

Router1

Physical Config CLI Attributes

IOS Command Line Interface

System Bootstrap, Version 15.1(4)M, RELEASE SOFTWARE (fc1)  
Technical Support: http://www.cisco.com/techsupport  
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Total memory size = 512 MB - On-board = 512 MB, DIMM0 = 0 MB  
CISCO2911/K9 platform with 524288 Bytes of main memory  
Main memory is configured to 32/-1(On-board/DIMM0) bit mode with ECC disabled  
  
Readonly ROMMON initialized  
  
program load complete, entry point: 0x80803000, size: 0x1b340  
program load complete, entry point: 0x80803000, size: 0x1b340  
  
IOS Image Load Test  
  
Digitally Signed Release Software  
program load complete, entry point: 0x81000000, size: 0x3bcd3d8  
Self decompressing the image :  
##### [OK]  
Smart Init is enabled  
smart init is sizing iomem  

	TYPE	MEMORY_REQ
Onboard devices &		
buffer pools		0x022f6000
-----		
TOTAL:		0x022f6000

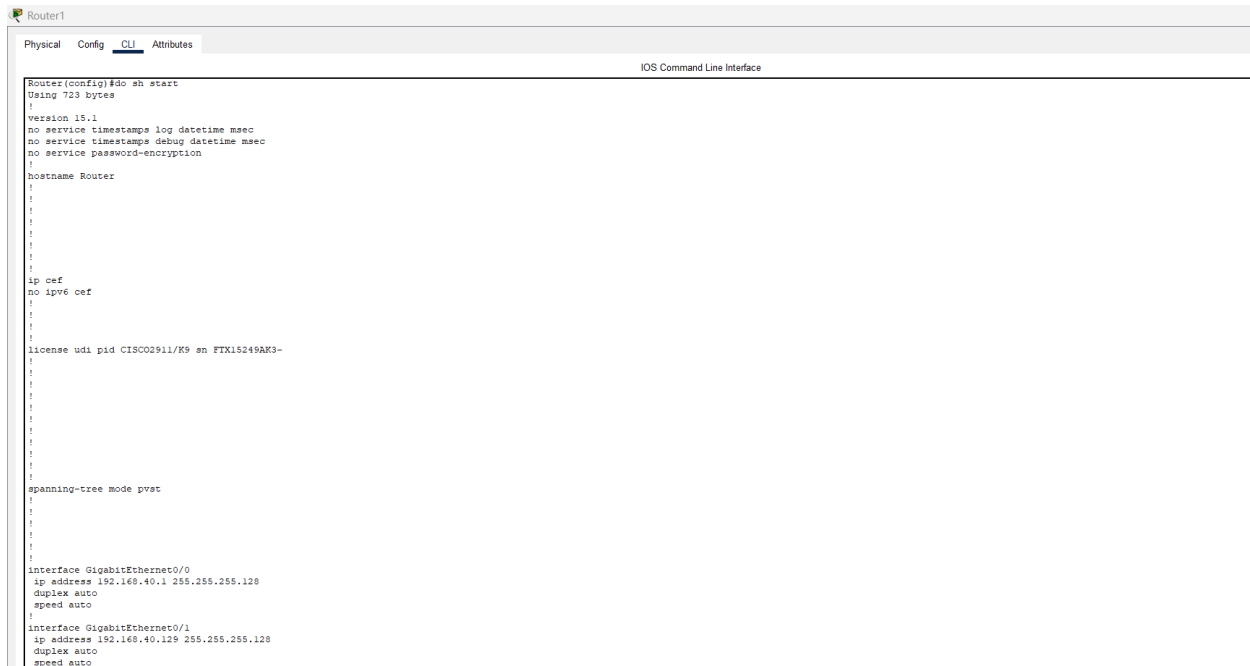
  
Rounded IOMEM up to: 36Mb.  
Using 6 percent iomem. [36Mb/512Mb]  
  
Restricted Rights Legend  
  
Use, duplication, or disclosure by the Government is  
subject to restrictions as set forth in subparagraph  
(c) of the Commercial Computer Software - Restricted  
Rights clause at FAR sec. 52.227-19 and subparagraph  
(c) (1) (ii) of the Rights in Technical Data and Computer  
Software clause at DFARS sec. 252.227-7013.  
  
Cisco Systems, Inc.  
170 West Tasman Drive  
San Jose, California 95134-1706  
  
Cisco IOS Software, C2900 Software (C2900-UNIVERSALK9-M), Version 15.1(4)M5, RELEASE SOFTWARE (fc2)Technical Support: http://www.cisco.com/techsupport  
Copyright (c) 1986-2007 by Cisco Systems, Inc.  
Compiled Wed 18-Jul-07 04:52 by pt\_team  
Image text-base: 0x2100f918, data-base: 0x24729040  
  
This product contains cryptographic features and is subject to United  
States and local country laws governing import, export, transfer and  
use. Delivery of Cisco cryptographic products does not imply  
third-party authority to import, export, distribute or use encryption.  
.....

Router1

Physical Config CLI Attributes

IOS Command Line Interface

--- System Configuration Dialog ---  
  
Would you like to enter the initial configuration dialog? [yes/no]: no  
  
Press RETURN to get started!  
  
Router>  
Router>  
Router>config t  
^  
% Invalid input detected at '^' marker.  
  
Router>enable  
Router#config terminal  
Enter configuration commands, one per line. End with CNTL/Z.  
Router(config)#int range gig0/0-1  
Router(config-if-range)#no shutdown  
  
Router(config-if-range)#  
%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  
  
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to down  
  
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to up  
do wr  
Building configuration...  
[OK]  
Router(config-if-range)#  
Router(config-if-range)#exit  
Router(config)#



```
spanning-tree mode pwt
!
!
!
!
interface GigabitEthernet0/0
ip address 192.168.40.1 255.255.255.128
duplex auto
speed auto
!
interface GigabitEthernet0/1
ip address 192.168.40.129 255.255.255.128
duplex auto
speed auto
!
interface GigabitEthernet0/2
no ip address
duplex auto
speed auto
shutdown
!
interface Vlan1
no ip address
shutdown
!
ip classless
!
ip flow-export version 9
!
!
!
!
!
!
line con 0
!
line aux 0
!
line vty 0 4
login
!
!
end

Router(config)#
Router(config)#
```

## PC0

PC0

Physical Config **Desktop** Programming Attributes

**IP Configuration** X

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 192.168.40.2

Subnet Mask 255.255.255.128

Default Gateway 192.168.40.1

DNS Server 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address /

Link Local Address FE80::2E0:A3FF:FE26:6A84

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication MD5

Username

Password

PC0

Physical **Config** Desktop Programming Attributes

**GLOBAL**

Settings

Algorithm Settings

**INTERFACE**

FastEthernet0

Bluetooth

Global Settings

Display Name PC0

Interfaces FastEthernet0

Gateway/DNS IPv4

☐ DHCP ☒ Static

Default Gateway 192.168.40.1

DNS Server

Gateway/DNS IPv6

☐ Automatic ☒ Static

Default Gateway

DNS Server

## PC1

PC1

Physical Config **Desktop** Programming Attributes

**IP Configuration** X

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 192.168.40.3

Subnet Mask 255.255.255.128

Default Gateway 192.168.40.1

DNS Server 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address /

Link Local Address FE80::20C:85FF:FEBA:D054

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication MD5

Username

Password

PC1

Physical **Config** Desktop Programming Attributes

**GLOBAL**

Settings

Algorithm Settings

**INTERFACE**

FastEthernet0

Bluetooth

Global Settings

Display Name PC1

Interfaces FastEthernet0

Gateway/DNS IPv4

☐ DHCP ☒ Static

Default Gateway 192.168.40.1

DNS Server

Gateway/DNS IPv6

☐ Automatic ☒ Static

Default Gateway

DNS Server

The screenshot shows a configuration window for a device named 'Printer0'. The 'Config' tab is active, displaying settings for the 'FastEthernet0' interface. The left sidebar contains a tree view with 'GLOBAL' and 'INTERFACE' sections. The 'INTERFACE' section is expanded, showing 'FastEthernet0'. The main configuration area includes:

- Port Status:** On (checked)
- Bandwidth:** 100 Mbps (selected), 10 Mbps (unselected)
- Duplex:** Half Duplex (unselected), Full Duplex (selected)
- MAC Address:** 000A.4169.119D
- IP Configuration:** DHCP (unselected), Static (selected)
- IPv4 Address:** 192.168.40.4
- Subnet Mask:** 255.255.255.128
- IPv6 Configuration:** Automatic (unselected), Static (selected)
- IPv6 Address:** (empty field)
- Link Local Address:** FE80::20A:41FF:FE69:119D

Printer0

Physical **Config** Attributes

**GLOBAL**

Settings

**INTERFACE**

FastEthernet0

Global Settings

Display Name

Gateway/DNS IPv4

☐ DHCP

☒ Static

Default Gateway

DNS Server

Gateway/DNS IPv6

☐ Automatic

☒ Static

Default Gateway

DNS Server

## PC2

PC2

Physical Config **Desktop** Programming Attributes

IP Configuration

Interface: FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address: 192.168.40.130

Subnet Mask: 255.255.255.128

Default Gateway: 192.168.40.129

DNS Server: 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address: /

Link Local Address: FE80::260:5CFF:FE0A:7CED

Default Gateway:

DNS Server:

802.1X

☐ Use 802.1X Security

Authentication: MD5

Username:

Password:

PC2

Physical **Config** Desktop Programming Attributes

**GLOBAL**

Settings

Algorithm Settings

**INTERFACE**

FastEthernet0

Bluetooth

Global Settings

Display Name: PC2

Interfaces: FastEthernet0

Gateway/DNS IPv4

☐ DHCP ☒ Static

Default Gateway: 192.168.40.129

DNS Server:

Gateway/DNS IPv6

☐ Automatic ☒ Static

Default Gateway:

DNS Server:

## PC3

PC3

Physical Config **Desktop** Programming Attributes

IP Configuration

Interface: FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address: 192.168.40.131

Subnet Mask: 255.255.255.128

Default Gateway: 192.168.40.129

DNS Server: 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address: /

Link Local Address: FE80::2D0:BAFF:FEE1:3264

Default Gateway:

DNS Server:

802.1X

☐ Use 802.1X Security

Authentication: MD5

Username:

Password:

PC3

Physical **Config** Desktop Programming Attributes

**GLOBAL**

Settings

Algorithm Settings

**INTERFACE**

FastEthernet0

Bluetooth

Global Settings

Display Name: PC3

Interfaces: FastEthernet0

Gateway/DNS IPv4

☐ DHCP ☒ Static

Default Gateway: 192.168.40.129

DNS Server:

Gateway/DNS IPv6

☐ Automatic ☒ Static

Default Gateway:

DNS Server:



## Printer 0

Printer1

Physical **Config** Attributes

**GLOBAL**

Settings

**INTERFACE**

FastEthernet0

**FastEthernet0**

Port Status ☒ On

Bandwidth ☒ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 0003.E4D5.A78E

IP Configuration

☐ DHCP

☒ Static

IPv4 Address 192.168.40.134

Subnet Mask 255.255.255.128

IPv6 Configuration

☐ Automatic

☒ Static

IPv6 Address

Link Local Address: FE80::203:E4FF:FED5:A78E

Printer1

Physical **Config** Attributes

**GLOBAL**

Settings

**INTERFACE**

FastEthernet0

**Global Settings**

Display Name Printer1

Gateway/DNS IPv4

☐ DHCP

☒ Static

Default Gateway 192.168.40.129

DNS Server

Gateway/DNS IPv6

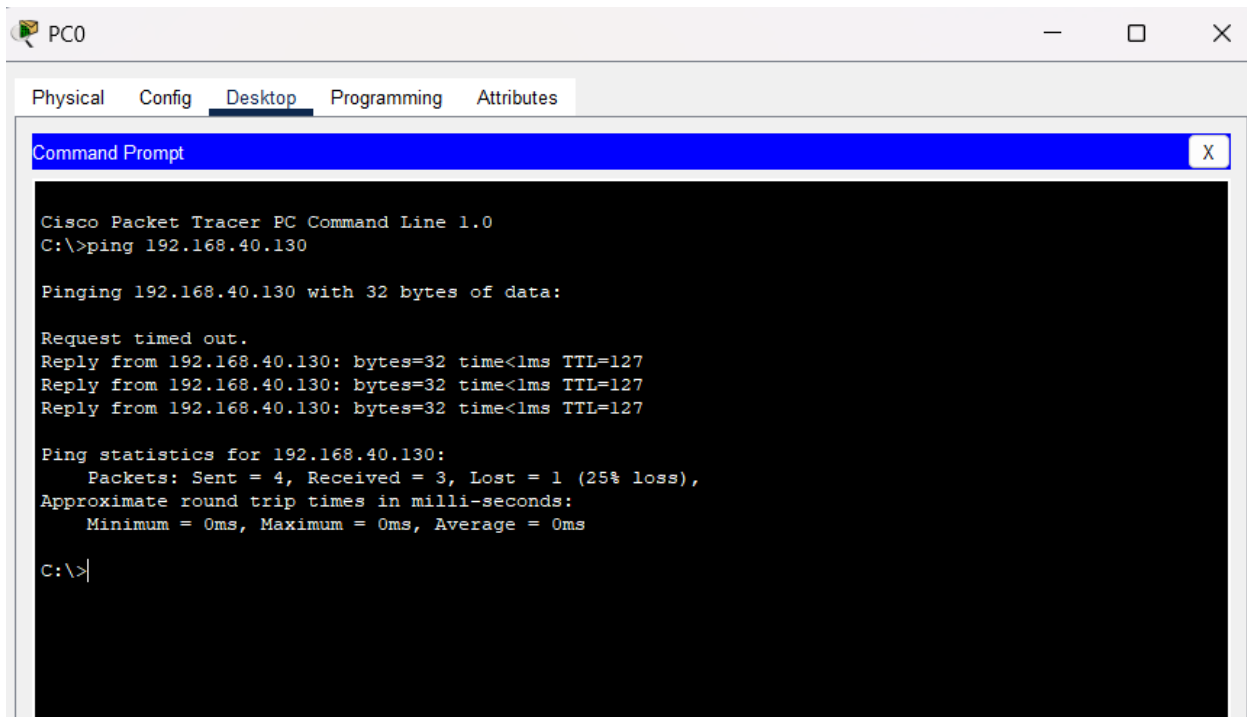
☐ Automatic

☒ Static

Default Gateway

DNS Server

## Pinging PC2 from PC0



The screenshot shows a Cisco Packet Tracer PC window for PC0. The 'Desktop' tab is selected, and a 'Command Prompt' window is open. The command prompt displays the output of a ping command to 192.168.40.130. The output shows three successful replies and one request timed out, resulting in a 25% loss.

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.40.130

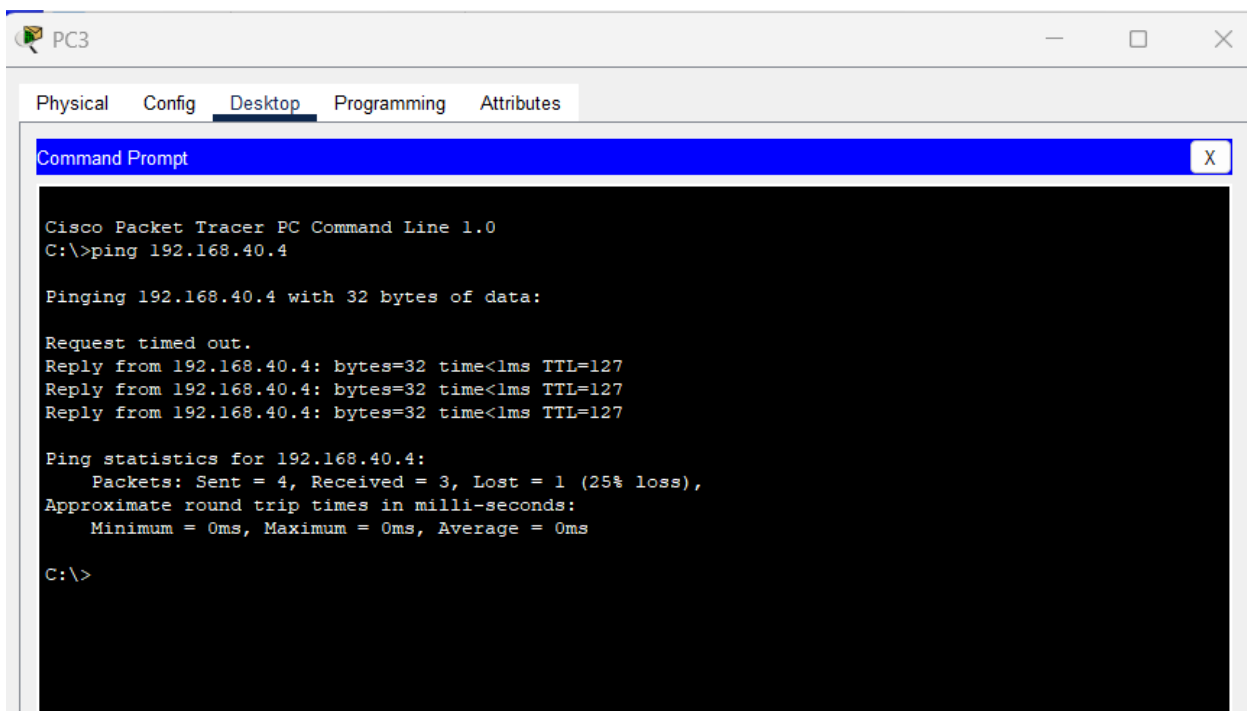
Pinging 192.168.40.130 with 32 bytes of data:

Request timed out.
Reply from 192.168.40.130: bytes=32 time<1ms TTL=127
Reply from 192.168.40.130: bytes=32 time<1ms TTL=127
Reply from 192.168.40.130: bytes=32 time<1ms TTL=127

Ping statistics for 192.168.40.130:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

## Pinging Printer from PC3



The screenshot shows a Cisco Packet Tracer PC window for PC3. The 'Desktop' tab is selected, and a 'Command Prompt' window is open. The command prompt displays the output of a ping command to 192.168.40.4. The output shows three successful replies and one request timed out, resulting in a 25% loss.

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.40.4

Pinging 192.168.40.4 with 32 bytes of data:

Request timed out.
Reply from 192.168.40.4: bytes=32 time<1ms TTL=127
Reply from 192.168.40.4: bytes=32 time<1ms TTL=127
Reply from 192.168.40.4: bytes=32 time<1ms TTL=127

Ping statistics for 192.168.40.4:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

