

Physical Config CLI Attributes

IOS Command Line Interface

```
R2 (config-if) #exit
R2 (config) #ip dhcp pool LW6_2
R2 (dhcp-config) #network 10.1.1.0
255.255.255.0
R2 (dhcp-config) #default-router 10.1.1.1
R2 (dhcp-config) #end
%LINK-5-CHANGED: Interface
GigabitEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on
Interface GigabitEthernet0/0, changed state
to up

%LINK-5-CHANGED: Interface
GigabitEthernet0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on
Interface GigabitEthernet0/1, changed state
to up
```

Copy

Paste

OSI Model Inbound PDU Details

At Device: PC2
Source: PC2
Destination: 10.1.1.2

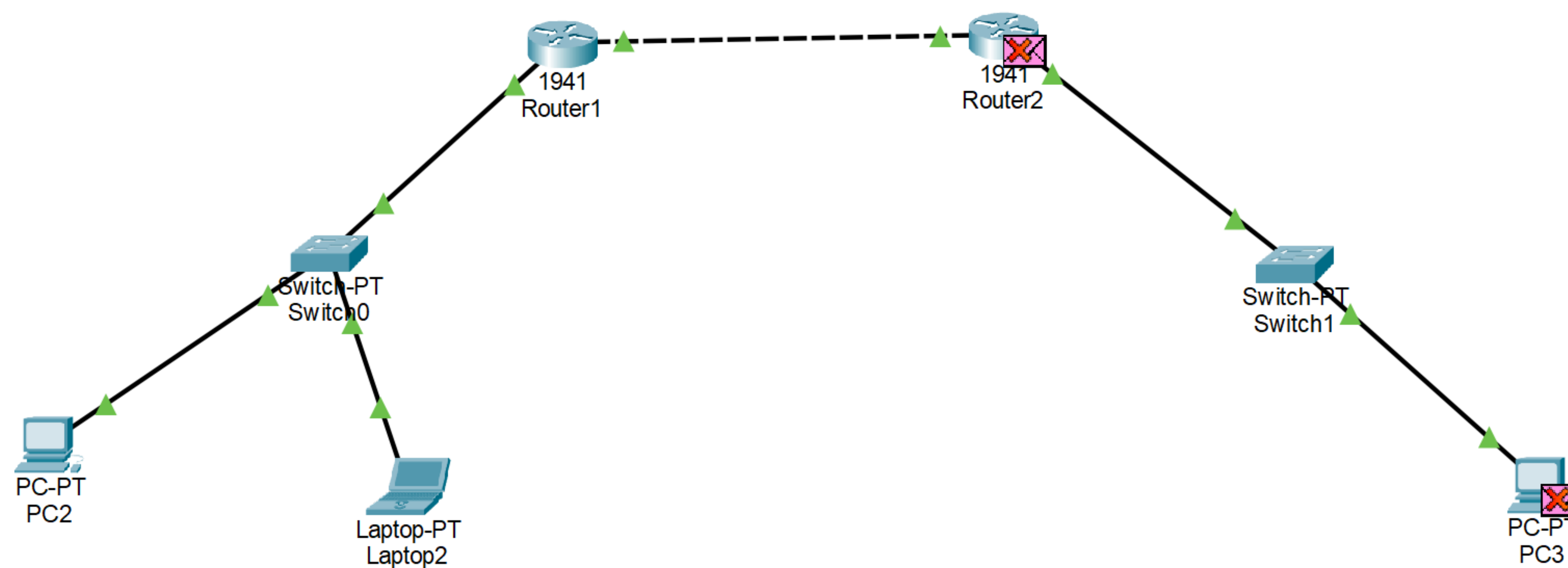
In Layers



- Layer7
- Layer6
- Layer5
- Layer4
- Layer 3: IP Header Src. IP: 10.1.1.2, Dest. IP: 172.16.1.2 ICMP Message Type: 0
- Layer 2: Ethernet II Header 0090.2B58.7B02 >> 0001.6357.E9E2
- Layer 1: Port FastEthernet0

Out Layers

- Layer7
- Layer6
- Layer5
- Layer4
- Layer3
- Layer2
- Layer1

1. FastEthernet0 receives the frame.



Vis.	Time(sec)	Last Device	At Device	Type
	0.000	--	PC2	ICMP
	0.001	PC2	Switch0	ICMP
	0.002	Switch0	Router1	ICMP
	0.003	Router1	Router2	ICMP
	0.004	Router2	Switch1	ICMP
	0.005	Switch1	PC3	ICMP
	0.006	PC3	Switch1	ICMP
	0.007	Switch1	Router2	ICMP
	0.008	Router2	Router1	ICMP
	0.009	Router1	Switch0	ICMP
	0.010	Switch0	PC2	ICMP
	0.151	--	Switch1	STP
	0.152	Switch1	Router2	STP
	0.152	Switch1	PC3	STP

Captured to:
0.152 s

Play Controls



ACL Filter, ARP, Bluetooth, CAPWAP, CDP, DHCPv6, DTP, EAPOL, EIGRPv6, FTP, H.323, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPsec, ISAKMP, IoT, IoT TCP, LACP, LLDP, Meraki, NDP, NETFLOW, NTP, New ACL Filter, OSPFv6, PAgP, POP3, PPP, PPPoE, PTP, RADIUS, REP, RiPng, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters

[Show All/None](#)

IP Configuration

X

Interface

FastEthernet0

▼

IP Configuration

☒ DHCP

☐ Static

DHCP request successful.

IPv4 Address

10.1.1.2

Subnet Mask

255.255.255.0

Default Gateway

10.1.1.1

DNS Server

0.0.0.0

IPv6 Configuration

☐ Automatic

☒ Static

IPv6 Address

/

Link Local Address

FE80::2D0:97FF:FE0E:C5B8

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

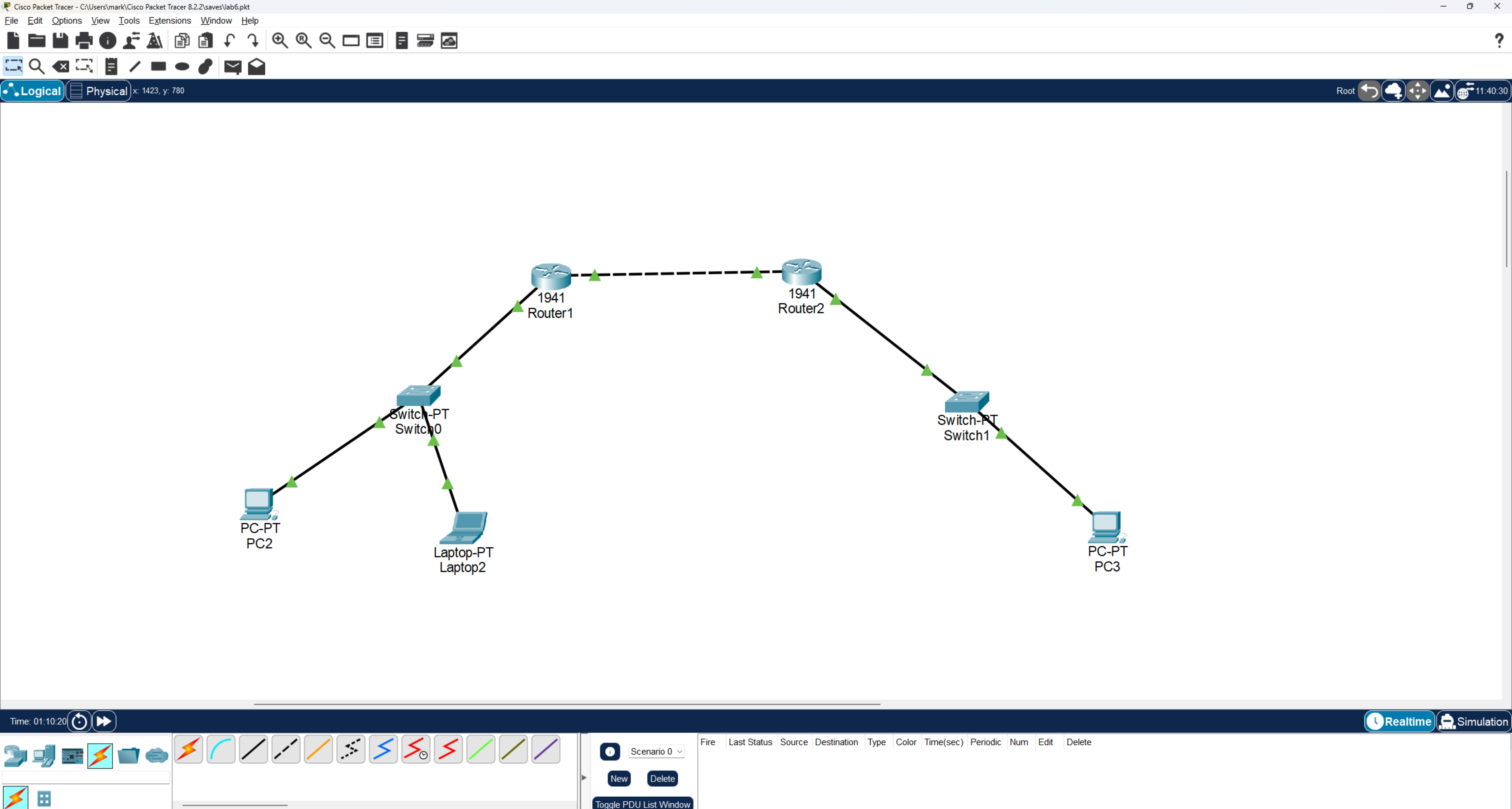
Authentication

MD5

▼

Username

Password



Physical Config Desktop Programming Attributes

Command Prompt

X

Cisco Packet Tracer PC Command Line 1.0

C:\>ping 172.16.1.3

Pinging 172.16.1.3 with 32 bytes of data:

Reply from 172.16.1.3: bytes=32 time<1ms TTL=128

Reply from 172.16.1.3: bytes=32 time<1ms TTL=128

Ping statistics for 172.16.1.3:

Packets: Sent = 2, Received = 2, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 0ms, Average = 0ms

Control-C

^C

C:\>ping 10.1.1.2

|

Pinging 10.1.1.2 with 32 bytes of data:

Request timed out.

Request timed out.

Reply from 10.1.1.2: bytes=32 time<1ms TTL=126

Reply from 10.1.1.2: bytes=32 time<1ms TTL=126

Ping statistics for 10.1.1.2:

Packets: Sent = 4, Received = 2, Lost = 2 (50% loss),

Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>

At Device: PC3
Source: PC2
Destination: 10.1.1.2

In Layers

- Layer7
- Layer6
- Layer5
- Layer4
- Layer 3: IP Header Src. IP: 8.8.8.11, Dest. IP: 10.1.1.2 ICMP Message Type: 8
- Layer 2: Ethernet II Header 0001.42EB.4202 >> 00D0.970E.C5B8
- Layer 1: Port FastEthernet0

Out Layers

- Layer7
- Layer6
- Layer5
- Layer4
- Layer 3: IP Header Src. IP: 10.1.1.2, Dest. IP: 8.8.8.11 ICMP Message Type: 0
- Layer 2: Ethernet II Header 00D0.970E.C5B8 >> 0001.42EB.4202
- Layer 1: Port(s): FastEthernet0

1. The ICMP process replies to the Echo Request by setting ICMP type to Echo Reply.
2. The ICMP process sends an Echo Reply.
3. The destination IP address 8.8.8.11 is not in the same subnet and is not the broadcast address.
4. The default gateway is set. The device sets the next-hop to default gateway.

IP Configuration

X

Interface

FastEthernet0

IP Configuration

☒ DHCP

☐ Static

IPv4 Address

10.1.1.2

Subnet Mask

255.255.255.0

Default Gateway

10.1.1.1

DNS Server

0.0.0.0

IPv6 Configuration

☐ Automatic

☒ Static

IPv6 Address

/

Link Local Address

FE80::2D0:97FF:FE0E:C5B8

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication

MD5

Username

Password

Cisco Packet Tracer PC Command Line 1.0

C:\>ping 172.16.1.2

Pinging 172.16.1.2 with 32 bytes of data:

Reply from 172.16.1.2: bytes=32 time<1ms TTL=128

Reply from 172.16.1.2: bytes=32 time<1ms TTL=128

Reply from 172.16.1.2: bytes=32 time<1ms TTL=128

Ping statistics for 172.16.1.2:

Packets: Sent = 3, Received = 3, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 0ms, Average = 0ms

Control-C

^C

C:\>ping 10.1.1.2

Pinging 10.1.1.2 with 32 bytes of data:

|

Reply from 172.16.1.1: Destination host unreachable.

Reply from 172.16.1.1: Destination host unreachable.

Ping statistics for 10.1.1.2:

Packets: Sent = 2, Received = 0, Lost = 2 (100% loss),

Control-C

^C

C:\>