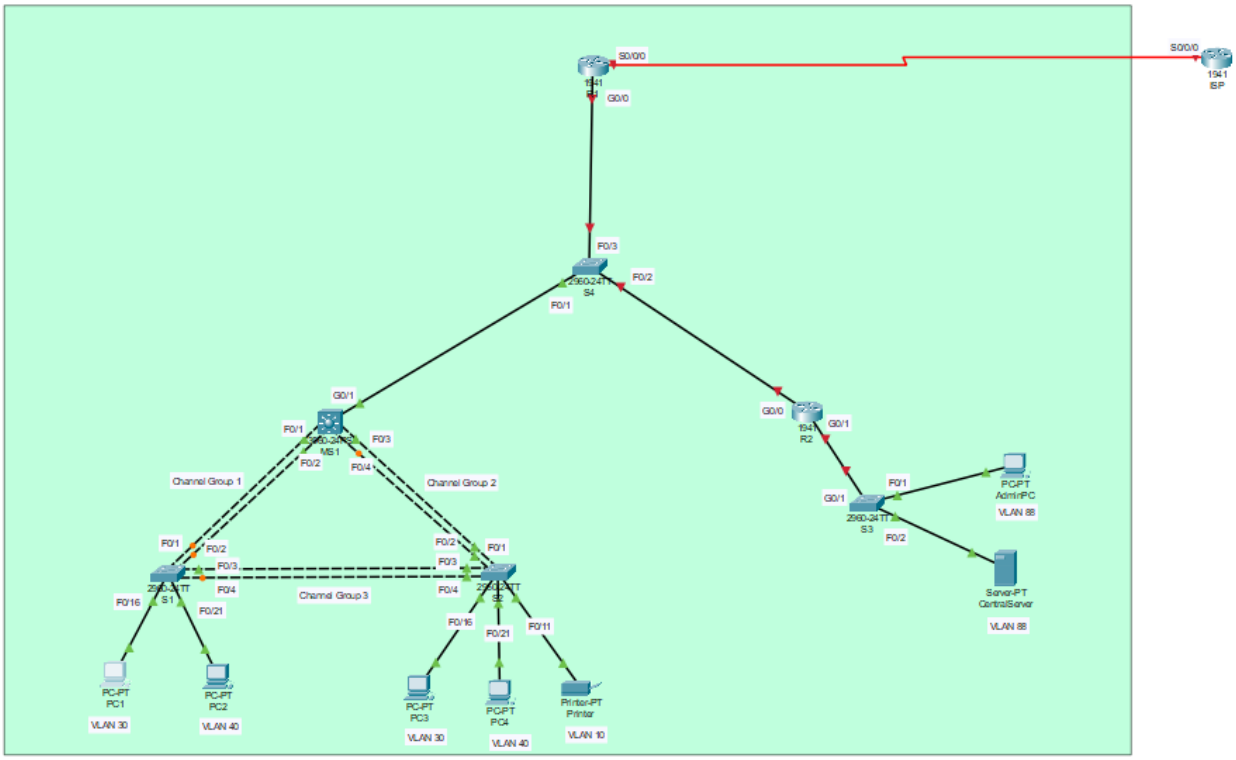
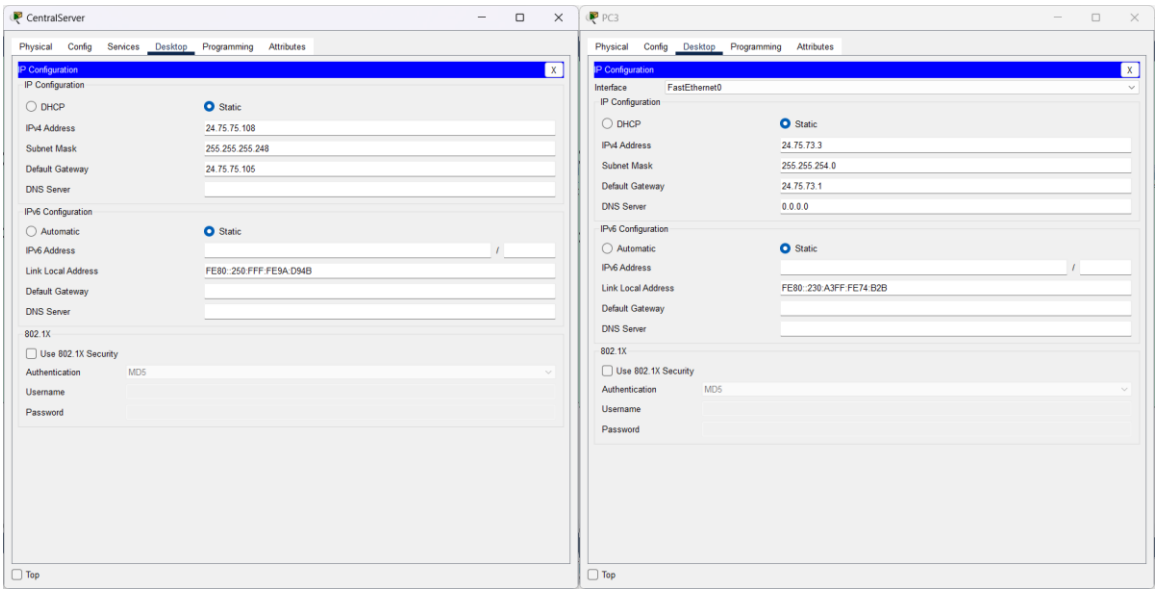
Ahmed

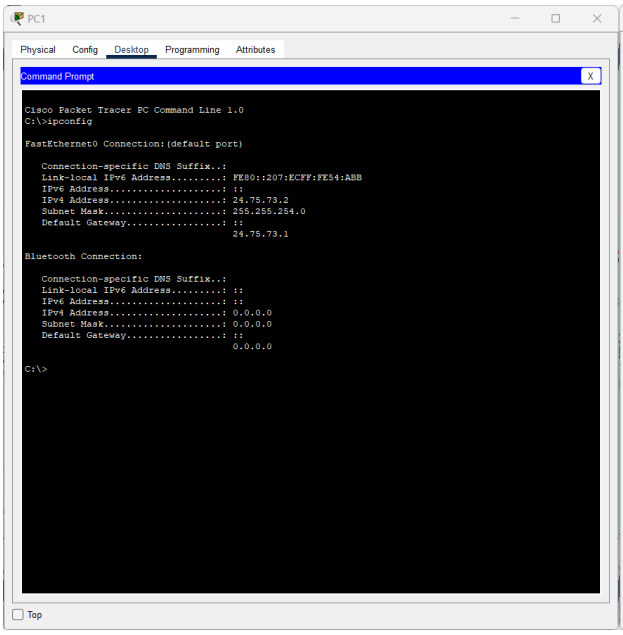
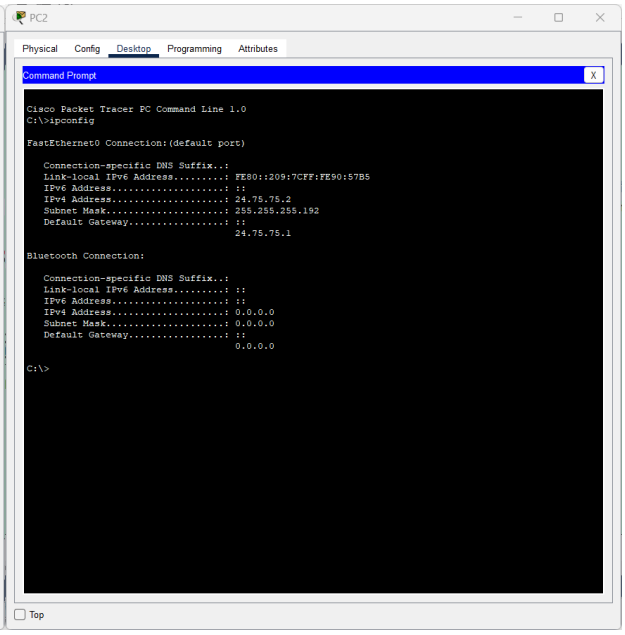
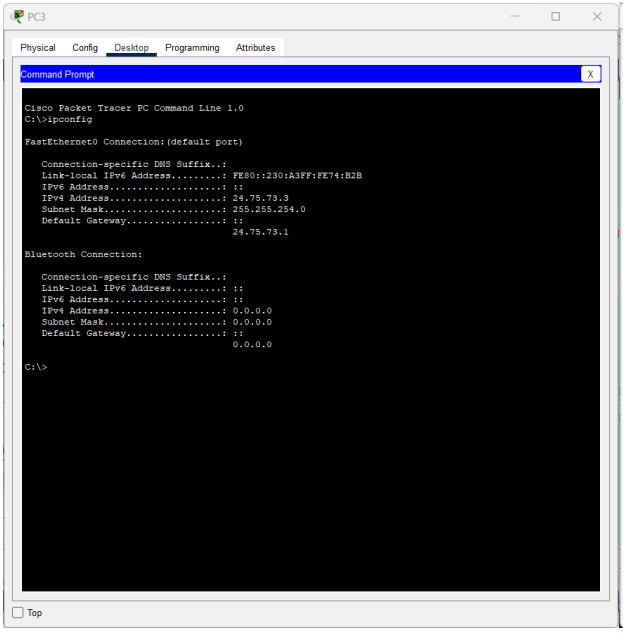
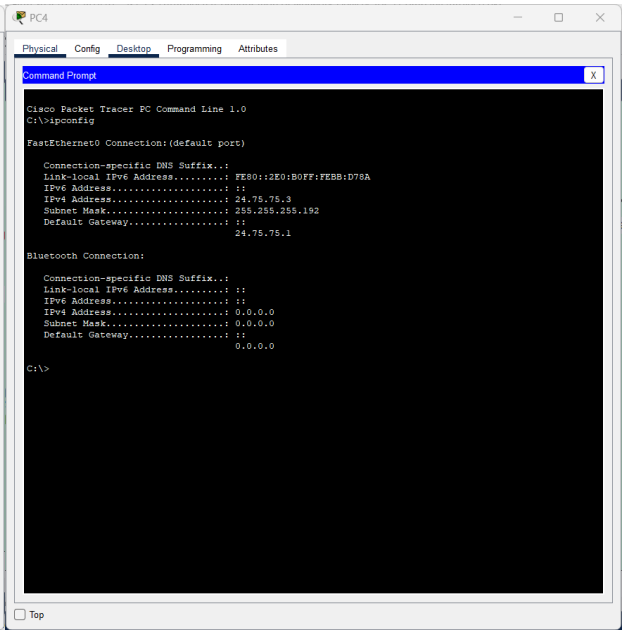
Project 470

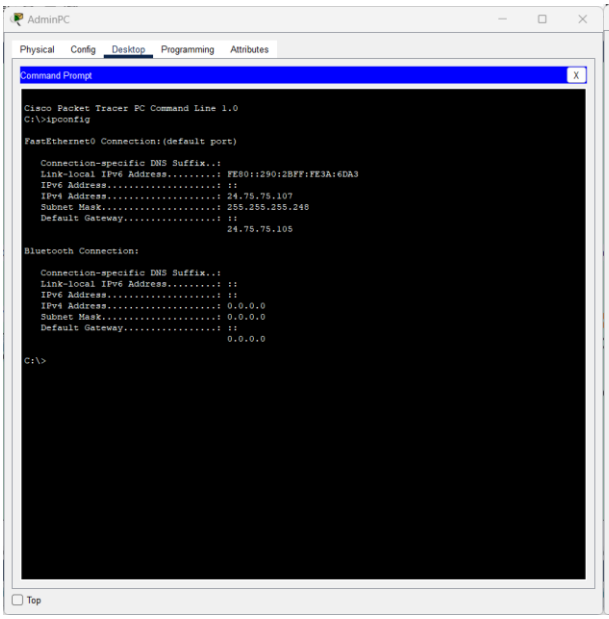
Task 2: Cable the network.

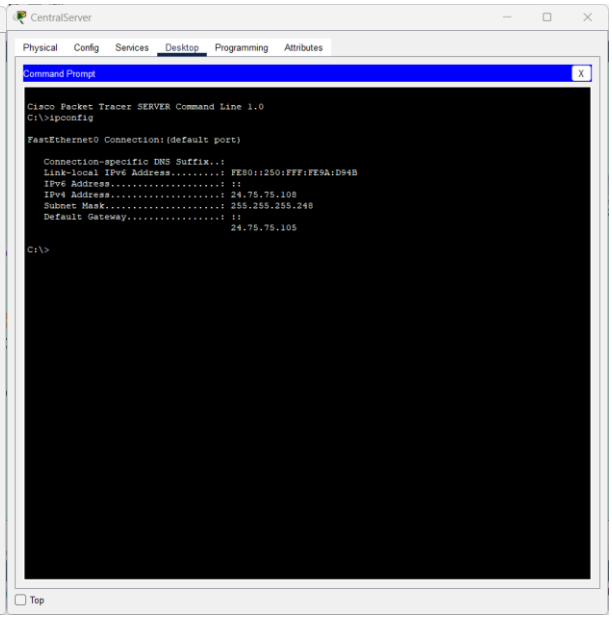


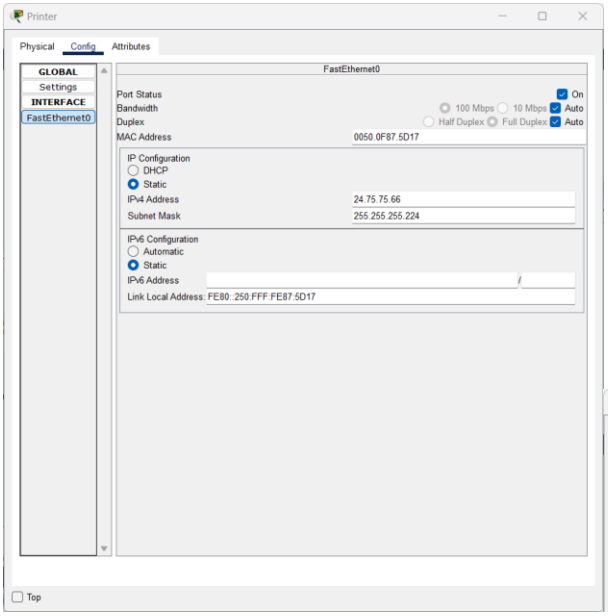
Task 3: Configure host PCs.

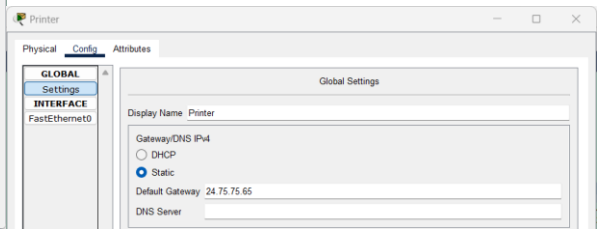



PC1
Physical
Config
Desktop
Programming
Attributes
Command Prompt
X
Cisco Packet Tracer PC Command Line 1.0
C:\>ipconfig
FastEthernet0 Connection:(default port)
Connection-specific DNS Suffix..:
Link-local IPv6 Address.....: FE80::207:ECFF:FE54:ABB
IPv6 Address.....: ::
IPv4 Address.....: 24.75.73.2
Subnet Mask.....: 255.255.254.0
Default Gateway.....: ::
24.75.73.1
Bluetooth Connection:
Connection-specific DNS Suffix..:
Link-local IPv6 Address.....: ::
IPv6 Address.....: ::
IPv4 Address.....: 0.0.0.0
Subnet Mask.....: 0.0.0.0
Default Gateway.....: ::
0.0.0.0
C:\>
Top

PC2
Physical
Config
Desktop
Programming
Attributes
Command Prompt
X
Cisco Packet Tracer PC Command Line 1.0
C:\>ipconfig
FastEthernet0 Connection:(default port)
Connection-specific DNS Suffix..:
Link-local IPv6 Address.....: FE80::209:7CFF:FE90:57B5
IPv6 Address.....: ::
IPv4 Address.....: 24.75.75.2
Subnet Mask.....: 255.255.255.192
Default Gateway.....: ::
24.75.75.1
Bluetooth Connection:
Connection-specific DNS Suffix..:
Link-local IPv6 Address.....: ::
IPv6 Address.....: ::
IPv4 Address.....: 0.0.0.0
Subnet Mask.....: 0.0.0.0
Default Gateway.....: ::
0.0.0.0
C:\>
Top

PC3
Physical
Config
Desktop
Programming
Attributes
Command Prompt
X
Cisco Packet Tracer PC Command Line 1.0
C:\>ipconfig
FastEthernet0 Connection:(default port)
Connection-specific DNS Suffix..:
Link-local IPv6 Address.....: FE80::230:A3FF:FE74:B2B
IPv6 Address.....: ::
IPv4 Address.....: 24.75.73.3
Subnet Mask.....: 255.255.254.0
Default Gateway.....: ::
24.75.73.1
Bluetooth Connection:
Connection-specific DNS Suffix..:
Link-local IPv6 Address.....: ::
IPv6 Address.....: ::
IPv4 Address.....: 0.0.0.0
Subnet Mask.....: 0.0.0.0
Default Gateway.....: ::
0.0.0.0
C:\>
Top

PC4
Physical
Config
Desktop
Programming
Attributes
Command Prompt
X
Cisco Packet Tracer PC Command Line 1.0
C:\>ipconfig
FastEthernet0 Connection:(default port)
Connection-specific DNS Suffix..:
Link-local IPv6 Address.....: FE80::2E0:B0FF:FEBB:D78A
IPv6 Address.....: ::
IPv4 Address.....: 24.75.75.3
Subnet Mask.....: 255.255.255.192
Default Gateway.....: ::
24.75.75.1
Bluetooth Connection:
Connection-specific DNS Suffix..:
Link-local IPv6 Address.....: ::
IPv6 Address.....: ::
IPv4 Address.....: 0.0.0.0
Subnet Mask.....: 0.0.0.0
Default Gateway.....: ::
0.0.0.0
C:\>
Top


AdminPC
Physical
Config
Desktop
Programming
Attributes
Command Prompt
X
Cisco Packet Tracer PC Command Line 1.0
C:\>ipconfig
FastEthernet0 Connection:(default port)
Connection-specific DNS Suffix..:
Link-local IPv6 Address.....: FE80::290:2BFF:FE3A:6DA3
IPv6 Address.....: ::
IPv4 Address.....: 24.75.75.107
Subnet Mask.....: 255.255.255.248
Default Gateway.....: ::
24.75.75.105
Bluetooth Connection:
Connection-specific DNS Suffix..:
Link-local IPv6 Address.....: ::
IPv6 Address.....: ::
IPv4 Address.....: 0.0.0.0
Subnet Mask.....: 0.0.0.0
Default Gateway.....: ::
0.0.0.0
C:\>
Top


CentralServer
Physical
Config
Services
Desktop
Programming
Attributes
Command Prompt
X
Cisco Packet Tracer SERVER Command Line 1.0
C:\>ipconfig
FastEthernet0 Connection:(default port)
Connection-specific DNS Suffix..:
Link-local IPv6 Address.....: FE80::250:FFF:FE9A:D94B
IPv6 Address.....: ::
IPv4 Address.....: 24.75.75.108
Subnet Mask.....: 255.255.255.248
Default Gateway.....: ::
24.75.75.105
C:\>
Top


Printer
Physical
Config
Attributes
GLOBAL
Settings
INTERFACE
FastEthernet0
FastEthernet0
Port Status
On
Bandwidth
100 Mbps
10 Mbps
Auto
Duplex
Half Duplex
Full Duplex
Auto
MAC Address
0050.0F87.5D17
IP Configuration
DHCP
Static
IPv4 Address
24.75.75.66
Subnet Mask
255.255.255.224
IPv6 Configuration
Automatic
Static
IPv6 Address
Link Local Address
FE80::250:FFF:FE87:5D17
Top


Printer
Physical
Config
Attributes
GLOBAL
Settings
INTERFACE
FastEthernet0
Global Settings
Display Name
Printer
Gateway/DNS IPv4
DHCP
Static
Default Gateway
24.75.75.65
DNS Server

Task 4: Configure device basic settings.

Configure Switches and Routers with the basic configuration,

```
Switch>enable
Switch#config t
Enter configuration commands, one per line.  End with CNTL/Z.
Switch(config)#no ip domain-lookup
Switch(config)#hostname S4
S4(config)#service password-encryption
S4(config)#enable password class
S4(config)#enable secret class
The enable secret you have chosen is the same as your enable password.
This is not recommended.  Re-enter the enable secret.
S4(config)#banner motd # Unauthorized access is strictly prohibited. #
S4(config)#exit
S4#clock set 12:00:00 5 December 2024
S4#
%SYS-5-CONFIG_I: Configured from console by console

S4#
```

```
Router>enable
Router#config t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#no ip domain-lookup
Router(config)#hostname R2
R2(config)#service password-encryption
R2(config)#enable password class
R2(config)#enable secret class
The enable secret you have chosen is the same as your enable password.
This is not recommended.  Re-enter the enable secret.
R2(config)#banner motd # Unauthorized access is strictly prohibited. #
R2(config)#exit
R2#clock set 12:00:00 5 December 2024
R2#
%SYS-5-CONFIG_I: Configured from console by console

R2#
```

Config the IP address and default gateway on switches,

```
S1(config)#interface vlan 99
S1(config-if)#ip address 24.75.75.113 255.255.255.248
S1(config-if)#no shutdown
S1(config-if)#exit
S1(config)#ip default-gateway 24.75.75.115
S1(config)#
```

```
MS1(config)#interface vlan 10
MS1(config-if)#ip address 24.75.75.65 255.255.255.224
MS1(config-if)#no shutdown
MS1(config-if)#exit
MS1(config)#interface vlan 30
MS1(config-if)#ip address 24.75.73.1 255.255.254.0
MS1(config-if)#no shutdown
MS1(config-if)#exit
MS1(config)#interface vlan 40
MS1(config-if)#ip address 24.75.75.1 255.255.255.192
MS1(config-if)#no shutdown
MS1(config-if)#exit
MS1(config)#interface vlan 99
MS1(config-if)#ip address 24.75.75.115 255.255.255.248
MS1(config-if)#no shutdown
MS1(config-if)#exit
MS1(config)#
```

```
R2>en
Password:
R2#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
R2(config)#interface g0/0
R2(config-if)#ip address 24.75.75.99 255.255.255.248
R2(config-if)#no shutdown

R2(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to up

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

R2(config-if)#exit
R2(config)#interface g0/1
R2(config-if)#ip address 24.75.75.105 255.255.255.248
R2(config-if)#no shutdwon
                    ^
% Invalid input detected at '^' marker.

R2(config-if)#no shutdown

R2(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/1, changed state to up

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

R2(config-if)#exit
R2(config)#
```

```
S2(config)#
S2(config)#interface range f0/1 - f0/10
S2(config-if-range)#switchport mode access
S2(config-if-range)#switchport access vlan 99
% Access VLAN does not exist. Creating vlan 99
S2(config-if-range)#exit
S2(config)#interface range f0/11 - f0/15
S2(config-if-range)#switchport mode access
S2(config-if-range)#switchport access vlan 10
% Access VLAN does not exist. Creating vlan 10
S2(config-if-range)#exit
S2(config)#interface range f0/16 - f0/20
S2(config-if-range)#switchport mode access
S2(config-if-range)#switchport access vlan 30
% Access VLAN does not exist. Creating vlan 30
S2(config-if-range)#exit
S2(config)#interface range f0/21 - f0/24
S2(config-if-range)#switchport mode access
S2(config-if-range)#switchport access vlan 40
%LINK-5-CHANGED: Interface Vlan99, changed state to up
```

```
MS1#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
MS1(config)#ip routing
MS1(config)#interface g0/1
MS1(config-if)#no switchport
MS1(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to down

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

MS1(config-if)#ip address 24.75.75.97 255.255.255.248
MS1(config-if)#no shutdown
```

Task 5: create Vlans.

```
S1(config)#vlan 10
S1(config-vlan)#name Vlan10
S1(config-vlan)#exit
S1(config)#vlan 30
S1(config-vlan)#name Vlan30
S1(config-vlan)#exit
S1(config)#vlan 40
S1(config-vlan)#name Vlan40
S1(config-vlan)#exit
S1(config)#vlan 99
S1(config-vlan)#name Vlan99
S1(config-vlan)#exit
S1(config)#
```

```
S1(config)#vlan 88
S1(config-vlan)#name Vlan88
S1(config-vlan)#
```

```
S3(config)#
S3(config)#vlan 88
S3(config-vlan)#name Vlan88
S3(config-vlan)#exit
S3(config)#
```

Task 6: config access/trunk ports on switches.

```
S2(config)#
S2(config)#interface range fa0/1 - fa0/4
S2(config-if-range)#switchport mode trunk



S2(config-if-range)#switchport trunk allowed vlan 10,30,40,99
S2(config-if-range)#no shutdown
S2(config-if-range)#exit
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to down

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

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to down

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to down

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/4, changed state to down

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/4, changed state to up

S2(config)#
```

```
S1(config)#interface f0/16
S1(config-if)#switchport mode access
S1(config-if)#switchport access vlan 30
S1(config-if)#no shutdown
S1(config-if)#exit
S1(config)#
```

```
S2(config)#
S2(config)#interface f0/21
S2(config-if)#switchport mode access
S2(config-if)#switchport access vlan 40
S2(config-if)#no shutdown
S2(config-if)#exit
S2(config)#
S2(config)#interface f0/16
S2(config-if)#switchport mode access
S2(config-if)#switchport access vlan 30
S2(config-if)#no shutdown
S2(config-if)#exit
S2(config)#
S2(config)#interface f0/10
S2(config-if)#switchport mode access
S2(config-if)#switchport access vlan 10
S2(config-if)#no shutdown
S2(config-if)#exit
S2(config)#
```

```
S3(config)#interface range f0/1 - f0/2
S3(config-if-range)#switchport mode access
S3(config-if-range)#switchport access vlan 88
S3(config-if-range)#no shutdown
S3(config-if-range)#exit
S3(config)#
```

Shutting down all unused ports:

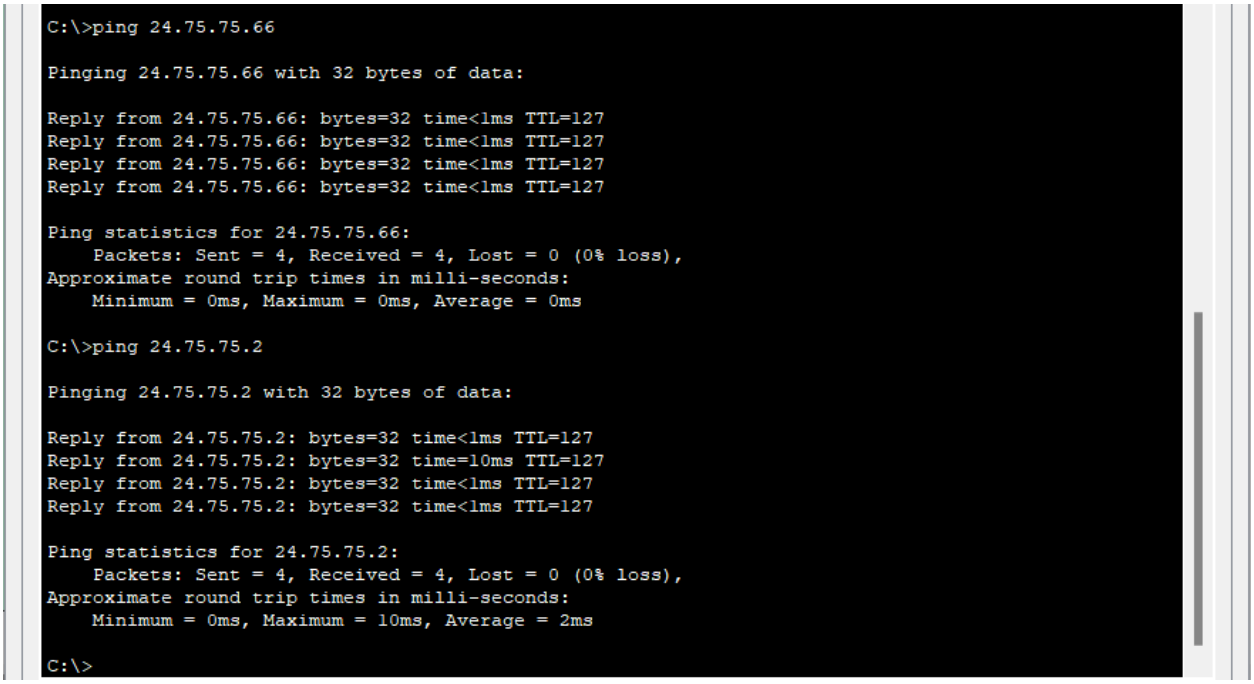
```
S1(config)#interface range f0/5 - f0/15
S1(config-if-range)#shutdown

%LINK-5-CHANGED: Interface FastEthernet0/5, changed state to administratively down

%LINK-5-CHANGED: Interface FastEthernet0/6, changed state to administratively down

%LINK-5-CHANGED: Interface FastEthernet0/7, changed state to administratively down

%LINK-5-CHANGED: Interface FastEthernet0/8, changed state to administratively down

%LINK-5-CHANGED: Interface FastEthernet0/9, changed state to administratively down

%LINK-5-CHANGED: Interface FastEthernet0/10, changed state to administratively down

%LINK-5-CHANGED: Interface FastEthernet0/11, changed state to administratively down

%LINK-5-CHANGED: Interface FastEthernet0/12, changed state to administratively down

%LINK-5-CHANGED: Interface FastEthernet0/13, changed state to administratively down

%LINK-5-CHANGED: Interface FastEthernet0/14, changed state to administratively down

%LINK-5-CHANGED: Interface FastEthernet0/15, changed state to administratively down
S1(config-if-range)#exit
S1(config)#interface range f0/17 - f0/20
S1(config-if-range)#shutdown

%LINK-5-CHANGED: Interface FastEthernet0/17, changed state to administratively down

%LINK-5-CHANGED: Interface FastEthernet0/18, changed state to administratively down

%LINK-5-CHANGED: Interface FastEthernet0/19, changed state to administratively down

%LINK-5-CHANGED: Interface FastEthernet0/20, changed state to administratively down
S1(config-if-range)#exit
S1(config)#interface range f0/22 - f0/24
S1(config-if-range)#shutdown

%LINK-5-CHANGED: Interface FastEthernet0/22, changed state to administratively down
```

```
S2(config)#interface range f0/5 - f0/10
S2(config-if-range)#shutdown

%LINK-5-CHANGED: Interface FastEthernet0/5, changed state to administratively down

%LINK-5-CHANGED: Interface FastEthernet0/6, changed state to administratively down

%LINK-5-CHANGED: Interface FastEthernet0/7, changed state to administratively down

%LINK-5-CHANGED: Interface FastEthernet0/8, changed state to administratively down

%LINK-5-CHANGED: Interface FastEthernet0/9, changed state to administratively down

%LINK-5-CHANGED: Interface FastEthernet0/10, changed state to administratively down
S2(config-if-range)#exit
S2(config)#interface range f0/12 - f0/15
S2(config-if-range)#shutdown

%LINK-5-CHANGED: Interface FastEthernet0/12, changed state to administratively down

%LINK-5-CHANGED: Interface FastEthernet0/13, changed state to administratively down

%LINK-5-CHANGED: Interface FastEthernet0/14, changed state to administratively down

%LINK-5-CHANGED: Interface FastEthernet0/15, changed state to administratively down
S2(config-if-range)#exit
S2(config)#interface range f0/17 - f0/20
S2(config-if-range)#shutdown

%LINK-5-CHANGED: Interface FastEthernet0/17, changed state to administratively down

%LINK-5-CHANGED: Interface FastEthernet0/18, changed state to administratively down

%LINK-5-CHANGED: Interface FastEthernet0/19, changed state to administratively down

%LINK-5-CHANGED: Interface FastEthernet0/20, changed state to administratively down
S2(config-if-range)#exit
S2(config)#interface range f0/22 - f0/24
S2(config-if-range)#shutdown

%LINK-5-CHANGED: Interface FastEthernet0/22, changed state to administratively down
```

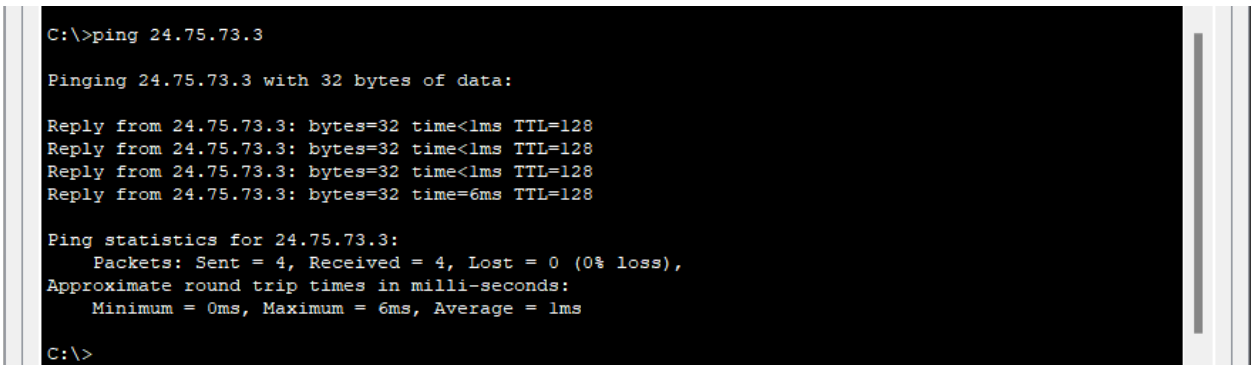
```
R2(config)#interface g0/1.88
R2(config-subif)#encapsulation dot1Q 88
R2(config-subif)#ip address 24.75.75.114 255.255.255.248
R2(config-subif)#no shutdown
R2(config-subif)#exit
```

Task 8: Verify connectivity.

between different VLANs



between Same VLANs



```
C:\>ping 24.75.75.108

Pinging 24.75.75.108 with 32 bytes of data:

Reply from 24.75.75.108: bytes=32 time<1ms TTL=128
Reply from 24.75.75.108: bytes=32 time<1ms TTL=128
Reply from 24.75.75.108: bytes=32 time<1ms TTL=128
Reply from 24.75.75.108: bytes=32 time<1ms TTL=128

Ping statistics for 24.75.75.108:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

Task 9: Configure EtherChannel.

```
 Unauthorized access is strictly prohibited.

S1>en
Password:
S1#config t
Enter configuration commands, one per line.  End with CNTL/Z.
S1(config)#interface range f0/1 - 2
S1(config-if-range)#switchport mode trunk
S1(config-if-range)#channel-group 1 mode desirable
S1(config-if-range)#
Creating a port-channel interface Port-channel 1

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

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

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to down

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up

S1(config-if-range)#exit
S1(config)#interface range f0/3 - 4
S1(config-if-range)#switchport mode trunk
S1(config-if-range)#channel-group 3 mode desirable
S1(config-if-range)#
Creating a port-channel interface Port-channel 3

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to down

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/4, changed state to down

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/4, changed state to up

%LINK-5-CHANGED: Interface Port-channel3, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Port-channel3, changed state to up

S1(config-if-range)#exit
S1(config)#
```

```
S2>en
Password:
S2#config t
Enter configuration commands, one per line.  End with CNTL/Z.
S2(config)#interface range f0/3 - 4
S2(config-if-range)#switchport mode trunk
S2(config-if-range)#channel-group 3 mode desirable
S2(config-if-range)#
Creating a port-channel interface Port-channel 3

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to down

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/4, changed state to down

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/4, changed state to up

S2(config-if-range)#exit
S2(config)#
%LINK-5-CHANGED: Interface Port-channel3, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Port-channel3, changed state to up

S2(config)#interface range f0/1 - 2
S2(config-if-range)#switchport mode trunk
S2(config-if-range)#channel-group 2 mode desirable
S2(config-if-range)#
Creating a port-channel interface Port-channel 2

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

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

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to down

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up

S2(config-if-range)#exit
S2(config)#
```

Task 10: Config default static static route between R1 and ISP

```
R1>en
Password:
R1#config t
Enter configuration commands, one per line.  End with CNTL/Z.
R1(config)#interface s0/0/0
R1(config-if)#ip address 209.165.200.241 255.255.255.252
R1(config-if)#no shutdown

%LINK-5-CHANGED: Interface Serial0/0/0, changed state to down
R1(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
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0, changed state to up

R1(config-if)#ip route 0.0.0.0 0.0.0.0 209.165.200.242
R1(config)#
```

```
ISP>en
Password:
ISP#config t
Enter configuration commands, one per line.  End with CNTL/Z.
ISP(config)#interface s0/0/0
ISP(config-if)#ip address 209.165.200.242 255.255.255.252
ISP(config-if)#no shutdown

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

ISP(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0, changed state to up
```

R1 OSPF Configuration

```
R1#
R1#en
R1#config t
Enter configuration commands, one per line.  End with CNTL/Z.
R1(config)#router ospf 10
R1(config-router)#network 24.75.73.0 0.0.1.255 area 0
R1(config-router)#network 24.75.75.96 0.0.0.7 area 0
R1(config-router)#network 209.165.200.240 0.0.0.3 area 0
R1(config-router)#default-information originate
R1(config-router)#
R1(config-router)#
```

Copy Paste

Top

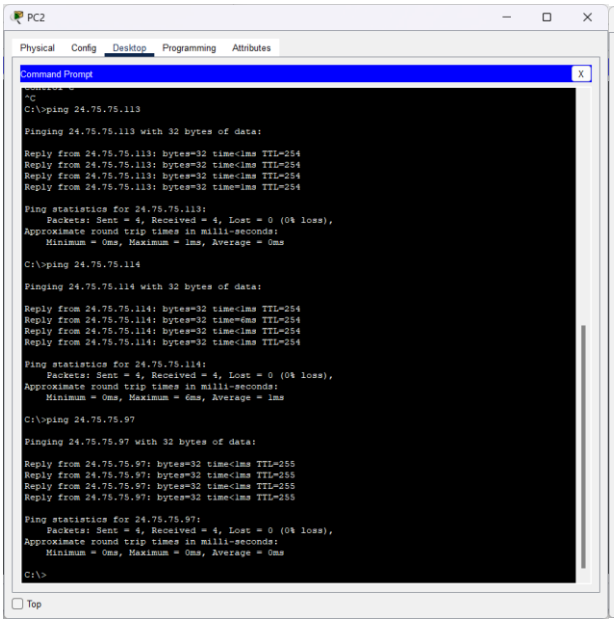
R2 OSPF Configuration

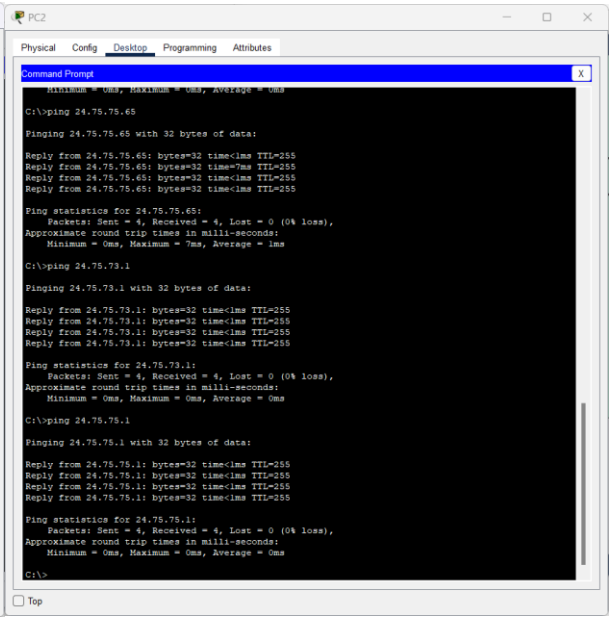
```
R2#config t
Enter configuration commands, one per line.  End with CNTL/Z.
R2(config)#router ospf 10
R2(config-router)#network 24.75.75.99 0.0.0.7 area 0
R2(config-router)#network 24.75.75.105 0.0.0.7 area 0
R2(config-router)#passive-interface default
R2(config-router)#
R2(config-router)#
```

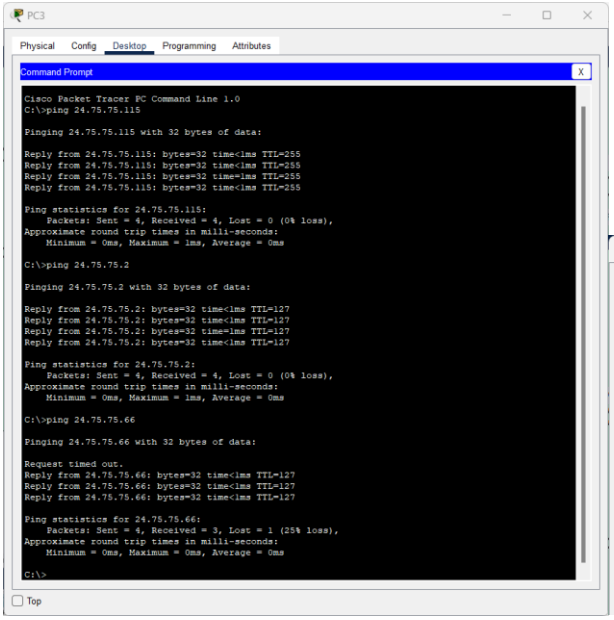
Copy Paste

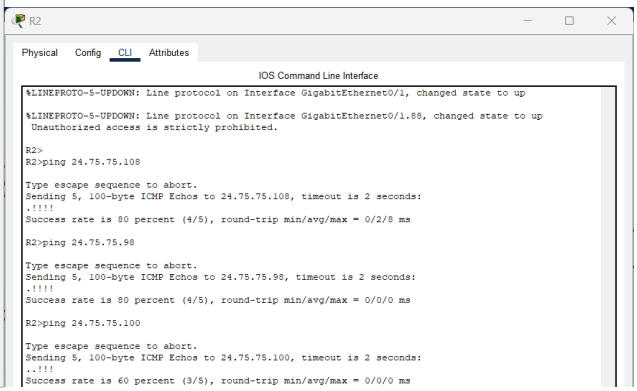
Top

Ping test:


PC2
Physical
Config
Desktop
Programming
Attributes
Command Prompt
^C
C:\>ping 24.75.75.113
Pinging 24.75.75.113 with 32 bytes of data:
Reply from 24.75.75.113: bytes=32 time<1ms TTL=254
Reply from 24.75.75.113: bytes=32 time<1ms TTL=254
Reply from 24.75.75.113: bytes=32 time<1ms TTL=254
Reply from 24.75.75.113: bytes=32 time=1ms TTL=254
Ping statistics for 24.75.75.113:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 1ms, Average = 0ms
C:\>ping 24.75.75.114
Pinging 24.75.75.114 with 32 bytes of data:
Reply from 24.75.75.114: bytes=32 time<1ms TTL=254
Reply from 24.75.75.114: bytes=32 time=6ms TTL=254
Reply from 24.75.75.114: bytes=32 time<1ms TTL=254
Reply from 24.75.75.114: bytes=32 time<1ms TTL=254
Ping statistics for 24.75.75.114:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 6ms, Average = 1ms
C:\>ping 24.75.75.97
Pinging 24.75.75.97 with 32 bytes of data:
Reply from 24.75.75.97: bytes=32 time<1ms TTL=255
Reply from 24.75.75.97: bytes=32 time<1ms TTL=255
Reply from 24.75.75.97: bytes=32 time<1ms TTL=255
Reply from 24.75.75.97: bytes=32 time<1ms TTL=255
Ping statistics for 24.75.75.97:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>
Top


PC2
Physical
Config
Desktop
Programming
Attributes
Command Prompt
C:\>ping 24.75.75.65
Pinging 24.75.75.65 with 32 bytes of data:
Reply from 24.75.75.65: bytes=32 time<1ms TTL=255
Reply from 24.75.75.65: bytes=32 time=7ms TTL=255
Reply from 24.75.75.65: bytes=32 time<1ms TTL=255
Reply from 24.75.75.65: bytes=32 time<1ms TTL=255
Ping statistics for 24.75.75.65:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 7ms, Average = 1ms
C:\>ping 24.75.73.1
Pinging 24.75.73.1 with 32 bytes of data:
Reply from 24.75.73.1: bytes=32 time<1ms TTL=255
Reply from 24.75.73.1: bytes=32 time<1ms TTL=255
Reply from 24.75.73.1: bytes=32 time<1ms TTL=255
Reply from 24.75.73.1: bytes=32 time<1ms TTL=255
Ping statistics for 24.75.73.1:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>ping 24.75.75.1
Pinging 24.75.75.1 with 32 bytes of data:
Reply from 24.75.75.1: bytes=32 time<1ms TTL=255
Reply from 24.75.75.1: bytes=32 time<1ms TTL=255
Reply from 24.75.75.1: bytes=32 time<1ms TTL=255
Reply from 24.75.75.1: bytes=32 time<1ms TTL=255
Ping statistics for 24.75.75.1:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>
Top


PC3
Physical
Config
Desktop
Programming
Attributes
Command Prompt
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 24.75.75.115
Pinging 24.75.75.115 with 32 bytes of data:
Reply from 24.75.75.115: bytes=32 time<1ms TTL=255
Reply from 24.75.75.115: bytes=32 time<1ms TTL=255
Reply from 24.75.75.115: bytes=32 time=1ms TTL=255
Reply from 24.75.75.115: bytes=32 time<1ms TTL=255
Ping statistics for 24.75.75.115:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 1ms, Average = 0ms
C:\>ping 24.75.75.2
Pinging 24.75.75.2 with 32 bytes of data:
Reply from 24.75.75.2: bytes=32 time<1ms TTL=127
Reply from 24.75.75.2: bytes=32 time<1ms TTL=127
Reply from 24.75.75.2: bytes=32 time=1ms TTL=127
Reply from 24.75.75.2: bytes=32 time<1ms TTL=127
Ping statistics for 24.75.75.2:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 1ms, Average = 0ms
C:\>ping 24.75.75.66
Pinging 24.75.75.66 with 32 bytes of data:
Request timed out.
Reply from 24.75.75.66: bytes=32 time<1ms TTL=127
Reply from 24.75.75.66: bytes=32 time<1ms TTL=127
Reply from 24.75.75.66: bytes=32 time<1ms TTL=127
Ping statistics for 24.75.75.66:
Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>
Top


R2
Physical
Config
CLI
Attributes
IOS Command Line Interface
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1.88, changed state to up
Unauthorized access is strictly prohibited.
R2>
R2>ping 24.75.75.108
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 24.75.75.108, timeout is 2 seconds:
.!!!!
Success rate is 80 percent (4/5), round-trip min/avg/max = 0/2/8 ms
R2>ping 24.75.75.98
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 24.75.75.98, timeout is 2 seconds:
.!!!!
Success rate is 80 percent (4/5), round-trip min/avg/max = 0/0/0 ms
R2>ping 24.75.75.100
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 24.75.75.100, timeout is 2 seconds:
..!!!
Success rate is 60 percent (3/5), round-trip min/avg/max = 0/0/0 ms