

Here , 2 PC and a router is set up in the network

PC0: IP address 192.168.1.10, subnet mask 255.255.255.0, default gateway 192.168.1.1 (Router0's interface).

PC1: IP address 192.168.2.10, subnet mask 255.255.255.0, default gateway 192.168.2.1 (Router0's other interface).

Router is configured

```
Router(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to up
ip address 192.168.1.1 255.255.255.0
Router(config-if)#ip address 192.168.1.1 255.255.255.0
Router(config-if)#
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/1
Router(config-if)#no shutdown
Router(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to up
ip address 192.168.2.1 255.255.255.0
Router(config-if)#ip address 192.168.2.1 255.255.255.0
Router(config-if)#
Router(config-if)#exit
Router(config)#access-list 1 permit 192.168.1.0 0.0.0.255
Router(config)#interface GigabitEthernet0/1
Router(config-if)#ip access-group 1 out
Router(config-if)#exit
Router(config)#write memory
^
% Invalid input detected at '^' marker.

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

Router#write memory
Building configuration...
[OK]
Router#
Router#
```

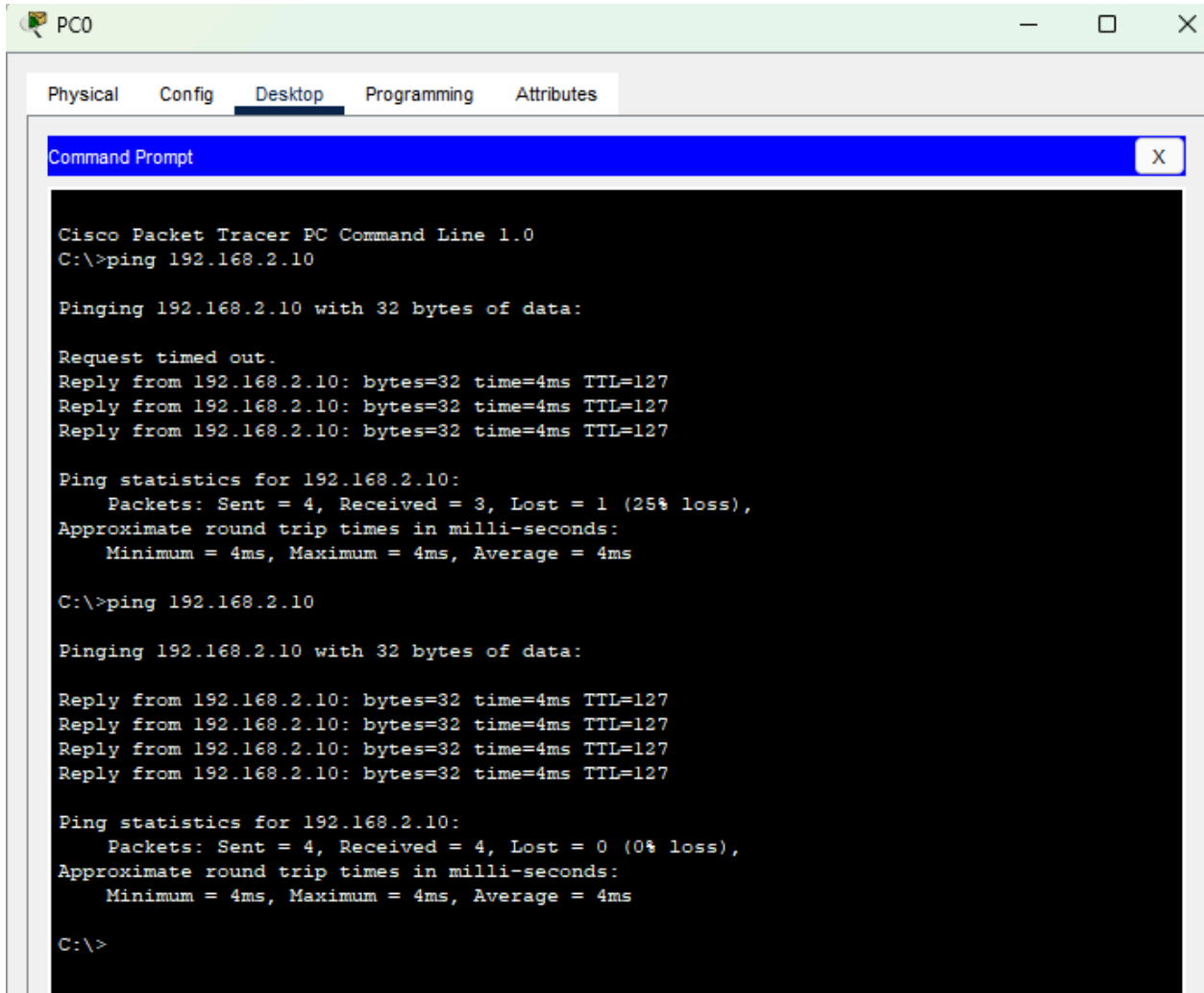
ACL command is passed to permit set of IP's

access-list 1 permit 192.168.1.0 0.0.0.255 - in Router0 CLI

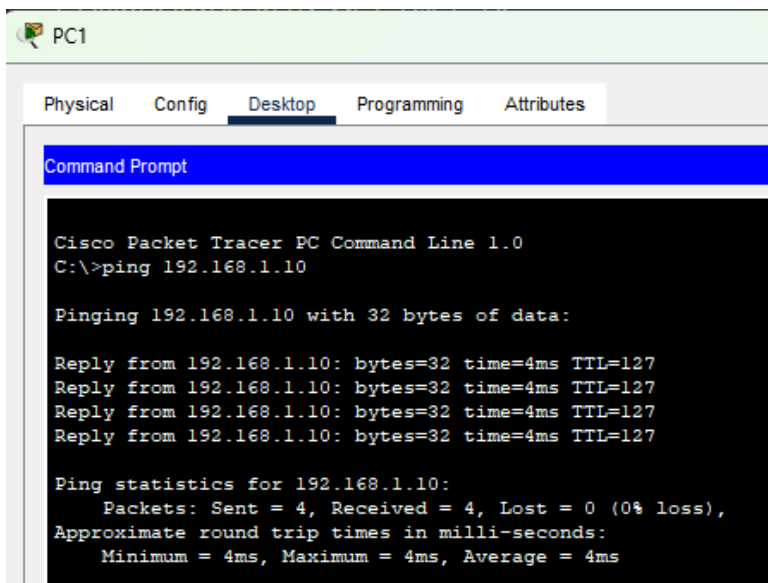
Apply the ACL to the interface where traffic exits toward the 192.168.2.0 network (GigabitEthernet0/1) for outbound traffic from the permitted range.

Then Testing for connectivity is passed

From PC0 to PC1 :



And From PC1 to PC0 :



```
Router>enable
Router#show access-lists
Standard IP access list 1
 10 permit 192.168.1.0 0.0.0.255 (12 match(es))

Router#
```

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Show access-lists command show the ACL and hit counts to confirm it's being used.