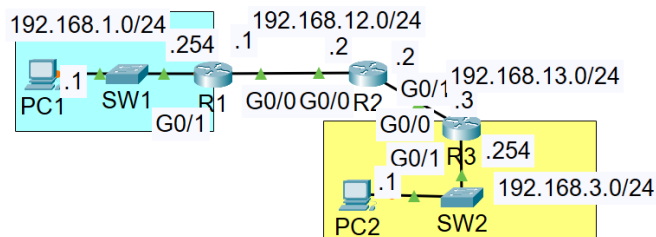# Cisco Packet Tracer Lab 01:

All devices have NO pre-configurations:

1. Configure the PCs and routers according to the network diagram (hostnames, IP addresses, etc.)
   Remember to configure the gateway on the PCs.
   (You don't have to configure the switches)

2. Configure static routes on the routers to enable PC1 to successfully ping PC2.

Figure 1 Network Topology

Figure 2 R1 CLI

IOS Command Line Interface

```
Router>en
Router#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#hostname R2
R2(config)#int g0/0
R2(config-if)#ip address 192.168.12.2 255.255.255.0
R2(config-if)#no shutdown

R2(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

R2(config-if)#int g0/1
R2(config-if)#ip address 192.168.13.2 255.255.255.0
R2(config-if)#no shutdown

R2(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/1, changed state to up

R2(config-if)#int g0/0
R2(config-if)#ip route 192.168.1.0 255.255.255.0 192.168.12.1
R2(config)#int g0/1
R2(config-if)#ip route 192.168.3.0 255.255.255.0 192.168.13.3
R2(config)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to up

R2(config)#exit
R2#
%SYS-5-CONFIG_I: Configured from console by console

R2#write memory
Building configuration...
[OK]
R2#show startup-config
Using 828 bytes
!
version 15.1
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname R2
!
!
!
!
!
!
ip cef
no ipv6 cef
!
```

Figure 3 R2 CLI

R3

IOS Command Line Interface

```
Router>en
Router#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#hostname R3
R3(config)#int g0/0
R3(config-if)#ip address 192.168.13.3 255.255.255.0
R3(config-if)#no shutdown

R3(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

R3(config-if)#ip route 192.168.1.0 255.255.255.0 192.168.13.2
R3(config)#int g0/1
R3(config-if)#ip address 192.168.3.254 255.255.255.0
R3(config-if)#no shutdown

R3(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

R3(config-if)#exit
R3(config)#exit
R3#
%SYS-5-CONFIG_I: Configured from console by console

R3#write memory
Building configuration...
[OK]
R3#show startup-config
Using 780 bytes
!
version 15.1
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname R3
!
!
!
!
!
```
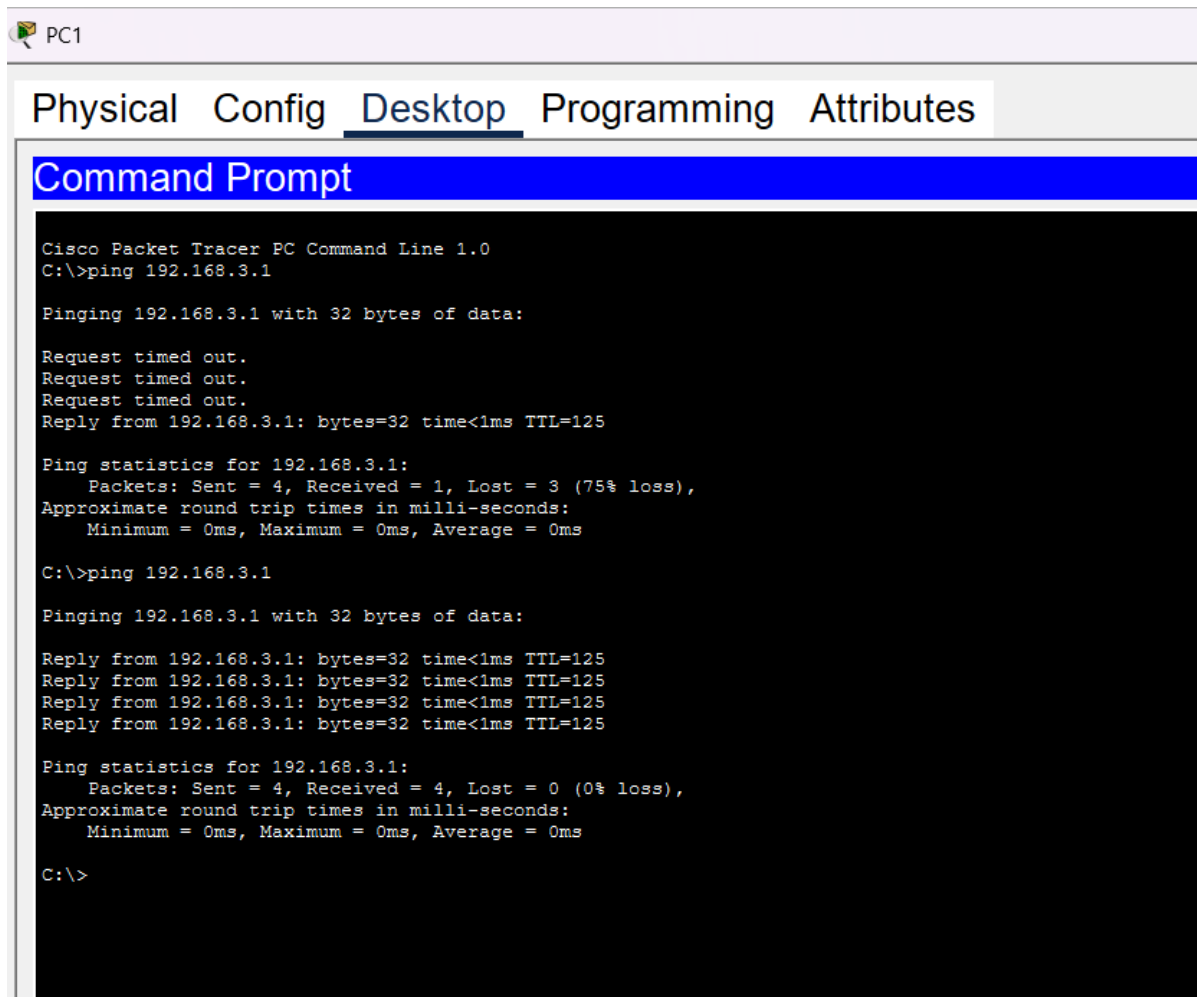
Figure 4 R3 CLI
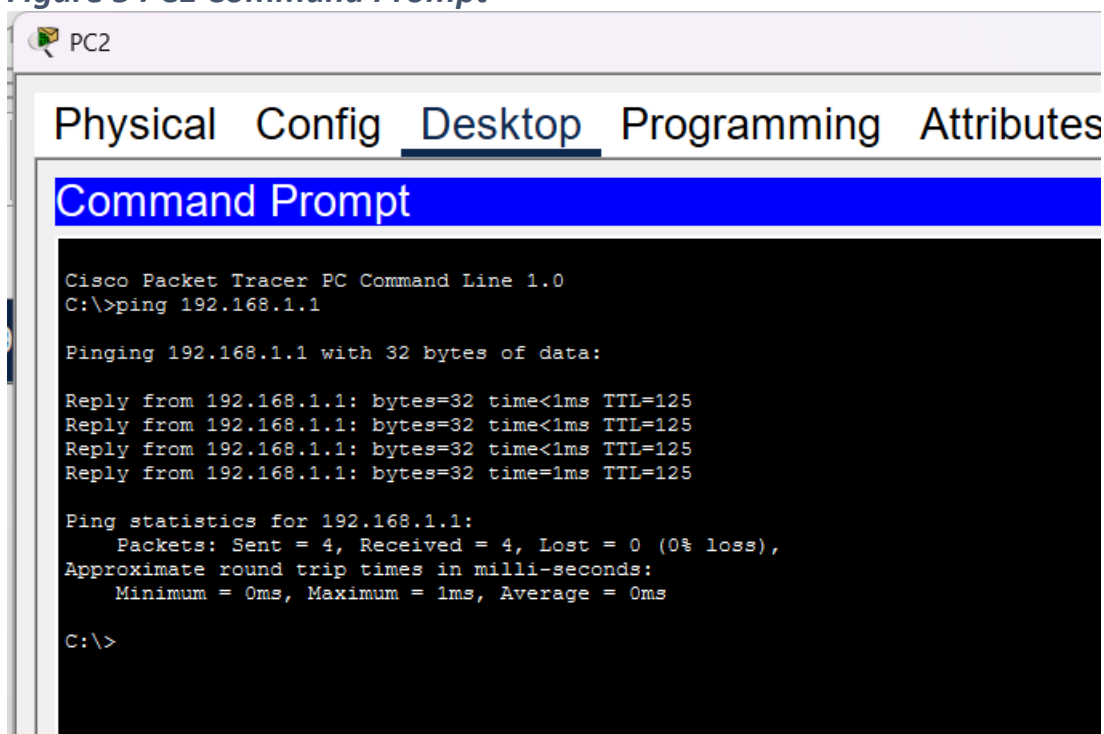
```
R3#how running-config
```

Copy   Paste

Figure 5 PC1 Command Prompt

Figure 6 PC2 Command Prompt