



**Faculty of Engineering and Technology  
Electrical and Computer Engineering Department**

**Computer Networks  
ENCS3320**

**Packet Tracer Project**

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## **Abstract**

In this project, Cisco Packet Tracer is used to build a topology, and test the connectivity between the devices and how they can reach each other using the open shortest path protocol.

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## Part0: IP subnetting and assignment

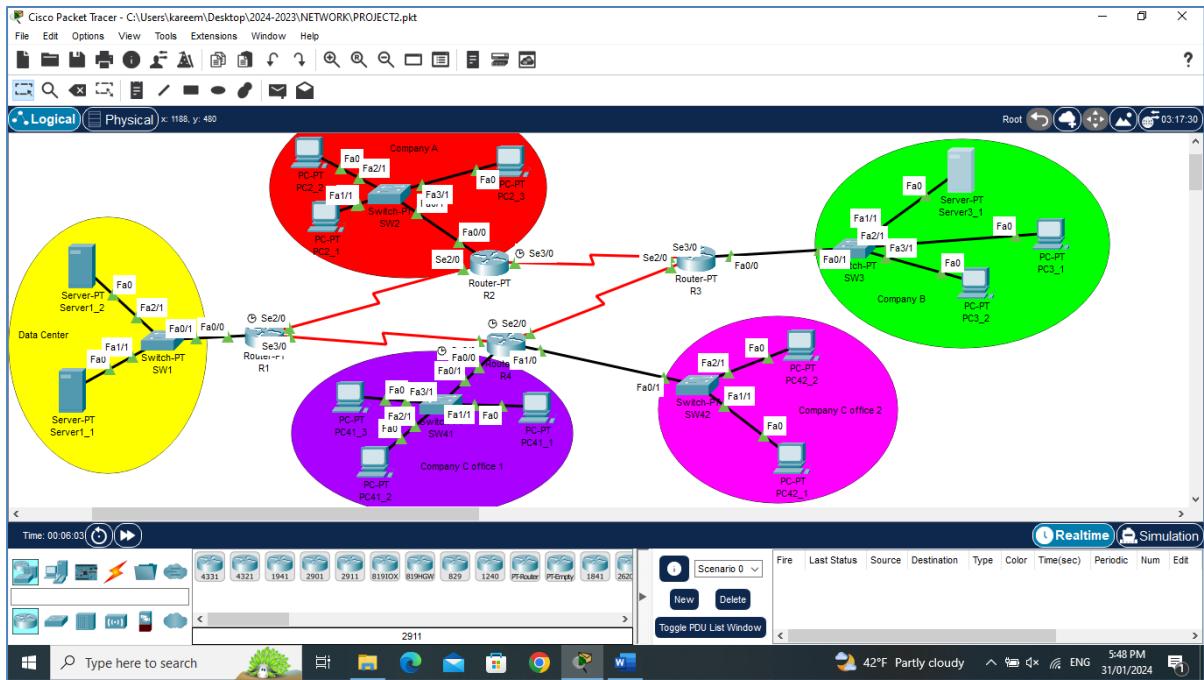
IP is 200.02.10.0/25.

Subnet	Subnet Mask “using the slash notation”	Network IP	Broadcast IP	First IP	Last IP	Maximum number of IPs in this subnet
Data center	255.255.255.240\28	200.02.10.0/29	200.02.10.15	200.02.10.1	200.02.10.6	14
R1-R2 link	255.255.255.252\30	200.02.10.16/30	200.02.10.19	200.02.10.17	200.02.10.18	2
R2-R3 link	255.255.255.252\30	200.02.10.20/30	200.02.10.23	200.02.10.21	200.02.10.22	2
R3-R4 link	255.255.255.252\30	200.02.10.24/30	200.02.10.27	200.02.10.25	200.02.10.26	2
R4-R1 link	255.255.255.252\30	200.02.10.28/30	200.02.10.31	200.02.10.29	200.02.10.30	2
Company A	255.255.255.224\27	200.02.10.32/27	200.02.10.63	200.02.10.33	200.02.10.62	30
Company B	255.255.255.224\27	200.02.10.64/27	200.02.10.95	200.02.10.65	200.02.10.94	30
Company C office 1	255.255.255.240\28	200.02.10.96/28	200.02.10.111	200.02.10.97	200.02.10.110	14
Company C office 2	255.255.255.240\28	200.02.10.112/28	200.02.10.127	200.02.10.113	200.02.10.126	14

Table 1 Subnetting details

We have 9 subnets, divided according to the number of end devices that should be covered when distributing the IP addresses in each company, and for the links between the routers. For company A and company B, each one needs at least 26 and 24 end devices respectively, so there should be 5 bits determined for the hosts, so that the total number of end devices is 30 for each. For company C, there are two offices, office 1 need 10 end devices and office 2 needs 14 end devices, it was appropriate to determine 4 bits for the hosts in each network. For the data center, there are 5 end devices, we set 4 bits for the hosts in its network. Then each link connects between two routers, it was acceptable to determine 2 bits for the hosts part in each network of each link.

## Part1: Building the topology



## Part2: Configuring servers

According to the network IP addresses determined in part 0, in the data center we have 2 servers shown in the figure of part 1, these servers got IP addresses from within the range of the network addresses of the data center, Server1\_1 got IP address 200.2.10.2 and it is the DNS server, Server1\_2 got IP address 200.2.10.3 and it is the WEB server. For the WEB server, we wrote the HTML file as desired in the project's specifications. For the DNS server, we defined the Resource Records with the specified names and addresses, we have the WEB server with name “www.FirstSem2024.com” and IP 200.2.10.3, and the Email server with name “ENCS3320.com” and IP 200.2.10.66.

For company A, we have three PC devices shown in the figure of part 1, PC2\_1 got the IP 200.2.10.34, while PC2\_2 got the IP 200.2.10.35 and PC2\_3 got the IP 200.2.10.36. PC2\_1 has an email with username PC21 and password A2024, we set the email for it to be tested later.

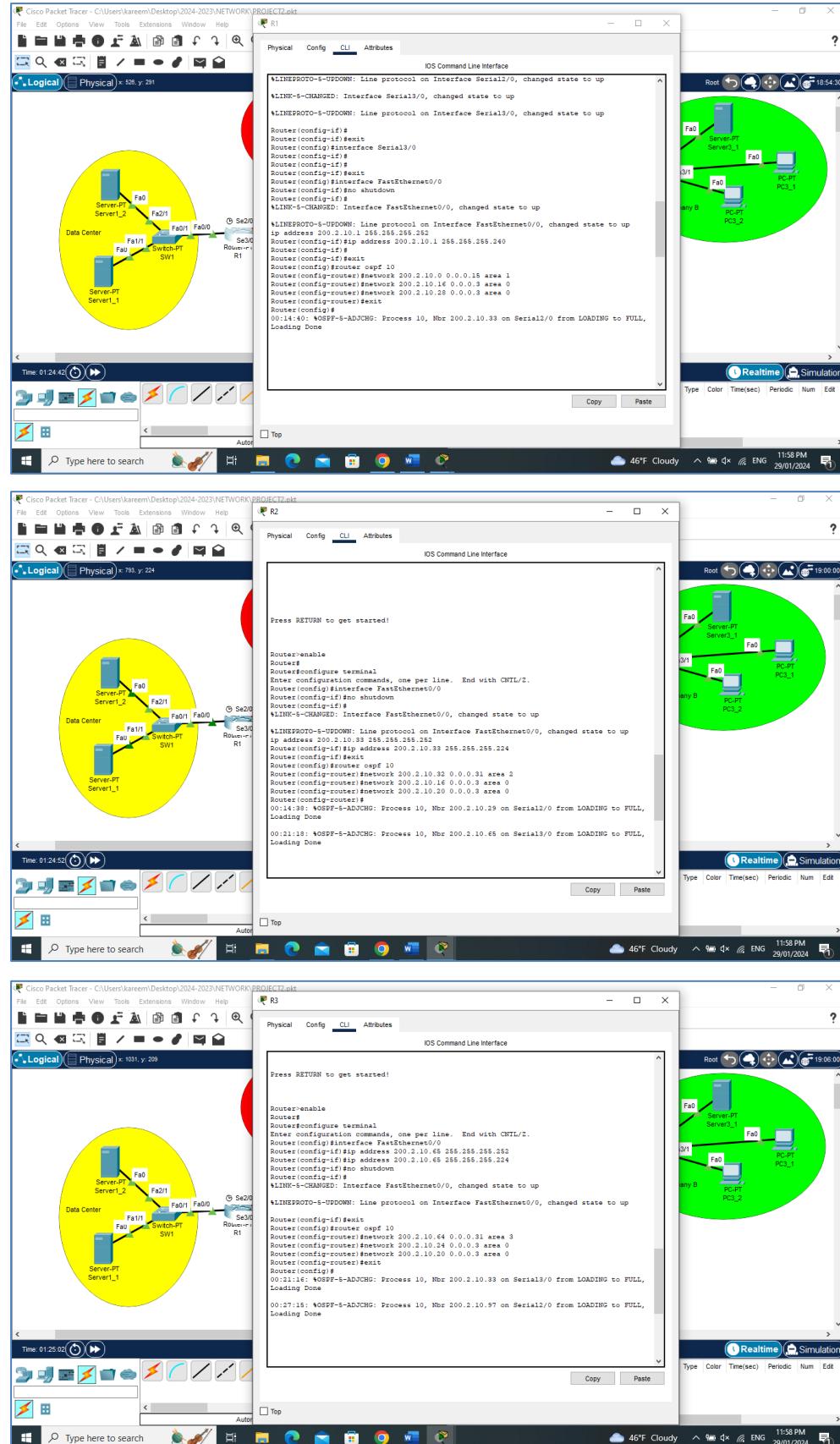
For company B, we have the Email Server (Server3\_1) got the IP 200.2.66, and two PC devices, PC3\_1 got the IP 200.2.10.67 and PC3\_2 got the IP 200.2.10.68. PC3\_1 has an email with username PC31 and password A2024, we set the email features for it to be tested later. For the Email server, we defined the usernames and the password of the users.

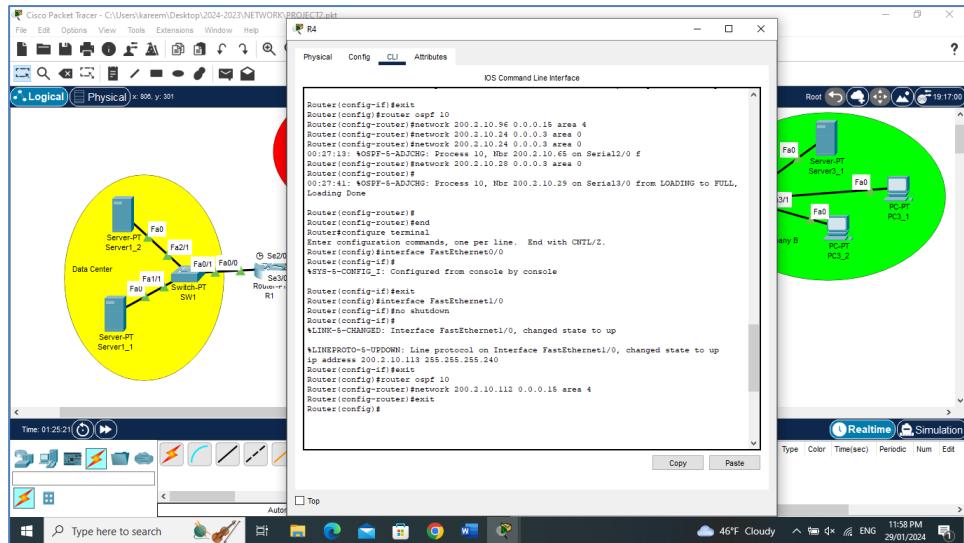
Moving for Company C, let's start with office 1, there are 3 PC devices, PC41\_1 got IP 200.10.2.98, while PC41\_2 got the IP 200.2.10.99 and PC41\_3 got the IP 200.2.10.100. PC41\_1 has an email with username PC411 and password A2024. For office 2, there are 2 PC devices, PC42\_1 got IP 200.2.10.114 and PC42\_1 got the IP 200.2.10.115. PC42\_1 has an email with username PC421 and password A2024.

- For company A, the gateway IP is 200.2.10.33
- For data center, the gateway IP is 200.2.10.1
- For company B, the gateway IP is 200.2.10.65
- For company C office 1, the gateway IP is 200.2.10.97
- For company C office 2. The gateway IP is 200.2.10.113

## Part3: Applying routing protocol

Using open shortest path protocol (OSPF) on all routers given that the process id is 10 and the areas as follows:





- **Data center (Yellow) area 1:** applying OSPF on area 1 as  
R1 => Router (config)#router ospf 10 // open shortest path protocol with id = 10  
Router (config-router)#network 200.2.10.0 0.0.0.15 area 1 // data center with R1 area 1
  - **Company 1 ‘A’ (Red) area 2:** applying OSPF on area 2 as  
R2 => Router (config)#router ospf 10 // open shortest path protocol with id = 10  
Router (config-router)#network 200.2.10.32 0.0.0.31 area 2 // company A with R2 area 2
  - **Company 2 ‘B’ (Green) area 3:** applying OSPF on area 2 as  
R3 => Router (config)#router ospf 10 // open shortest path protocol with id = 10  
Router (config-router)#network 200.2.10.64 0.0.0.31 area 3 // company B with R3 area 3
  - **Company 3 ‘C office 1 and office 2’ (Purple and Pink) area 4:** applying OSPF on area 4 as  
R4 => Router (config)#router ospf 10 // open shortest path protocol with id = 10  
Router (config-router)#network 200.2.10.96 0.0.0.15 area 4 // company C office 1 with R4 area4  
Router (config-router)#network 200.2.10.112 0.0.0.15 area 4// company C office 2 with R4 area4
  - **Core area 0:** applying OSPF on area 0 (R1, R2, R3 and R4)  
R1, R2, R3, R4 => Router (config)#router ospf 10 // open shortest path protocol with id = 10  
**In R1:**  
R1-R2 => Router (config-router)#network 200.2.10.16 0.0.0.3 area 0 // Core with R1 area 0  
R1-R4 => Router (config-router)#network 200.2.10.28 0.0.0.3 area 0 // Core with R1 area 0  
**In R2:**  
R2-R1 => Router (config-router)#network 200.2.10.16 0.0.0.3 area 0 // Core with R2 area 0  
R2-R3 => Router (config-router)#network 200.2.10.20 0.0.0.3 area 0 // Core with R2 area 0  
**In R3:**  
R3-R2 => Router (config-router)#network 200.2.10.20 0.0.0.3 area 0 // Core with R3 area 0  
R3-R4 => Router (config-router)#network 200.2.10.24 0.0.0.3 area 0 // Core with R3 area 0  
**In R4:**  
R4-R3 => Router (config-router)#network 200.2.10.24 0.0.0.3 area 0 // Core with R4 area 0  
R4-R1 => Router (config-router)#network 200.2.10.28 0.0.0.3 area 0 // Core with R4 area 0

## Part4: Testing connectivity, routes, website, and emails

### Ping and Tracert

The following figures show how **ping** and **tracert** were done successfully between all PCs.

Test connectivity between all end systems:

PC2\_1

Physical Config Desktop Programming Attributes

Command Prompt

```
C:\>tracert 200.2.10.99
Tracing route to 200.2.10.99 over a maximum of 30 hops:
  1  0 ms    0 ms    0 ms  200.2.10.33
  2  1 ms    0 ms    1 ms  200.2.10.32
  3  0 ms    11 ms   1 ms  200.2.10.26
  4  2 ms    9 ms    0 ms  200.2.10.99

Trace complete.

C:\>ping 200.2.10.99
Pinging 200.2.10.99 with 32 bytes of data:

Request timed out.
Reply from 200.2.10.99: bytes=32 time=31ms TTL=125
Reply from 200.2.10.99: bytes=32 time=2ms TTL=125
Reply from 200.2.10.99: bytes=32 time=2ms TTL=125

Ping statistics for 200.2.10.99:
  Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
  Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 31ms, Average = 11ms

C:\>ping 200.2.10.99
Pinging 200.2.10.99 with 32 bytes of data:

Reply from 200.2.10.99: bytes=32 time=26ms TTL=125
Reply from 200.2.10.99: bytes=32 time=19ms TTL=125
Reply from 200.2.10.99: bytes=32 time=2ms TTL=125
Reply from 200.2.10.99: bytes=32 time=9ms TTL=125

Ping statistics for 200.2.10.99:
  Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
  Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 26ms, Average = 12ms
```

□ Top

Windows Type here to search 42°F Party cloudy 5:56 PM 31/01/2024

PC2\_1

Physical Config Desktop Programming Attributes

Command Prompt

```
C:\>tracert 200.2.10.99
Tracing route to 200.2.10.99 over a maximum of 30 hops:
  1  0 ms    0 ms    0 ms  200.2.10.33
  2  0 ms    23 ms   1 ms  200.2.10.17
  3  11 ms   1 ms    0 ms  200.2.10.30
  4  11 ms   1 ms    1 ms  200.2.10.99

Trace complete.

C:\>ping 200.2.10.100
Pinging 200.2.10.100 with 32 bytes of data:

Request timed out.
Reply from 200.2.10.100: bytes=32 time=2ms TTL=125
Reply from 200.2.10.100: bytes=32 time=1ms TTL=125
Reply from 200.2.10.100: bytes=32 time=1ms TTL=125

Ping statistics for 200.2.10.100:
  Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
  Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 10ms, Average = 7ms

C:\>ping 200.2.10.100
Pinging 200.2.10.100 with 32 bytes of data:

Reply from 200.2.10.100: bytes=32 time=15ms TTL=125
Reply from 200.2.10.100: bytes=32 time=1ms TTL=125
Reply from 200.2.10.100: bytes=32 time=2ms TTL=125
Reply from 200.2.10.100: bytes=32 time=2ms TTL=125

Ping statistics for 200.2.10.100:
  Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
  Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 15ms, Average = 7ms

C:\>tracert 200.2.10.100
```

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PC2\_1

Physical Config Desktop Programming Attributes

Command Prompt

```

Ping statistics for 200.2.10.68:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 1ms, Average = 1ms

C:\>tracert 200.2.10.68

Tracing route to 200.2.10.68 over a maximum of 30 hops:
  1  0 ms      0 ms      0 ms      200.2.10.33
  2  29 ms     10 ms     1 ms      200.2.10.22
  3  5 ms      0 ms      0 ms      200.2.10.68

Trace complete.

C:\>ping 200.2.10.98

Pinging 200.2.10.98 with 32 bytes of data:

Request timed out.

Reply from 200.2.10.98: bytes=32 time=2ms TTL=125
Reply from 200.2.10.98: bytes=32 time=2ms TTL=125
Reply from 200.2.10.98: bytes=32 time=2ms TTL=125

Ping statistics for 200.2.10.98:
Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 2ms, Average = 2ms

C:\>ping 200.2.10.98

Pinging 200.2.10.98 with 32 bytes of data:

Reply from 200.2.10.98: bytes=32 time=3ms TTL=125
Reply from 200.2.10.98: bytes=32 time=2ms TTL=125
Reply from 200.2.10.98: bytes=32 time=4ms TTL=125
Reply from 200.2.10.98: bytes=32 time=2ms TTL=125

Ping statistics for 200.2.10.98:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

```

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PC2\_1

Physical Config Desktop Programming Attributes

Command Prompt

```

C:\>tracert 200.2.10.100

Tracing route to 200.2.10.100 over a maximum of 30 hops:
  1  0 ms      0 ms      0 ms      200.2.10.33
  2  11 ms     10 ms     1 ms      200.2.10.22
  3  0 ms      1 ms      30 ms     200.2.10.26
  4  0 ms      0 ms      0 ms      200.2.10.100

Trace complete.

C:\>ping 200.2.10.114

Pinging 200.2.10.114 with 32 bytes of data:

Request timed out.

Reply from 200.2.10.114: bytes=32 time=29ms TTL=125
Reply from 200.2.10.114: bytes=32 time=2ms TTL=125
Reply from 200.2.10.114: bytes=32 time=2ms TTL=125

Ping statistics for 200.2.10.114:
Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 29ms, Average = 11ms

C:\>ping 200.2.10.114

Pinging 200.2.10.114 with 32 bytes of data:

Reply from 200.2.10.114: bytes=32 time=29ms TTL=125
Reply from 200.2.10.114: bytes=32 time=29ms TTL=125
Reply from 200.2.10.114: bytes=32 time=2ms TTL=125
Reply from 200.2.10.114: bytes=32 time=28ms TTL=125

Ping statistics for 200.2.10.114:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 36ms, Average = 23ms

C:\>tracert 200.2.10.114
```

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PC2\_1

Physical Config Desktop Programming Attributes

Command Prompt

```

C:\>ping 200.2.10.115

Pinging 200.2.10.115 with 32 bytes of data:

Request timed out.

Reply from 200.2.10.115: bytes=32 time=2ms TTL=125
Reply from 200.2.10.115: bytes=32 time=2ms TTL=125
Reply from 200.2.10.115: bytes=32 time=2ms TTL=125

Ping statistics for 200.2.10.115:
Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 2ms, Average = 2ms

C:\>ping 200.2.10.115

Pinging 200.2.10.115 with 32 bytes of data:

Reply from 200.2.10.115: bytes=32 time=2ms TTL=125

Ping statistics for 200.2.10.115:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 2ms, Average = 2ms

C:\>tracert 200.2.10.115

Tracing route to 200.2.10.115 over a maximum of 30 hops:
  1  0 ms      0 ms      0 ms      200.2.10.33
  2  10 ms     0 ms     19 ms     200.2.10.17
  3  1 ms      1 ms      0 ms      200.2.10.26
  4  0 ms      1 ms      1 ms      200.2.10.115

Trace complete.

C:\>
```

Top

Windows Type here to search 42°F Partly cloudy 5:56 PM 31/01/2024

PC2\_2

Physical Config Desktop Programming Attributes

Command Prompt

```
Reply from 200.2.10.34: bytes=32 time<1ms TTL=128

Ping statistics for 200.2.10.34:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 18ms, Average = 4ms

C:\>tracert 200.2.10.34
Tracing route to 200.2.10.34 over a maximum of 30 hops:
  1  0 ms    0 ms    0 ms  200.2.10.34
Trace complete.

C:\>ping 200.2.10.36
Pinging 200.2.10.36 with 32 bytes of data:
Reply from 200.2.10.36: bytes=32 time<1ms TTL=128

Ping statistics for 200.2.10.36:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>tracert 200.2.10.36
Tracing route to 200.2.10.36 over a maximum of 30 hops:
  1  0 ms    0 ms    0 ms  200.2.10.36
Trace complete.

C:\>ping 200.2.10.67
Pinging 200.2.10.67 with 32 bytes of data:
```

PC2\_2

Physical Config Desktop Programming Attributes

Command Prompt

```
C:\>ping 200.2.10.67
Pinging 200.2.10.67 with 32 bytes of data:
Reply from 200.2.10.67: bytes=32 time<1ms TTL=126

Ping statistics for 200.2.10.67:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 1ms, Average = 0ms

C:\>tracert 200.2.10.67
Tracing route to 200.2.10.67 over a maximum of 30 hops:
  1  0 ms    0 ms    0 ms  200.2.10.33
  2  0 ms    0 ms    0 ms  200.2.10.22
  3  1 ms    0 ms    0 ms  200.2.10.67
Trace complete.

C:\>tracert 200.2.10.68
Tracing route to 200.2.10.68 over a maximum of 30 hops:
  1  0 ms    0 ms    0 ms  200.2.10.33
  2  11 ms   0 ms    21 ms  200.2.10.22
  3  0 ms    0 ms    1 ms   200.2.10.68
Trace complete.

C:\>ping 200.2.10.68
Pinging 200.2.10.68 with 32 bytes of data:
```

PC2\_2

Physical Config Desktop Programming Attributes

Command Prompt

```
C:\>ping 200.2.10.68
Pinging 200.2.10.68 with 32 bytes of data:
Reply from 200.2.10.68: bytes=32 time=2ms TTL=126
Reply from 200.2.10.68: bytes=32 time=2ms TTL=126
Reply from 200.2.10.68: bytes=32 time=19ms TTL=126
Reply from 200.2.10.68: bytes=32 time=19ms TTL=126

Ping statistics for 200.2.10.68:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 2ms, Maximum = 26ms, Average = 16ms

C:\>tracert 200.2.10.68
Tracing route to 200.2.10.68 over a maximum of 30 hops:
  1  0 ms    0 ms    0 ms  200.2.10.33
  2  0 ms    0 ms    1 ms   200.2.10.17
  3  19 ms   30 ms   1 ms   200.2.10.26
  4  1 ms    1 ms    1 ms   200.2.10.68
Trace complete.

C:\>ping 200.2.10.98
Pinging 200.2.10.98 with 32 bytes of data:
Reply from 200.2.10.98: bytes=32 time=3ms TTL=125
Reply from 200.2.10.98: bytes=32 time=3ms TTL=125
Reply from 200.2.10.98: bytes=32 time=3ms TTL=125
Reply from 200.2.10.98: bytes=32 time=2ms TTL=125

Ping statistics for 200.2.10.98:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 2ms, Maximum = 3ms, Average = 2ms

C:\>tracert 200.2.10.98
```

PC2\_2

Physical Config Desktop Programming Attributes

Command Prompt

```
C:\>tracert 200.2.10.99
Tracing route to 200.2.10.99 over a maximum of 30 hops:
  1  0 ms    0 ms    0 ms    200.2.10.33
  2  0 ms    0 ms    1 ms    200.2.10.22
  3  0 ms    1 ms    2 ms    200.2.10.26
  4  1 ms    0 ms    1 ms    200.2.10.99
Trace complete.

C:\>ping 200.2.10.99
Pinging 200.2.10.99 with 32 bytes of data:
Reply from 200.2.10.99: bytes=32 time=37ms TTL=128
Reply from 200.2.10.99: bytes=32 time=2ms TTL=128
Reply from 200.2.10.99: bytes=32 time=2ms TTL=128
Reply from 200.2.10.99: bytes=32 time=2ms TTL=128

Ping statistics for 200.2.10.99:
  Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
  Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 37ms, Average = 17ms

C:\>tracert 200.2.10.100
Tracing route to 200.2.10.100 over a maximum of 30 hops:
  1  0 ms    0 ms    0 ms    200.2.10.33
  2  20 ms   12 ms   0 ms    200.2.10.17
  3  0 ms    1 ms    0 ms    200.2.10.26
  4  10 ms   1 ms    22 ms   200.2.10.100
Trace complete.

C:\>ping 200.2.10.100
Pinging 200.2.10.100 with 32 bytes of data:
Reply from 200.2.10.100: bytes=32 time=39ms TTL=128
```

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Windows Type here to search 42°F Partly cloudy 6:01 PM 31/01/2024

PC2\_2

Physical Config Desktop Programming Attributes

Command Prompt

```
C:\>ping 200.2.10.100
Pinging 200.2.10.100 with 32 bytes of data:
Reply from 200.2.10.100: bytes=32 time=9ms TTL=128
Reply from 200.2.10.100: bytes=32 time=2ms TTL=128
Reply from 200.2.10.100: bytes=32 time=2ms TTL=128
Reply from 200.2.10.100: bytes=32 time=2ms TTL=128

Ping statistics for 200.2.10.100:
  Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
  Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 9ms, Average = 1ms

C:\>tracert 200.2.10.114
Tracing route to 200.2.10.114 over a maximum of 30 hops:
  1  0 ms    0 ms    0 ms    200.2.10.33
  2  0 ms    21 ms   0 ms    200.2.10.22
  3  1 ms    32 ms   20 ms   200.2.10.26
  4  1 ms    0 ms    12 ms   200.2.10.114
Trace complete.

C:\>ping 200.2.10.114
Pinging 200.2.10.114 with 32 bytes of data:
Reply from 200.2.10.114: bytes=32 time=18ms TTL=128
Reply from 200.2.10.114: bytes=32 time=9ms TTL=128
Reply from 200.2.10.114: bytes=32 time=30ms TTL=128
Reply from 200.2.10.114: bytes=32 time=3ms TTL=128

Ping statistics for 200.2.10.114:
  Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
  Approximate round trip times in milli-seconds:
    Minimum = 3ms, Maximum = 30ms, Average = 22ms

C:\>tracert 200.2.10.115
```

Top

Windows Type here to search 42°F Partly cloudy 6:01 PM 31/01/2024

PC2\_2

Physical Config Desktop Programming Attributes

Command Prompt

```
C:\>ping 200.2.10.114
Pinging 200.2.10.114 with 32 bytes of data:
Reply from 200.2.10.114: bytes=32 time=28ms TTL=128
Reply from 200.2.10.114: bytes=32 time=29ms TTL=128
Reply from 200.2.10.114: bytes=32 time=30ms TTL=128
Reply from 200.2.10.114: bytes=32 time=29ms TTL=128

Ping statistics for 200.2.10.114:
  Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
  Approximate round trip times in milli-seconds:
    Minimum = 28ms, Maximum = 30ms, Average = 22ms

C:\>tracert 200.2.10.115
Tracing route to 200.2.10.115 over a maximum of 30 hops:
  1  0 ms    0 ms    0 ms    200.2.10.33
  2  10 ms   0 ms    10 ms   200.2.10.17
  3  1 ms    17 ms   1 ms    200.2.10.26
  4  0 ms    1 ms    1 ms    200.2.10.115
Trace complete.

C:\>ping 200.2.10.115
Pinging 200.2.10.115 with 32 bytes of data:
Reply from 200.2.10.115: bytes=32 time=2ms TTL=128

Ping statistics for 200.2.10.115:
  Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
  Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 29ms, Average = 22ms
```

Top

Windows Type here to search 42°F Partly cloudy 6:01 PM 31/01/2024

PC2\_3

Physical Config Desktop Programming Attributes

Command Prompt

```
Reply from 200.2.10.34: bytes=32 time=1ms TTL=128

Ping statistics for 200.2.10.34:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>tracert 200.2.10.34

Tracing route to 200.2.10.34 over a maximum of 30 hops:
  1  0 ms      0 ms      0 ms  200.2.10.34
Trace complete.

C:\>ping 200.2.10.35

Pinging 200.2.10.35 with 32 bytes of data:
Reply from 200.2.10.35: bytes=32 time=1ms TTL=128

Ping statistics for 200.2.10.35:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>tracert 200.2.10.35

Tracing route to 200.2.10.35 over a maximum of 30 hops:
  1  0 ms      0 ms      0 ms  200.2.10.35
Trace complete.

C:\>tracert 200.2.10.67
```

PC2\_3

Physical Config Desktop Programming Attributes

Command Prompt

```
C:\>tracert 200.2.10.67

Tracing route to 200.2.10.67 over a maximum of 30 hops:
  1  0 ms      0 ms      0 ms  200.2.10.33
  2  0 ms      0 ms     10 ms  200.2.10.22
  3  0 ms      0 ms      0 ms  200.2.10.67

Trace complete.

C:\>ping 200.2.10.67

Pinging 200.2.10.67 with 32 bytes of data:
Reply from 200.2.10.67: bytes=32 time=1ms TTL=126

Ping statistics for 200.2.10.67:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 28ms, Average = 21ms

C:\>tracert 200.2.10.68

Tracing route to 200.2.10.68 over a maximum of 30 hops:
  1  0 ms      0 ms      0 ms  200.2.10.33
  2  19 ms     1 ms      1 ms  200.2.10.22
  3  0 ms      0 ms      0 ms  200.2.10.68

Trace complete.

C:\>ping 200.2.10.68

Pinging 200.2.10.68 with 32 bytes of data:
Reply from 200.2.10.68: bytes=32 time=2ms TTL=126
Reply from 200.2.10.68: bytes=32 time=20ms TTL=126
Reply from 200.2.10.68: bytes=32 time=20ms TTL=126

Ping statistics for 200.2.10.68:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 20ms, Average = 10ms
```

PC2\_3

Physical Config Desktop Programming Attributes

Command Prompt

```
Ping statistics for 200.2.10.68:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 26ms, Average = 16ms

C:\>tracert 200.2.10.99

Tracing route to 200.2.10.99 over a maximum of 30 hops:
  1  0 ms      0 ms      1 ms  200.2.10.33
  2  7 ms      0 ms      0 ms  200.2.10.22
  3  2 ms      1 ms      1 ms  200.2.10.26
  4  10 ms     0 ms      0 ms  200.2.10.99

Trace complete.

C:\>ping 200.2.10.99

Pinging 200.2.10.99 with 32 bytes of data:
Reply from 200.2.10.99: bytes=32 time=4ms TTL=126
Reply from 200.2.10.99: bytes=32 time=3ms TTL=126
Reply from 200.2.10.99: bytes=32 time=3ms TTL=126
Reply from 200.2.10.99: bytes=32 time=1ms TTL=126

Ping statistics for 200.2.10.99:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 42ms, Average = 22ms

C:\>tracert 200.2.10.99

Tracing route to 200.2.10.99 over a maximum of 30 hops:
  1  0 ms      0 ms      0 ms  200.2.10.33
  2  0 ms      1 ms      0 ms  200.2.10.17
  3  0 ms      1 ms      0 ms  200.2.10.26
  4  11 ms     1 ms     20 ms  200.2.10.99

Trace complete.
```

PC2\_3

Physical Config Desktop Programming Attributes

Command Prompt

```
C:\>ping 200.2.10.99
Pinging 200.2.10.99 with 32 bytes of data:
Reply from 200.2.10.99: bytes=32 time=1ms TTL=125
Reply from 200.2.10.99: bytes=32 time=3ms TTL=125
Reply from 200.2.10.99: bytes=32 time=2ms TTL=125
Reply from 200.2.10.99: bytes=32 time=7ms TTL=125

Ping statistics for 200.2.10.99:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 7ms, Average = 3ms

C:\>tracert 200.2.10.100
Tracing route to 200.2.10.100 over a maximum of 30 hops:
  1  0 ms      0 ms      0 ms  200.2.10.33
  2  0 ms      1 ms      1 ms  200.2.10.22
  3  1 ms      1 ms      1 ms  200.2.10.26
  4  0 ms      1 ms     10 ms  200.2.10.100

Trace complete.

C:\>ping 200.2.10.100
Pinging 200.2.10.100 with 32 bytes of data:
Reply from 200.2.10.100: bytes=32 time=1ms TTL=125
Reply from 200.2.10.100: bytes=32 time=3ms TTL=125
Reply from 200.2.10.100: bytes=32 time=2ms TTL=125
Reply from 200.2.10.100: bytes=32 time=7ms TTL=125

Ping statistics for 200.2.10.100:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 7ms, Average = 3ms

C:\>tracert 200.2.10.114
```

Top

Windows Taskbar: Type here to search, 42°F Partly cloudy, ENG, 6:05 PM, 31/01/2024

PC2\_3

Physical Config Desktop Programming Attributes

Command Prompt

```
C:\>tracert 200.2.10.114
Tracing route to 200.2.10.114 over a maximum of 30 hops:
  1  0 ms      0 ms      0 ms  200.2.10.33
  2  1 ms      0 ms      0 ms  200.2.10.22
  3  0 ms      1 ms      0 ms  200.2.10.26
  4  11 ms     11 ms     1 ms   200.2.10.114

Trace complete.

C:\>ping 200.2.10.114
Pinging 200.2.10.114 with 32 bytes of data:
Reply from 200.2.10.114: bytes=32 time=1ms TTL=125
Reply from 200.2.10.114: bytes=32 time=1ms TTL=125
Reply from 200.2.10.114: bytes=32 time=2ms TTL=125
Reply from 200.2.10.114: bytes=32 time=16ms TTL=125

Ping statistics for 200.2.10.114:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 16ms, Average = 3ms

C:\>tracert 200.2.10.115
Tracing route to 200.2.10.115 over a maximum of 30 hops:
  1  0 ms      0 ms      0 ms  200.2.10.33
  2  1 ms      0 ms      0 ms  200.2.10.17
  3  1 ms      2 ms      1 ms   200.2.10.26
  4  0 ms      10 ms     0 ms   200.2.10.115

Trace complete.

C:\>ping 200.2.10.115
Pinging 200.2.10.115 with 32 bytes of data:
```

Top

Windows Taskbar: Type here to search, 42°F Partly cloudy, ENG, 6:05 PM, 31/01/2024

PC2\_3

Physical Config Desktop Programming Attributes

Command Prompt

```
C:\>ping 200.2.10.114
Pinging 200.2.10.114 with 32 bytes of data:
Reply from 200.2.10.114: bytes=32 time=1ms TTL=125
Reply from 200.2.10.114: bytes=32 time=3ms TTL=125
Reply from 200.2.10.114: bytes=32 time=2ms TTL=125
Reply from 200.2.10.114: bytes=32 time=16ms TTL=125

Ping statistics for 200.2.10.114:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 16ms, Average = 3ms

C:\>tracert 200.2.10.116
Tracing route to 200.2.10.116 over a maximum of 30 hops:
  1  0 ms      0 ms      0 ms  200.2.10.33
  2  1 ms      0 ms      0 ms  200.2.10.17
  3  1 ms      2 ms      1 ms   200.2.10.26
  4  0 ms      10 ms     0 ms   200.2.10.116

Trace complete.

C:\>ping 200.2.10.116
Pinging 200.2.10.116 with 32 bytes of data:
Reply from 200.2.10.116: bytes=32 time=1ms TTL=125
Reply from 200.2.10.116: bytes=32 time=3ms TTL=125
Reply from 200.2.10.116: bytes=32 time=2ms TTL=125
Reply from 200.2.10.116: bytes=32 time=16ms TTL=125

Ping statistics for 200.2.10.116:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 16ms, Average = 3ms

C:\>
```

Top

Windows Taskbar: Type here to search, 42°F Partly cloudy, ENG, 6:05 PM, 31/01/2024

PC3\_1

Physical Config Desktop Programming Attributes

Command Prompt

```
Reply from 200.2.10.34: bytes=32 time=1ms TTL=126
Reply from 200.2.10.34: bytes=32 time=1ms TTL=126
Reply from 200.2.10.34: bytes=32 time=1ms TTL=126

Ping statistics for 200.2.10.34:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 26ms, Average = 16ms

C:\>tracert 200.2.10.34

Tracing route to 200.2.10.34 over a maximum of 30 hops:
  1  0 ms      0 ms      11 ms     200.2.10.65
  2  0 ms      0 ms      1 ms      200.2.10.21
  3  9 ms      0 ms      0 ms      200.2.10.34

Trace complete.

C:\>ping 200.2.10.35

Pinging 200.2.10.35 with 32 bytes of data:
Reply from 200.2.10.35: bytes=32 time=2ms TTL=126
Reply from 200.2.10.35: bytes=32 time=20ms TTL=126
Reply from 200.2.10.35: bytes=32 time=20ms TTL=126
Reply from 200.2.10.35: bytes=32 time=1ms TTL=126

Ping statistics for 200.2.10.35:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 27ms, Average = 21ms

C:\>tracert 200.2.10.35

Tracing route to 200.2.10.35 over a maximum of 30 hops:
  1  0 ms      0 ms      0 ms      200.2.10.65
  2  10 ms     0 ms      1 ms      200.2.10.21
  3  0 ms      0 ms      0 ms      200.2.10.35

Trace complete.
```

PC3\_1

Physical Config Desktop Programming Attributes

Command Prompt

```
C:\>ping 200.2.10.36

Pinging 200.2.10.36 with 32 bytes of data:
Reply from 200.2.10.36: bytes=32 time=2ms TTL=126
Reply from 200.2.10.36: bytes=32 time=1ms TTL=126
Reply from 200.2.10.36: bytes=32 time=1ms TTL=126
Reply from 200.2.10.36: bytes=32 time=1ms TTL=126

Ping statistics for 200.2.10.36:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 2ms, Maximum = 26ms, Average = 16ms

C:\>tracert 200.2.10.36

Tracing route to 200.2.10.36 over a maximum of 30 hops:
  1  0 ms      0 ms      0 ms      200.2.10.65
  2  19 ms     21 ms     0 ms      200.2.10.21
  3  0 ms      1 ms      0 ms      200.2.10.36

Trace complete.

C:\>ping 200.2.10.68

Pinging 200.2.10.68 with 32 bytes of data:
Reply from 200.2.10.68: bytes=32 time=1ms TTL=128

Ping statistics for 200.2.10.68:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>tracert 200.2.10.68

Tracing route to 200.2.10.68 over a maximum of 30 hops:
  1  0 ms      0 ms      0 ms      200.2.10.68

Trace complete.
```

PC3\_1

Physical Config Desktop Programming Attributes

Command Prompt

```
C:\>tracert 200.2.10.68

Tracing route to 200.2.10.68 over a maximum of 30 hops:
  1  0 ms      0 ms      0 ms      200.2.10.68

Trace complete.

C:\>ping 200.2.10.98

Pinging 200.2.10.98 with 32 bytes of data:
Reply from 200.2.10.98: bytes=32 time<1ms TTL=126
Reply from 200.2.10.98: bytes=32 time=1ms TTL=126
Reply from 200.2.10.98: bytes=32 time=20ms TTL=126
Reply from 200.2.10.98: bytes=32 time=15ms TTL=126

Ping statistics for 200.2.10.98:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 26ms, Average = 21ms

C:\>tracert 200.2.10.98

Tracing route to 200.2.10.98 over a maximum of 30 hops:
  1  0 ms      0 ms      0 ms      200.2.10.65
  2  11 ms     0 ms      0 ms      200.2.10.56
  3  0 ms      10 ms     10 ms     200.2.10.98

Trace complete.

C:\>ping 200.2.10.99

Pinging 200.2.10.99 with 32 bytes of data:
Reply from 200.2.10.99: bytes=32 time<1ms TTL=126
Reply from 200.2.10.99: bytes=32 time=1ms TTL=126
Reply from 200.2.10.99: bytes=32 time=1ms TTL=126
Reply from 200.2.10.99: bytes=32 time=1ms TTL=126
```

PC3\_1

Physical Config Desktop Programming Attributes

Command Prompt

```
Ping statistics for 200.2.10.99:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 27ms, Average = 7ms

C:\>tracert 200.2.10.99

Tracing route to 200.2.10.99 over a maximum of 30 hops:
  1  0 ms      0 ms      0 ms      200.2.10.65
  2  1 ms      0 ms      0 ms      200.2.10.26
  3  1 ms      0 ms      0 ms      200.2.10.99

Trace complete.

C:\>ping 200.2.10.100

Pinging 200.2.10.100 with 32 bytes of data:
Reply from 200.2.10.100: bytes=32 time=8ms TTL=126

Ping statistics for 200.2.10.100:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 8ms, Average = 3ms

C:\>tracert 200.2.10.100

Tracing route to 200.2.10.100 over a maximum of 30 hops:
  1  0 ms      1 ms      0 ms      200.2.10.65
  2  0 ms      0 ms      1 ms      200.2.10.26
  3  10 ms     0 ms      1 ms      200.2.10.100

Trace complete.

C:\>ping 200.2.10.114
```

Top

Type here to search

42°F Partly cloudy

6:08 PM 31/01/2024

PC3\_1

Physical Config Desktop Programming Attributes

Command Prompt

```
C:\>ping 200.2.10.114

Pinging 200.2.10.114 with 32 bytes of data:
Reply from 200.2.10.114: bytes=32 time=2ms TTL=126
Reply from 200.2.10.114: bytes=32 time=1ms TTL=126
Reply from 200.2.10.114: bytes=32 time=1ms TTL=126
Reply from 200.2.10.114: bytes=32 time=3ms TTL=126

Ping statistics for 200.2.10.114:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 26ms, Average = 12ms

C:\>tracert 200.2.10.114

Tracing route to 200.2.10.114 over a maximum of 30 hops:
  1  0 ms      0 ms      0 ms      200.2.10.65
  2  20 ms     0 ms      0 ms      200.2.10.26
  3  0 ms      0 ms      0 ms      200.2.10.114

Trace complete.

C:\>ping 200.2.10.115

Pinging 200.2.10.115 with 32 bytes of data:
Reply from 200.2.10.115: bytes=32 time=27ms TTL=126
Reply from 200.2.10.115: bytes=32 time=1ms TTL=126
Reply from 200.2.10.115: bytes=32 time=1ms TTL=126
Reply from 200.2.10.115: bytes=32 time=4ms TTL=126

Ping statistics for 200.2.10.115:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 27ms, Average = 8ms

C:\>tracert 200.2.10.115
```

Top

Type here to search

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PC3\_1

Physical Config Desktop Programming Attributes

Command Prompt

```
Ping statistics for 200.2.10.114:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 26ms, Average = 12ms

C:\>tracert 200.2.10.114

Tracing route to 200.2.10.114 over a maximum of 30 hops:
  1  0 ms      0 ms      0 ms      200.2.10.65
  2  20 ms     0 ms      0 ms      200.2.10.26
  3  0 ms      0 ms      0 ms      200.2.10.114

Trace complete.

C:\>ping 200.2.10.115

Pinging 200.2.10.115 with 32 bytes of data:
Reply from 200.2.10.115: bytes=32 time=27ms TTL=126
Reply from 200.2.10.115: bytes=32 time=1ms TTL=126
Reply from 200.2.10.115: bytes=32 time=1ms TTL=126
Reply from 200.2.10.115: bytes=32 time=1ms TTL=126

Ping statistics for 200.2.10.115:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 27ms, Average = 8ms

C:\>tracert 200.2.10.115

Tracing route to 200.2.10.115 over a maximum of 30 hops:
  1  0 ms      0 ms      0 ms      200.2.10.65
  2  24 ms     0 ms      0 ms      200.2.10.26
  3  1 ms      0 ms      0 ms      200.2.10.115

Trace complete.
```

Top

Type here to search

42°F Partly cloudy

6:08 PM 31/01/2024

```
PC3_2
Physical Config Desktop Programming Attributes
Command Prompt
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 200.2.10.34
Pinging 200.2.10.34 with 32 bytes of data:
Reply from 200.2.10.34: bytes=32 time=2ms TTL=126
Reply from 200.2.10.34: bytes=32 time=2ms TTL=126
Reply from 200.2.10.34: bytes=32 time=1ms TTL=126
Reply from 200.2.10.34: bytes=32 time=9ms TTL=126

Ping statistics for 200.2.10.34:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 27ms, Average = 12ms

C:\>\tracert 200.2.10.34
Tracing route to 200.2.10.34 over a maximum of 30 hops:
  1  0 ms      0 ms      0 ms  200.2.10.65
  2  0 ms      0 ms      1 ms  200.2.10.21
  3  0 ms      1 ms      0 ms  200.2.10.34

Trace complete.
C:\>ping 200.2.10.35
Pinging 200.2.10.35 with 32 bytes of data:
Reply from 200.2.10.35: bytes=32 time=28ms TTL=126
Reply from 200.2.10.35: bytes=32 time=20ms TTL=126
Reply from 200.2.10.35: bytes=32 time=1ms TTL=126
Reply from 200.2.10.35: bytes=32 time=19ms TTL=126

Ping statistics for 200.2.10.35:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 28ms, Average = 17ms

C:\>
```

```
PC3_2
Physical Config Desktop Programming Attributes
Command Prompt
C:\>\tracert 200.2.10.35
Tracing route to 200.2.10.35 over a maximum of 30 hops:
  1  0 ms      0 ms      0 ms  200.2.10.65
  2  0 ms      0 ms      0 ms  200.2.10.21
  3  0 ms      0 ms      1 ms  200.2.10.35

Trace complete.
C:\>ping 200.2.10.36
Pinging 200.2.10.36 with 32 bytes of data:
Reply from 200.2.10.36: bytes=32 time=2ms TTL=126
Reply from 200.2.10.36: bytes=32 time=1ms TTL=126
Reply from 200.2.10.36: bytes=32 time=1ms TTL=126
Reply from 200.2.10.36: bytes=32 time=3ms TTL=126

Ping statistics for 200.2.10.36:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 3ms, Average = 12ms

C:\>\tracert 200.2.10.36
Tracing route to 200.2.10.36 over a maximum of 30 hops:
  1  0 ms      0 ms      0 ms  200.2.10.65
  2  10 ms     1 ms      0 ms  200.2.10.21
  3  10 ms     0 ms      0 ms  200.2.10.36

Trace complete.
C:\>ping 200.2.10.98
Pinging 200.2.10.98 with 32 bytes of data:
Reply from 200.2.10.98: bytes=32 time=1ms TTL=126
Reply from 200.2.10.98: bytes=32 time=1ms TTL=126
Reply from 200.2.10.98: bytes=32 time=1ms TTL=126

Ping statistics for 200.2.10.98:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 1ms, Average = 12ms

C:\>
```

```
PC3_2
Physical Config Desktop Programming Attributes
Command Prompt
Reply from 200.2.10.98: bytes=32 time=1ms TTL=126
Reply from 200.2.10.98: bytes=32 time=1ms TTL=126

Ping statistics for 200.2.10.98:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 1ms, Average = 6ms

C:\>\tracert 200.2.10.98
Tracing route to 200.2.10.98 over a maximum of 30 hops:
  1  0 ms      0 ms      0 ms  200.2.10.65
  2  36 ms     0 ms      0 ms  200.2.10.26
  3  0 ms      10 ms     0 ms  200.2.10.98

Trace complete.
C:\>ping 200.2.10.99
Pinging 200.2.10.99 with 32 bytes of data:
Reply from 200.2.10.99: bytes=32 time=27ms TTL=126
Reply from 200.2.10.99: bytes=32 time=27ms TTL=126
Reply from 200.2.10.99: bytes=32 time=1ms TTL=126
Reply from 200.2.10.99: bytes=32 time=1ms TTL=126

Ping statistics for 200.2.10.99:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 27ms, Average = 8ms

C:\>\tracert 200.2.10.99
Tracing route to 200.2.10.99 over a maximum of 30 hops:
  1  0 ms      0 ms      0 ms  200.2.10.65
  2  0 ms      0 ms      0 ms  200.2.10.26
  3  1 ms      0 ms      1 ms  200.2.10.99

Trace complete.
C:\>
```

PC3\_2

Physical Config Desktop Programming Attributes

Command Prompt

```
C:\>ping 200.2.10.100
Pinging 200.2.10.100 with 32 bytes of data:
Reply from 200.2.10.100: bytes=32 time=2ms TTL=126
Reply from 200.2.10.100: bytes=32 time=3ms TTL=126
Reply from 200.2.10.100: bytes=32 time=3ms TTL=126
Reply from 200.2.10.100: bytes=32 time=3ms TTL=126
Ping statistics for 200.2.10.100:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 3ms, Average = 2.7ms
C:\>tracert 200.2.10.100
Tracing route to 200.2.10.100 over a maximum of 30 hops:
  1  0 ms      0 ms      0 ms  200.2.10.65
  2  0 ms      0 ms      0 ms  200.2.10.26
  3  0 ms      0 ms     16 ms  200.2.10.100
Trace complete.
C:\>ping 200.2.10.114
Pinging 200.2.10.114 with 32 bytes of data:
Reply from 200.2.10.114: bytes=32 time=7ms TTL=126
Reply from 200.2.10.114: bytes=32 time=9ms TTL=126
Reply from 200.2.10.114: bytes=32 time=0ms TTL=126
Reply from 200.2.10.114: bytes=32 time=1ms TTL=126
Ping statistics for 200.2.10.114:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 10ms, Average = 4ms
C:\>tracert 200.2.10.114
```

Top

Windows Type here to search 42°F Partly cloudy 6:13 PM 31/01/2024

PC3\_2

Physical Config Desktop Programming Attributes

Command Prompt

```
Ping statistics for 200.2.10.114:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 20ms, Average = 14ms
C:\>tracert 200.2.10.114
Tracing route to 200.2.10.114 over a maximum of 30 hops:
  1  0 ms      0 ms      0 ms  200.2.10.65
  2  1 ms      0 ms      1 ms  200.2.10.26
  3  10 ms     10 ms     0 ms  200.2.10.114
Trace complete.
C:\>ping 200.2.10.115
Pinging 200.2.10.115 with 32 bytes of data:
Reply from 200.2.10.115: bytes=32 time=26ms TTL=126
Reply from 200.2.10.115: bytes=32 time=30ms TTL=126
Reply from 200.2.10.115: bytes=32 time=19ms TTL=126
Ping statistics for 200.2.10.115:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 30ms, Average = 19ms
C:\>tracert 200.2.10.115
Tracing route to 200.2.10.115 over a maximum of 30 hops:
  1  0 ms      0 ms      0 ms  200.2.10.65
  2  0 ms      0 ms     10 ms  200.2.10.26
  3  1 ms      0 ms     0 ms  200.2.10.115
Trace complete.
C:\>
```

Top

Windows Type here to search 42°F Partly cloudy 6:13 PM 31/01/2024

PC41\_1

Physical Config Desktop Programming Attributes

Command Prompt

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 200.2.10.34
Pinging 200.2.10.34 with 32 bytes of data:
Reply from 200.2.10.34: bytes=32 time=3ms TTL=125
Reply from 200.2.10.34: bytes=32 time=3ms TTL=125
Reply from 200.2.10.34: bytes=32 time=3ms TTL=125
Reply from 200.2.10.34: bytes=32 time=32ms TTL=125
Ping statistics for 200.2.10.34:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 39ms, Average = 26ms
C:\>tracert 200.2.10.34
Tracing route to 200.2.10.34 over a maximum of 30 hops:
  1  0 ms      0 ms      0 ms  200.2.10.97
  2  1 ms      0 ms      0 ms  200.2.10.25
  3  1 ms      1 ms      1 ms  200.2.10.18
  4  0 ms     11 ms      1 ms  200.2.10.34
Trace complete.
C:\>ping 200.2.10.35
Pinging 200.2.10.35 with 32 bytes of data:
Reply from 200.2.10.35: bytes=32 time=3ms TTL=125
Reply from 200.2.10.35: bytes=32 time=2ms TTL=125
Reply from 200.2.10.35: bytes=32 time=3ms TTL=125
Reply from 200.2.10.35: bytes=32 time=2ms TTL=125
Ping statistics for 200.2.10.35:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 31ms, Average = 9ms
C:\>
```

Top

Windows Type here to search 42°F Partly cloudy 6:14 PM 31/01/2024

```
PC41_1
Physical Config Desktop Programming Attributes
Command Prompt
C:\>tracert 200.2.10.36
Tracing route to 200.2.10.36 over a maximum of 30 hops:
  1  0 ms    0 ms    0 ms    200.2.10.97
  2  0 ms    0 ms    0 ms    200.2.10.25
  3  0 ms    1 ms    0 ms    200.2.10.10
  4  0 ms    20 ms   0 ms    200.2.10.36
Trace complete.
C:\>ping 200.2.10.36
Pinging 200.2.10.36 with 32 bytes of data:
Reply from 200.2.10.36 bytes=32 time=2ms TTL=125
Reply from 200.2.10.36 bytes=32 time=2ms TTL=125
Reply from 200.2.10.36 bytes=32 time=3ms TTL=125
Reply from 200.2.10.36 bytes=32 time=3ms TTL=125

Ping statistics for 200.2.10.36:
  Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
  Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 30ms, Average = 16ms
C:\>tracert 200.2.10.36
Tracing route to 200.2.10.36 over a maximum of 30 hops:
  1  0 ms    0 ms    0 ms    200.2.10.97
  2  21 ms   0 ms    20 ms   200.2.10.25
  3  1 ms    21 ms   2 ms    200.2.10.10
  4  0 ms    0 ms    20 ms   200.2.10.36
Trace complete.
C:\>ping 200.2.10.67
Pinging 200.2.10.67 with 32 bytes of data:
```

```
PC41_1
Physical Config Desktop Programming Attributes
Command Prompt
Trace complete.
C:\>ping 200.2.10.67
Pinging 200.2.10.67 with 32 bytes of data:
Reply from 200.2.10.67 bytes=32 time=2ms TTL=126
Reply from 200.2.10.67 bytes=32 time=10ms TTL=126
Reply from 200.2.10.67 bytes=32 time=1ms TTL=126
Reply from 200.2.10.67 bytes=32 time=40ms TTL=126

Ping statistics for 200.2.10.67:
  Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
  Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 40ms, Average = 23ms
C:\>tracert 200.2.10.67
Tracing route to 200.2.10.67 over a maximum of 30 hops:
  1  0 ms    0 ms    0 ms    200.2.10.97
  2  0 ms    0 ms    1 ms    200.2.10.25
  3  0 ms    1 ms    10 ms   200.2.10.67
Trace complete.
C:\>ping 200.2.10.68
Pinging 200.2.10.68 with 32 bytes of data:
Reply from 200.2.10.68 bytes=32 time=1ms TTL=126
Reply from 200.2.10.68 bytes=32 time=30ms TTL=126
Reply from 200.2.10.68 bytes=32 time=1ms TTL=126
Reply from 200.2.10.68 bytes=32 time=1ms TTL=126

Ping statistics for 200.2.10.68:
  Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
  Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 30ms, Average = 13ms

```

```
PC41_1
Physical Config Desktop Programming Attributes
Command Prompt
C:\>tracert 200.2.10.68
Tracing route to 200.2.10.68 over a maximum of 30 hops:
  1  0 ms    0 ms    0 ms    200.2.10.97
  2  1 ms    1 ms    0 ms    200.2.10.25
  3  10 ms   0 ms    1 ms    200.2.10.68
Trace complete.
C:\>ping 200.2.10.98
Pinging 200.2.10.98 with 32 bytes of data:
Reply from 200.2.10.98 bytes=32 time=1ms TTL=128
Reply from 200.2.10.98 bytes=32 time=1ms TTL=128
Reply from 200.2.10.98 bytes=32 time=9ms TTL=128
Reply from 200.2.10.98 bytes=32 time=9ms TTL=128

Ping statistics for 200.2.10.98:
  Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
  Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 9ms, Average = 6ms
C:\>tracert 200.2.10.98
Tracing route to 200.2.10.98 over a maximum of 30 hops:
  1  9 ms    1 ms    1 ms    200.2.10.98
Trace complete.
C:\>ping 200.2.10.99
Pinging 200.2.10.99 with 32 bytes of data:
Reply from 200.2.10.99 bytes=32 time=1ms TTL=128
```

PC41\_1

Physical Config Desktop Programming Attributes

Command Prompt

```
Ping statistics for 200.2.10.59:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>tracert 200.2.10.100
Tracing route to 200.2.10.100 over a maximum of 30 hops:
  1  0 ms    0 ms    0 ms    200.2.10.100
Trace complete.

C:\>ping 200.2.10.114
Pinging 200.2.10.114 with 32 bytes of data:
Reply from 200.2.10.114: bytes=32 time<1ms TTL=127
Reply from 200.2.10.114: bytes=32 time=20ms TTL=127
Reply from 200.2.10.114: bytes=32 time<1ms TTL=127
Reply from 200.2.10.114: bytes=32 time<1ms TTL=127

Ping statistics for 200.2.10.114:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 20ms, Average = 5ms

C:\>tracert 200.2.10.114
Tracing route to 200.2.10.114 over a maximum of 30 hops:
  1  0 ms    0 ms    0 ms    200.2.10.97
  2  0 ms    1 ms    0 ms    200.2.10.114
Trace complete.

C:\>ping 200.2.10.115
Pinging 200.2.10.115 with 32 bytes of data:
Reply from 200.2.10.115: bytes=32 time<1ms TTL=127

Ping statistics for 200.2.10.115:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

Type here to search

Windows Taskbar: 42°F Partly cloudy, ENG, 6:16 PM, 31/01/2024

PC41\_1

Physical Config Desktop Programming Attributes

Command Prompt

```
Reply from 200.2.10.114: bytes=32 time<1ms TTL=127
Reply from 200.2.10.114: bytes=32 time<1ms TTL=127

Ping statistics for 200.2.10.114:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 20ms, Average = 5ms

C:\>tracert 200.2.10.114
Tracing route to 200.2.10.114 over a maximum of 30 hops:
  1  0 ms    0 ms    0 ms    200.2.10.97
  2  0 ms    1 ms    0 ms    200.2.10.114
Trace complete.

C:\>ping 200.2.10.115
Pinging 200.2.10.115 with 32 bytes of data:
Reply from 200.2.10.115: bytes=32 time<1ms TTL=127

Ping statistics for 200.2.10.115:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>tracert 200.2.10.115
Tracing route to 200.2.10.115 over a maximum of 30 hops:
  1  0 ms    0 ms    0 ms    200.2.10.97
  2  0 ms    0 ms    0 ms    200.2.10.115
Trace complete.

C:\>
```

Type here to search

Windows Taskbar: 42°F Partly cloudy, ENG, 6:16 PM, 31/01/2024

PC41\_2

Physical Config Desktop Programming Attributes

Command Prompt

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 200.2.10.34
Pinging 200.2.10.34 with 32 bytes of data:
Reply from 200.2.10.34: bytes=32 time=20ms TTL=125

Ping statistics for 200.2.10.34:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 20ms, Maximum = 20ms, Average = 20ms

C:\>ping 200.2.10.35
Pinging 200.2.10.35 with 32 bytes of data:
Reply from 200.2.10.35: bytes=32 time=20ms TTL=125

Ping statistics for 200.2.10.35:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 20ms, Maximum = 20ms, Average = 20ms

C:\>ping 200.2.10.36
Pinging 200.2.10.36 with 32 bytes of data:
Reply from 200.2.10.36: bytes=32 time=20ms TTL=125

Ping statistics for 200.2.10.36:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss)
```

Type here to search

Windows Taskbar: 42°F Partly cloudy, ENG, 6:20 PM, 31/01/2024

PC41\_2

Physical Config Desktop Programming Attributes

Command Prompt

```
C:\>ping 200.2.10.67
Pinging 200.2.10.67 with 32 bytes of data:
Reply from 200.2.10.67: bytes=32 time=1ms TTL=126

Ping statistics for 200.2.10.67:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 1ms, Average = 1ms

C:\>ping 200.2.10.68
Pinging 200.2.10.68 with 32 bytes of data:
Reply from 200.2.10.68: bytes=32 time=1ms TTL=126

Ping statistics for 200.2.10.68:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 1ms, Average = 1ms

C:\>ping 200.2.10.114
Pinging 200.2.10.114 with 32 bytes of data:
Reply from 200.2.10.114: bytes=32 time=1ms TTL=127

Ping statistics for 200.2.10.114:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

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PC41\_2

Physical Config Desktop Programming Attributes

Command Prompt

```
C:\>ping 200.2.10.115
Pinging 200.2.10.115 with 32 bytes of data:
Reply from 200.2.10.115: bytes=32 time=1ms TTL=127

Ping statistics for 200.2.10.115:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>tracert 200.2.10.34
Tracing route to 200.2.10.34 over a maximum of 30 hops:
  1  0 ms    0 ms    0 ms  200.2.10.97
  2  1 ms    1 ms    0 ms  200.2.10.29
  3  0 ms    1 ms    2 ms  200.2.10.18
  4  2 ms    1 ms    2 ms  200.2.10.34

Trace complete.

C:\>tracert 200.2.10.35
Tracing route to 200.2.10.35 over a maximum of 30 hops:
  1  0 ms    0 ms    0 ms  200.2.10.97
  2  0 ms    0 ms    1 ms  200.2.10.25
  3  12 ms   0 ms    1 ms  200.2.10.18
  4  0 ms    20 ms   20 ms  200.2.10.35

Trace complete.

C:\>tracert 200.2.10.36
Tracing route to 200.2.10.36 over a maximum of 30 hops:
  1  0 ms    0 ms    0 ms  200.2.10.97
  2  0 ms    0 ms    0 ms  200.2.10.25
  3  10 ms   20 ms   20 ms  200.2.10.36

Trace complete.
```

Type here to search 42°F Partly cloudy 6:20 PM 31/01/2024

PC41\_2

Physical Config Desktop Programming Attributes

Command Prompt

```
C:\>tracert 200.2.10.36
Tracing route to 200.2.10.36 over a maximum of 30 hops:
  1  0 ms    0 ms    0 ms  200.2.10.97
  2  1 ms    0 ms    1 ms  200.2.10.29
  3  2 ms    1 ms    1 ms  200.2.10.18
  4  1 ms    0 ms    0 ms  200.2.10.36

Trace complete.

C:\>tracert 200.2.10.67
Tracing route to 200.2.10.67 over a maximum of 30 hops:
  1  0 ms    0 ms    0 ms  200.2.10.97
  2  21 ms   0 ms    31 ms  200.2.10.25
  3  10 ms   0 ms    10 ms  200.2.10.67

Trace complete.

C:\>tracert 200.2.10.68
Tracing route to 200.2.10.68 over a maximum of 30 hops:
  1  0 ms    0 ms    0 ms  200.2.10.97
  2  0 ms    23 ms   1 ms  200.2.10.25
  3  1 ms    0 ms    0 ms  200.2.10.68

Trace complete.

C:\>tracert 200.2.10.114
Tracing route to 200.2.10.114 over a maximum of 30 hops:
  1  0 ms    0 ms    0 ms  200.2.10.97
  2  0 ms    0 ms    0 ms  200.2.10.114

Trace complete.
```

Type here to search 42°F Partly cloudy 6:20 PM 31/01/2024

```
PC41_2
Physical Config Desktop Programming Attributes

Command Prompt
Trace complete.

C:\>tracert 200.2.10.67
Tracing route to 200.2.10.67 over a maximum of 30 hops:
1 0 ms      0 ms      0 ms      200.2.10.97
2 21 ms     0 ms      21 ms     200.2.10.25
3 10 ms     0 ms      10 ms     200.2.10.67

Trace complete.

C:\>tracert 200.2.10.68
Tracing route to 200.2.10.68 over a maximum of 30 hops:
1 0 ms      0 ms      0 ms      200.2.10.97
2 0 ms      22 ms     1 ms      200.2.10.25
3 1 ms      0 ms      0 ms      200.2.10.68

Trace complete.

C:\>tracert 200.2.10.114
Tracing route to 200.2.10.114 over a maximum of 30 hops:
1 0 ms      0 ms      0 ms      200.2.10.97
2 0 ms      0 ms      0 ms      200.2.10.114

Trace complete.

C:\>tracert 200.2.10.115
Tracing route to 200.2.10.115 over a maximum of 30 hops:
1 0 ms      0 ms      0 ms      200.2.10.97
2 0 ms      0 ms      0 ms      200.2.10.115

Trace complete.

C:\>
```

PC41\_3

Physical Config Desktop Programming Attributes

Command Prompt

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 200.2.10.34

Pinging 200.2.10.34 with 32 bytes of data:
Reply from 200.2.10.34: bytes=32 time=5ms TTL=125
Reply from 200.2.10.34: bytes=32 time=2ms TTL=125
Reply from 200.2.10.34: bytes=32 time=43ms TTL=125
Reply from 200.2.10.34: bytes=32 time=2ms TTL=125

Ping statistics for 200.2.10.34:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 61ms, Average = 24ms

C:\>ping 200.2.10.35

Pinging 200.2.10.35 with 32 bytes of data:
Reply from 200.2.10.35: bytes=32 time=60ms TTL=125
Reply from 200.2.10.35: bytes=32 time=31ms TTL=125
Reply from 200.2.10.35: bytes=32 time=38ms TTL=125
Reply from 200.2.10.35: bytes=32 time=25ms TTL=125

Ping statistics for 200.2.10.35:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 25ms, Maximum = 60ms, Average = 38ms

C:\>ping 200.2.10.36

Pinging 200.2.10.36 with 32 bytes of data:
Reply from 200.2.10.36: bytes=32 time=2ms TTL=125
Reply from 200.2.10.36: bytes=32 time=2ms TTL=125
Reply from 200.2.10.36: bytes=32 time=31ms TTL=125
Reply from 200.2.10.36: bytes=32 time=33ms TTL=125

Ping statistics for 200.2.10.36:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss)
```

PC41\_3

Physical Config Desktop Programming Attributes

Command Prompt

```
C:\>ping 200.2.10.67

Pinging 200.2.10.67 with 32 bytes of data:

Reply from 200.2.10.67: bytes=32 time=40ms TTL=126
Reply from 200.2.10.67: bytes=32 time=20ms TTL=126
Reply from 200.2.10.67: bytes=32 time=1ms TTL=126
Reply from 200.2.10.67: bytes=32 time=20ms TTL=126

Ping statistics for 200.2.10.67:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 40ms, Average = 20ms

C:\>ping 200.2.10.68

Pinging 200.2.10.68 with 32 bytes of data:

Reply from 200.2.10.68: bytes=32 time=34ms TTL=126
Reply from 200.2.10.68: bytes=32 time=1ms TTL=126
Reply from 200.2.10.68: bytes=32 time=1ms TTL=126
Reply from 200.2.10.68: bytes=32 time=20ms TTL=126

Ping statistics for 200.2.10.68:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 34ms, Average = 14ms

C:\>ping 200.2.10.114

Pinging 200.2.10.114 with 32 bytes of data:

Reply from 200.2.10.114: bytes=32 time<1ms TTL=127

Ping statistics for 200.2.10.114:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

PC41\_3

Physical Config Desktop Programming Attributes

Command Prompt

```
C:\>ping 200.2.10.115
Pinging 200.2.10.115 with 32 bytes of data:
Reply from 200.2.10.115: bytes=32 time<ms TTL=127

Ping statistics for 200.2.10.115:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milliseconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>tracert 200.2.10.34
Tracing route to 200.2.10.34 over a maximum of 30 hops:
  1  0 ms      9 ms      0 ms      200.2.10.97
  2  1 ms      0 ms      0 ms      200.2.10.25
  3  1 ms      1 ms      1 ms      200.2.10.18
  4  2 ms      11 ms     12 ms     200.2.10.34

Trace complete.

C:\>tracert 200.2.10.35
Tracing route to 200.2.10.35 over a maximum of 30 hops:
  1  0 ms      0 ms      0 ms      200.2.10.97
  2  1 ms      0 ms      20 ms     200.2.10.29
  3  0 ms      2 ms      2 ms      200.2.10.18
  4  13 ms     1 ms      20 ms     200.2.10.35

Trace complete.

C:\>tracert 200.2.10.36
Tracing route to 200.2.10.36 over a maximum of 30 hops:
  1  0 ms      0 ms      0 ms      200.2.10.97
  2  0 ms      0 ms      10 ms     200.2.10.25
  3  3 ms      1 ms      0 ms      200.2.10.18
  4  1 ms      0 ms      0 ms      200.2.10.36

Trace complete.
```

PC41\_3

Physical Config Desktop Programming Attributes

Command Prompt

```
C:\>tracert 200.2.10.36
Tracing route to 200.2.10.36 over a maximum of 30 hops:
  1  0 ms      0 ms      0 ms      200.2.10.97
  2  0 ms      0 ms      10 ms     200.2.10.25
  3  3 ms      1 ms      0 ms      200.2.10.18
  4  1 ms      0 ms      0 ms      200.2.10.36

Trace complete.

C:\>tracert 200.2.10.67
Tracing route to 200.2.10.67 over a maximum of 30 hops:
  1  0 ms      0 ms      0 ms      200.2.10.97
  2  0 ms      0 ms      0 ms      200.2.10.25
  3  10 ms     0 ms      0 ms      200.2.10.67

Trace complete.

C:\>tracert 200.2.10.68
Tracing route to 200.2.10.68 over a maximum of 30 hops:
  1  0 ms      0 ms      0 ms      200.2.10.97
  2  1 ms      0 ms      0 ms      200.2.10.25
  3  12 ms     0 ms      0 ms      200.2.10.68

Trace complete.

C:\>tracert 200.2.10.114
Tracing route to 200.2.10.114 over a maximum of 30 hops:
  1  0 ms      0 ms      0 ms      200.2.10.97
  2  0 ms      0 ms      0 ms      200.2.10.114

Trace complete.

C:\>tracert 200.2.10.115
```

PC41\_3

Physical Config Desktop Programming Attributes

Command Prompt

```
Trace complete.

C:\>tracert 200.2.10.67
Tracing route to 200.2.10.67 over a maximum of 30 hops:
  1  0 ms      0 ms      0 ms      200.2.10.97
  2  0 ms      0 ms      0 ms      200.2.10.25
  3  10 ms     0 ms      0 ms      200.2.10.67

Trace complete.

C:\>tracert 200.2.10.68
Tracing route to 200.2.10.68 over a maximum of 30 hops:
  1  0 ms      0 ms      0 ms      200.2.10.97
  2  1 ms      0 ms      0 ms      200.2.10.25
  3  12 ms     0 ms      0 ms      200.2.10.68

Trace complete.

C:\>tracert 200.2.10.114
Tracing route to 200.2.10.114 over a maximum of 30 hops:
  1  0 ms      0 ms      0 ms      200.2.10.97
  2  0 ms      0 ms      0 ms      200.2.10.114

Trace complete.

C:\>tracert 200.2.10.115
Tracing route to 200.2.10.115 over a maximum of 30 hops:
  1  0 ms      0 ms      0 ms      200.2.10.97
  2  0 ms      0 ms      0 ms      200.2.10.115

Trace complete.

C:\>
```

PC42\_1

Physical Config Desktop Programming Attributes

Command Prompt

```
C:\>ping 200.2.10.34

Cisco Packet Tracer PC Command Line 1.0
C:\>ping 200.2.10.34

Pinging 200.2.10.34 with 32 bytes of data:
Reply from 200.2.10.34: bytes=32 time=40ms TTL=126
Reply from 200.2.10.34: bytes=32 time=34ms TTL=126
Reply from 200.2.10.34: bytes=32 time=27ms TTL=126
Reply from 200.2.10.34: bytes=32 time=1ms TTL=126

Ping statistics for 200.2.10.34:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 40ms, Average = 24ms

C:\>ping 200.2.10.35

Pinging 200.2.10.35 with 32 bytes of data:
Reply from 200.2.10.35: bytes=32 time=2ms TTL=126

Ping statistics for 200.2.10.35:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 2ms, Maximum = 32ms, Average = 16ms

C:\>ping 200.2.10.36

Pinging 200.2.10.36 with 32 bytes of data:
Reply from 200.2.10.36: bytes=32 time=3ms TTL=126
Reply from 200.2.10.36: bytes=32 time=3ms TTL=126
Reply from 200.2.10.36: bytes=32 time=2ms TTL=126
Reply from 200.2.10.36: bytes=32 time=2ms TTL=126

Ping statistics for 200.2.10.36:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 2ms, Maximum = 32ms, Average = 16ms

C:\>ping 200.2.10.38

Pinging 200.2.10.38 with 32 bytes of data:
Reply from 200.2.10.38: bytes=32 time=3ms TTL=126
Reply from 200.2.10.38: bytes=32 time=3ms TTL=126
Reply from 200.2.10.38: bytes=32 time=2ms TTL=126
Reply from 200.2.10.38: bytes=32 time=2ms TTL=126

Ping statistics for 200.2.10.38:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 2ms, Maximum = 32ms, Average = 16ms

C:\>
```

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PC42\_1

Physical Config Desktop Programming Attributes

Command Prompt

```
C:\>ping 200.2.10.67

Pinging 200.2.10.67 with 32 bytes of data:
Reply from 200.2.10.67: bytes=32 time=1ms TTL=126
Reply from 200.2.10.67: bytes=32 time=2ms TTL=126
Reply from 200.2.10.67: bytes=32 time=1ms TTL=126
Reply from 200.2.10.67: bytes=32 time=1ms TTL=126

Ping statistics for 200.2.10.67:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 2ms, Average = 9ms

C:\>ping 200.2.10.68

Pinging 200.2.10.68 with 32 bytes of data:
Reply from 200.2.10.68: bytes=32 time=1ms TTL=126
Reply from 200.2.10.68: bytes=32 time=2ms TTL=126
Reply from 200.2.10.68: bytes=32 time=1ms TTL=126
Reply from 200.2.10.68: bytes=32 time=2ms TTL=126

Ping statistics for 200.2.10.68:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 2ms, Average = 9ms

C:\>ping 200.2.10.98

Pinging 200.2.10.98 with 32 bytes of data:
Reply from 200.2.10.98: bytes=32 time=1ms TTL=127

Ping statistics for 200.2.10.98:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 1ms, Average = 1ms

C:\>
```

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PC42\_1

Physical Config Desktop Programming Attributes

Command Prompt

```
C:\>ping 200.2.10.99

Pinging 200.2.10.99 with 32 bytes of data:
Reply from 200.2.10.99: bytes=32 time=1ms TTL=127

Ping statistics for 200.2.10.99:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 1ms, Average = 1ms

C:\>ping 200.2.10.100

Pinging 200.2.10.100 with 32 bytes of data:
Reply from 200.2.10.100: bytes=32 time=1ms TTL=127

Ping statistics for 200.2.10.100:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 1ms, Average = 1ms

C:\>ping 200.2.10.114

Pinging 200.2.10.114 with 32 bytes of data:
Reply from 200.2.10.114: bytes=32 time=5ms TTL=128
Reply from 200.2.10.114: bytes=32 time=1ms TTL=128
Reply from 200.2.10.114: bytes=32 time=1ms TTL=128
Reply from 200.2.10.114: bytes=32 time=1ms TTL=128

Ping statistics for 200.2.10.114:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
```

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PC42\_1

Physical Config Desktop Programming Attributes

Command Prompt

```
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 10ms, Average = 5ms

C:\>tracert 200.2.10.34

Tracing route to 200.2.10.34 over a maximum of 30 hops:
  1  0 ms    0 ms    0 ms    200.2.10.113
  2  0 ms    0 ms    2 ms    200.2.10.29
  3  1 ms    11 ms   2 ms    200.2.10.21
  4  0 ms    2 ms    1 ms    200.2.10.34

Trace complete.

C:\>tracert 200.2.10.35

Tracing route to 200.2.10.35 over a maximum of 30 hops:
  1  0 ms    0 ms    0 ms    200.2.10.113
  2  0 ms    0 ms    1 ms    200.2.10.29
  3  0 ms    0 ms    1 ms    200.2.10.21
  4  1 ms    1 ms    0 ms    200.2.10.35

Trace complete.

C:\>tracert 200.2.10.36

Tracing route to 200.2.10.36 over a maximum of 30 hops:
  1  0 ms    0 ms    0 ms    200.2.10.113
  2  0 ms    23 ms   0 ms    200.2.10.29
  3  1 ms    2 ms    1 ms    200.2.10.21
  4  20 ms   0 ms    0 ms    200.2.10.36

Trace complete.

C:\>tracert 200.2.10.67

Tracing route to 200.2.10.67 over a maximum of 30 hops:
  1  0 ms    0 ms    0 ms    200.2.10.113
```

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PC42\_1

Physical Config Desktop Programming Attributes

Command Prompt

```
C:\>tracert 200.2.10.67

Tracing route to 200.2.10.67 over a maximum of 30 hops:
  1  0 ms    0 ms    0 ms    200.2.10.113
  2  11 ms   0 ms    21 ms   200.2.10.25
  3  0 ms    10 ms   0 ms    200.2.10.67

Trace complete.

C:\>tracert 200.2.10.68

Tracing route to 200.2.10.68 over a maximum of 30 hops:
  1  0 ms    0 ms    0 ms    200.2.10.113
  2  0 ms    0 ms    0 ms    200.2.10.25
  3  0 ms    13 ms   0 ms    200.2.10.68

Trace complete.

C:\>tracert 200.2.10.98

Tracing route to 200.2.10.98 over a maximum of 30 hops:
  1  0 ms    0 ms    0 ms    200.2.10.113
  2  0 ms    0 ms    0 ms    200.2.10.98

Trace complete.

C:\>tracert 200.2.10.99

Tracing route to 200.2.10.99 over a maximum of 30 hops:
  1  0 ms    0 ms    0 ms    200.2.10.113
  2  0 ms    0 ms    1 ms    200.2.10.99

Trace complete.

C:\>tracert 200.2.10.100

Tracing route to 200.2.10.100 over a maximum of 30 hops:
```

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PC42\_1

Physical Config Desktop Programming Attributes

Command Prompt

```
Trace complete.

C:\>tracert 200.2.10.68

Tracing route to 200.2.10.68 over a maximum of 30 hops:
  1  0 ms    0 ms    0 ms    200.2.10.113
  2  0 ms    0 ms    0 ms    200.2.10.25
  3  0 ms    12 ms   0 ms    200.2.10.68

Trace complete.

C:\>tracert 200.2.10.98

Tracing route to 200.2.10.98 over a maximum of 30 hops:
  1  0 ms    0 ms    0 ms    200.2.10.113
  2  0 ms    0 ms    0 ms    200.2.10.98

Trace complete.

C:\>tracert 200.2.10.99

Tracing route to 200.2.10.99 over a maximum of 30 hops:
  1  0 ms    0 ms    0 ms    200.2.10.113
  2  0 ms    0 ms    1 ms    200.2.10.99

Trace complete.

C:\>tracert 200.2.10.100

Tracing route to 200.2.10.100 over a maximum of 30 hops:
  1  0 ms    0 ms    0 ms    200.2.10.113
  2  0 ms    0 ms    0 ms    200.2.10.100

Trace complete.

C:\>
```

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PC42\_2

Physical Config Desktop Programming Attributes

Command Prompt

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 200.2.10.34

Pinging 200.2.10.34 with 32 bytes of data:
Reply from 200.2.10.34: bytes=32 time=2ms TTL=128
Reply from 200.2.10.34: bytes=32 time=2ms TTL=128
Reply from 200.2.10.34: bytes=32 time=3ms TTL=128
Reply from 200.2.10.34: bytes=32 time=2ms TTL=128

Ping statistics for 200.2.10.34:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 2ms, Maximum = 4ms, Average = 3ms

C:\>ping 200.2.10.35

Pinging 200.2.10.35 with 32 bytes of data:
Reply from 200.2.10.35: bytes=32 time=3ms TTL=128
Reply from 200.2.10.35: bytes=32 time=3ms TTL=128
Reply from 200.2.10.35: bytes=32 time=2ms TTL=128
Reply from 200.2.10.35: bytes=32 time=2ms TTL=128

Ping statistics for 200.2.10.35:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 2ms, Maximum = 3ms, Average = 19ms

C:\>ping 200.2.10.36

Pinging 200.2.10.36 with 32 bytes of data:
Reply from 200.2.10.36: bytes=32 time=42ms TTL=128
Reply from 200.2.10.36: bytes=32 time=3ms TTL=128
Reply from 200.2.10.36: bytes=32 time=3ms TTL=128
Reply from 200.2.10.36: bytes=32 time=2ms TTL=128

Ping statistics for 200.2.10.36:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 2ms, Maximum = 37ms, Average = 19ms

C:\>
```

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PC42\_2

Physical Config Desktop Programming Attributes

Command Prompt

```
Minimum = 2ms, Maximum = 42ms, Average = 26ms
C:\>ping 200.2.10.67

Pinging 200.2.10.67 with 32 bytes of data:
Reply from 200.2.10.67: bytes=32 time=3ms TTL=128
Reply from 200.2.10.67: bytes=32 time=1ms TTL=128
Reply from 200.2.10.67: bytes=32 time=2ms TTL=128
Reply from 200.2.10.67: bytes=32 time=2ms TTL=128

Ping statistics for 200.2.10.67:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 31ms, Average = 10ms

C:\>ping 200.2.10.68

Pinging 200.2.10.68 with 32 bytes of data:
Reply from 200.2.10.68: bytes=32 time=2ms TTL=128
Reply from 200.2.10.68: bytes=32 time=1ms TTL=128
Reply from 200.2.10.68: bytes=32 time=2ms TTL=128
Reply from 200.2.10.68: bytes=32 time=2ms TTL=128

Ping statistics for 200.2.10.68:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 29ms, Average = 11ms

C:\>ping 200.2.10.98

Pinging 200.2.10.98 with 32 bytes of data:
Reply from 200.2.10.98: bytes=32 time=1ms TTL=127

Ping statistics for 200.2.10.98:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
```

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PC42\_2

Physical Config Desktop Programming Attributes

Command Prompt

```
Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>ping 200.2.10.99

Pinging 200.2.10.99 with 32 bytes of data:
Reply from 200.2.10.99: bytes=32 time=1ms TTL=127

Ping statistics for 200.2.10.99:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 2ms

C:\>ping 200.2.10.100

Pinging 200.2.10.100 with 32 bytes of data:
Reply from 200.2.10.100: bytes=32 time=1ms TTL=127

Ping statistics for 200.2.10.100:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>traceroute 200.2.10.34

Tracing route to 200.2.10.34 over a maximum of 30 hops:
  1  0 ms      0 ms      0 ms  200.2.10.113
  2  23 ms     0 ms      0 ms  200.2.10.25
  3  1 ms      54 ms     35 ms  200.2.10.34
  4  0 ms      0 ms      1 ms  200.2.10.34

Trace complete.
```

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PC42\_2

Physical Config Desktop Programming Attributes

Command Prompt

```
C:\>tracert 200.2.10.35
Tracing route to 200.2.10.35 over a maximum of 30 hops:
  1  0 ms    0 ms    0 ms    200.2.10.113
  2  0 ms    0 ms    1 ms    200.2.10.29
  3  2 ms    1 ms    1 ms    200.2.10.21
  4  10 ms   1 ms   22 ms    200.2.10.35

Trace complete.

C:\>tracert 200.2.10.36
Tracing route to 200.2.10.36 over a maximum of 30 hops:
  1  0 ms    0 ms   10 ms    200.2.10.113
  2  0 ms    0 ms    0 ms    200.2.10.25
  3  1 ms   35 ms   31 ms    200.2.10.21
  4  0 ms    1 ms   21 ms    200.2.10.36

Trace complete.

C:\>tracert 200.2.10.67
Tracing route to 200.2.10.67 over a maximum of 30 hops:
  1  0 ms    0 ms    0 ms    200.2.10.113
  2  0 ms   22 ms    0 ms    200.2.10.25
  3  0 ms    2 ms    0 ms    200.2.10.67

Trace complete.

C:\>tracert 200.2.10.68
Tracing route to 200.2.10.68 over a maximum of 30 hops:
  1  0 ms    0 ms    0 ms    200.2.10.113
  2  22 ms   0 ms   27 ms    200.2.10.25
  3  1 ms    0 ms    0 ms    200.2.10.68

Trace complete.
```

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PC42\_2

Physical Config Desktop Programming Attributes

Command Prompt

```
Trace complete.

C:\>tracert 200.2.10.68
Tracing route to 200.2.10.68 over a maximum of 30 hops:
  1  0 ms    0 ms    0 ms    200.2.10.113
  2  22 ms   0 ms   27 ms    200.2.10.25
  3  1 ms    0 ms    0 ms    200.2.10.68

Trace complete.

C:\>tracert 200.2.10.98
Tracing route to 200.2.10.98 over a maximum of 30 hops:
  1  0 ms    0 ms    0 ms    200.2.10.113
  2  0 ms    0 ms    0 ms    200.2.10.98

Trace complete.

C:\>tracert 200.2.10.99
Tracing route to 200.2.10.99 over a maximum of 30 hops:
  1  0 ms    0 ms    0 ms    200.2.10.113
  2  0 ms    0 ms    0 ms    200.2.10.99

Trace complete.

C:\>tracert 200.2.10.100
Tracing route to 200.2.10.100 over a maximum of 30 hops:
  1  0 ms    1 ms    0 ms    200.2.10.113
  2  0 ms    0 ms    0 ms    200.2.10.100

Trace complete.

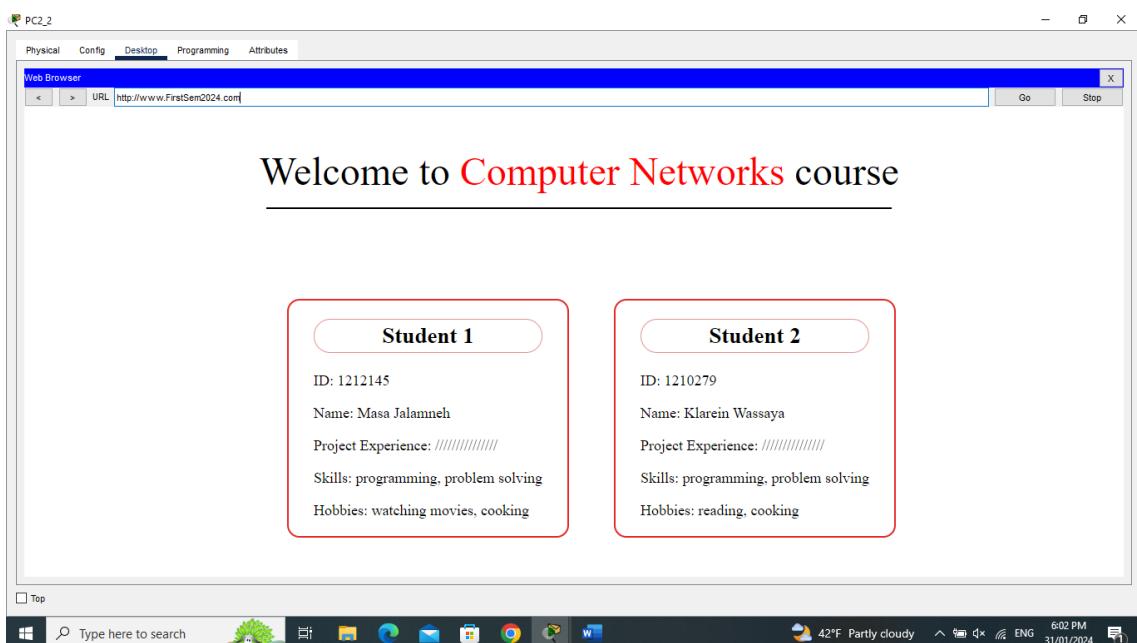
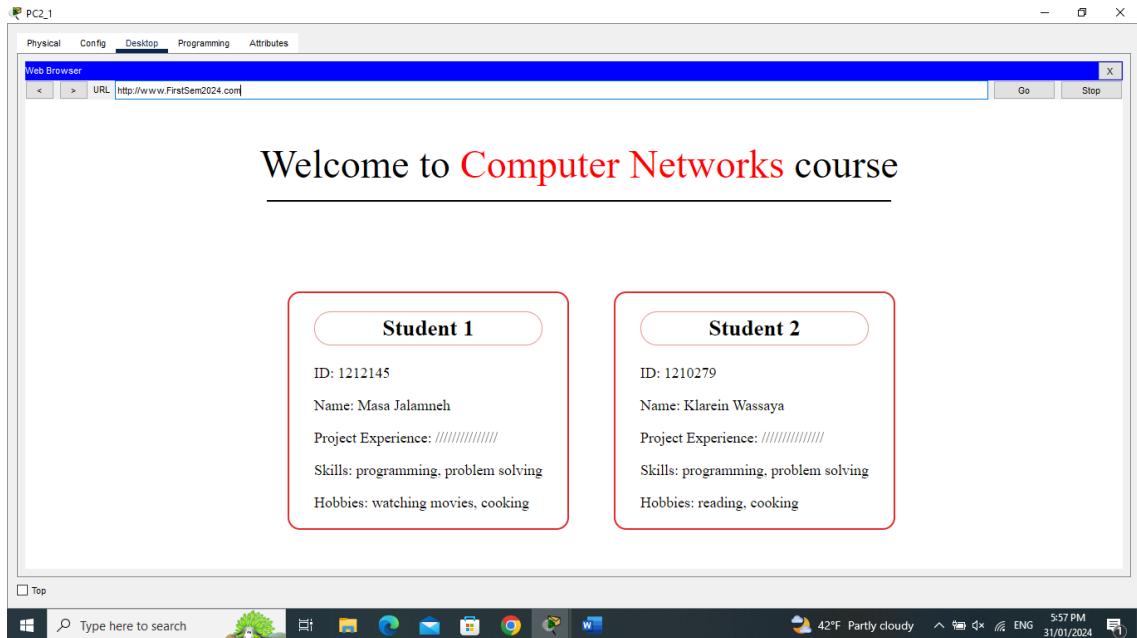
C:\>
```

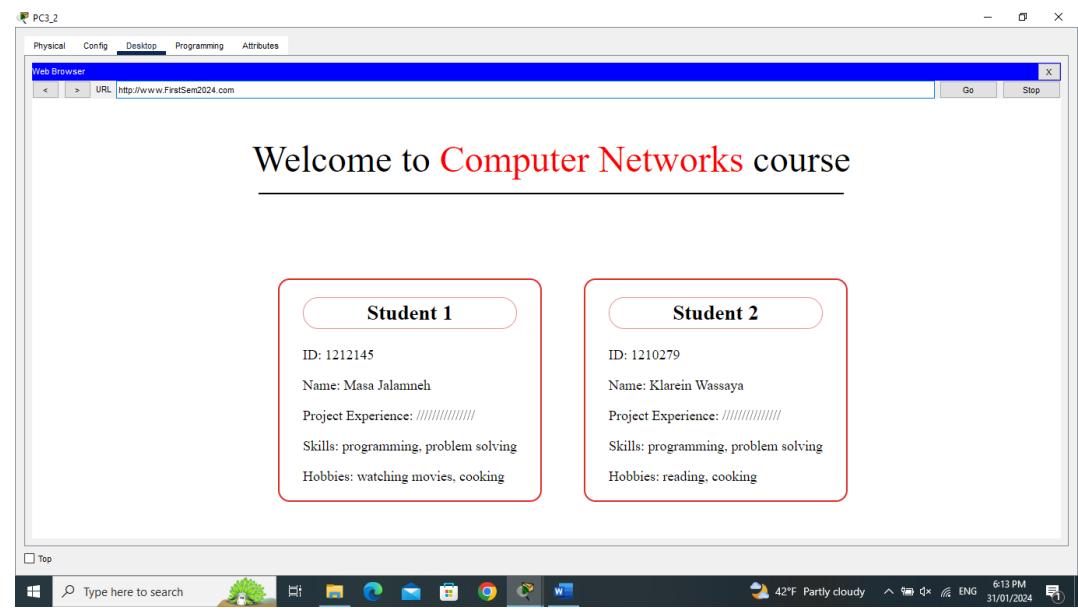
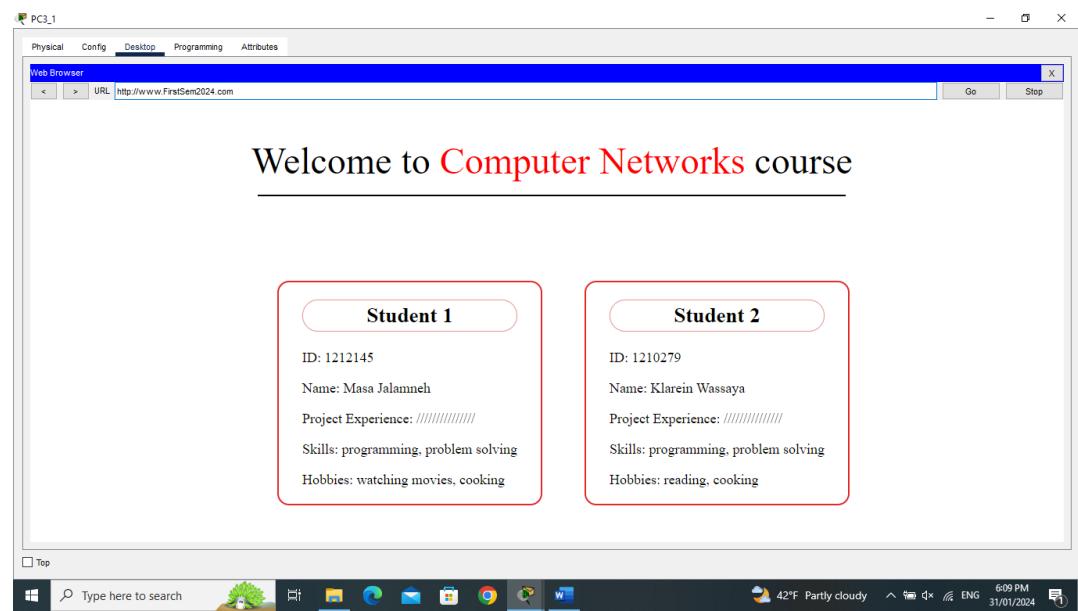
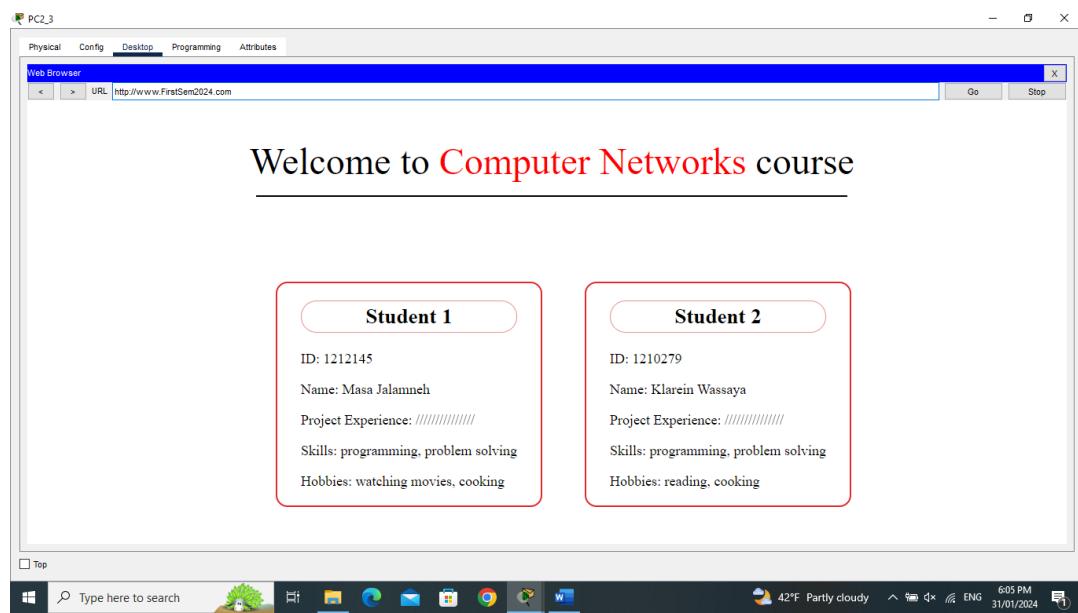
□ Top Type here to search 44°F Partly cloudy 6:28 PM 31/01/2024

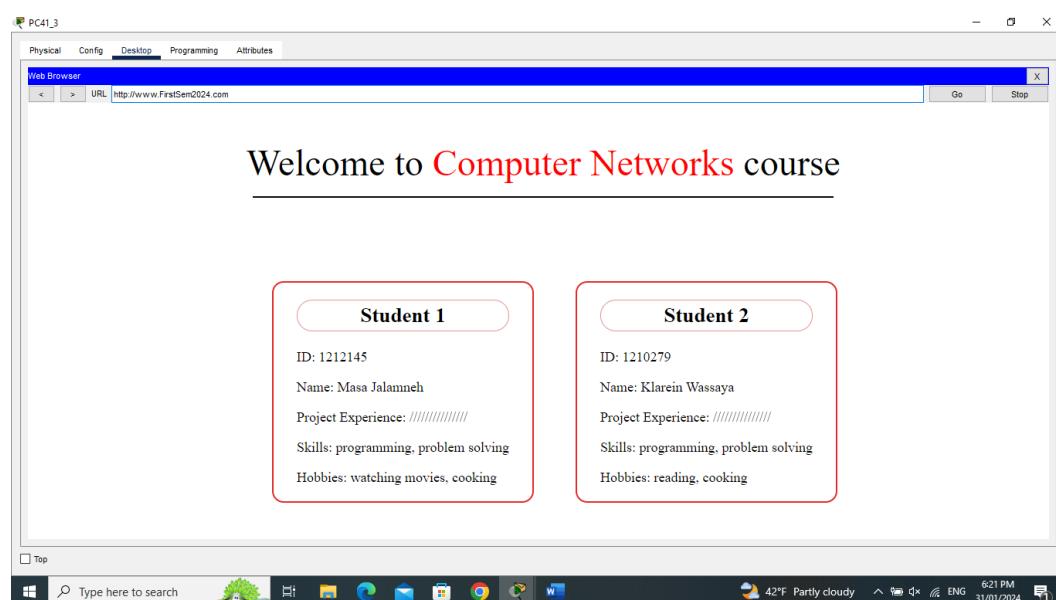
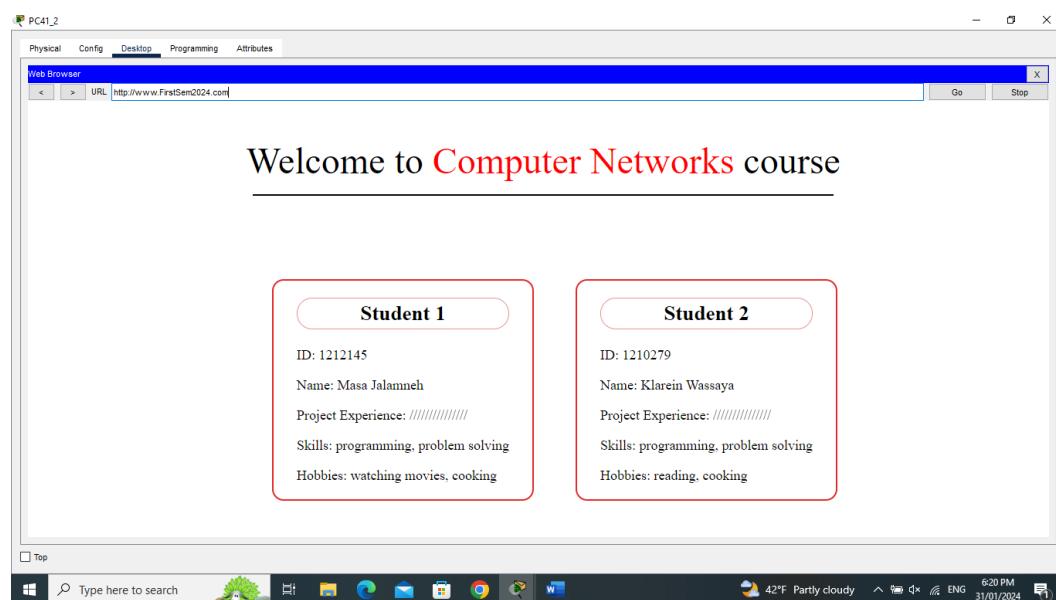
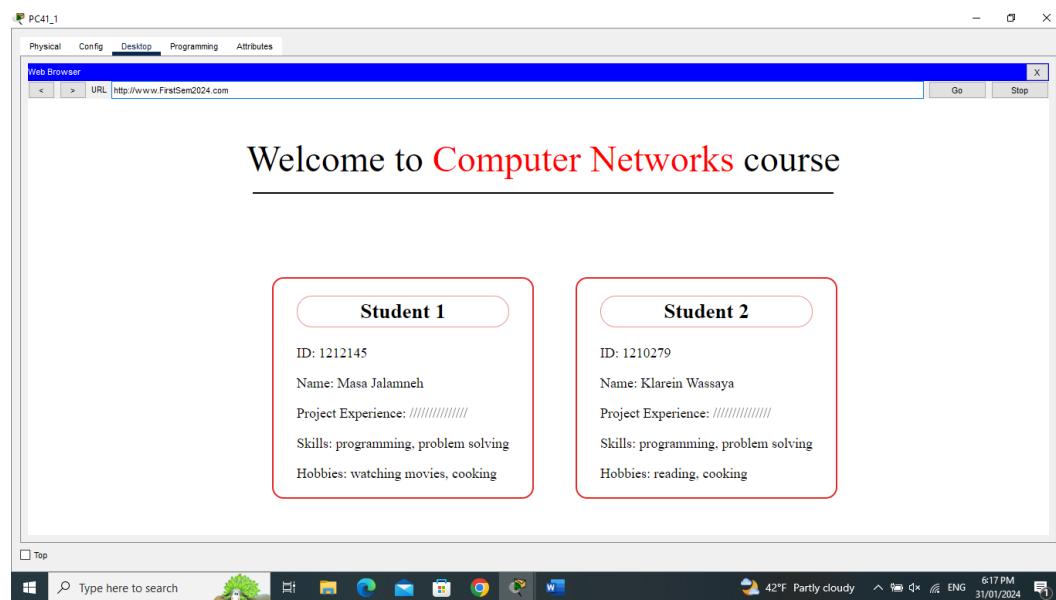
## HTTP request

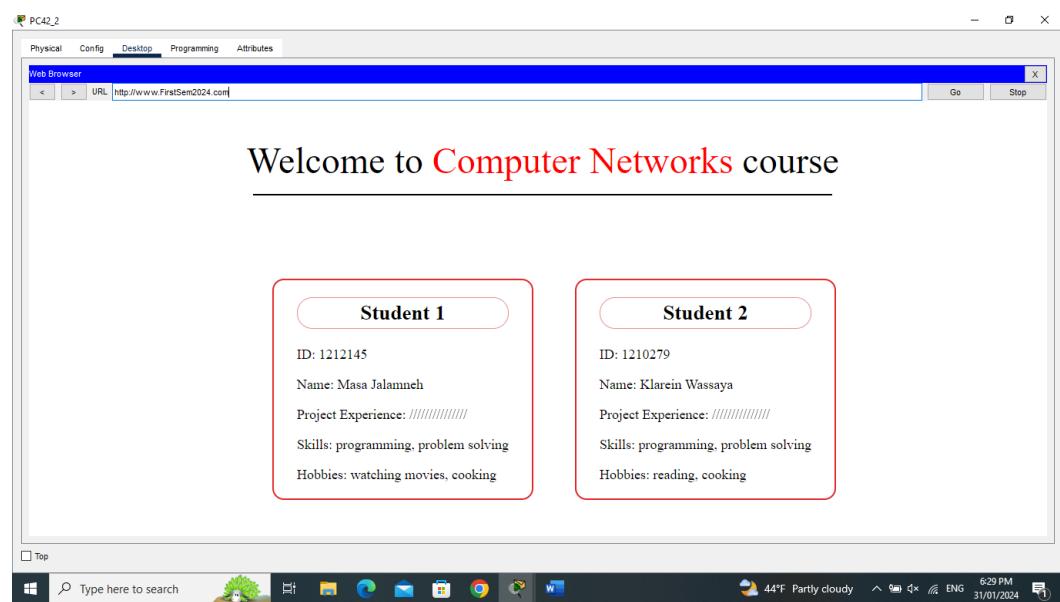
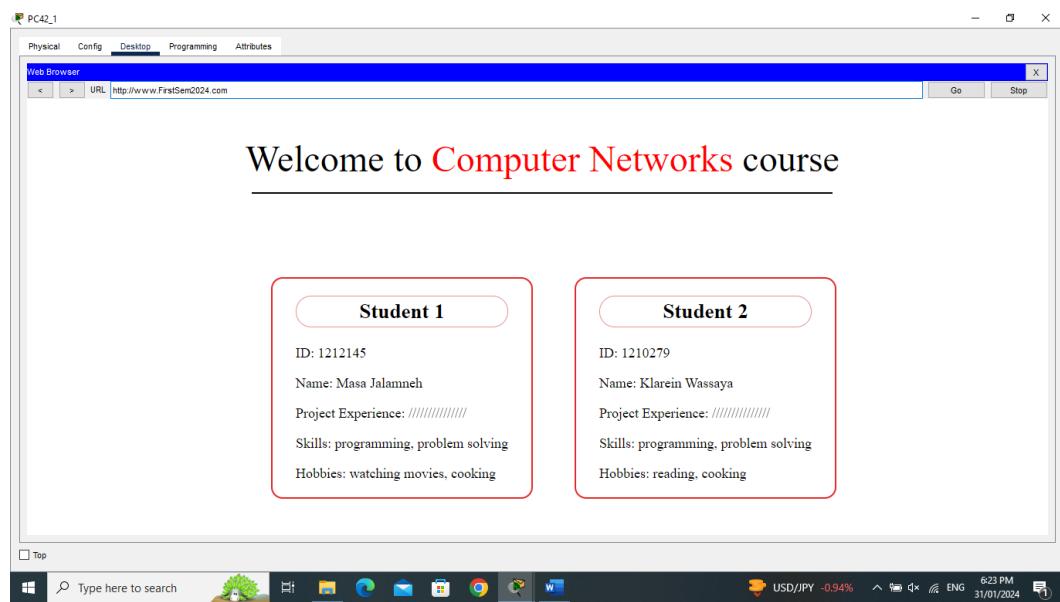
The website [www.FirstSem2024.com](http://www.FirstSem2024.com) can be opened from all PCs successfully.

We opened it from all PC's as follows:



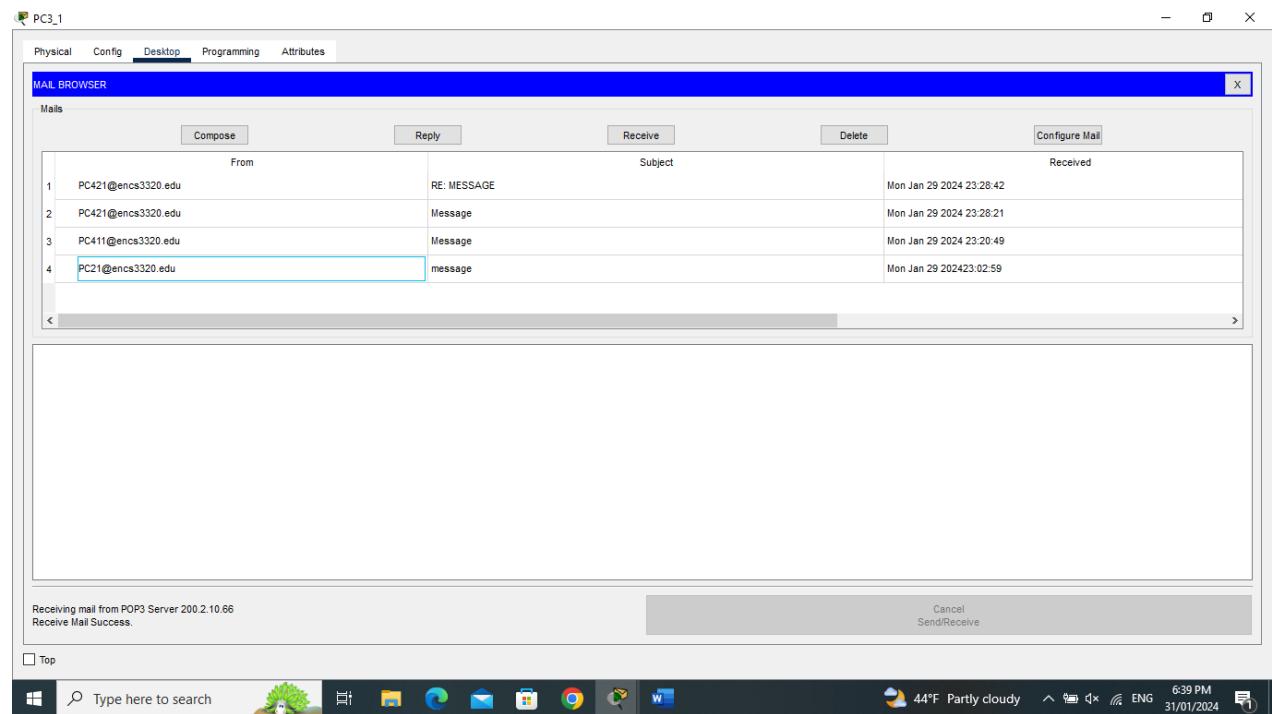
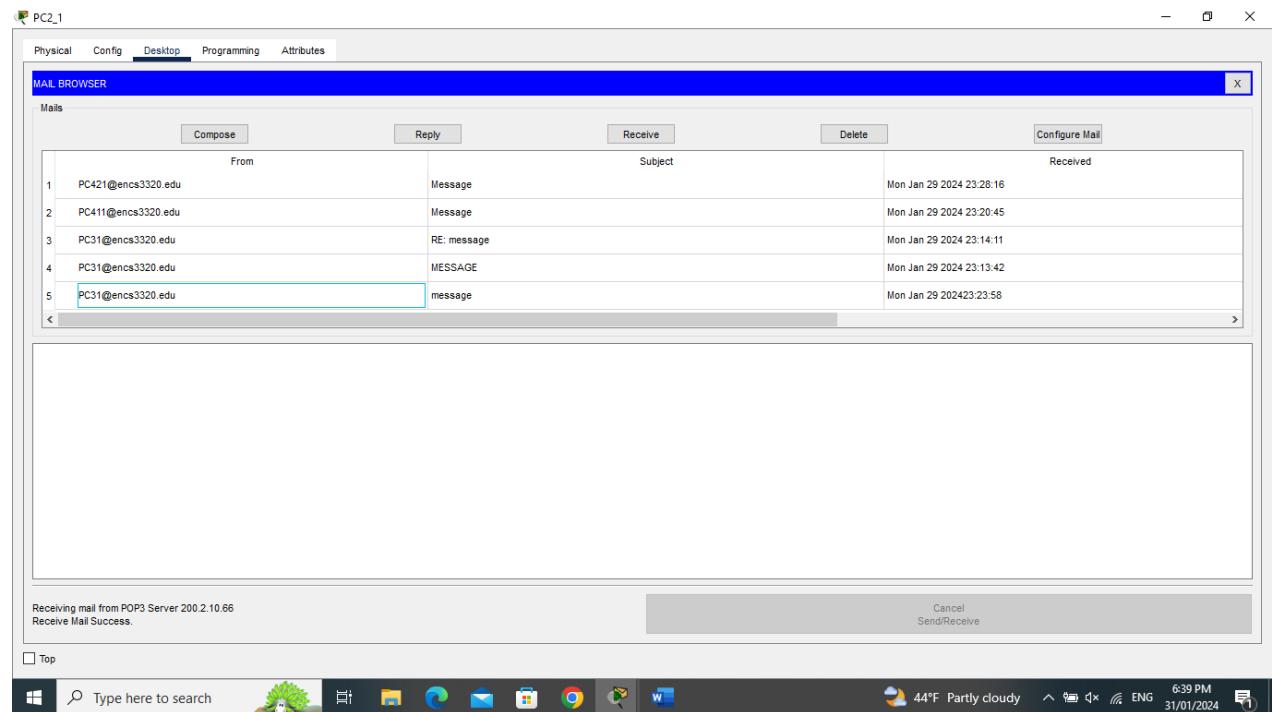






## Email

PC2\_1, PC3\_1, PC41\_1 and PC 42\_1 can send receive emails successfully on the Email server 200.2.10.66



PC42\_1

Physical Config Desktop Programming Attributes

MAIL BROWSER

Mails

	From	Subject	Received
1	PC411@encls3320.edu	Message	Mon Jan 29 2024 23:20:53
2	PC31@encls3320.edu	MESSAGE	Mon Jan 29 2024 23:13:52
3	PC21@encls3320.edu	message	Mon Jan 29 2024 23:02:46
4	PC21@encls3320.edu	message	Mon Jan 29 2024 23:24:27

Receiving mail from POP3 Server 200.2.10.66  
Receive Mail Success.

Compose Reply Receive Delete Configure Mail

Cancel Send/Receive

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PC41\_1

Physical Config Desktop Programming Attributes

MAIL BROWSER

Mails

	From	Subject	Received
1	PC421@encls3320.edu	Message	Mon Jan 29 2024 23:28:25
2	PC31@encls3320.edu	MESSAGE	Mon Jan 29 2024 23:13:47
3	PC21@encls3320.edu	message	Mon Jan 29 2024 23:02:38
4	PC421@encls3320.edu	message	Mon Jan 29 2024 23:25:16

Receiving mail from POP3 Server 200.2.10.66  
Receive Mail Success.

Compose Reply Receive Delete Configure Mail

Cancel Send/Receive

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