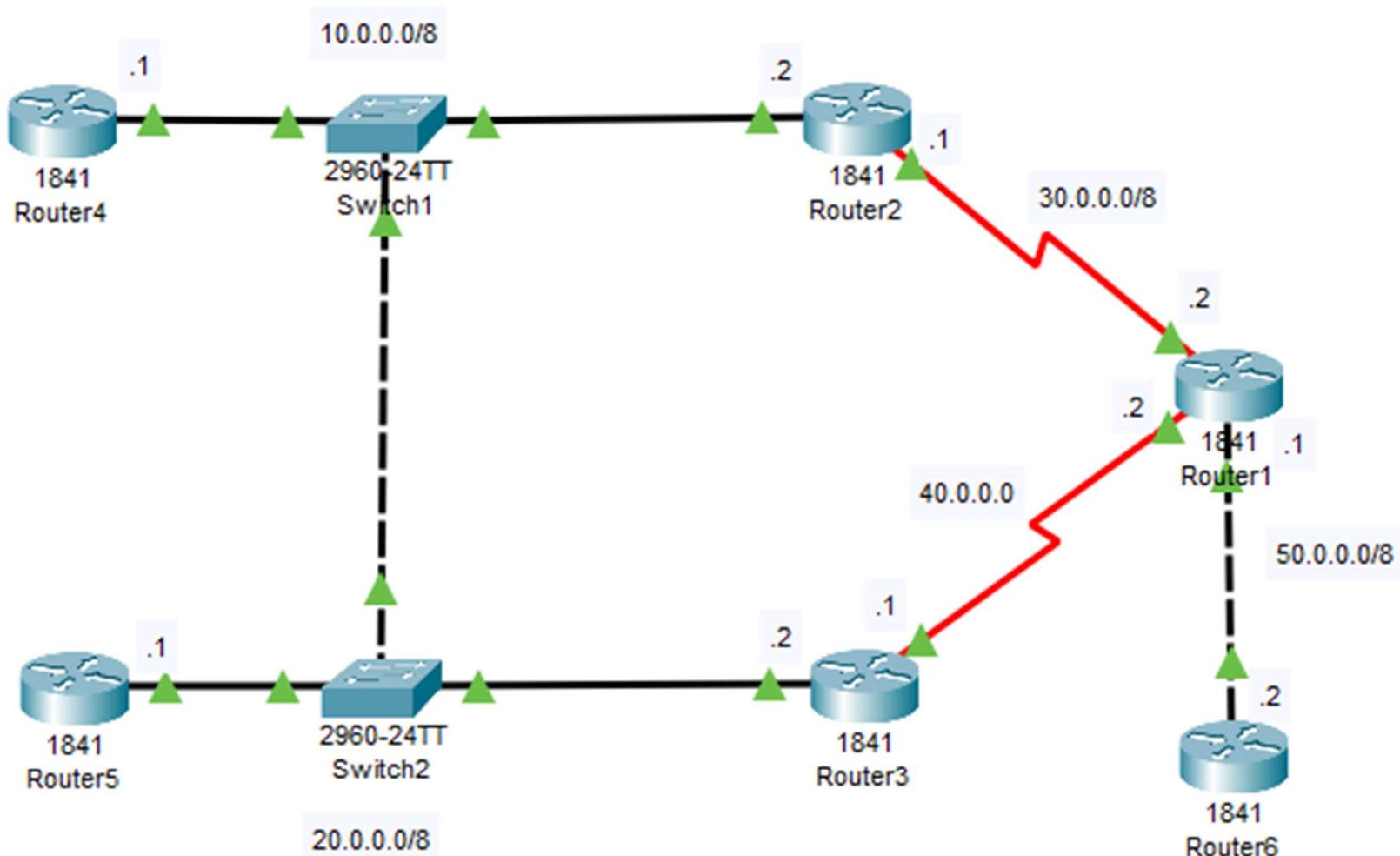


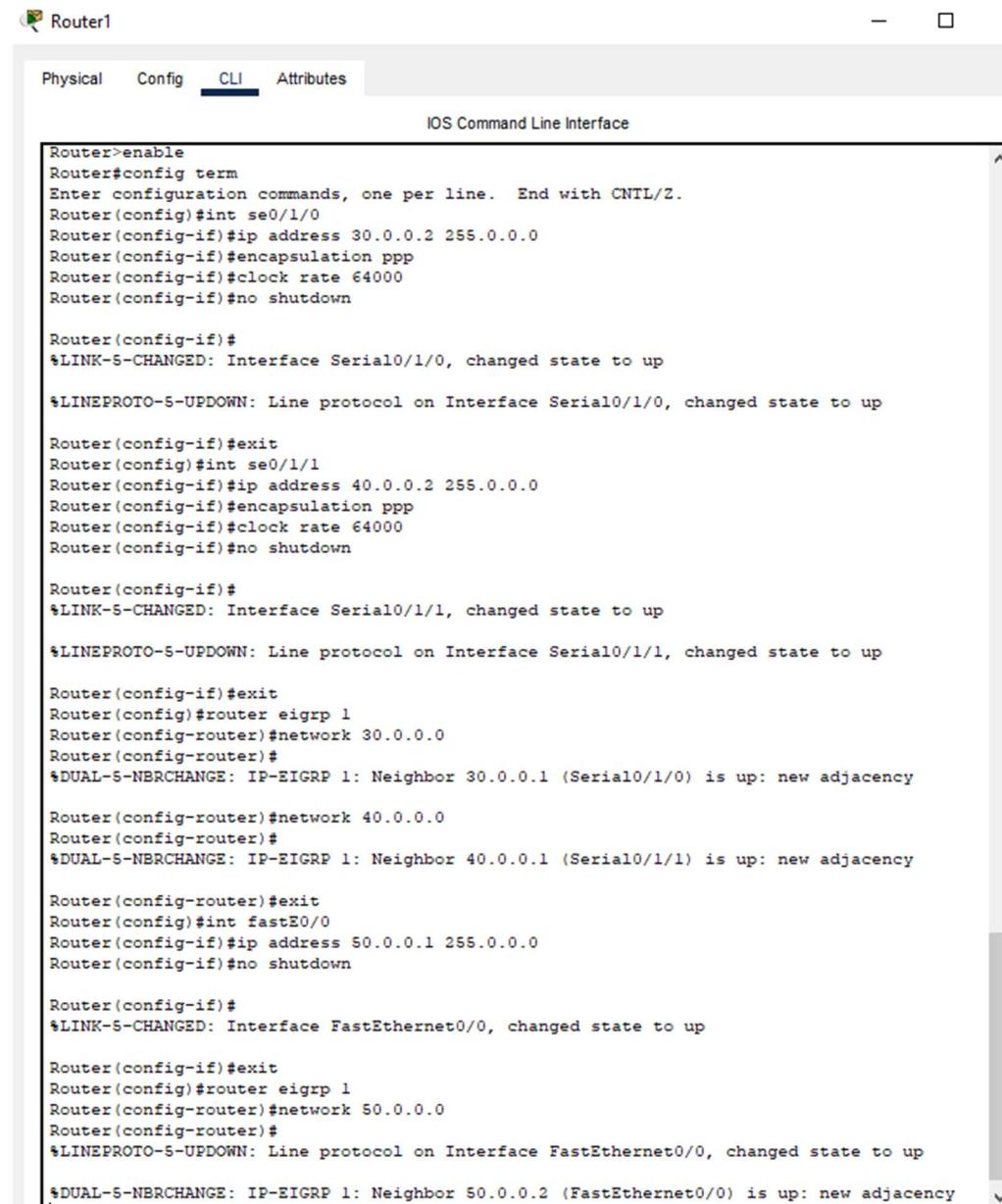
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**PROBLEM 1**

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**CLI CODES – Router 1**

The screenshot shows a Windows Command Line Interface window titled "Router1". The window has tabs at the top: "Physical", "Config", "CLI" (which is selected), and "Attributes". Below the tabs is a title bar "IOS Command Line Interface". The main area contains the following CLI session:

```
Router>enable
Router#config term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int se0/1/0
Router(config-if)#ip address 30.0.0.2 255.0.0.0
Router(config-if)#encapsulation ppp
Router(config-if)#clock rate 64000
Router(config-if)#no shutdown

Router(config-if)#
*LINK-5-CHANGED: Interface Serial0/1/0, changed state to up

*LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/1/0, changed state to up

Router(config-if)#exit
Router(config)#int se0/1/1
Router(config-if)#ip address 40.0.0.2 255.0.0.0
Router(config-if)#encapsulation ppp
Router(config-if)#clock rate 64000
Router(config-if)#no shutdown

Router(config-if)#
*LINK-5-CHANGED: Interface Serial0/1/1, changed state to up

*LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/1/1, changed state to up

Router(config-if)#exit
Router(config)#router eigrp 1
Router(config-router)#network 30.0.0.0
Router(config-router)#
*DUAL-5-NBRCHANGE: IP-EIGRP 1: Neighbor 30.0.0.1 (Serial0/1/0) is up: new adjacency

Router(config-router)#network 40.0.0.0
Router(config-router)#
*DUAL-5-NBRCHANGE: IP-EIGRP 1: Neighbor 40.0.0.1 (Serial0/1/1) is up: new adjacency

Router(config-router)#exit
Router(config)#int fastE0/0
Router(config-if)#ip address 50.0.0.1 255.0.0.0
Router(config-if)#no shutdown

Router(config-if)#
*LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

Router(config-if)#exit
Router(config)#router eigrp 1
Router(config-router)#network 50.0.0.0
Router(config-router)#
*LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

*DUAL-5-NBRCHANGE: IP-EIGRP 1: Neighbor 50.0.0.2 (FastEthernet0/0) is up: new adjacency
```

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**CLI CODES - Router 2 & 3**

Router2

Physical Config **CLI** Attributes

IOS Command Line Interface

```
Router>enable
Router#config term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int FastE0/0
Router(config-if)#ip address 10.0.0.2 255.0.0.0
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

Router(config-if)#exit
Router(config)#router eigrp 1
Router(config-router)#network 10.0.0.0
Router(config-router)#network 20.0.0.0
Router(config-router)#
%DUAL-5-NBRCHANGE: IP-EIGRP 1: Neighbor 10.0.0.1 (FastEthernet0/0) is up: new adjacency

Router(config-router)#network 30.0.0.0
Router(config-router)#exit
Router(config)#int se0/1/0
Router(config-if)#ip address 30.0.0.1 255.0.0.0
Router(config-if)#encapsulation ppp
Router(config-if)#no shutdown

%LINK-5-CHANGED: Interface Serial0/1/0, changed state to down
Router(config-if)#exit
Router(config)#
%LINK-5-CHANGED: Interface Serial0/1/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/1/0, changed state to up

%DUAL-5-NBRCHANGE: IP-EIGRP 1: Neighbor 30.0.0.2 (Serial0/1/0) is up: new adjacency
```

Router3

Physical Config **CLI** Attributes

IOS Command Line Interface

```
Router>enable
Router#config term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int fastE0/0
Router(config-if)#ip address 20.0.0.2 255.0.0.0
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

Router(config-if)#exit
Router(config)#router eigrp 1
Router(config-router)#network 20.0.0.0
Router(config-router)#network 10.0.0.0
Router(config-router)#
%DUAL-5-NBRCHANGE: IP-EIGRP 1: Neighbor 20.0.0.1 (FastEthernet0/0) is up: new adjacency

Router(config-router)#exit
Router(config)#interface se0/1/0
Router(config-if)#ip address 40.0.0.1 255.0.0.0
Router(config-if)#encapsulation ppp
Router(config-if)#no shutdown

%LINK-5-CHANGED: Interface Serial0/1/0, changed state to down
Router(config-if)#exit
Router(config)#
%LINK-5-CHANGED: Interface Serial0/1/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/1/0, changed state to up

%DUAL-5-NBRCHANGE: IP-EIGRP 1: Neighbor 40.0.0.2 (Serial0/1/0) is up: new adjacency
```

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**CLI CODES – Router 4 & 5**

The image shows two separate terminal windows, each titled "CLI CODES – Router 4 & 5". The left window is labeled "Router4" and the right window is labeled "Router5". Both windows have tabs for "Physical", "Config", "CLI" (which is selected), and "Attributes". The "CLI" tab displays the Cisco IOS Command Line Interface (CLI) configuration for each router.

**Router4 Configuration:**

```
Cisco IOS Software, 1841 Software (C1841-ADVIPSERVICESK9-M), Version 12.4(15)T1, 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

--- System Configuration Dialog ---

Would you like to enter the initial configuration dialog? [yes/no]: no

Press RETURN to get started!

Router>enable
Router#config term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int FastE0/0
Router(config-if)#ip address 10.0.0.1 255.0.0.0
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

Router(config-if)#exit
Router(config)#router eigrp 1
Router(config-router)#network 10.0.0.0
Router(config-router)#network 20.0.0.0
Router(config-router)#
%DUAL-5-NBRCHANGE: IP-EIGRP 1: Neighbor 10.0.0.2 (FastEthernet0/0) is up: new adjacency
```

**Router5 Configuration:**

```
cisco0 Bytes of ATA compactflash (read/write)
Cisco IOS Software, 1841 Software (C1841-ADVIPSERVICESK9-M), Version 12.4(15)T1, 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

--- System Configuration Dialog ---

Would you like to enter the initial configuration dialog? [yes/no]: no

Press RETURN to get started!

Router>enable
Router#config terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int faste0/0
Router(config-if)#ip address 20.0.0.1 255.0.0.0
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

Router(config-if)#exit
Router(config)#router eigrp 1
Router(config-router)#network 20.0.0.0
Router(config-router)#network 10.0.0.0
Router(config-router)#
%DUAL-5-NBRCHANGE: IP-EIGRP 1: Neighbor 20.0.0.2 (FastEthernet0/0) is up: new adjacency
```

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**CLI CODES – Router 6**

Router6

Physical    Config    **CLI**    Attributes

IOS Command Line Interface

```
Router>enable
Router#config term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int fastE0/0
Router(config-if)#ip address 50.0.0.2 255.0.0.0
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

Router(config-if)#exit
Router(config)#router eigrp 1
Router(config-router)#network 50.0.0.0
Router(config-router)#
%DUAL-5-NBRCHANGE: IP-EIGRP 1: Neighbor 50.0.0.1 (FastEthernet0/0) is up: new adjacency
```

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### PING CONNECTION

Router1 Router2

**Router1**

Physical Config **CLI** Attributes

IOS Command Line Interface

```
Router>enable
Router#ping 10.0.0.1
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.0.0.1, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 1/9/18 ms

Router#ping 40.0.0.2
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 40.0.0.2, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 19/27/39 ms

Router#ping 20.0.0.1
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 20.0.0.1, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 1/6/23 ms

Router#ping 50.0.0.2
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 50.0.0.2, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 0/0/0 ms

Router#ping 30.0.0.2
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 30.0.0.2, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 4/13/37 ms

Router#
```

**Router2**

Physical Config **CLI** Attributes

IOS Command Line Interface

```
Router>enable
Router#ping 10.0.0.2
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.0.0.2, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 0/2/11 ms

Router#ping 40.0.0.1
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 40.0.0.1, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 4/11/29 ms

Router#ping 50.0.0.1
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 50.0.0.1, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 3/15/43 ms

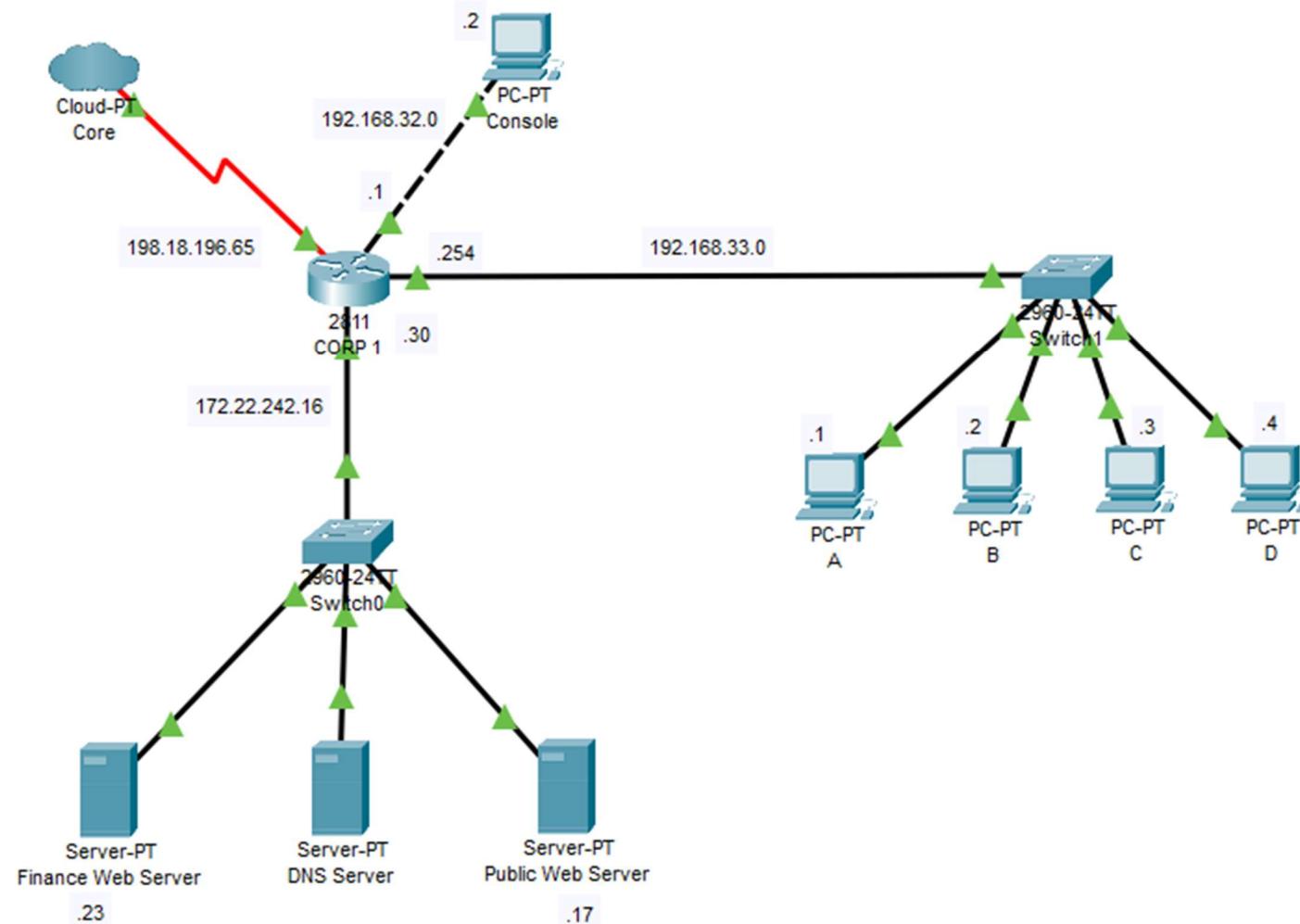
Router#ping 30.0.0.2
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 30.0.0.2, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 5/15/27 ms

Router#ping 20.0.0.1
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 20.0.0.1, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 12/19/27 ms

Router#
```

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**PROBLEM 2**

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**CLI CODES – CORP 1**

**CORP 1** **CORP 1**

**Physical Config CLI Attributes** **Physical Config CLI Attributes**

**IOS Command Line Interface** **IOS Command Line Interface**

```

Router>enable
Password:
Router#config term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int se0/0/0
Router(config-if)#ip address 198.18.196.65 255.255.255.0
Router(config-if)#encapsulation ppp
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface Serial0/0/0, changed state to up

Router(config-if)#exit
Router(config)#interface fa0/1
Router(config-if)#ip address 192.168.33.254 255.255.255.0
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up

Router(config-if)#exit
Router(config)#int fa0/0
Router(config-if)#ip address 172.22.242.30 255.255.255.0
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

Router(config-if)#exit
Router(config)#int fal/0
Router(config-if)#ip address 192.168.32.1 255.255.255.0
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet1/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0, changed state to up

```

```

%LINEPROTO-5-UPDOWN: Line protocol on interface FastEthernet0/0, changed state to up

Router(config-if)#exit
Router(config)#int fal/0
Router(config-if)#ip address 192.168.32.1 255.255.255.0
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet1/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0, changed state to up

Router(config-if)#exit
Router(config)#router rip
Router(config-router)#network 172.22.242.16
Router(config-router)#network 192.168.33.0
Router(config-router)#exit
Router(config)#access-list 100 permit top host 192.168.33.3 host 172.22.242.23 eq 80
^
% Invalid input detected at '^' marker.

Router(config)#access-list 100 permit tcp host 192.168.33.3 host 172.22.242.23 eq 80
Router(config)#access-list 100 deny tcp any host 172.22.242.23 eq 80
Router(config)#access-list 100 permit ip any any
Router(config)#interface Fa0/0
Router(config-if)#ip access-group 100 out
Router(config-if)#end
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#copy run startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
Router#

```

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**Finance Server, Public Server and DNS Server**

The screenshot displays three separate network management interfaces, likely from different vendors, showing the configuration of DNS services.

**Left Window (Finance Server):**

- File Name:** index.html
- Content:**

```
<title>Public Web Server</title>
<style>
body
{
font-family: Helvetica;
padding: 14px 16px;
}

p{text-align: center;}
h1{text-align: center;}
h2{text-align: center;}
.container
{
position: absolute;
margin: 20px;
width: auto;
}

.topnav
{
overflow: hidden;
background-color: #2c5420;
}

.topnav a
{
float: left;
color: #f2f2f2;
text-align: center;
padding: 14px 16px;
font-size:17px;
}

color: blue;
</style>

</head>
<body style = "background-color:#abff91;">


Home</a>
Services</a>
About</a>
Contact</a>
</div>
</div>


# Welcome to Finance Server Site</h1> Navigate to exclusive financial offers below. <br><br><p> ACCOUNT Create New Account.<br><br> TRANSACTIONS Deposit<br> Withdraw<br> Other Services<br> Check out other services offered.</p> |


```

**Middle Window (DNS Server):**

- File Name:** index.html
- Content:**

```
<DOCTYPE html>
<html>
<head>
<title>Public Web Server</title>
<style>
body
{
font-family: Helvetica;
padding: 14px 16px;
color: #f2f2f2;
}

.container
{
position: absolute;
margin: 20px;
width: auto;
}

.topnav
{
overflow: hidden;
background-color: #333;
}

.topnav a
{
float: left;
color: #f2f2f2;
text-align: center;
padding: 14px 16px;
font-size:17px;
}

color: blue;
</style>

</head>
<body style = "background-color:gray;">


Home</a>
Services</a>
About</a>
Contact</a>
</div>
</div>


# Welcome to Public Website</h1> Feel free to navigate through available public information and services. <br><br><p> Services Check out offered services.</p> About Learn more about our organization.</p> Contact Reach to us.</p> |


```

**Right Window (Web Server):**

- File Name:** index.html
- Content:**

```
<html>
<head>
<title>Public Web Server</title>
<style>
body
{
font-family: Helvetica;
padding: 14px 16px;
color: #f2f2f2;
}

.container
{
position: absolute;
margin: 20px;
width: auto;
}

.topnav
{
overflow: hidden;
background-color: #2c5420;
}

.topnav a
{
float: left;
color: #f2f2f2;
text-align: center;
padding: 14px 16px;
font-size:17px;
}

color: blue;
</style>

</head>
<body style = "background-color:#abff91;">

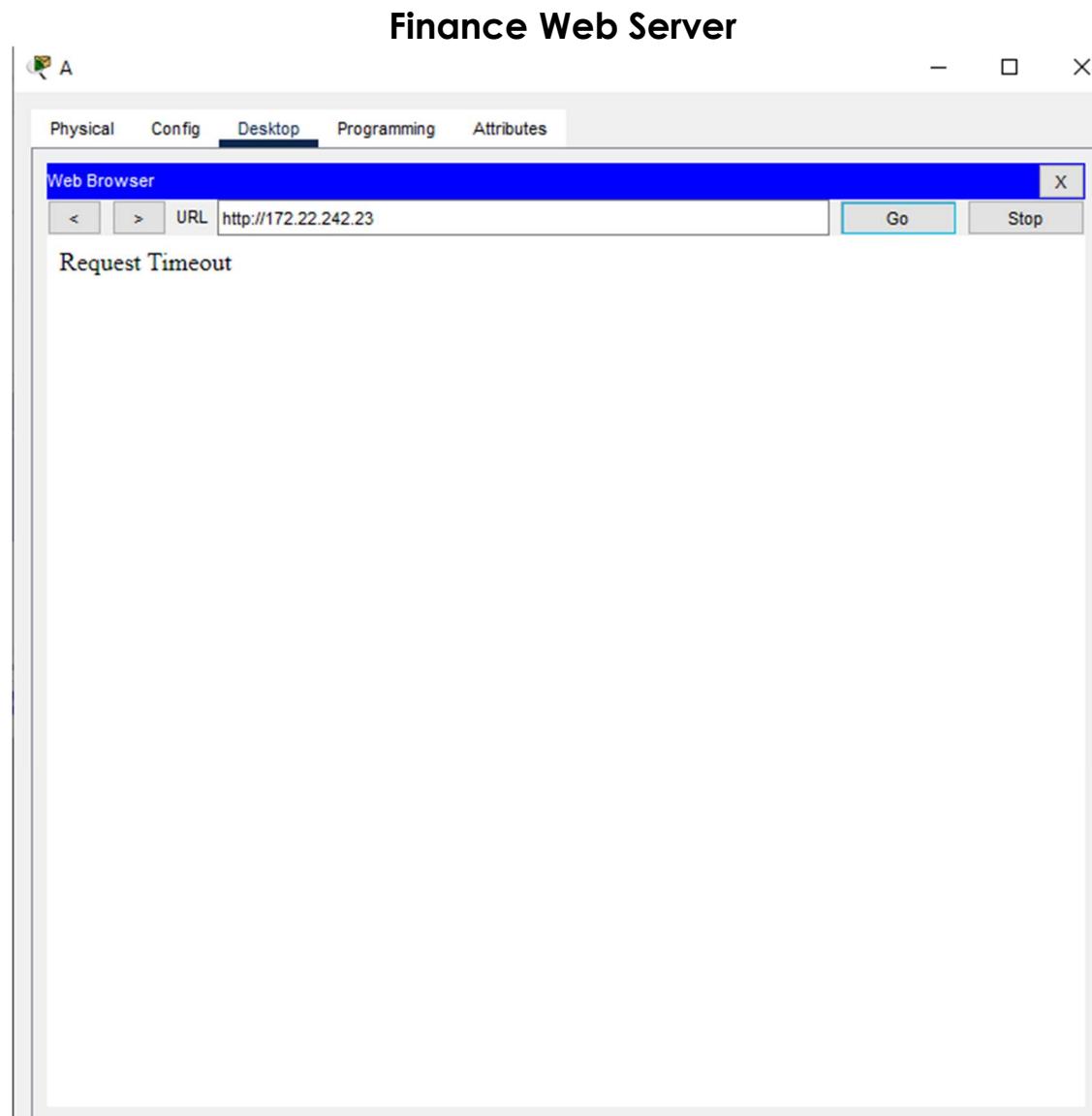

Home</a>
Services</a>
About</a>
Contact</a>
</div>
</div>


# Welcome to Finance Server Site</h1> Navigate to exclusive financial offers below. <br><br><p> ACCOUNT Create New Account.<br><br> TRANSACTIONS Deposit<br> Withdraw<br> Other Services<br> Check out other services offered.</p> |


```

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**Website Access - PCA**

**Public Web Server**

The interface has tabs: Physical, Config, Desktop, Programming, Attributes. The Desktop tab is selected. A Web Browser window shows the URL <http://172.22.242.17>. The website content includes a navigation bar with Home, Services, About, Contact links, and a main section: "Welcome to Public Website". Below it, text says "Feel free to navigate through available public information and services." and lists Services, About, and Contact sections.

**Welcome to Public Website**

Feel free to navigate through available public information and services.

**Services**

Check out offered services.

**About**

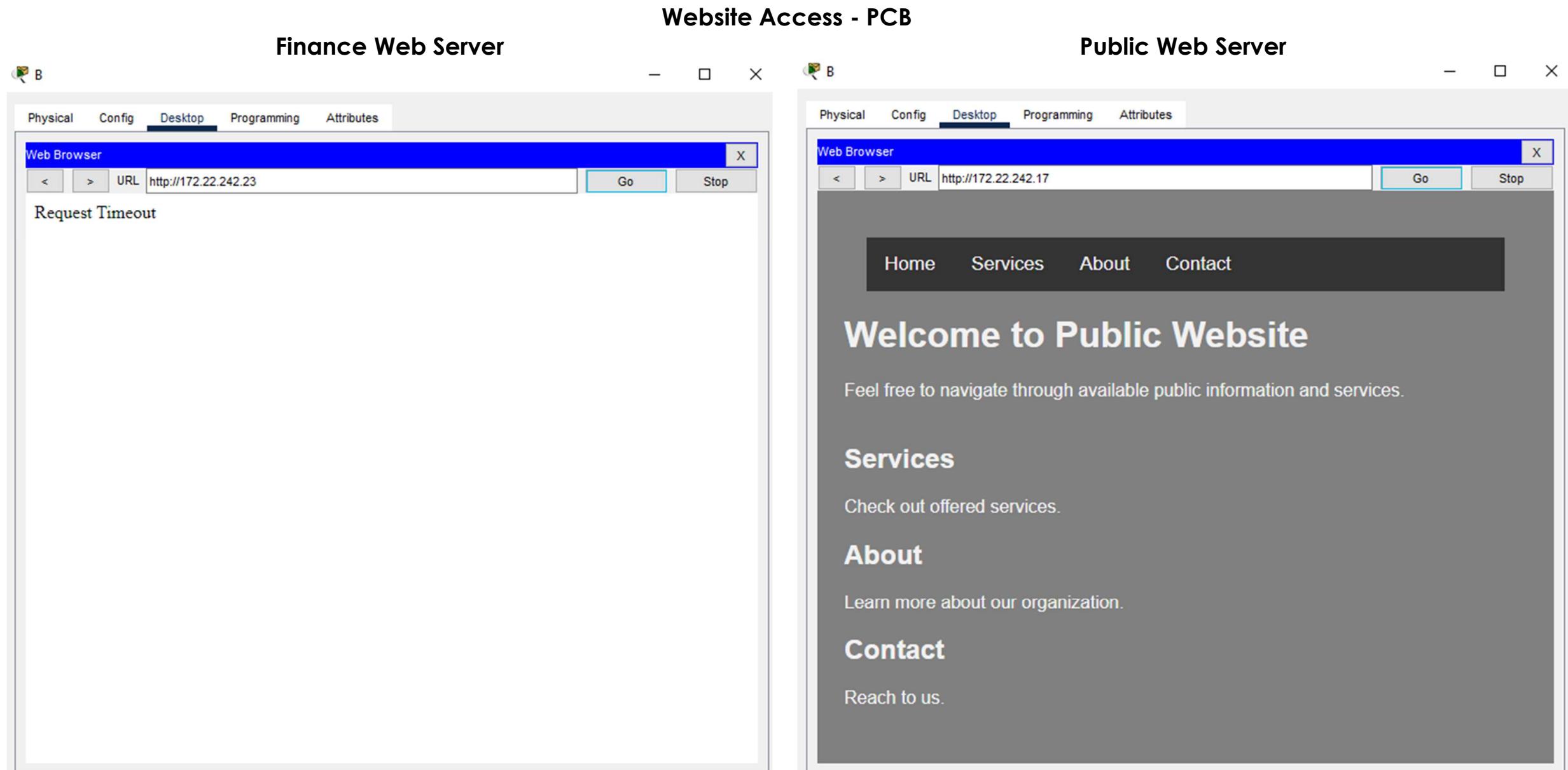
Learn more about our organization.

**Contact**

Reach to us.

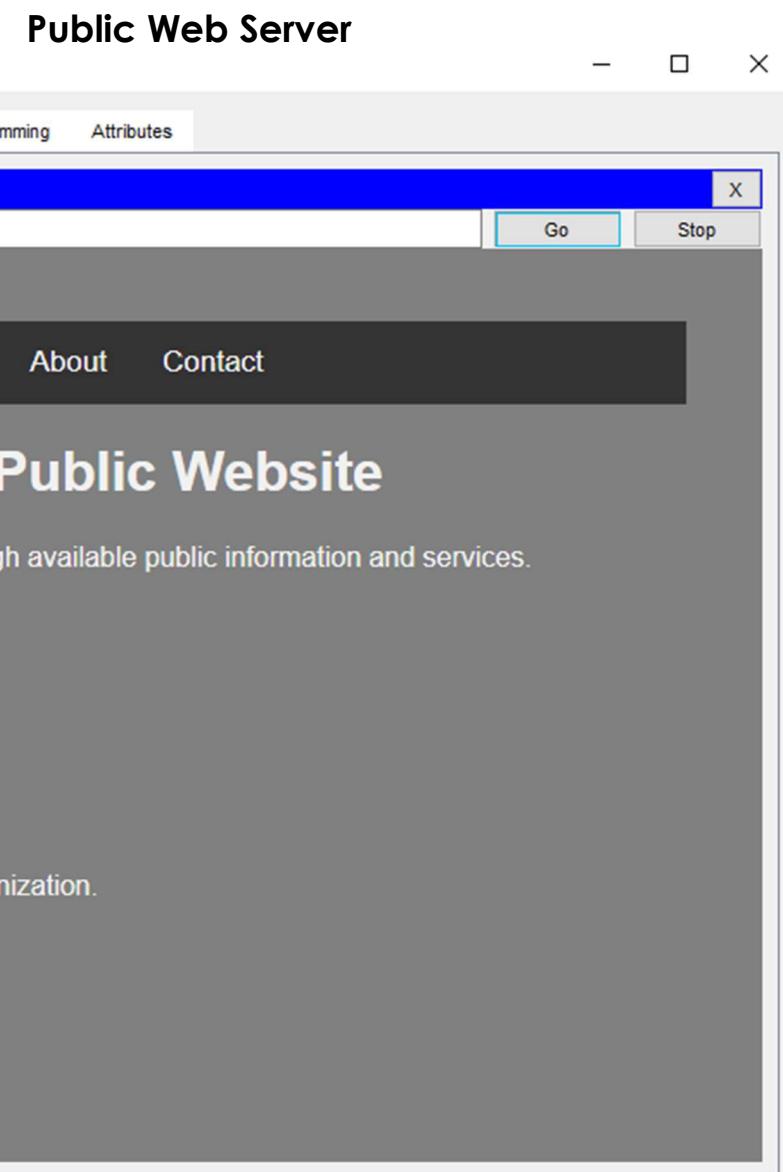
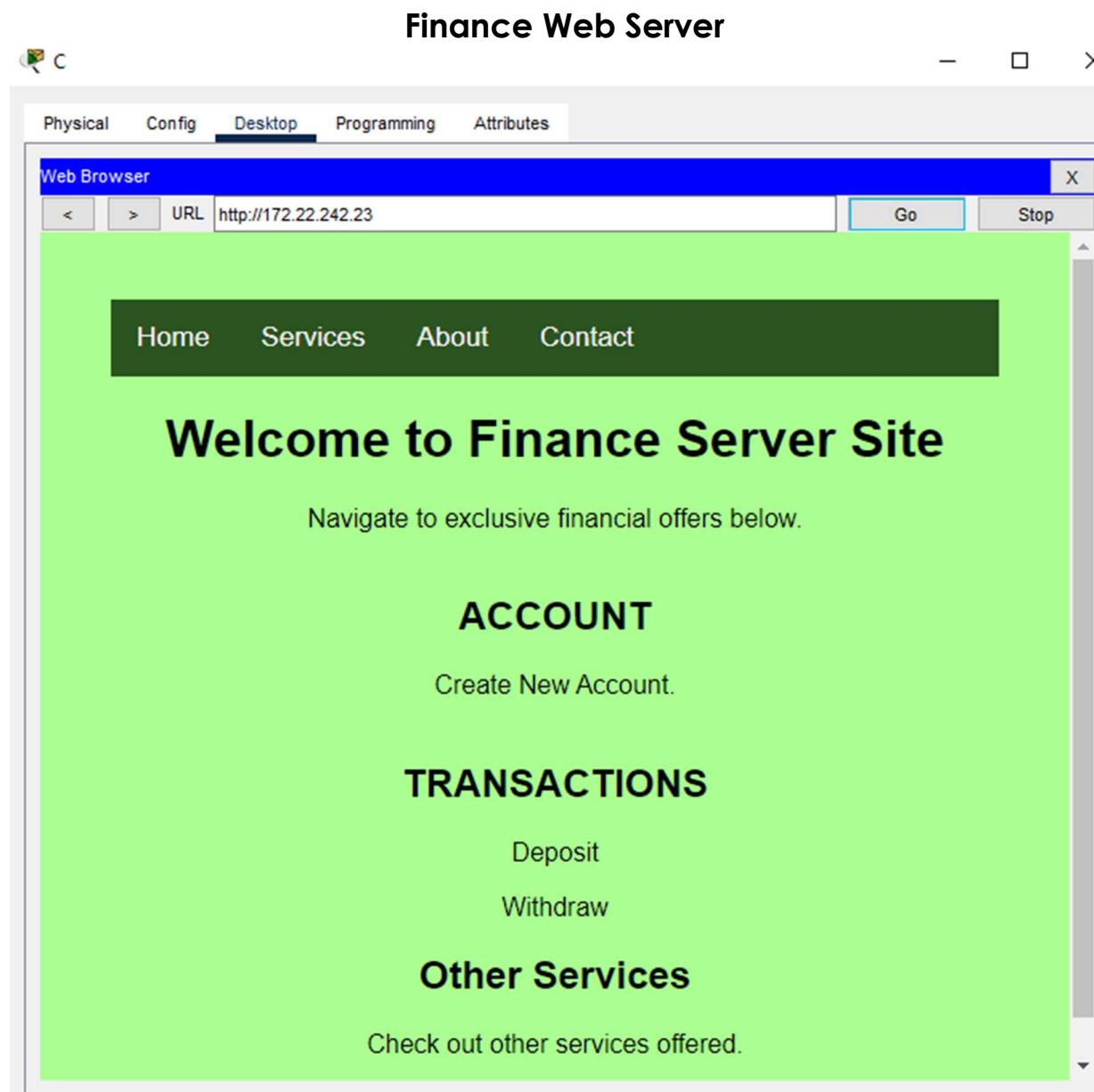
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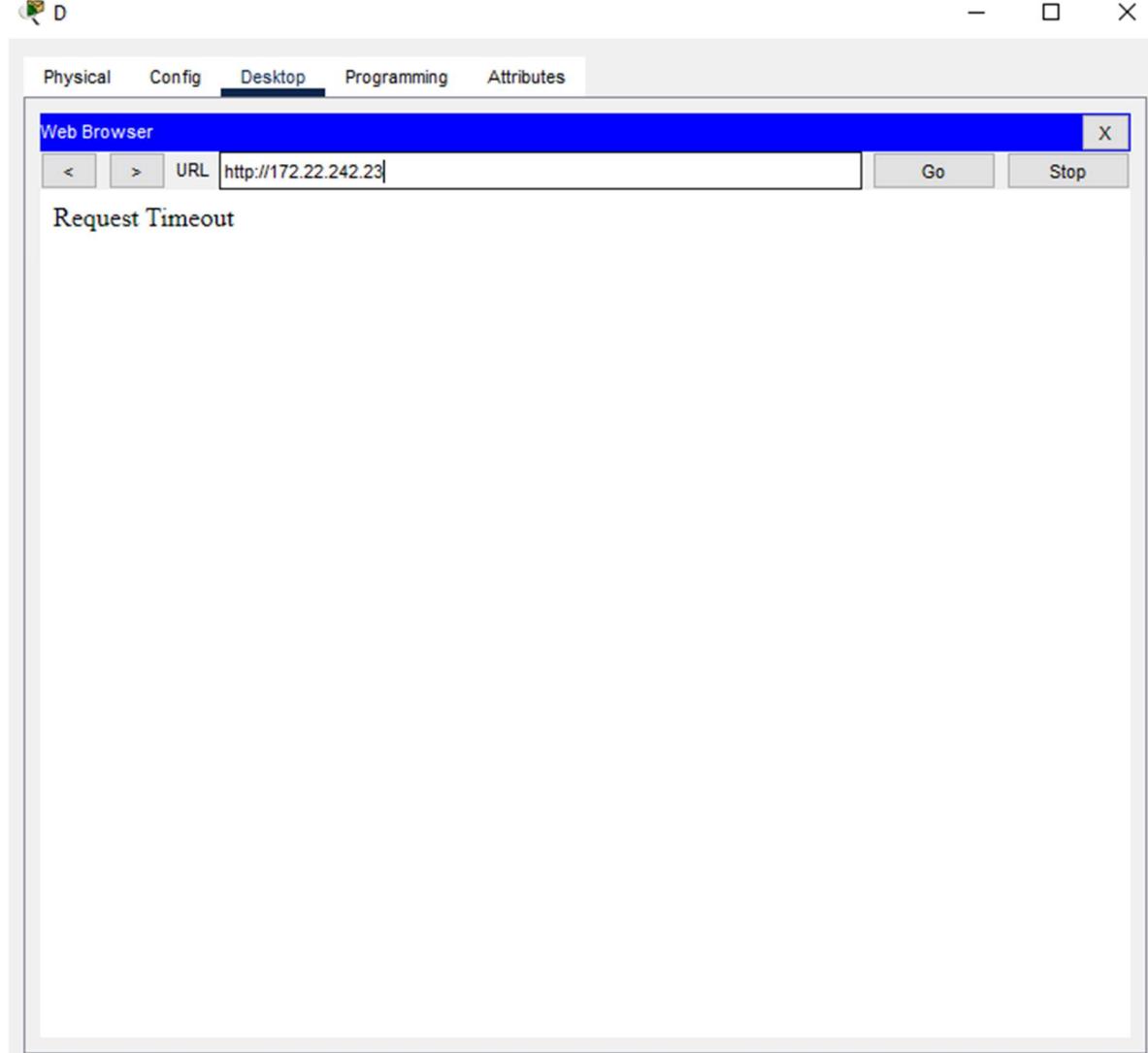
**Website Access - PCB**

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**Website Access - PCD**

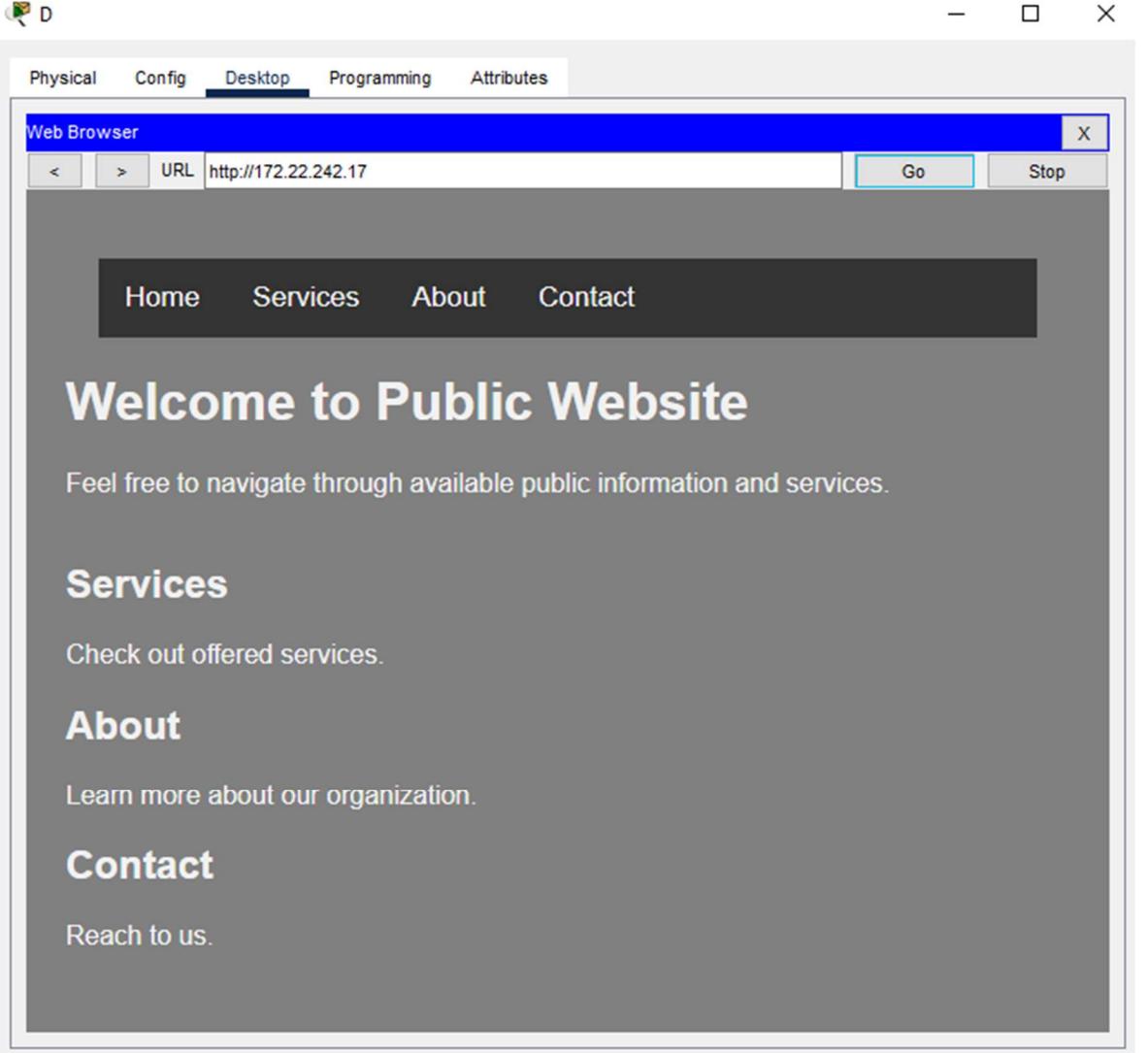
**Finance Web Server**



The interface has tabs: Physical, Config, Desktop (selected), Programming, Attributes. Below is a 'Web Browser' section with a URL input field containing 'http://172.22.242.23', and 'Go' and 'Stop' buttons.

Request Timeout

**Public Web Server**



The interface has tabs: Physical, Config, Desktop (selected), Programming, Attributes. Below is a 'Web Browser' section with a URL input field containing 'http://172.22.242.17', and 'Go' and 'Stop' buttons. The page content includes a navigation bar with Home, Services, About, Contact links, and a main heading 'Welcome to Public Website'.

Home Services About Contact

## Welcome to Public Website

Feel free to navigate through available public information and services.

### Services

Check out offered services.

### About

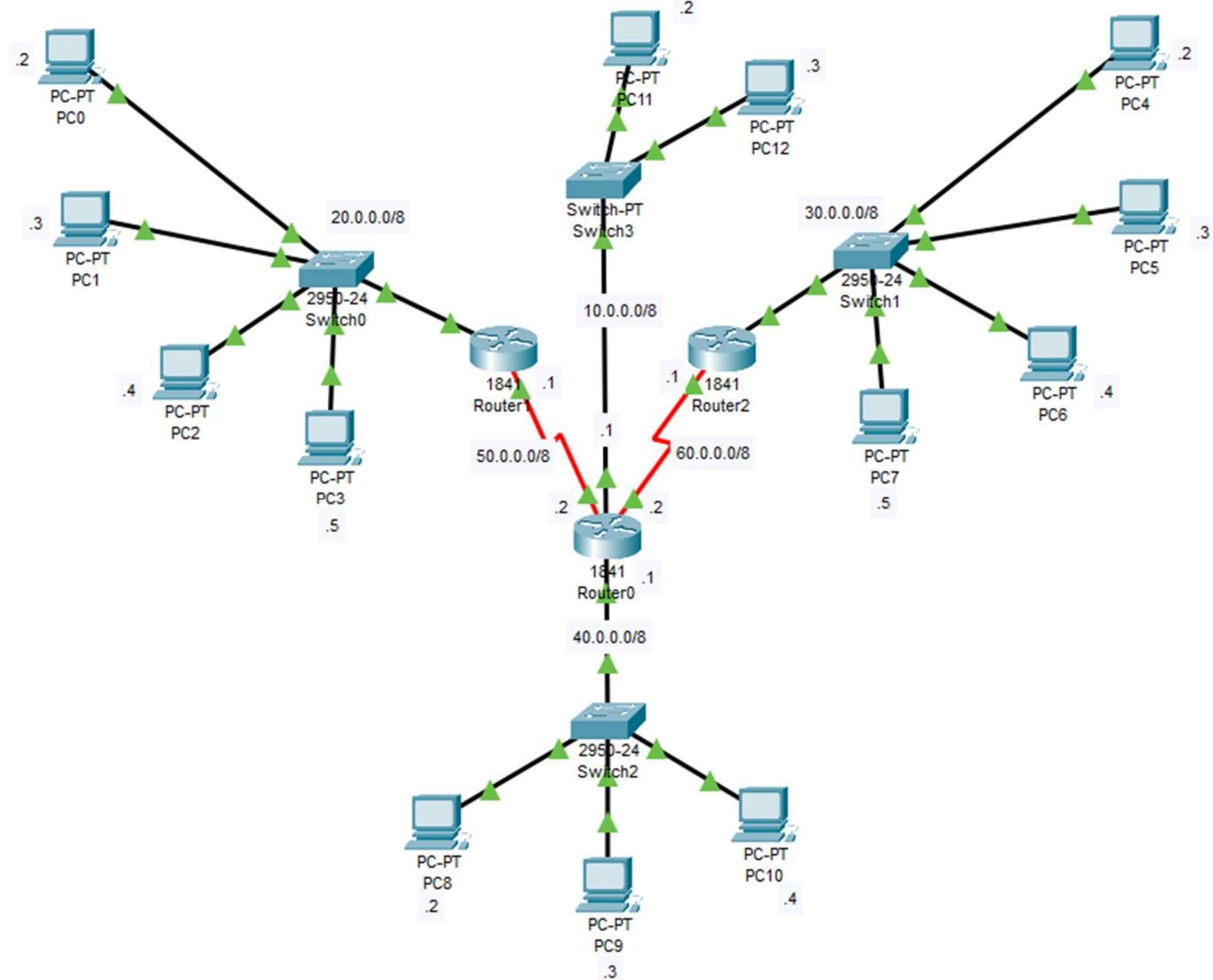
Learn more about our organization.

### Contact

Reach to us.

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**PROBLEM 3**

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### CLI CODES

The image displays three separate windows, each titled "IOS Command Line Interface", representing different routers: Router0, Router1, and Router2. Each window has tabs for Physical, Config, CLI (which is selected), and Attributes.

**Router0 Session:**

```

Would you like to enter the initial configuration dialog? [yes/no]: no
Press RETURN to get started!

Router>enable
Router#config term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int fa0/0
Router(config-if)#ip address 10.0.0.1 255.0.0.0
Router(config-if)#no shutdown

Router(config-if)#
$LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

$LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

Router(config-if)#exit
Router(config)#int fa0/1
Router(config-if)#ip address 40.0.0.1 255.0.0.0
Router(config-if)#no shutdown

Router(config-if)#
$LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up

$LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up

Router(config-if)#exit
Router(config)#int se0/0/0
Router(config-if)#ip address 50.0.0.2 255.0.0.0
Router(config-if)#encapsulation PPP
Router(config-if)#clock rate 64000
Router(config-if)#no shutdown

$LINK-5-CHANGED: Interface Serial0/0/0, changed state to down
Router(config-if)#
Router(config)#exit
Router(config)#int se0/0/1
Router(config-if)#ip address 60.0.0.2 255.0.0.0
Router(config-if)#encapsulation PPP
Router(config-if)#no shutdown

$LINK-5-CHANGED: Interface Serial0/0/1, changed state to down
Router(config-if)#
Router(config)#router rip
Router(config-router)#network 50.0.0.0
Router(config-router)#network 60.0.0.0
Router(config-router)#network 10.0.0.0
Router(config-router)#network 40.0.0.0
Router(config-router)#
$LINK-5-CHANGED: Interface Serial0/0/0, changed state to up

$LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0, changed state to up

$LINK-5-CHANGED: Interface Serial0/0/1, changed state to up

$LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/1, changed state to up
  
```

**Router1 Session:**

```

Router>enable
Router#config term
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int fa0/0
Router(config-if)#ip address 20.0.0.1 255.0.0.0
Router(config-if)#no shutdown

Router(config-if)#
$LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

$LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

Router(config-if)#exit
Router(config)#int se0/0/0
Router(config-if)#ip address 50.0.0.1 255.0.0.0
Router(config-if)#encapsulation ppp
Router(config-if)#no shutdown

Router(config-if)#
$LINK-5-CHANGED: Interface Serial0/0/0, changed state to up

$LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0, changed state to up

Router(config-if)#exit
Router(config)#router rip
Router(config-router)#network 50.0.0.0
Router(config-router)#network 20.0.0.0
  
```

**Router2 Session:**

```

Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int fa0/0
Router(config-if)#ip address 30.0.0.1 255.0.0.0
Router(config-if)#no shutdown

Router(config-if)#
$LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

$LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

Router(config-if)#exit
Router(config)#
$LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

Router(config)#int se0/0/0
Router(config-if)#ip address 60.0.0.1 255.0.0.0
Router(config-if)#encapsulation ppp
Router(config-if)#clock rate 64000
Router(config-if)#no shutdown

Router(config-if)#
$LINK-5-CHANGED: Interface Serial0/0/0, changed state to up

$LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0, changed state to up

Router(config-if)#
$LINK-5-CHANGED: Interface Serial0/0/0, changed state to up

$LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0, changed state to up
  
```

**Laboratory Final Exam**

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2BSCS-1

### PING CONNECTIVITY

The image displays two windows of the Cisco Packet Tracer software, both titled "PING CONNECTIVITY". Each window has a top navigation bar with tabs: Physical, Config, Desktop, Programming, and Attributes, with "Desktop" being the active tab. Below the tabs is a "Command Prompt" window.

**Left Window (PC8):**

- Ping to 10.0.0.2:  
C:\>ping 10.0.0.2  
Pinging 10.0.0.2 with 32 bytes of data:  
Request timed out.  
Reply from 10.0.0.2: bytes=32 time<1ms TTL=127  
Reply from 10.0.0.2: bytes=32 time<1ms TTL=127  
Reply from 10.0.0.2: bytes=32 time<1ms TTL=127
- Ping statistics for 10.0.0.2:  
Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),  
Approximate round trip times in milli-seconds:  
Minimum = 0ms, Maximum = 0ms, Average = 0ms
- Ping to 20.0.0.5:  
C:\>ping 20.0.0.5  
Pinging 20.0.0.5 with 32 bytes of data:  
Request timed out.  
Reply from 20.0.0.5: bytes=32 time=1ms TTL=126  
Reply from 20.0.0.5: bytes=32 time=16ms TTL=126  
Reply from 20.0.0.5: bytes=32 time=1ms TTL=126
- Ping statistics for 20.0.0.5:  
Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),  
Approximate round trip times in milli-seconds:  
Minimum = 1ms, Maximum = 16ms, Average = 6ms
- Ping to 30.0.0.3:  
C:\>ping 30.0.0.3  
Pinging 30.0.0.3 with 32 bytes of data:  
Request timed out.  
Reply from 30.0.0.3: bytes=32 time=7ms TTL=126  
Reply from 30.0.0.3: bytes=32 time=1ms TTL=126  
Reply from 30.0.0.3: bytes=32 time=16ms TTL=126
- Ping statistics for 30.0.0.3:  
Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),  
Approximate round trip times in milli-seconds:  
Minimum = 1ms, Maximum = 16ms, Average = 8ms

**Right Window (PC1):**

- Ping to 10.0.0.3:  
C:\>ping 10.0.0.3  
Pinging 10.0.0.3 with 32 bytes of data:  
Request timed out.  
Reply from 10.0.0.3: bytes=32 time=1ms TTL=126  
Reply from 10.0.0.3: bytes=32 time=19ms TTL=126  
Reply from 10.0.0.3: bytes=32 time=15ms TTL=126
- Ping statistics for 10.0.0.3:  
Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),  
Approximate round trip times in milli-seconds:  
Minimum = 1ms, Maximum = 19ms, Average = 11ms
- Ping to 30.0.0.4:  
C:\>ping 30.0.0.4  
Pinging 30.0.0.4 with 32 bytes of data:  
Request timed out.  
Reply from 30.0.0.4: bytes=32 time=22ms TTL=125  
Reply from 30.0.0.4: bytes=32 time=3ms TTL=125  
Reply from 30.0.0.4: bytes=32 time=2ms TTL=125
- Ping statistics for 30.0.0.4:  
Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),  
Approximate round trip times in milli-seconds:  
Minimum = 2ms, Maximum = 22ms, Average = 9ms
- Ping to 40.0.0.4:  
C:\>ping 40.0.0.4  
Pinging 40.0.0.4 with 32 bytes of data:  
Request timed out.  
Reply from 40.0.0.4: bytes=32 time=15ms TTL=126  
Reply from 40.0.0.4: bytes=32 time=1ms TTL=126  
Reply from 40.0.0.4: bytes=32 time=14ms TTL=126
- Ping statistics for 40.0.0.4:  
Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),  
Approximate round trip times in milli-seconds:  
Minimum = 1ms, Maximum = 15ms, Average = 10ms

**Laboratory Final Exam**

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**PING CONNECTIVITY**

The image shows two windows side-by-side, both titled "Command Prompt". The window on the left is for "PC11" and the one on the right is for "PC6". Both windows have tabs at the top: Physical, Config, Desktop (which is selected), Programming, and Attributes. The command prompt in both windows shows the results of a ping test.

**PC11 Command Prompt Output:**

```
Cisco Packet Tracer PC Command Line 1.0
C:>ping 20.0.0.5

Pinging 20.0.0.5 with 32 bytes of data:

Reply from 20.0.0.5: bytes=32 time=11ms TTL=126
Reply from 20.0.0.5: bytes=32 time=16ms TTL=126
Reply from 20.0.0.5: bytes=32 time=1ms TTL=126
Reply from 20.0.0.5: bytes=32 time=19ms TTL=126

Ping statistics for 20.0.0.5:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 19ms, Average = 11ms

C:>ping 40.0.0.3

Pinging 40.0.0.3 with 32 bytes of data:

Request timed out.
Reply from 40.0.0.3: bytes=32 time<1ms TTL=127
Reply from 40.0.0.3: bytes=32 time<1ms TTL=127
Reply from 40.0.0.3: bytes=32 time<1ms TTL=127

Ping statistics for 40.0.0.3:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:>ping 30.0.0.2

Pinging 30.0.0.2 with 32 bytes of data:

Request timed out.
Reply from 30.0.0.2: bytes=32 time=11ms TTL=126
Reply from 30.0.0.2: bytes=32 time=17ms TTL=126
Reply from 30.0.0.2: bytes=32 time=1ms TTL=126

Ping statistics for 30.0.0.2:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 17ms, Average = 9ms

C:>
```

**PC6 Command Prompt Output:**

```
Cisco Packet Tracer PC Command Line 1.0
C:>ping 10.0.0.2

Pinging 10.0.0.2 with 32 bytes of data:

Reply from 10.0.0.2: bytes=32 time=15ms TTL=126
Reply from 10.0.0.2: bytes=32 time=1ms TTL=126
Reply from 10.0.0.2: bytes=32 time=14ms TTL=126
Reply from 10.0.0.2: bytes=32 time=2ms TTL=126

Ping statistics for 10.0.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 15ms, Average = 8ms

C:>ping 20.0.0.4

Pinging 20.0.0.4 with 32 bytes of data:

Reply from 20.0.0.4: bytes=32 time=29ms TTL=125
Reply from 20.0.0.4: bytes=32 time=2ms TTL=125
Reply from 20.0.0.4: bytes=32 time=26ms TTL=125
Reply from 20.0.0.4: bytes=32 time=24ms TTL=125

Ping statistics for 20.0.0.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 2ms, Maximum = 29ms, Average = 20ms

C:>ping 40.0.0.3

Pinging 40.0.0.3 with 32 bytes of data:

Reply from 40.0.0.3: bytes=32 time=1ms TTL=126
Reply from 40.0.0.3: bytes=32 time=1ms TTL=126
Reply from 40.0.0.3: bytes=32 time=1ms TTL=126
Reply from 40.0.0.3: bytes=32 time=2ms TTL=126

Ping statistics for 40.0.0.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 2ms, Average = 1ms

C:>
```