

EE462

EP1

Network

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- 1- One screenshot of the terminal from Admin Laptop showing any switch configuration.

```
# Welcome to L2 Switch #  
User Access Verification  
Password:  
  
SW1>en  
Password:  
SW1#sh int st  
Port      Name      Status      Vlan      Duplex  Speed  Type  
Fa0/1      Fa0/1      connected   10        auto    auto   10/100BaseTX  
Fa0/2      Fa0/2      notconnect  1         auto    auto   10/100BaseTX  
Fa0/3      Fa0/3      notconnect  1         auto    auto   10/100BaseTX  
Fa0/4      Fa0/4      notconnect  1         auto    auto   10/100BaseTX  
Fa0/5      Fa0/5      notconnect  1         auto    auto   10/100BaseTX  
Fa0/6      Fa0/6      notconnect  1         auto    auto   10/100BaseTX  
Fa0/7      Fa0/7      notconnect  1         auto    auto   10/100BaseTX  
Fa0/8      Fa0/8      notconnect  1         auto    auto   10/100BaseTX  
Fa0/9      Fa0/9      notconnect  1         auto    auto   10/100BaseTX  
Fa0/10     Fa0/10     notconnect  1         auto    auto   10/100BaseTX  
Fa0/11     Fa0/11     notconnect  1         auto    auto   10/100BaseTX  
Fa0/12     Fa0/12     notconnect  1         auto    auto   10/100BaseTX  
Fa0/13     Fa0/13     notconnect  1         auto    auto   10/100BaseTX  
Fa0/14     Fa0/14     notconnect  1         auto    auto   10/100BaseTX  
Fa0/15     Fa0/15     notconnect  1         auto    auto   10/100BaseTX  
Fa0/16     Fa0/16     notconnect  1         auto    auto   10/100BaseTX  
Fa0/17     Fa0/17     notconnect  1         auto    auto   10/100BaseTX  
Fa0/18     Fa0/18     notconnect  1         auto    auto   10/100BaseTX  
Fa0/19     Fa0/19     notconnect  1         auto    auto   10/100BaseTX  
Fa0/20     Fa0/20     notconnect  1         auto    auto   10/100BaseTX  
Fa0/21     Fa0/21     notconnect  1         auto    auto   10/100BaseTX  
Fa0/22     Fa0/22     notconnect  1         auto    auto   10/100BaseTX  
Fa0/23     Fa0/23     notconnect  1         auto    auto   10/100BaseTX  
Fa0/24     Fa0/24     notconnect  1         auto    auto   10/100BaseTX  
Gig0/1     Gig0/1     connected   trunk     auto    auto   10/100BaseTX  
Gig0/2     Gig0/2     notconnect  1         auto    auto   10/100BaseTX  
  
SW1#  
SW1#  
SW1#
```

- 2- One screenshot of the terminal from Admin Laptop showing router R1 configuration.

```
terminal

Welcome to Router R1

User Access Verification

Password:
Password:

R1>en
Password:
R1#sh rn
      ^
% Invalid input detected at '^' marker.

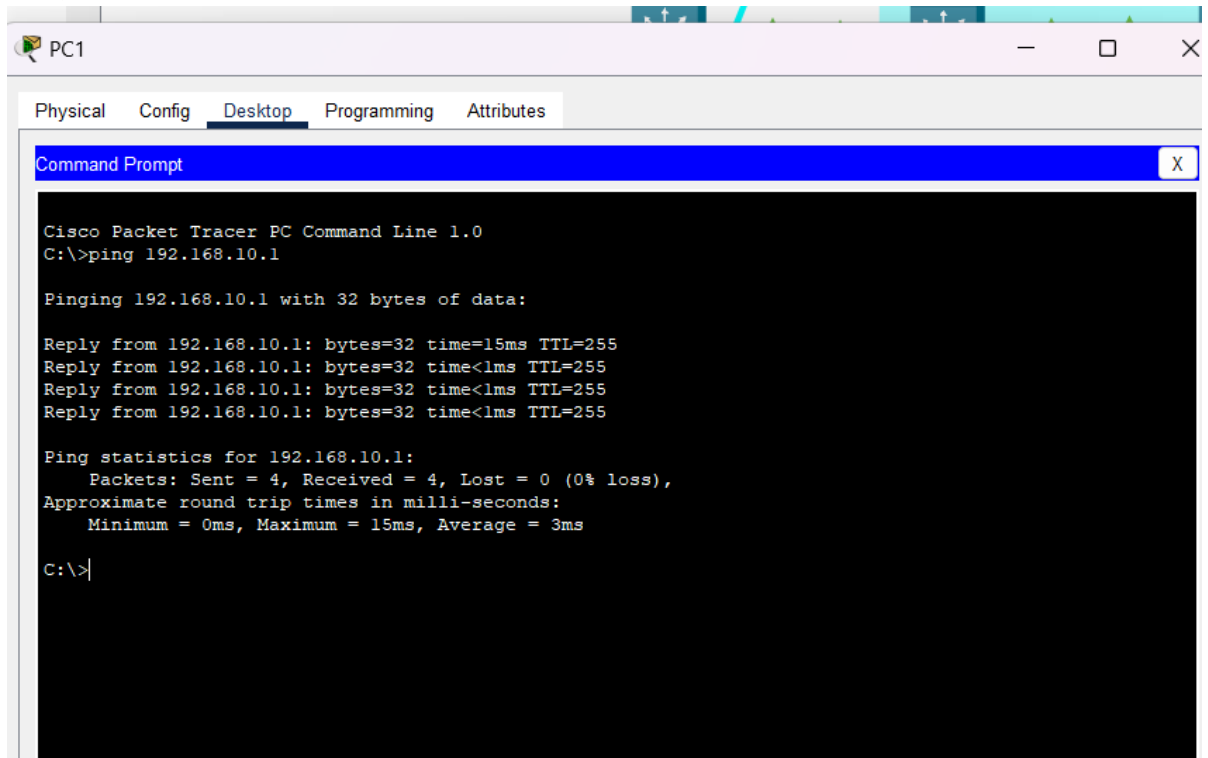
R1#
R1#sh running-config
Building configuration...

Current configuration : 1342 bytes
!
version 12.2
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname R1
!
!
!
enable secret 5 $1$mERr$kdDYIbB9JXvcGsjsbquLSN.
!
!
!
clock timezone Jeddah 3
!
!
!
no ip cef
no ipv6 cef
!
!
!
username user1 password 0 netlab
!
!
!
!
!
!
ip domain-name netlab.kau
!
```

```
!
interface GigabitEthernet0/0
  no ip address
  duplex auto
  speed auto
  shutdown
!
interface GigabitEthernet1/0
  no ip address
  duplex auto
  speed auto
!
interface GigabitEthernet1/0.20
  encapsulation dot1Q 20
  ip address 192.168.20.1 255.255.255.0
!
interface GigabitEthernet2/0
  no ip address
  duplex auto
  speed auto
!
interface GigabitEthernet2/0.10
  encapsulation dot1Q 10
  ip address 192.168.10.1 255.255.255.0
!
interface GigabitEthernet3/0
  no ip address
  duplex auto
  speed auto
!
interface GigabitEthernet3/0.40
  encapsulation dot1Q 40
  ip address 192.168.40.1 255.255.255.0
!
interface GigabitEthernet4/0
  no ip address
  duplex auto
  speed auto
!
interface GigabitEthernet4/0.30
  encapsulation dot1Q 30
  ip address 192.168.30.1 255.255.255.0
!
ip classless
!
ip flow-export version 9
!
!
!
banner motd ^C Welcome to Router R1 ^C
!
!
!
```

```
!  
!  
banner motd ^C Welcome to Router R1 ^C  
!  
!  
!  
!  
!  
line con 0  
    history size 256  
    password netlab  
    login  
!  
line aux 0  
!  
line vty 0  
    login local  
    transport input ssh  
line vty 1 4  
    login  
!  
!  
!  
end  
  
R1#  
R1#  
R1#  
R1#
```

Ping from PC1 to Router :



The screenshot shows the 'PC1' window in Cisco Packet Tracer. The 'Desktop' tab is selected, displaying a 'Command Prompt' window. The command prompt shows the execution of the 'ping 192.168.10.1' command. The output indicates that four packets were successfully received with 0% loss. The round trip times are consistent across all four replies.

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.10.1

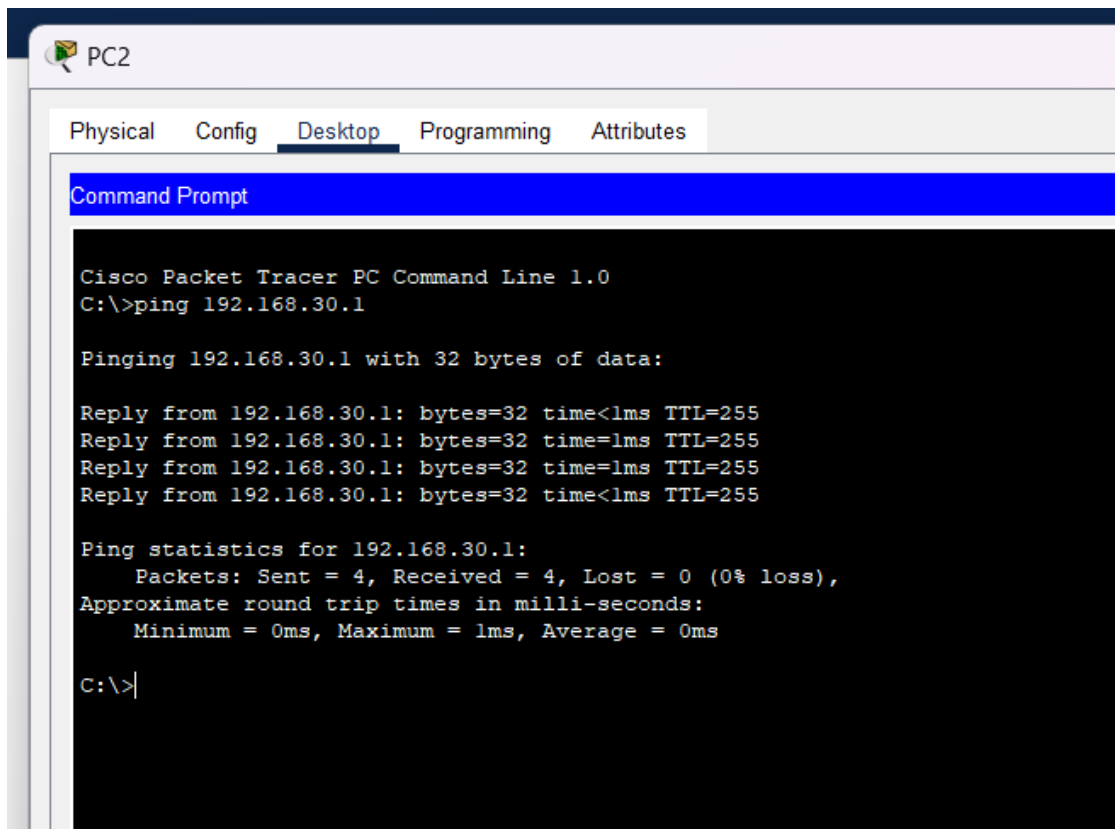
Pinging 192.168.10.1 with 32 bytes of data:

Reply from 192.168.10.1: bytes=32 time=15ms TTL=255
Reply from 192.168.10.1: bytes=32 time<1ms TTL=255
Reply from 192.168.10.1: bytes=32 time<1ms TTL=255
Reply from 192.168.10.1: bytes=32 time<1ms TTL=255

Ping 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 = 15ms, Average = 3ms

C:\>|
```

Ping from PC2 to Router:



The screenshot shows the 'PC2' window in Cisco Packet Tracer. The 'Desktop' tab is selected, displaying a 'Command Prompt' window. The command prompt shows the execution of the 'ping 192.168.30.1' command. The output indicates that four packets were successfully received with 0% loss. The round trip times are consistent across all four replies.

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.30.1

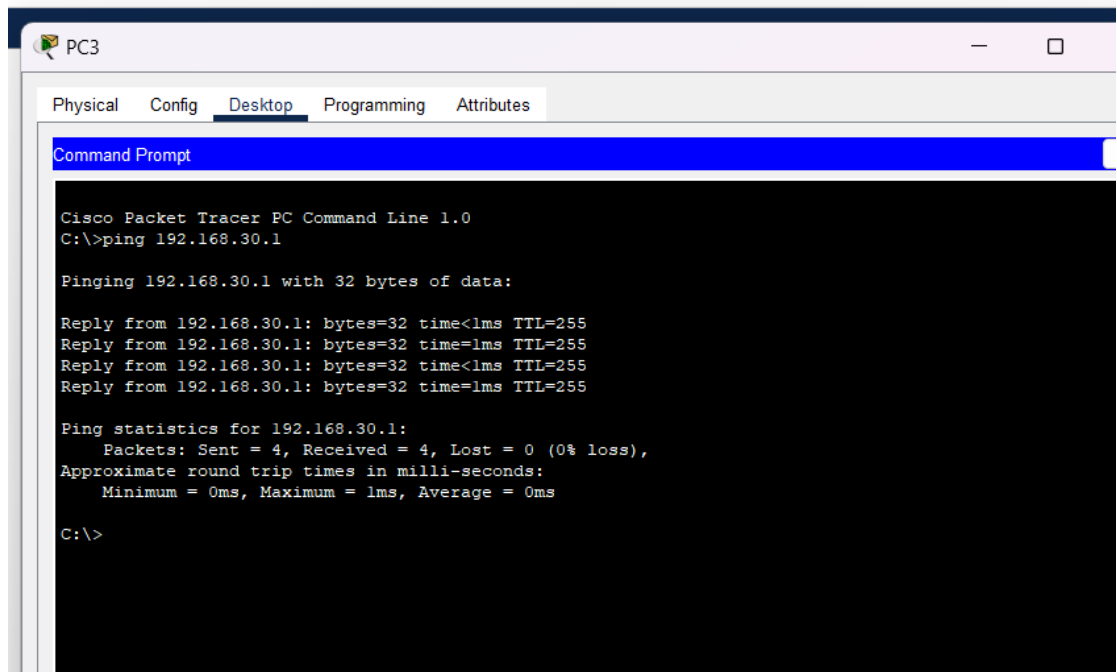
Pinging 192.168.30.1 with 32 bytes of data:

Reply from 192.168.30.1: bytes=32 time<1ms TTL=255
Reply from 192.168.30.1: bytes=32 time=1ms TTL=255
Reply from 192.168.30.1: bytes=32 time=1ms TTL=255
Reply from 192.168.30.1: bytes=32 time<1ms TTL=255

Ping statistics for 192.168.30.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>|
```

Ping from PC2 to Router:



The screenshot shows a Cisco Packet Tracer PC window for PC3. The 'Desktop' tab is selected, displaying a 'Command Prompt' window. The command prompt shows the execution of the command 'ping 192.168.30.1'. The output indicates that the ping was successful, with 4 packets sent and 4 received, resulting in 0% loss. The round trip times are all 0ms.

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.30.1

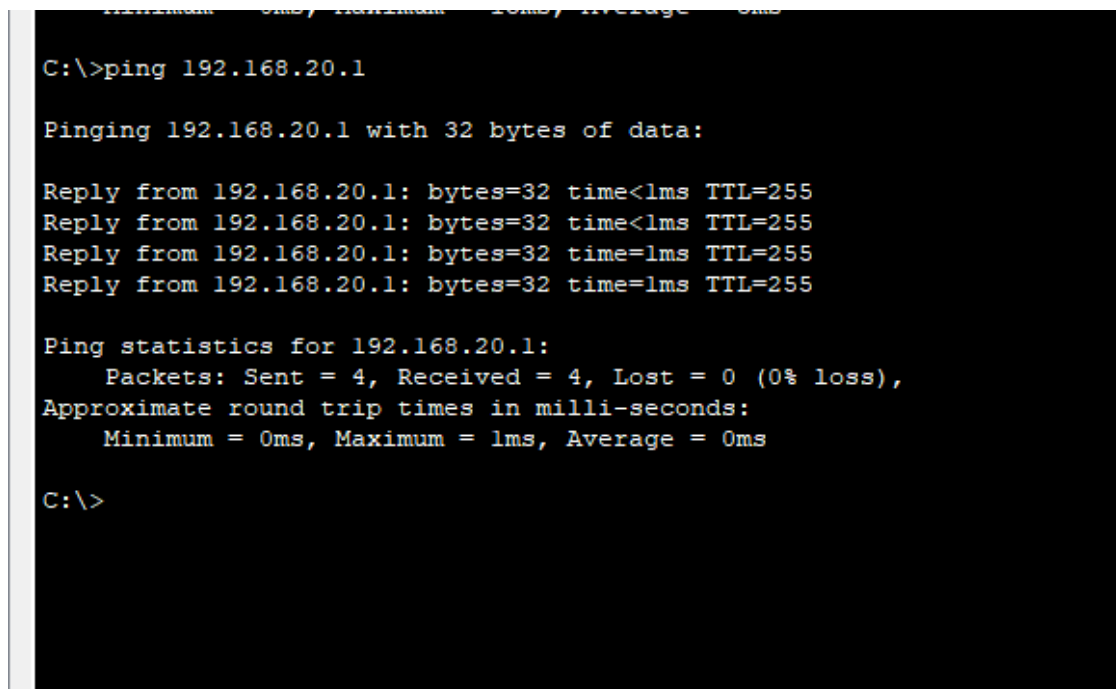
Pinging 192.168.30.1 with 32 bytes of data:

Reply from 192.168.30.1: bytes=32 time<1ms TTL=255
Reply from 192.168.30.1: bytes=32 time=1ms TTL=255
Reply from 192.168.30.1: bytes=32 time<1ms TTL=255
Reply from 192.168.30.1: bytes=32 time=1ms TTL=255

Ping statistics for 192.168.30.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>
```

4- ping from PC1 to DNS server:



The screenshot shows a Cisco Packet Tracer PC window for PC1. The 'Desktop' tab is selected, displaying a 'Command Prompt' window. The command prompt shows the execution of the command 'ping 192.168.20.1'. The output indicates that the ping was successful, with 4 packets sent and 4 received, resulting in 0% loss. The round trip times are all 0ms.

```
Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>ping 192.168.20.1

Pinging 192.168.20.1 with 32 bytes of data:

Reply from 192.168.20.1: bytes=32 time<1ms TTL=255
Reply from 192.168.20.1: bytes=32 time<1ms TTL=255
Reply from 192.168.20.1: bytes=32 time=1ms TTL=255
Reply from 192.168.20.1: bytes=32 time=1ms TTL=255

Ping statistics for 192.168.20.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>
```

5- ping from PC1 to Web server:

```
C:\>ping 192.168.40.1

Pinging 192.168.40.1 with 32 bytes of data:

Reply from 192.168.40.1: bytes=32 time<1ms TTL=255
Reply from 192.168.40.1: bytes=32 time<1ms TTL=255
Reply from 192.168.40.1: bytes=32 time=1ms TTL=255
Reply from 192.168.40.1: bytes=32 time<1ms TTL=255

Ping statistics for 192.168.40.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>
```