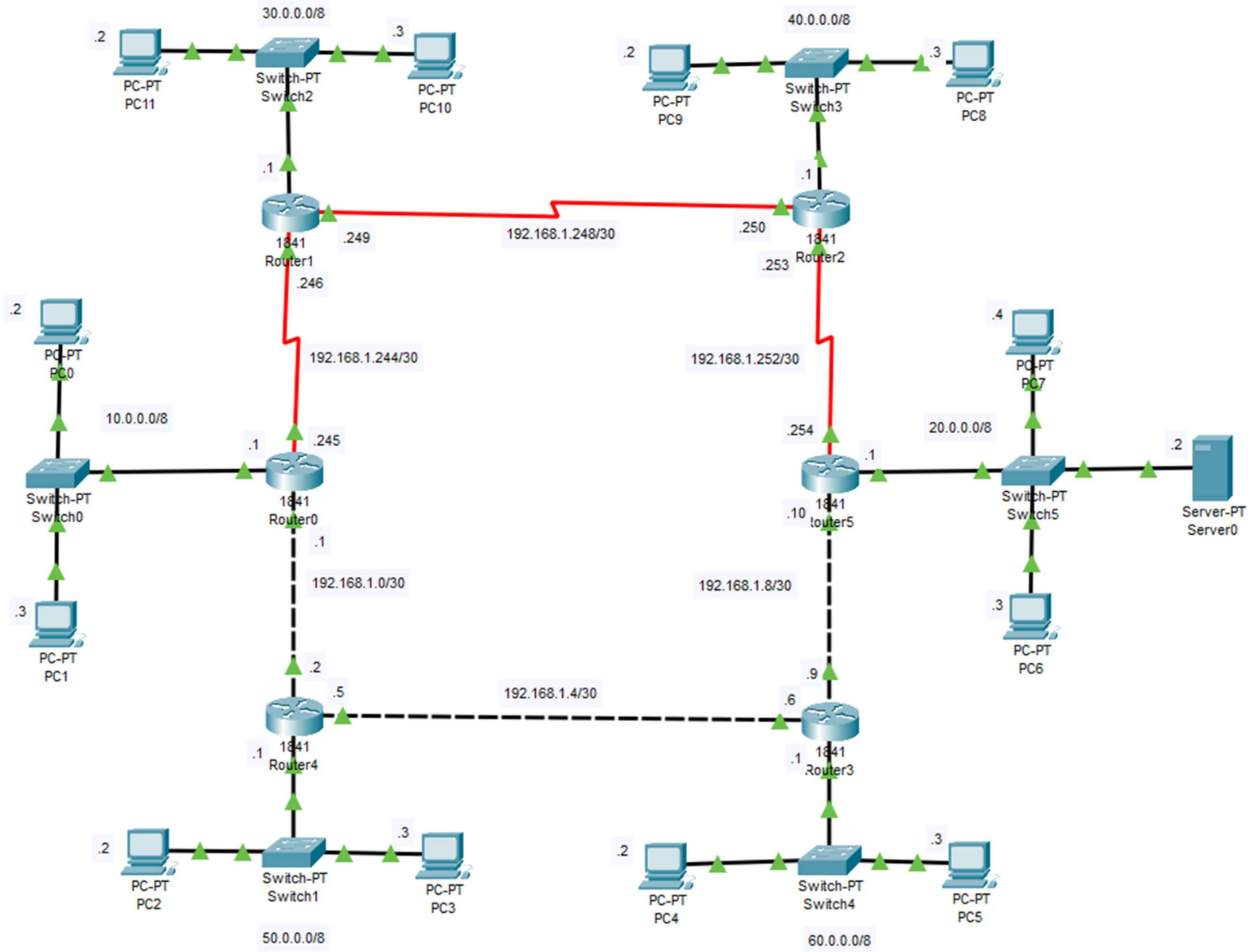
Laboratory 8

MARASIGAN, VEM AIENSI A.
2BSCS-1



Laboratory 8

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2BSCS-1

CLI CODES

Router0

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 10.0.0.1 255.0.0.0
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 fastE0/1
Router(config-if)#ip address 192.168.1.1 255.255.255.252
Router(config-if)#no shutdown

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

Router(config-if)#exit
Router(config)#int se0/0/0
Router(config-if)#ip address 192.168.1.245 255.255.255.252
Router(config-if)#encapsulation ppp
Router(config-if)#clock rate 64000
This command applies only to DCE interfaces
Router(config-if)#no shutdown

%LINK-5-CHANGED: Interface Serial0/0/0, changed state to down
Router(config-if)#exit
Router(config)#router eigrp 1
Router(config-router)#network 10.0.0.0
Router(config-router)#network 192.168.1.0
Router(config-router)#network 192.168.1.244
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

%DUAL-5-NBRCHANGE: IP-EIGRP 1: Neighbor 192.168.1.246 (Serial0/0/0) is up: new adjacency
```

Router1

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 se0/0/0
Router(config-if)#ip address 192.168.1.246 255.255.255.252
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

Router(config-if)#exit
Router(config)#int se0/0/1
Router(config-if)#ip address 192.168.1.249 255.255.255.252
Router(config-if)#encapsulation ppp
Router(config-if)#clock rate 64000
This command applies only to DCE interfaces
Router(config-if)#no shutdown

%LINK-5-CHANGED: Interface Serial0/0/1, changed state to down
Router(config-if)#exit
Router(config)#int fastE0/0
Router(config-if)#ip address
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0, changed state to up
                     ^
% Invalid input detected at '^' marker.

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)#router eigrp 1
Router(config-router)#network 192.168.1.244
Router(config-router)#
%DUAL-5-NBRCHANGE: IP-EIGRP 1: Neighbor 192.168.1.245 (Serial0/0/0) is up: new adjacency

Router(config-router)#network 192.168.1.248
Router(config-router)#network 30.0.0.0
Router(config-router)#
%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

%DUAL-5-NBRCHANGE: IP-EIGRP 1: Neighbor 192.168.1.250 (Serial0/0/1) is up: new adjacency
```

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CLI CODES

Router2

Physical Config CLI Attributes

IOS Command Line Interface

```
Router>enable
Router#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#interface fastE0/0
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 FastEthernet0/0, changed state to up

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

Router(config-if)#exit
Router(config)#int se0/0/1
Router(config-if)#ip address 192.168.1.250 255.255.255.252
Router(config-if)#encapsulation ppp
Router(config-if)#clock rate 64000
Router(config-if)#no shutdown

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

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

Router(config-if)#exir
                  ^
% Invalid input detected at '^' marker.

Router(config-if)#exit
Router(config)#int se0/0/0
Router(config-if)#ip address 192.168.1.253 255.255.255.252
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)#exit
Router(config)#router eigrp 1
Router(config-router)#network 40.0.0.0
Router(config-router)#network 192.168.1.248
Router(config-router)#
%DUAL-5-NBRCHANGE: IP-EIGRP 1: Neighbor 192.168.1.249 (Serial0/0/1) is up: new adjacency

Router(config-router)#network 192.168.1.252
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

%DUAL-5-NBRCHANGE: IP-EIGRP 1: Neighbor 192.168.1.254 (Serial0/0/0) is up: new adjacency
```

Router3

Physical Config CLI Attributes

IOS Command Line Interface

```
Router>enable
Router#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#int fastE0/1
Router(config-if)#ip address 192.168.1.9 255.255.255.252
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 fastE0/1
Router(config-if)#ip address 192.168.1.6 255.255.255.252
Router(config-if)#no shutdown
Router(config-if)#ip address 192.168.1.9 255.255.255.252
Router(config-if)#no shutdown
Router(config-if)#exit
Router(config)#int fastE0/0
Router(config-if)#ip address 192.168.1.6 255.255.255.252
Router(config-if)#no shutdown

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

Router(config-if)#exit
Router(config)#interface Ethernet0/1/0
Router(config-if)#ip address 60.0.0.1 255.0.0.0
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface Ethernet0/1/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet0/1/0, changed state to up

Router(config-if)#exit
Router(config)#router eigrp 1
Router(config-router)#network 192.168.1.8
Router(config-router)#
%DUAL-5-NBRCHANGE: IP-EIGRP 1: Neighbor 192.168.1.10 (FastEthernet0/1) is up: new
adjacency

Router(config-router)#network 60.0.0.0
Router(config-router)#network 192.168.1.4
Router(config-router)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

%DUAL-5-NBRCHANGE: IP-EIGRP 1: Neighbor 192.168.1.5 (FastEthernet0/0) is up: new
adjacency
```

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2BSCS-1

CLI CODES

Router4

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 192.168.1.5 255.255.255.252
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 fastE0/0
Router(config-if)#ip address 192.168.1.2 255.255.255.252
Router(config-if)#no shutdown
Router(config-if)#exit
Router(config)#int fastE0/0
Router(config-if)#ip address 192.168.1.5 255.255.255.252
Router(config-if)#no shutdown
Router(config-if)#exit
Router(config)#int fastE0/1
Router(config-if)#ip address 192.168.1.2
% Incomplete command.
Router(config-if)#ip address 192.168.1.2 255.255.255.252
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 ethernet0/1/0
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 Ethernet0/1/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet0/1/0, changed state to up

Router(config-if)#exit
Router(config)#router eigrp 1
Router(config-router)#network 192.168.1.0
Router(config-router)#
%DUAL-5-NBRCHANGE: IP-EIGRP 1: Neighbor 192.168.1.6 (FastEthernet0/0) is up: new
adjacency

%DUAL-5-NBRCHANGE: IP-EIGRP 1: Neighbor 192.168.1.1 (FastEthernet0/1) is up: new
adjacency

Router(config-router)#network 192.168.1.4
Router(config-router)#network 50.0.0.0
```

Router5

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 se0/0/0
Router(config-if)#ip address 192.168.1.254 255.255.255.252
Router(config-if)#encapsulation pp
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)#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)#int fastE0/1
Router(config-if)#ip address 192.168.1.10 255.255.255.252
Router(config-if)#no shutdown

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

Router(config-if)#exit
Router(config)#router eigrp 1
Router(config-router)#network 192.168.1.8
Router(config-router)#
%DUAL-5-NBRCHANGE: IP-EIGRP 1: Neighbor 192.168.1.253 (Serial0/0/0) is up: new adjacency

Router(config-router)#network 192.168.1.252
Router(config-router)#network 20.0.0.0
Router(config-router)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up

%DUAL-5-NBRCHANGE: IP-EIGRP 1: Neighbor 192.168.1.9 (FastEthernet0/1) is up: new
adjacency
```

Laboratory 8

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PING

PC1

Physical Config Desktop Programming Attributes

Command Prompt

```
Pinging 30.0.0.2 with 32 bytes of data:

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

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=10ms TTL=123
Reply from 40.0.0.3: bytes=32 time=10ms TTL=123
Reply from 40.0.0.3: bytes=32 time=10ms TTL=123

Ping statistics for 40.0.0.3:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 10ms, Maximum = 10ms, Average = 10ms

C:\>ping 50.0.0.2

Pinging 50.0.0.2 with 32 bytes of data:

Request timed out.
Reply from 50.0.0.2: bytes=32 time=1ms TTL=126
Reply from 50.0.0.2: bytes=32 time<1ms TTL=126
Reply from 50.0.0.2: bytes=32 time<1ms TTL=126

Ping statistics for 50.0.0.2:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>ping 60.0.0.3

Pinging 60.0.0.3 with 32 bytes of data:

Request timed out.
Reply from 60.0.0.3: bytes=32 time=24ms TTL=125
Reply from 60.0.0.3: bytes=32 time<1ms TTL=125
Reply from 60.0.0.3: bytes=32 time=1ms TTL=125

Ping statistics for 60.0.0.3:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 24ms, Average = 8ms

C:\>ping 20.0.0.4

Pinging 20.0.0.4 with 32 bytes of data:

Request timed out.
Reply from 20.0.0.4: bytes=32 time<1ms TTL=124
Reply from 20.0.0.4: bytes=32 time<1ms TTL=124
Reply from 20.0.0.4: bytes=32 time<1ms TTL=124
```

PC3

Physical Config Desktop Programming Attributes

Command Prompt

```
Pinging 10.0.0.2 with 32 bytes of data:

Request timed out.
Reply from 10.0.0.2: bytes=32 time=1ms TTL=126
Reply from 10.0.0.2: bytes=32 time<1ms TTL=126
Reply from 10.0.0.2: bytes=32 time=35ms TTL=126

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 = 35ms, Average = 12ms

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=38ms TTL=125
Reply from 30.0.0.3: bytes=32 time=2ms TTL=125
Reply from 30.0.0.3: bytes=32 time=2ms TTL=125

Ping statistics for 30.0.0.3:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 38ms, Average = 14ms

C:\>ping 40.0.0.2

Pinging 40.0.0.2 with 32 bytes of data:

Request timed out.
Reply from 40.0.0.2: bytes=32 time=2ms TTL=124
Reply from 40.0.0.2: bytes=32 time=1ms TTL=124
Reply from 40.0.0.2: bytes=32 time=1ms TTL=124

Ping statistics for 40.0.0.2:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 2ms, Average = 1ms

C:\>ping 60.0.0.2

Pinging 60.0.0.2 with 32 bytes of data:

Request timed out.
Reply from 60.0.0.2: bytes=32 time<1ms TTL=126
Reply from 60.0.0.2: bytes=32 time=31ms TTL=126
Reply from 60.0.0.2: bytes=32 time<1ms TTL=126

Ping statistics for 60.0.0.2:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 31ms, Average = 10ms

C:\>ping 20.0.0.2

Pinging 20.0.0.2 with 32 bytes of data:

Request timed out.
Reply from 20.0.0.2: bytes=32 time<1ms TTL=125
Reply from 20.0.0.2: bytes=32 time<1ms TTL=125
Reply from 20.0.0.2: bytes=32 time<1ms TTL=125
```

PC9

Physical Config Desktop Programming Attributes

Command Prompt

```
Pinging 10.0.0.3 with 32 bytes of data:

Reply from 10.0.0.3: bytes=32 time=28ms TTL=123
Reply from 10.0.0.3: bytes=32 time=1ms TTL=123
Reply from 10.0.0.3: bytes=32 time=10ms TTL=123
Reply from 10.0.0.3: bytes=32 time=33ms TTL=123

Ping statistics for 10.0.0.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 33ms, Average = 18ms

C:\>ping 20.0.0.2

Pinging 20.0.0.2 with 32 bytes of data:

Reply from 20.0.0.2: bytes=32 time=42ms TTL=126
Reply from 20.0.0.2: bytes=32 time=1ms TTL=126
Reply from 20.0.0.2: bytes=32 time=1ms TTL=126
Reply from 20.0.0.2: bytes=32 time=1ms TTL=126

Ping statistics for 20.0.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 42ms, Average = 11ms

C:\>ping 30.0.0.3

Pinging 30.0.0.3 with 32 bytes of data:

Reply from 30.0.0.3: bytes=32 time=23ms TTL=126
Reply from 30.0.0.3: bytes=32 time=1ms TTL=126
Reply from 30.0.0.3: bytes=32 time=1ms TTL=126
Reply from 30.0.0.3: bytes=32 time=1ms TTL=126

Ping statistics for 30.0.0.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 23ms, Average = 6ms

C:\>ping 40.0.0.2

Pinging 40.0.0.2 with 32 bytes of data:

Reply from 40.0.0.2: bytes=32 time=9ms TTL=128
Reply from 40.0.0.2: bytes=32 time=21ms TTL=128
Reply from 40.0.0.2: bytes=32 time=4ms TTL=128
Reply from 40.0.0.2: bytes=32 time=20ms TTL=128

Ping statistics for 40.0.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 4ms, Maximum = 21ms, Average = 13ms

C:\>ping 60.0.0.3

Pinging 60.0.0.3 with 32 bytes of data:

Reply from 60.0.0.3: bytes=32 time=2ms TTL=125
Reply from 60.0.0.3: bytes=32 time=1ms TTL=125
Reply from 60.0.0.3: bytes=32 time=7ms TTL=125
Reply from 60.0.0.3: bytes=32 time=1ms TTL=125
```