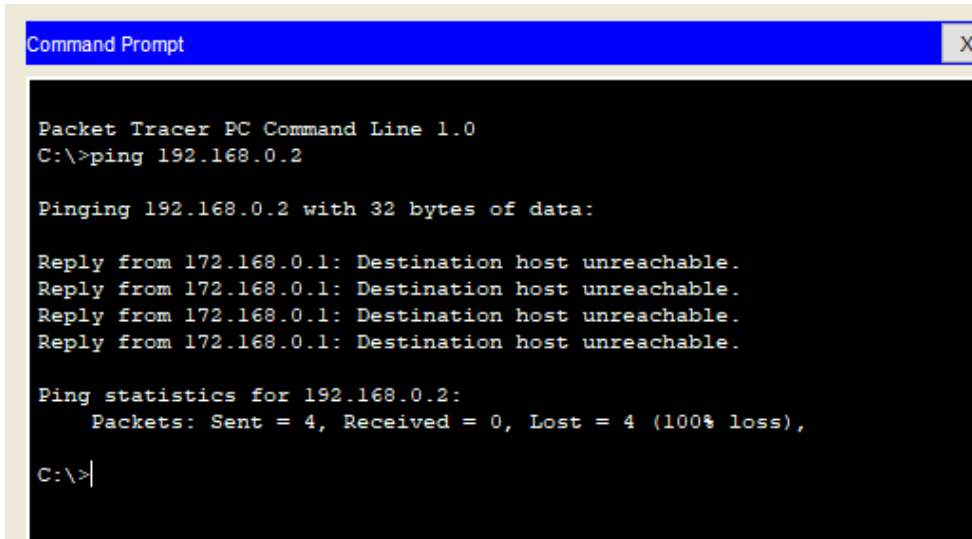
## ACL (Blocking Host):

```
[OK]
R2#conf t
Enter configuration commands, one per line. End with CNTL/Z.
R2(config)#access-list 14 deny host 172.168.0.3
R2(config)#access-list 14 permit any
R2(config)#int se2/0
R2(config-if)#ip access-group 14 out
R2(config-if)#int f0/0
R2(config-if)#ip access-group 14 in
R2(config-if)#exit
R2(config)#exit
R2#
%SYS-5-CONFIG_I: Configured from console by console

R2#show access-lists
Standard IP access list 14
    10 deny host 172.168.0.3
    20 permit any

R2#
R2#copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
R2#
```

## Host Connection Denied:



```
Command Prompt X

Packet Tracer PC Command Line 1.0
C:\>ping 192.168.0.2

Pinging 192.168.0.2 with 32 bytes of data:

Reply from 172.168.0.1: Destination host unreachable.
Reply from 172.168.0.1: Destination host unreachable.
Reply from 172.168.0.1: Destination host unreachable.
Reply from 172.168.0.1: Destination host unreachable.

Ping statistics for 192.168.0.2:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>
```

## ACL (Blocking Full Network):

```
R2(config-if)#ip access-group 14 in
R2(config-if)#int se2/0
R2(config-if)#ip access-group 14 out
R2(config-if)#exit
R2(config)#exit
R2#
%SYS-5-CONFIG_I: Configured from console by console

R2#conf t
Enter configuration commands, one per line. End with CNTL/Z.
R2(config)#access-list 14 deny host 172.168.0.0
R2(config)#int f0/0
R2(config-if)#ip access-group 14 in
R2(config-if)#int se2/0
R2(config-if)#ip access-group 14 out
R2(config-if)#exit
R2(config)#exit
R2#
%SYS-5-CONFIG_I: Configured from console by console

R2#show access-lists
Standard IP access list 14
    10 deny host 172.168.0.0

R2#
```

## Network Connection Denied:

```
Command Prompt

Packet Tracer PC Command Line 1.0
C:\>ping 192.168.0.0

Pinging 192.168.0.0 with 32 bytes of data:

Reply from 172.168.0.1: Destination host unreachable.
Reply from 172.168.0.1: Destination host unreachable.
Reply from 172.168.0.1: Destination host unreachable.
Reply from 172.168.0.1: Destination host unreachable.

Ping statistics for 192.168.0.0:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>|
```