

INSTITUT UNIVERSTAIRES DES SCIENCES

Nom de l'université

Faculté : Des Sciences et Des Technologies

TD N°X – Réseaux I

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Niveau : .....L3 \_Science Informatique.....

Date : ....11/11/2025.....

L'objectif de ce TD est de :

Savoir attribuer des adresses IP valides aux machines.

Comprendre l'adressage IPv4 et IPv6.

Configurer des adresses IP sur des hôtes et routeurs dans Cisco Packet Tracer.

Vérifier la connectivité avec les commandes ping et ping ipv6.

... Décrire la démarche suivie:

Le but de ce travail , juste pour reproduire la même démarche de faire ce qu'on m'a demandé. Afin de pouvoir comprendre beaucoup plus , les concepts de l'adressage Ip ainsi IPv4 et IPV6. A propos de la connection , configuration et d'autres..

## 1.I Pv4

Créez une topologie avec :

Un Hub.

4 PC connectés au switch.

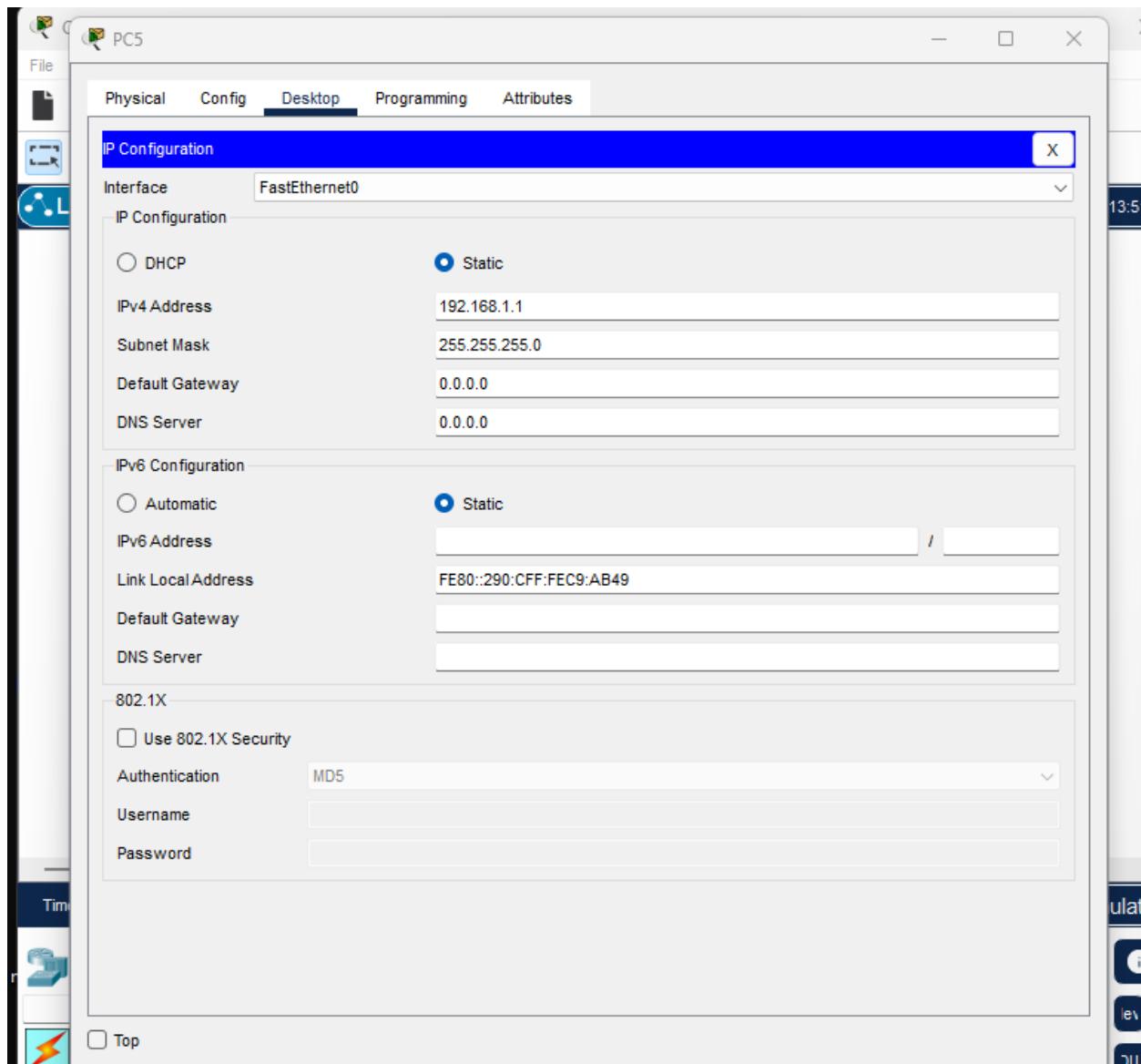
Configurez les adresses IPv4 suivantes :

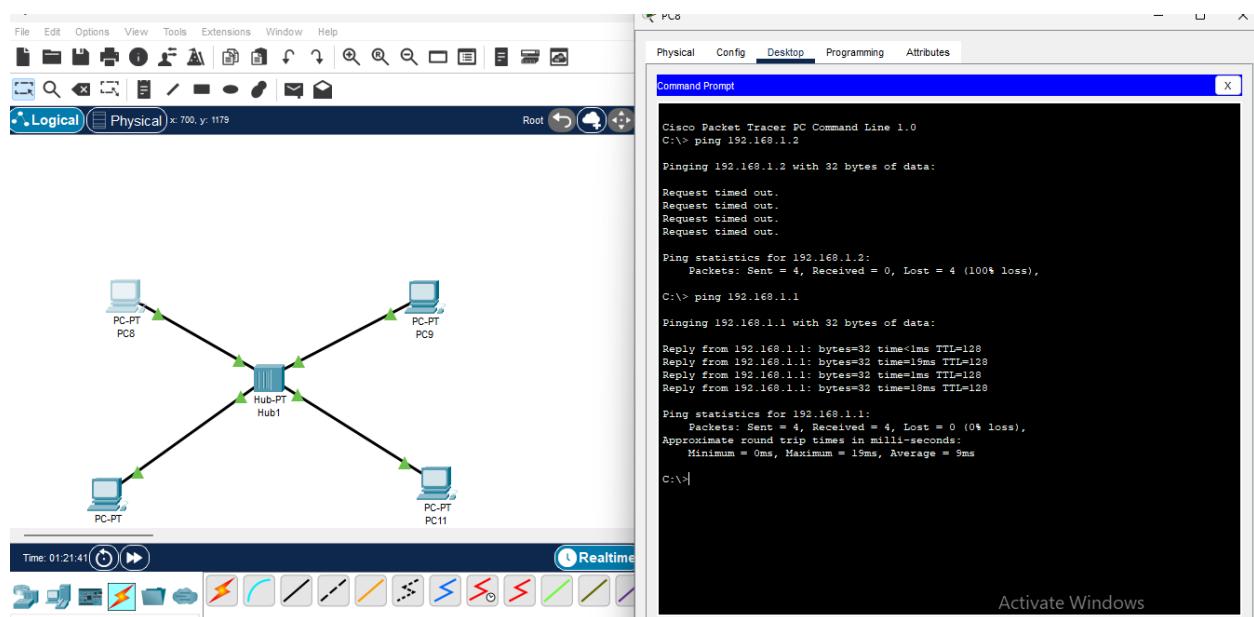
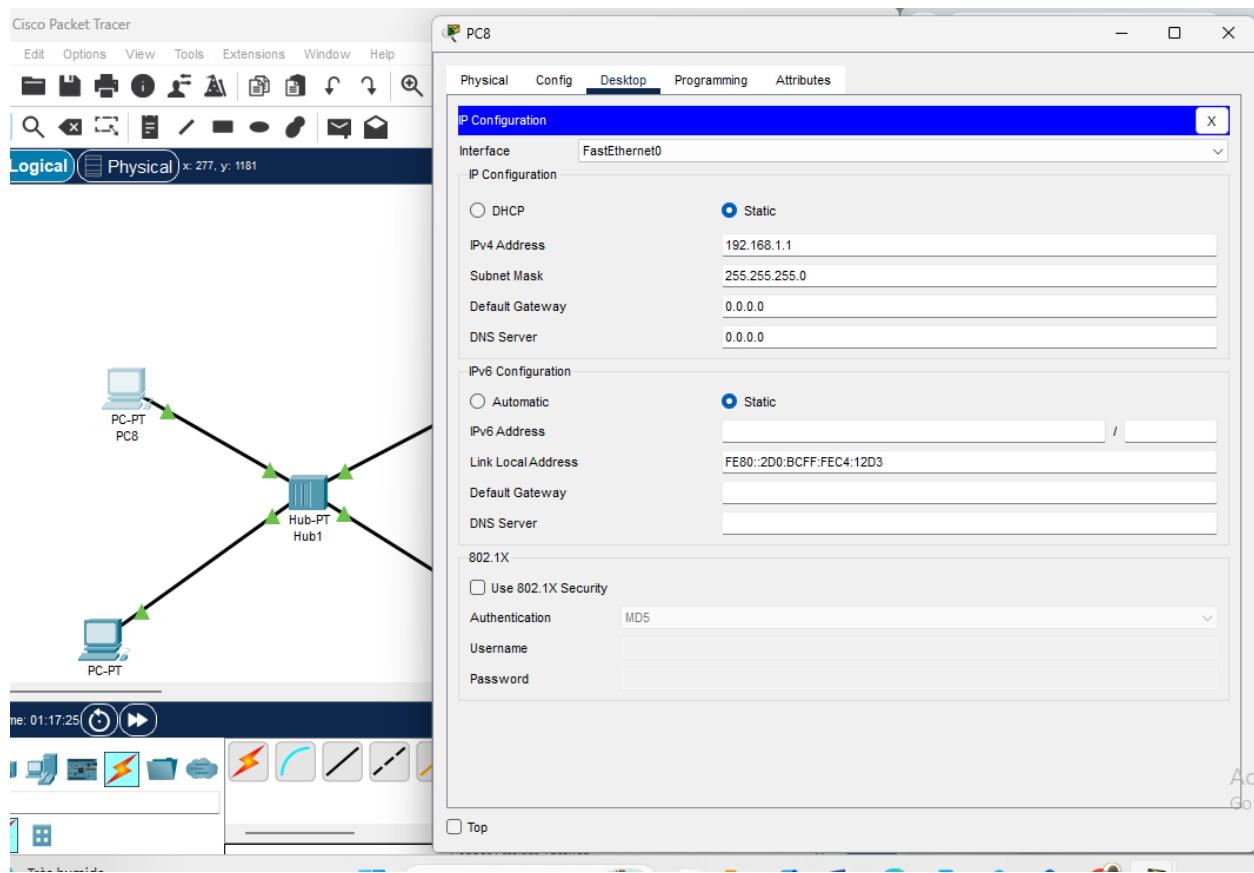
PC1 : 192.168.1.1

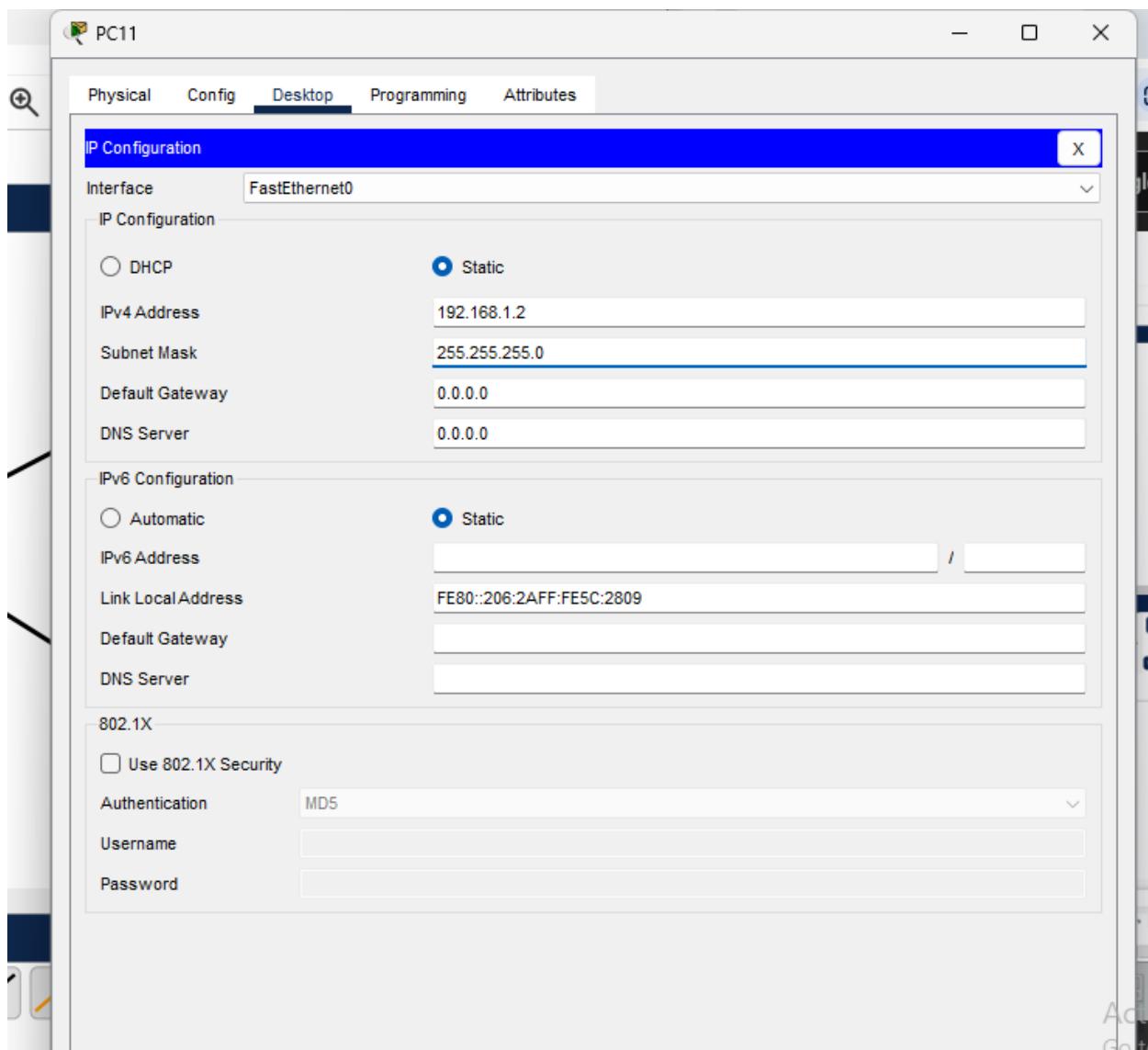
PC2 : 192.168.1.2

PC3 : 192.168.1.3

PC4 : 192.168.1.4







```
Pinging 192.168.1.2 with 32 bytes of data:  
  
Reply from 192.168.1.2: bytes=32 time=11ms TTL=128  
Reply from 192.168.1.2: bytes=32 time=1ms TTL=128  
Reply from 192.168.1.2: bytes=32 time=15ms TTL=128  
Reply from 192.168.1.2: bytes=32 time<1ms TTL=128  
  
Ping statistics for 192.168.1.2:  
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),  
Approximate round trip times in milli-seconds:  
    Minimum = 0ms, Maximum = 15ms, Average = 6ms  
  
C:\>
```

```
C:\> ping 192.168.1.2  
  
Pinging 192.168.1.2 with 32 bytes of data:  
  
Reply from 192.168.1.2: bytes=32 time=11ms TTL=128  
Reply from 192.168.1.2: bytes=32 time=1ms TTL=128  
Reply from 192.168.1.2: bytes=32 time=15ms TTL=128  
Reply from 192.168.1.2: bytes=32 time<1ms TTL=128  
  
Ping statistics for 192.168.1.2:  
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),  
Approximate round trip times in milli-seconds:  
    Minimum = 0ms, Maximum = 15ms, Average = 6ms  
  
C:\>|
```

□ Taskbar

PC9

Physical Config Desktop Programming Attributes

IP Configuration

Interface: FastEthernet0

IP Configuration

DHCP  Static

IPv4 Address: 192.168.1.3

Subnet Mask: 255.255.255.0

Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

IPv6 Configuration

Automatic  Static

IPv6 Address: /

Link Local Address: FE80::260:2FFF:FECA:13E3

Default Gateway:

DNS Server:

802.1X

Use 802.1X Security

Authentication: MD5

Username:

Password:

```
C:\>ping 192.168.1.3

Pinging 192.168.1.3 with 32 bytes of data:

Reply from 192.168.1.3: bytes=32 time=4ms TTL=128
Reply from 192.168.1.3: bytes=32 time<1ms TTL=128
Reply from 192.168.1.3: bytes=32 time=6ms TTL=128
Reply from 192.168.1.3: bytes=32 time=5ms TTL=128

Ping statistics for 192.168.1.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 6ms, Average = 3ms

C:\>
```

PC10

Physical Config Desktop Programming Attributes

### IP Configuration

Interface: FastEthernet0

IP Configuration

DHCP  Static

IPv4 Address: 192.168.1.4

Subnet Mask: 255.255.255.0

Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

IPv6 Configuration

Automatic  Static

IPv6 Address: /

Link Local Address: FE80::201:97FF:FE01:5295

Default Gateway:

DNS Server:

802.1X

Use 802.1X Security

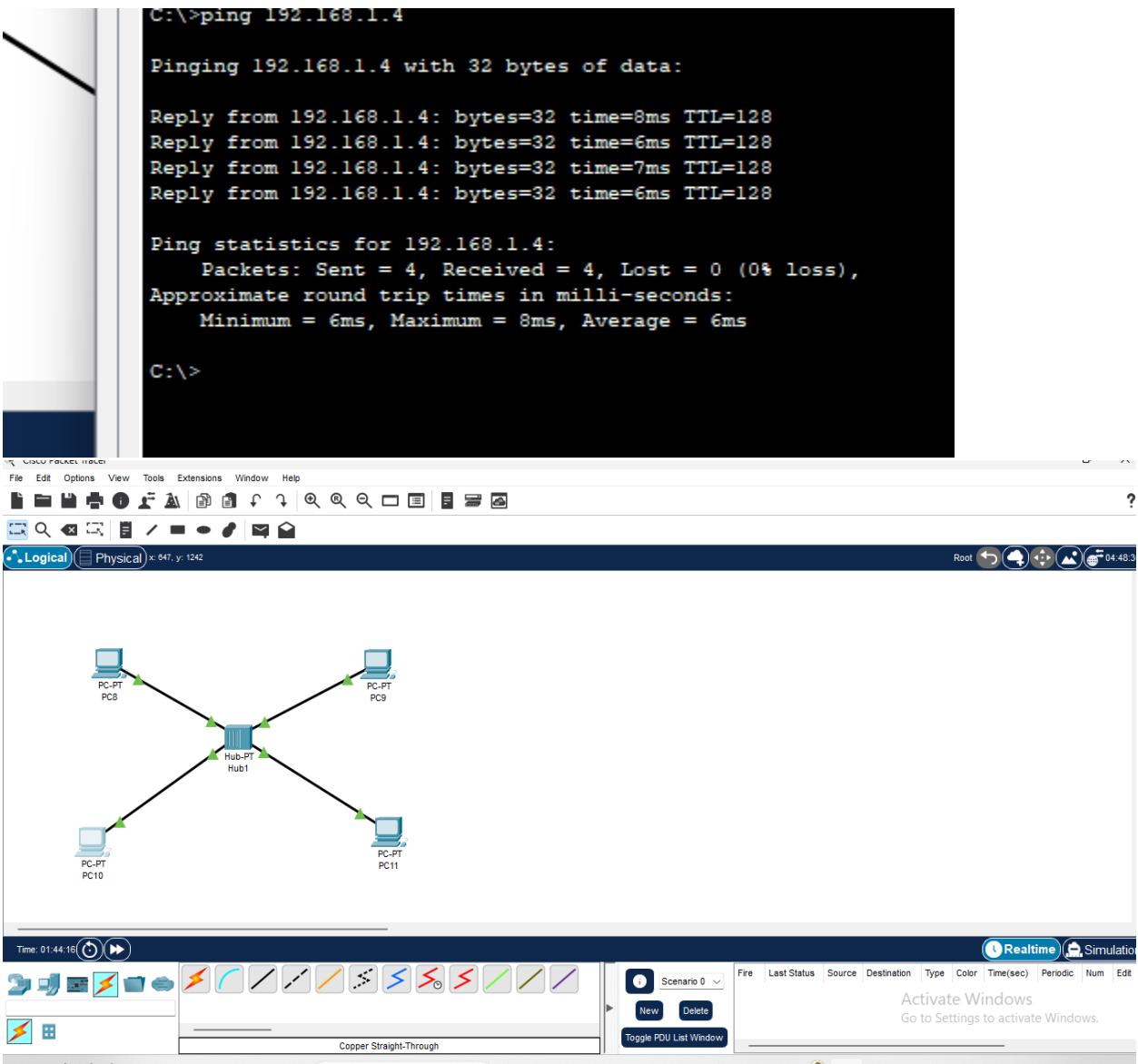
Authentication: MD5

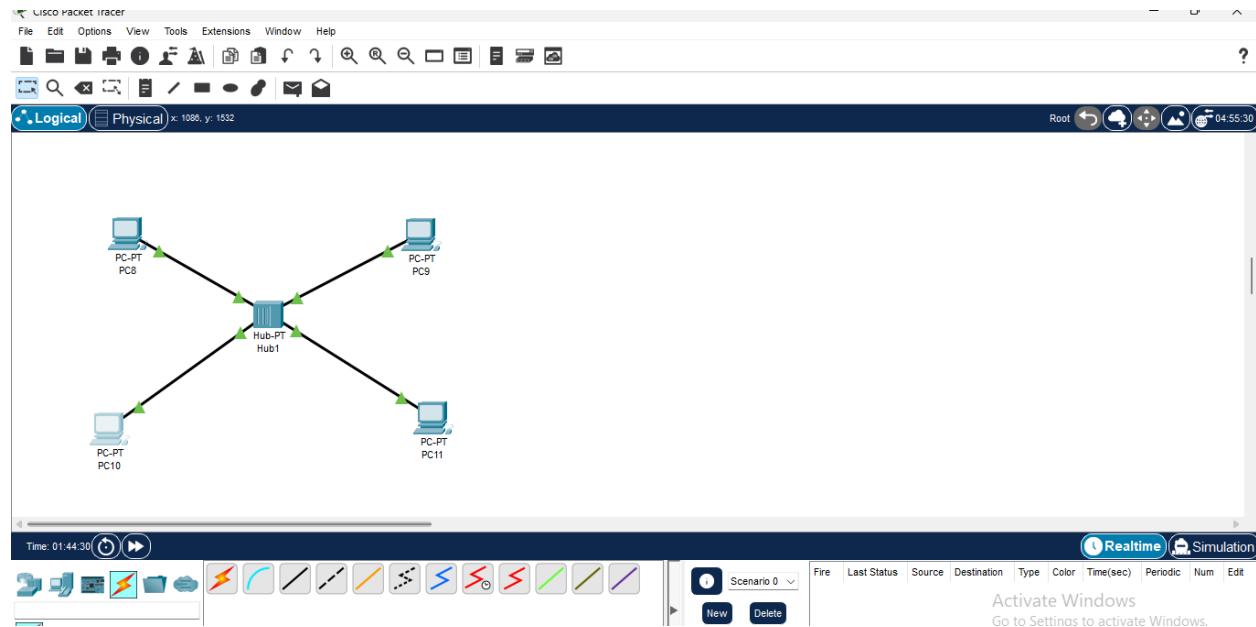
Username:

Password:

Top

Ad Go





Physical

Config

Desktop

Programming

Attributes



IP Configuration



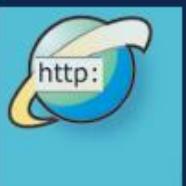
Dial-up



Terminal



Command Prompt



Web Browser



PC Wireless



VPN



Traffic Generator



MIB Browser



Cisco IP Communicator



Email



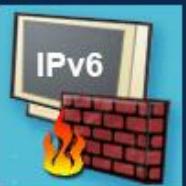
PPPoE Dialer



Text Editor

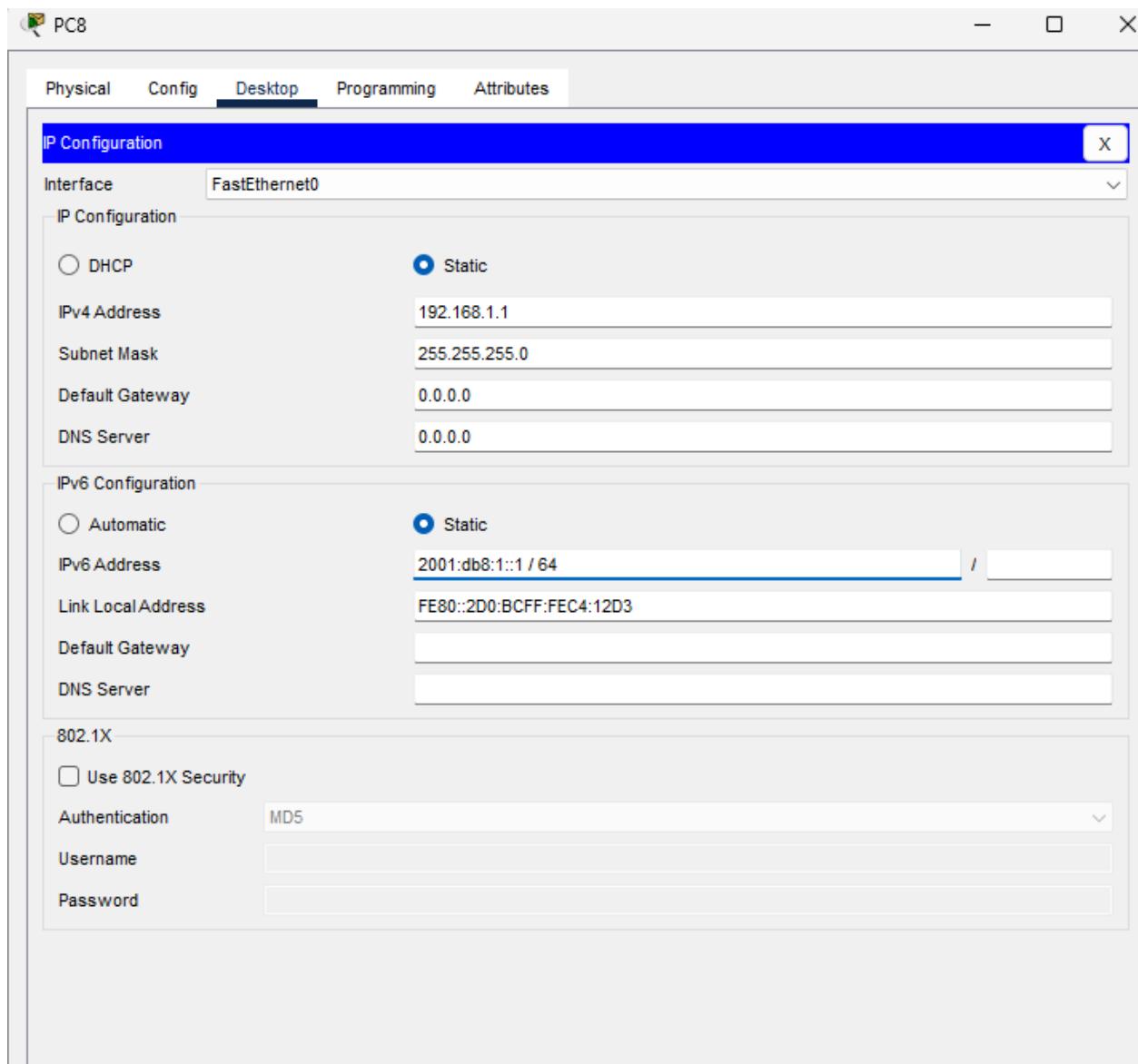


Firewall



IPv6 Firewall





Juste pour vérifier la connectivité

PC8

Physical Config Desktop Programming Attributes

### IP Configuration

Interface: FastEthernet0

IP Configuration

DHCP  Static

IPv4 Address:

Subnet Mask:

Default Gateway:  0.0.0.0

DNS Server:  0.0.0.0

IPv6 Configuration

Automatic  Static

IPv6 Address:  2001:db8:1::1 / 64 /

Link Local Address:  FE80::2D0:BCFF:FEC4:12D3

Default Gateway:

DNS Server:

802.1X

Use 802.1X Security

Authentication: MD5

Username:

Password:

Top

PC11

Physical Config Desktop Programming Attributes

### IP Configuration

Interface: FastEthernet0

IP Configuration

DHCP  Static

IPv4 Address: 192.168.1.2

Subnet Mask: 255.255.255.0

Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

IPv6 Configuration

Automatic  Static

IPv6 Address: 2001:db8:1::2 / 64

Link Local Address: FE80::206:2AFF:FE5C:2809

Default Gateway:

DNS Server:

802.1X

Use 802.1X Security

Authentication: MD5

Username:

Password:

PC8

Physical Config Desktop Programming Attributes

**IP Configuration**

Interface: FastEthernet0

IP Configuration

DHCP  Static

IPv4 Address:

Subnet Mask:

Default Gateway:

DNS Server:

IPv6 Configuration

Automatic  Static

IPv6 Address:  /

Link Local Address:

Default Gateway:

DNS Server:

802.1X

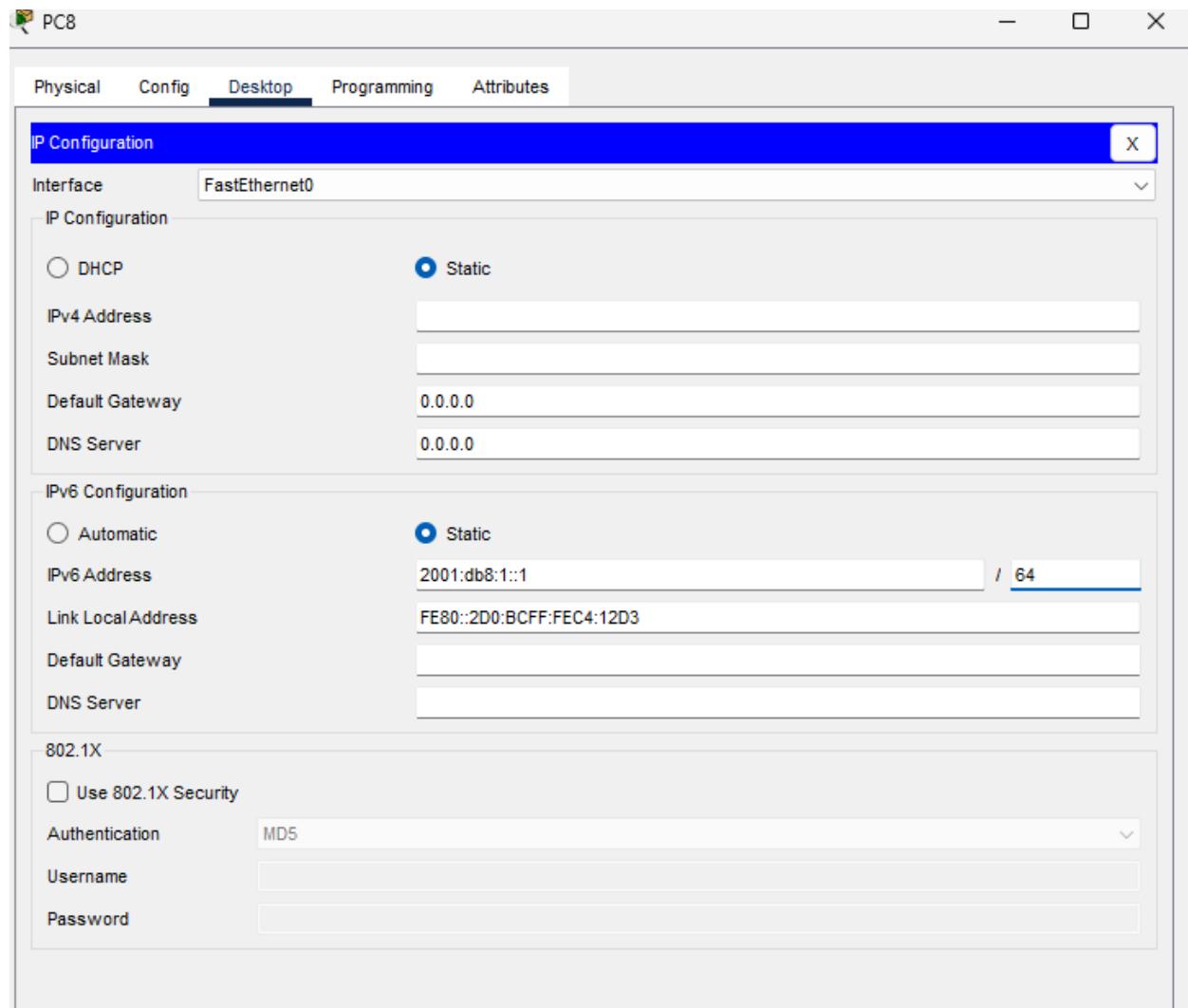
Use 802.1X Security

Authentication: MD5

Username:

Password:

Top

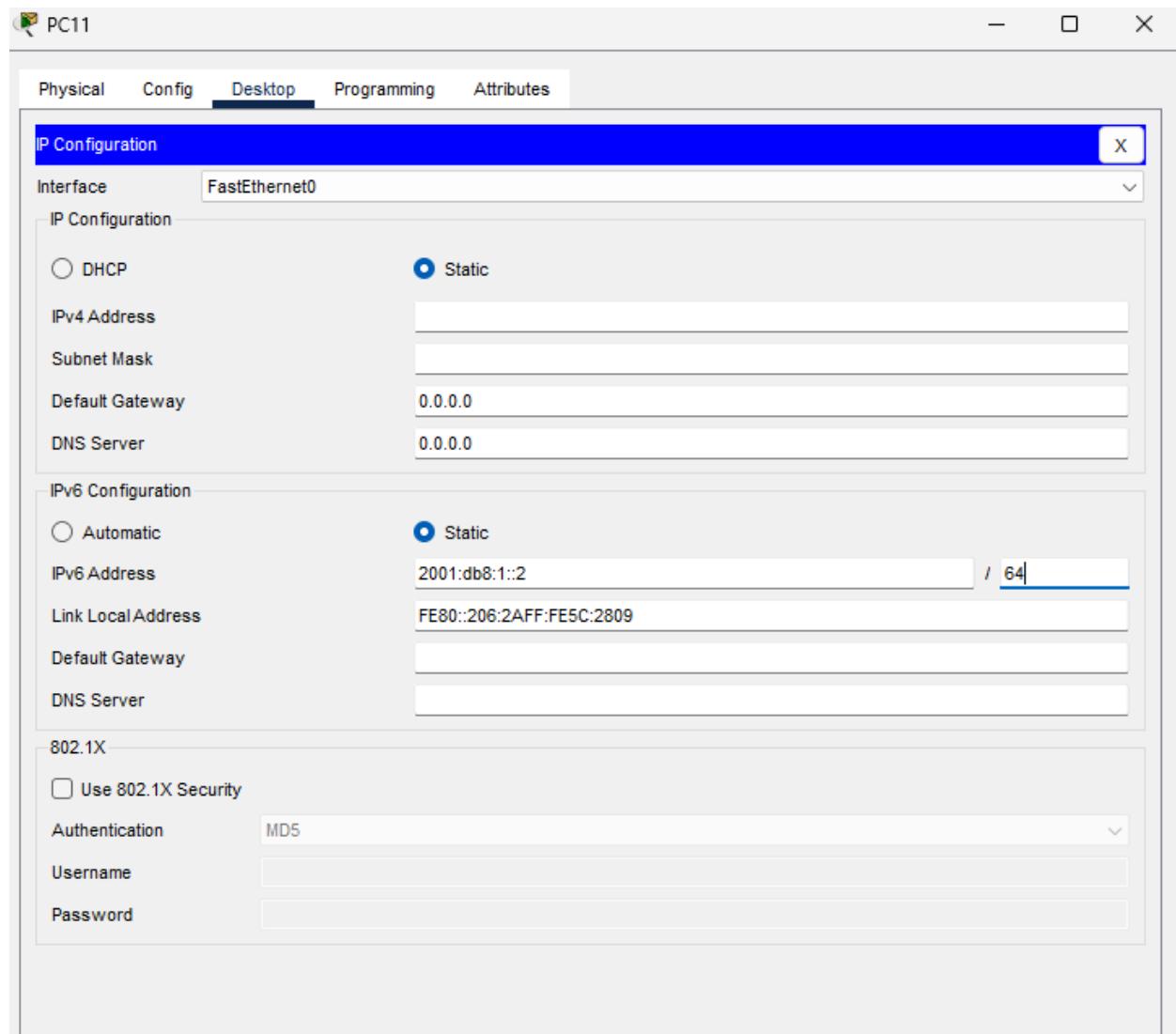


```
C:\>ping 2001:db8:1::1

Pinging 2001:db8:1::1 with 32 bytes of data:

Reply from 2001:DB8:1::1: bytes=32 time=22ms TTL=128
Reply from 2001:DB8:1::1: bytes=32 time=3ms TTL=128
Reply from 2001:DB8:1::1: bytes=32 time=5ms TTL=128
Reply from 2001:DB8:1::1: bytes=32 time=3ms TTL=128

Ping statistics for 2001:DB8:1::1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 3ms, Maximum = 22ms, Average = 8ms
```



```
:>ping 2001:db8:1::2/32
ping request could not find host 2001:db8:1::2/32.
:>ping 2001:db8:1::2/64
ping request could not find host 2001:db8:1::2/64.
:>ping 2001:db8:1::2

Pinging 2001:db8:1::2 with 32 bytes of data:

Reply from 2001:DB8:1::2: bytes=32 time<1ms TTL=128
Reply from 2001:DB8:1::2: bytes=32 time=6ms TTL=128
Reply from 2001:DB8:1::2: bytes=32 time=7ms TTL=128
```

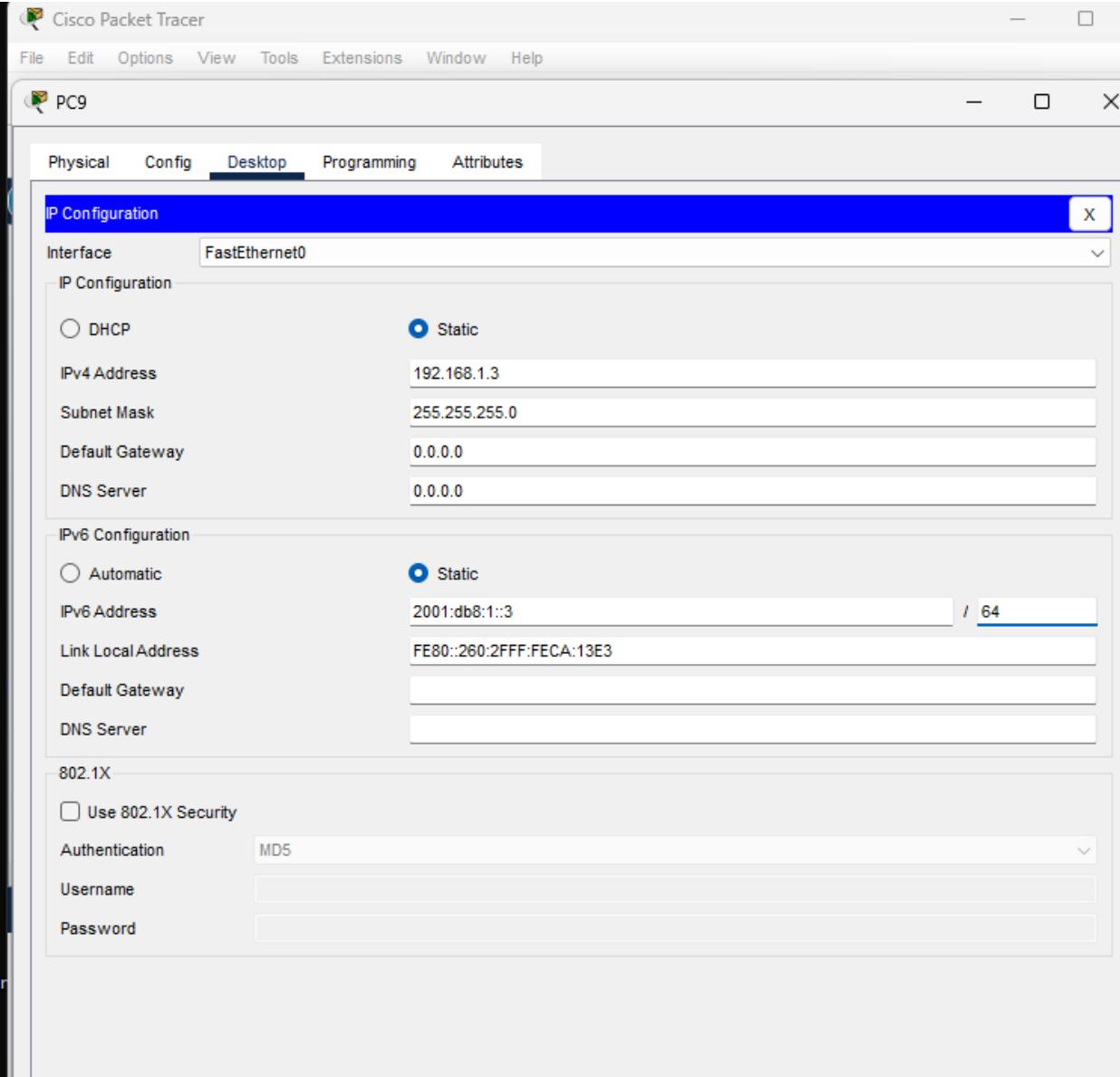
```
C:\>ping 2001:db8:1::2/32
Ping request could not find host 2001:db8:1::2/32. Please check the name and try again.
C:\>ping 2001:db8:1::2/64
Ping request could not find host 2001:db8:1::2/64. Please check the name and try again.
C:\>ping 2001:db8:1::2

Pinging 2001:db8:1::2 with 32 bytes of data:

Reply from 2001:DB8:1::2: bytes=32 time<1ms TTL=128
Reply from 2001:DB8:1::2: bytes=32 time=6ms TTL=128
Reply from 2001:DB8:1::2: bytes=32 time=7ms TTL=128
Reply from 2001:DB8:1::2: bytes=32 time=8ms TTL=128

Ping statistics for 2001:DB8:1::2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 8ms, Average = 5ms
```

C:\>

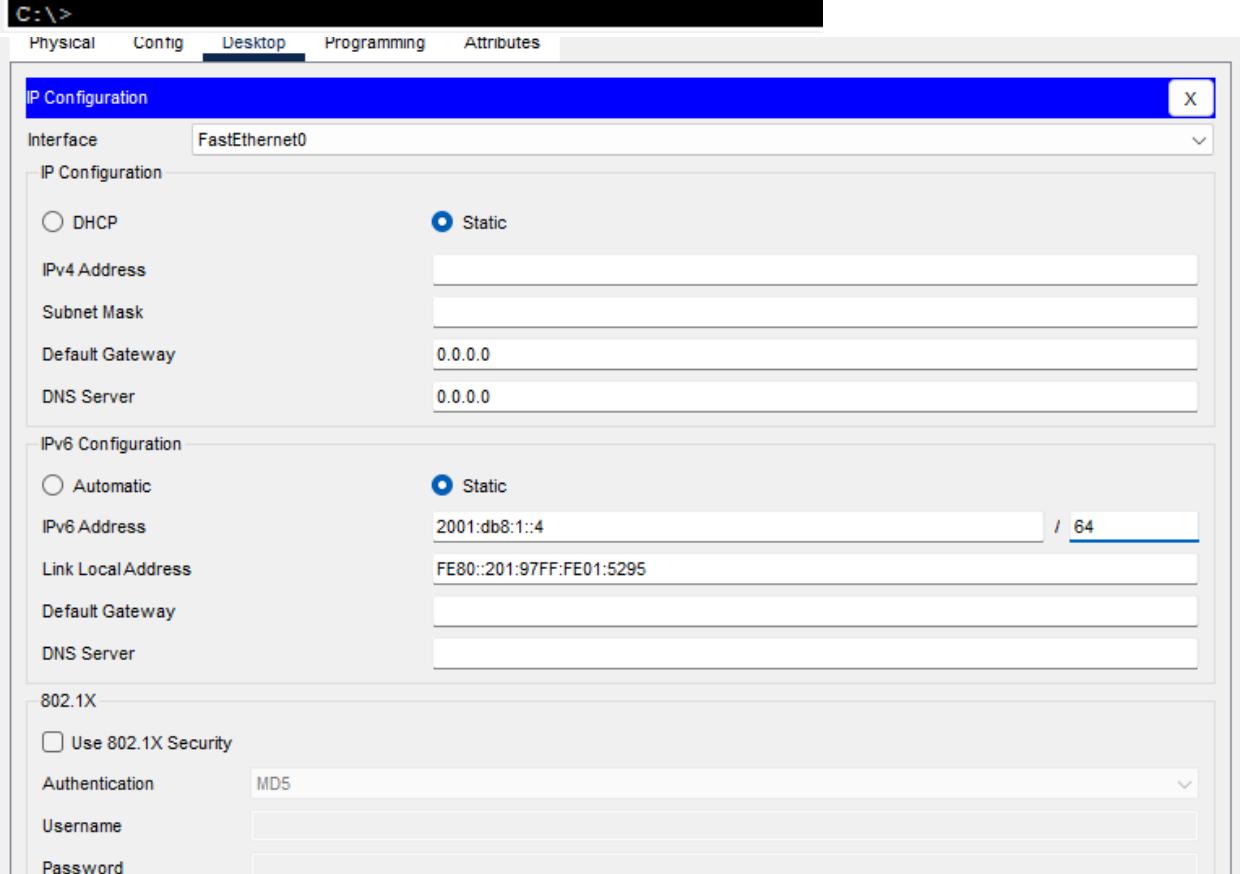


```
C:\>ping 2001:db8:1::3

Pinging 2001:db8:1::3 with 32 bytes of data:

Reply from 2001:DB8:1::3: bytes=32 time<1ms TTL=128
Reply from 2001:DB8:1::3: bytes=32 time<1ms TTL=128
Reply from 2001:DB8:1::3: bytes=32 time=2ms TTL=128
Reply from 2001:DB8:1::3: bytes=32 time=6ms TTL=128

Ping statistics for 2001:DB8:1::3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 6ms, Average = 2ms
```



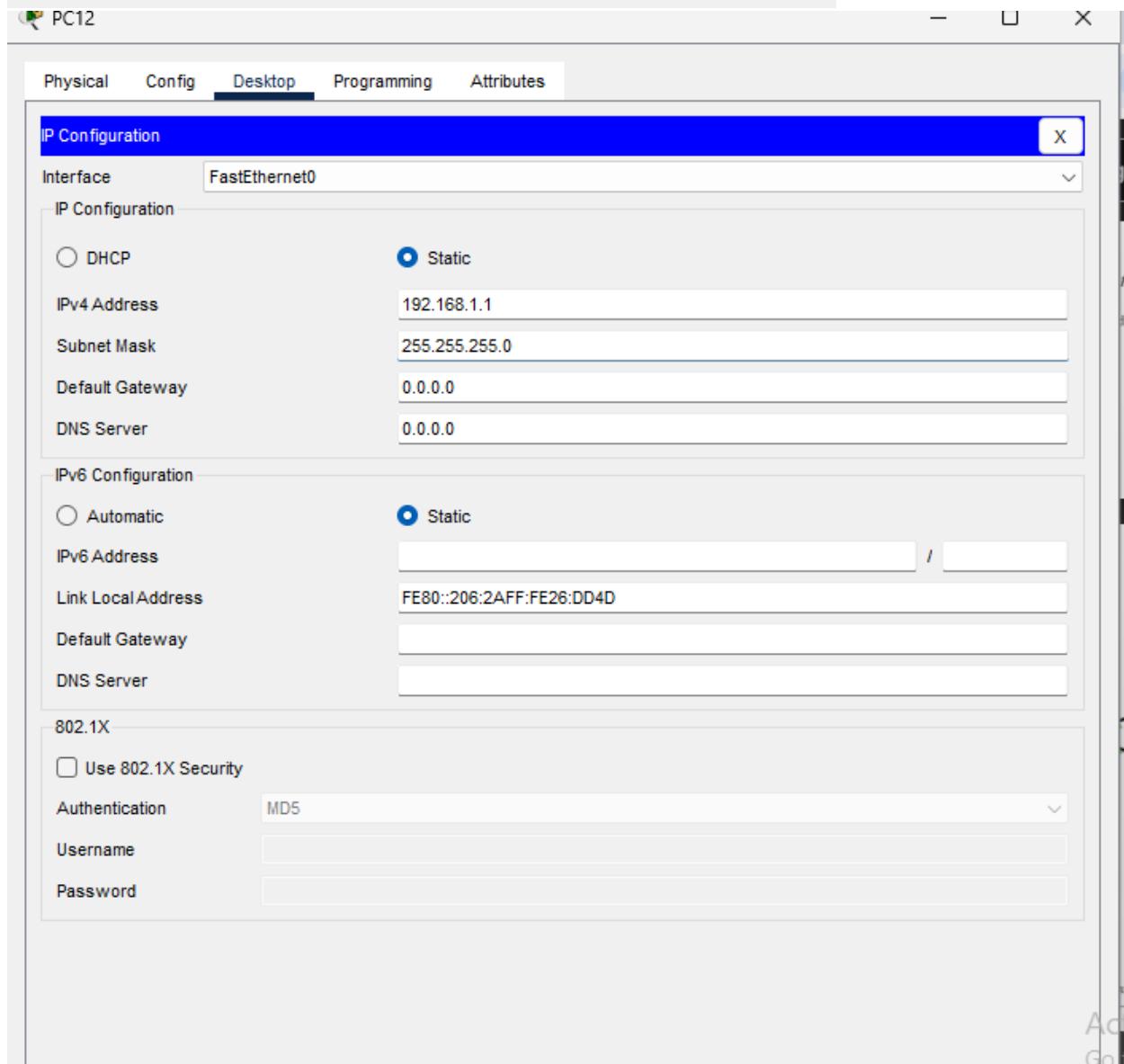
```
C:\>ping 2001:db8:1::4

Pinging 2001:db8:1::4 with 32 bytes of data:

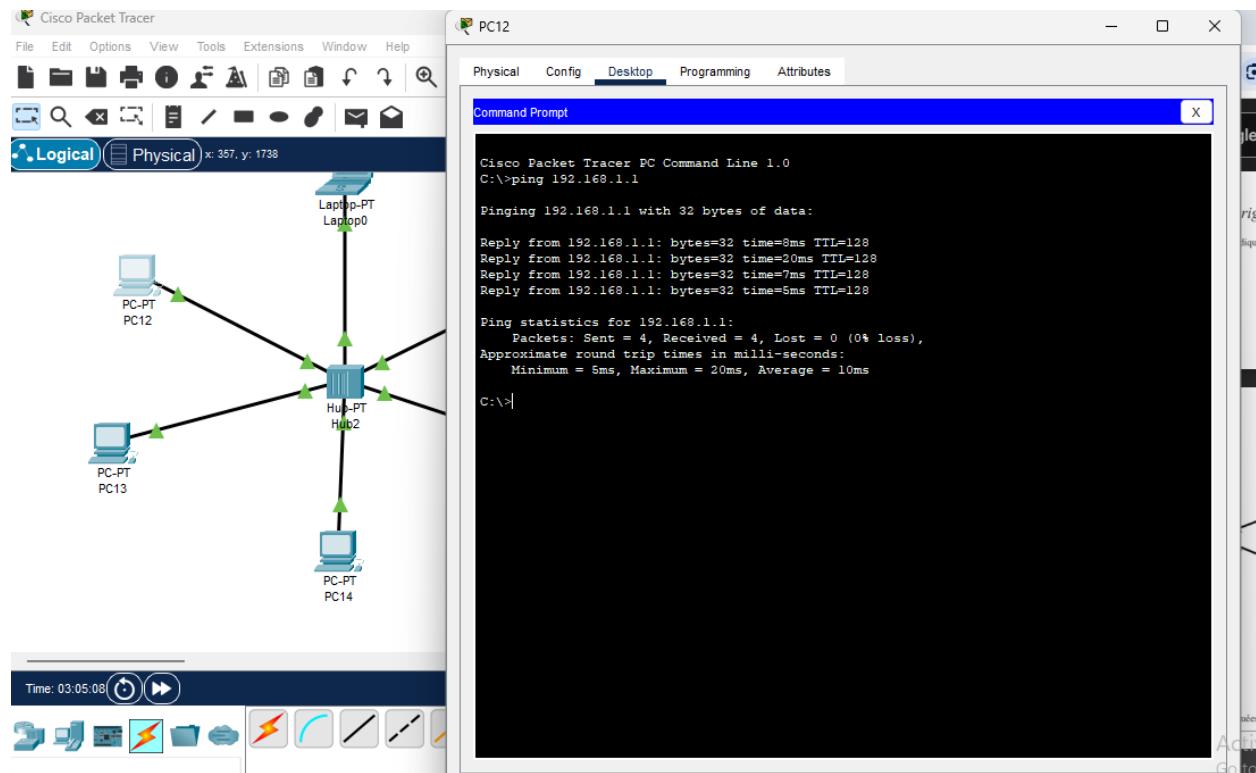
Reply from 2001:DB8:1::4: bytes=32 time<1ms TTL=128
Reply from 2001:DB8:1::4: bytes=32 time=6ms TTL=128
Reply from 2001:DB8:1::4: bytes=32 time=6ms TTL=128
Reply from 2001:DB8:1::4: bytes=32 time=1ms TTL=128

Ping statistics for 2001:DB8:1::4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 6ms, Average = 3ms

C:\>
```



1. Reproduisez cette topologie en configurant les adresses IPV4 indiquées dans le tableau ci-dessous puis vérifiez la connectivité.



PC16

Physical Config Desktop Programming Attributes

### IP Configuration

Interface: FastEthernet0

IP Configuration

DHCP  Static

IPv4 Address: 192.168.1.2

Subnet Mask: 255.255.255.0

Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

IPv6 Configuration

Automatic  Static

IPv6 Address: /

Link Local Address: FE80::210:11FF:FE82:4351

Default Gateway:

DNS Server:

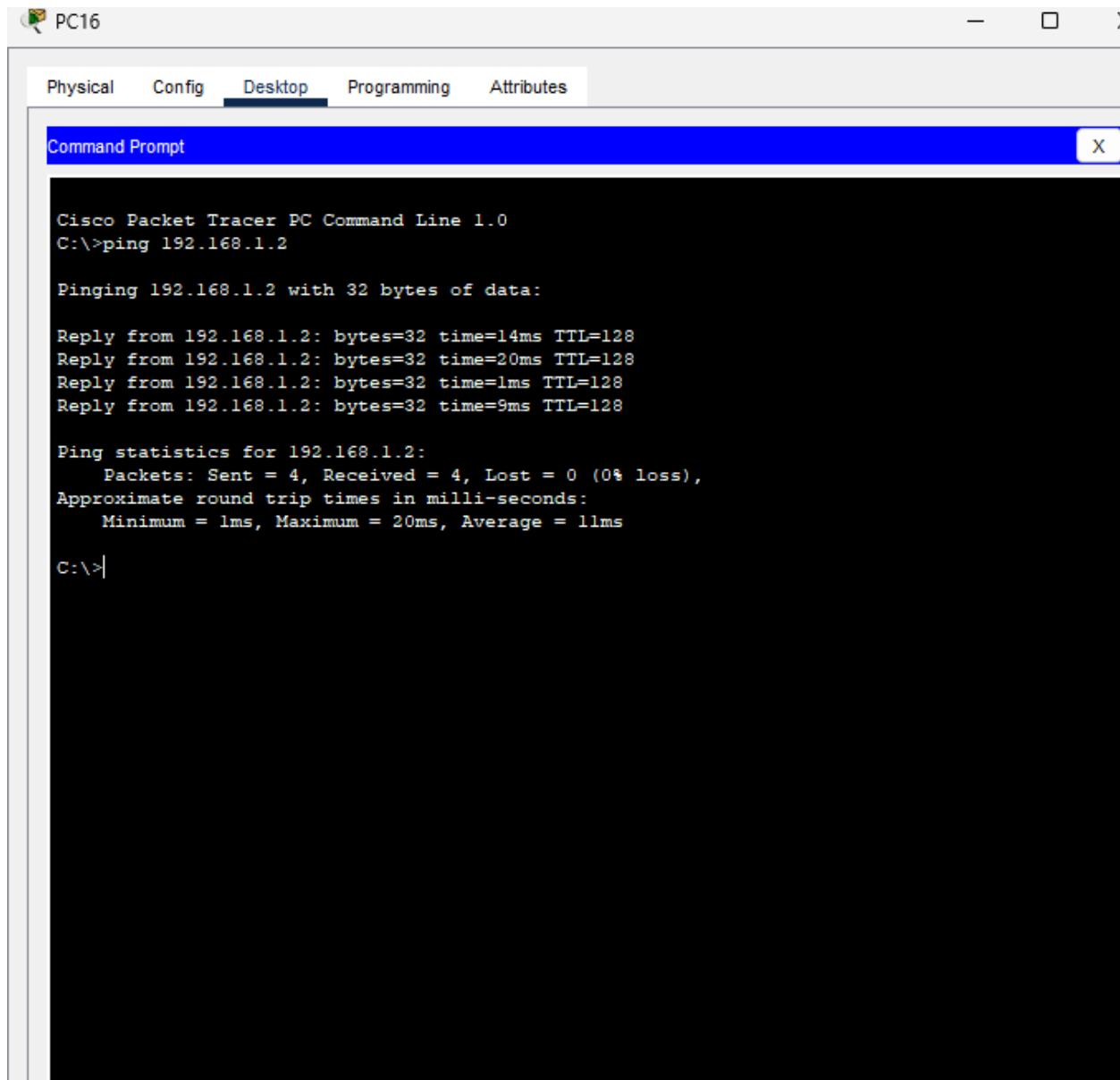
802.1X

Use 802.1X Security

Authentication: MD5

Username:

Password:



Laptop0

Physical Config Desktop Programming Attributes

### IP Configuration

Interface: FastEthernet0

IP Configuration

DHCP  Static

IPv4 Address: 192.168.1.3

Subnet Mask: 255.255.255.0

Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

IPv6 Configuration

Automatic  Static

IPv6 Address: [ ] / [ ]

Link Local Address: FE80::201:42FF:FEC3:4444

Default Gateway: [ ]

DNS Server: [ ]

802.1X

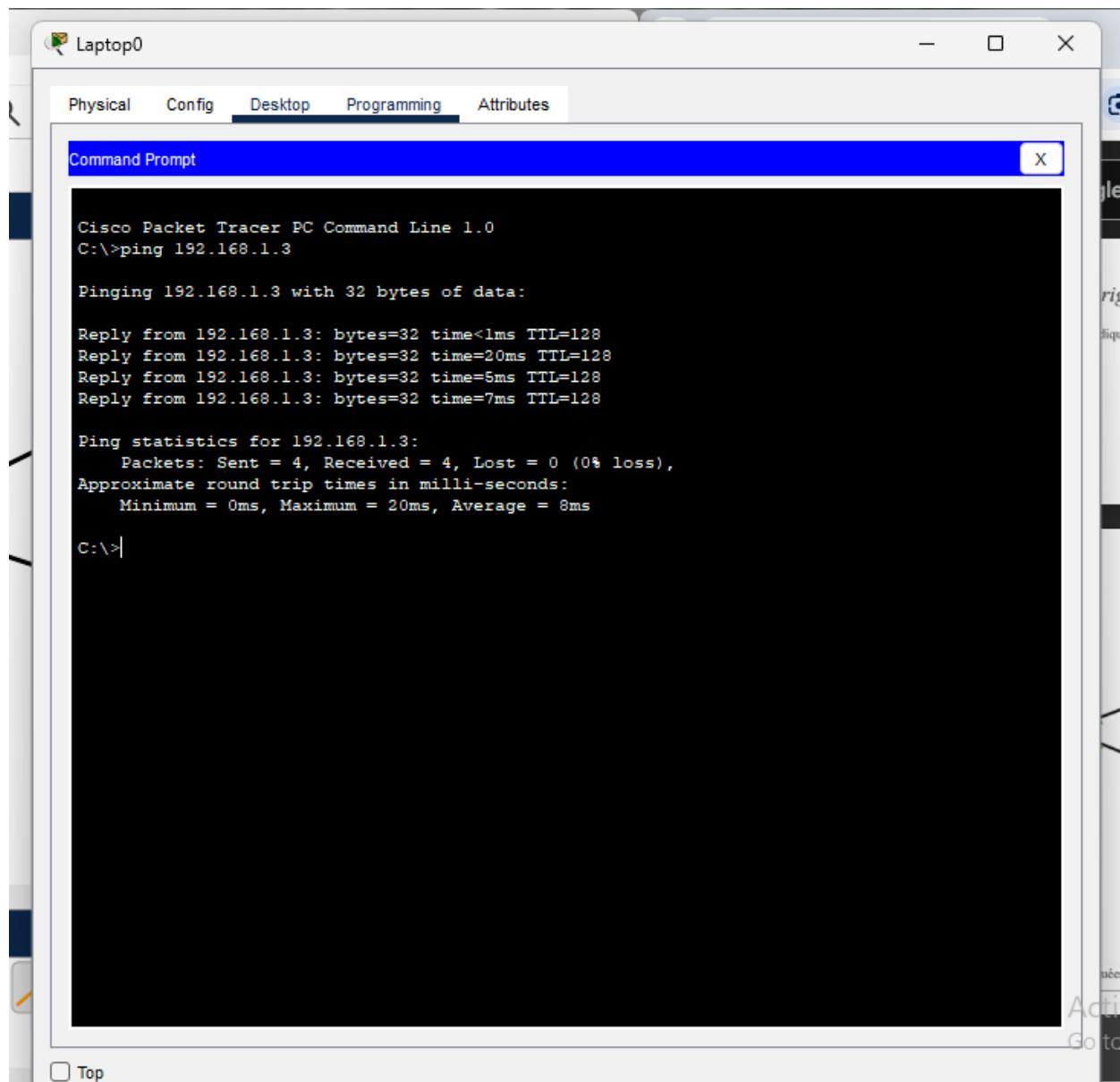
Use 802.1X Security

Authentication: MD5

Username: [ ]

Password: [ ]

Top



PC14

Physical Config Desktop Programming Attributes

### IP Configuration

Interface: FastEthernet0

IP Configuration

DHCP  Static

IPv4 Address: 192.168.1.4

Subnet Mask: 255.255.255.0

Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

IPv6 Configuration

Automatic  Static

IPv6 Address: /

Link Local Address: FE80::204:9AFF:FEBC:4AA5

Default Gateway:

DNS Server:

802.1X

Use 802.1X Security

Authentication: MD5

Username:

Password:

PC14

Physical Config Desktop Programming Attributes

Command Prompt X

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.4

Pinging 192.168.1.4 with 32 bytes of data:

Reply from 192.168.1.4: bytes=32 time<1ms TTL=128
Reply from 192.168.1.4: bytes=32 time=5ms TTL=128
Reply from 192.168.1.4: bytes=32 time<1ms TTL=128
Reply from 192.168.1.4: bytes=32 time=19ms TTL=128

Ping statistics for 192.168.1.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 19ms, Average = 6ms

C:\>
```

PC15

Physical Config Desktop Programming Attributes

**IP Configuration**

Interface: FastEthernet0

IP Configuration

DHCP  Static

IPv4 Address: 192.168.1.5

Subnet Mask: 255.255.255.0

Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

IPv6 Configuration

Automatic  Static

IPv6 Address: /

Link Local Address: FE80::203:E4FF:FE01:E8DD

Default Gateway:

DNS Server:

802.1X

Use 802.1X Security

Authentication: MD5

Username:

Password:

Top

A  
G

PC15

Physical Config Desktop Programming Attributes

Command Prompt X

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.5

Pinging 192.168.1.5 with 32 bytes of data:

Reply from 192.168.1.5: bytes=32 time<1ms TTL=128
Reply from 192.168.1.5: bytes=32 time=2ms TTL=128
Reply from 192.168.1.5: bytes=32 time=1ms TTL=128
Reply from 192.168.1.5: bytes=32 time=1ms TTL=128

Ping statistics for 192.168.1.5:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 2ms, Average = 1ms

C:\>
```

PC13

Physical Config Desktop **Programming** Attributes

**IP Configuration**

Interface: FastEthernet0

IP Configuration

DHCP  Static

IPv4 Address: 192.168.1.6

Subnet Mask: 255.255.255.0

Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

IPv6 Configuration

Automatic  Static

IPv6 Address: [ ] / [ ]

Link Local Address: FE80::204:9AFF:FE12:CE2D

Default Gateway: [ ]

DNS Server: [ ]

802.1X

Use 802.1X Security

Authentication: MD5

Username: [ ]

Password: [ ]

PC13

Physical Config Desktop Programming Attributes

Command Prompt X

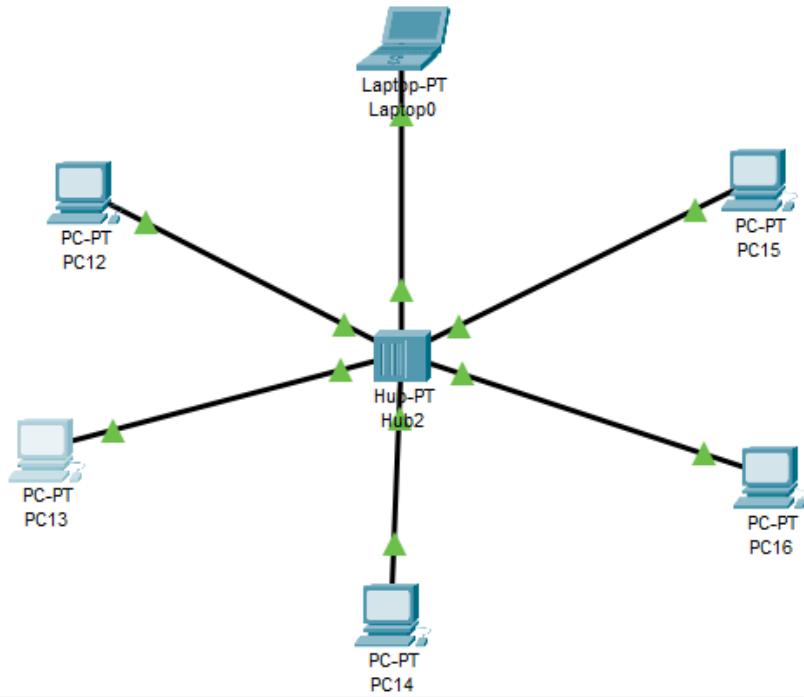
```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.6

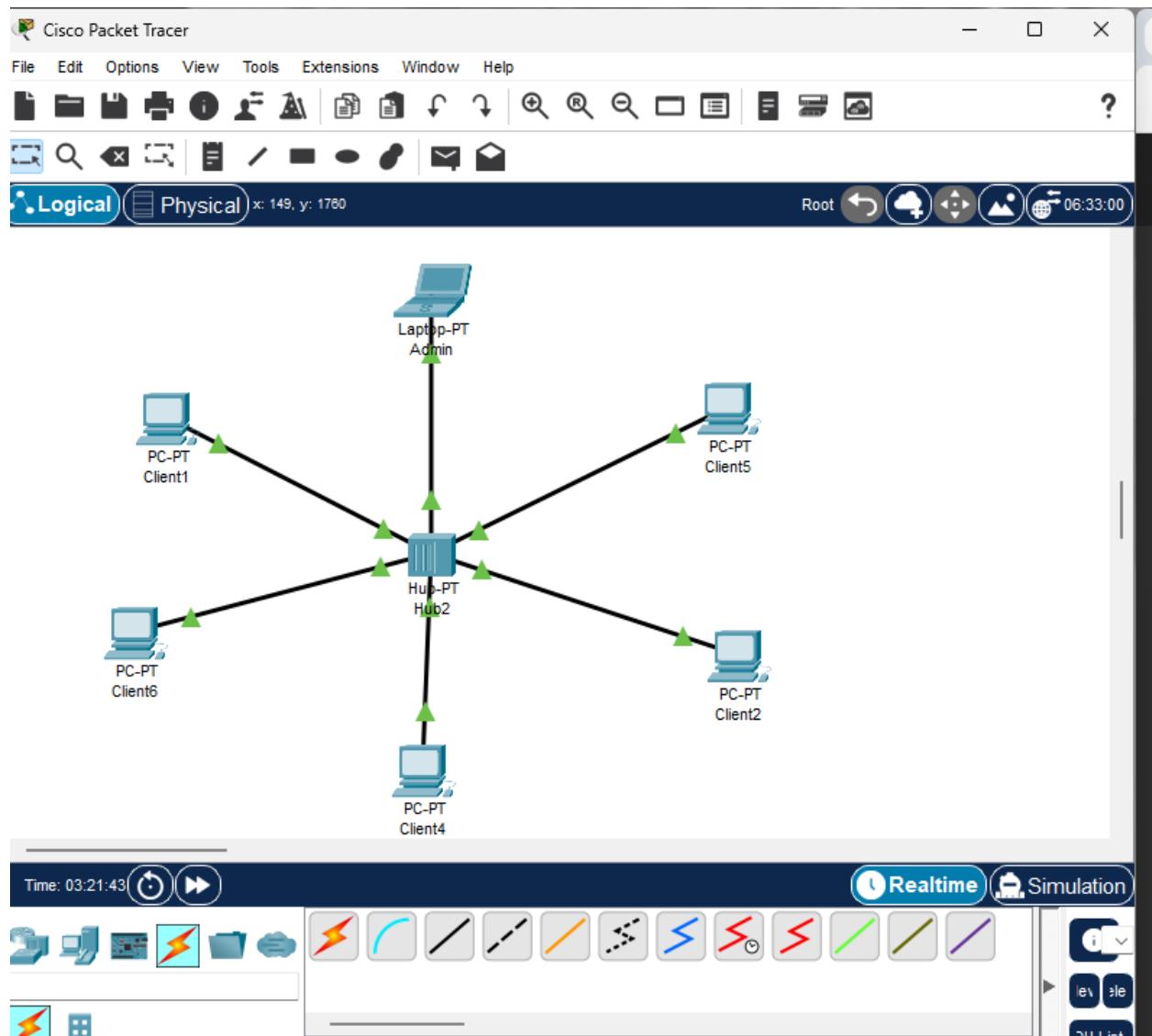
Pinging 192.168.1.6 with 32 bytes of data:

Reply from 192.168.1.6: bytes=32 time=13ms TTL=128
Reply from 192.168.1.6: bytes=32 time=7ms TTL=128
Reply from 192.168.1.6: bytes=32 time=19ms TTL=128
Reply from 192.168.1.6: bytes=32 time=1ms TTL=128

Ping statistics for 192.168.1.6:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 19ms, Average = 10ms

C:\>
```





PC19

Physical Config Desktop Programming Attributes

**IP Configuration**

Interface: FastEthernet0

IP Configuration

DHCP  Static

IPv4 Address: 192.168.1.1

Subnet Mask: 255.255.255.0

Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

IPv6 Configuration

Automatic  Static

IPv6 Address: /

Link Local Address: FE80::2E0:F7FF:FE54:632C

Default Gateway:

DNS Server:

802.1X

Use 802.1X Security

Authentication: MD5

Username:

Password:

Top

Ac Go

PC19

Physical Config Desktop Programming Attributes

Command Prompt X

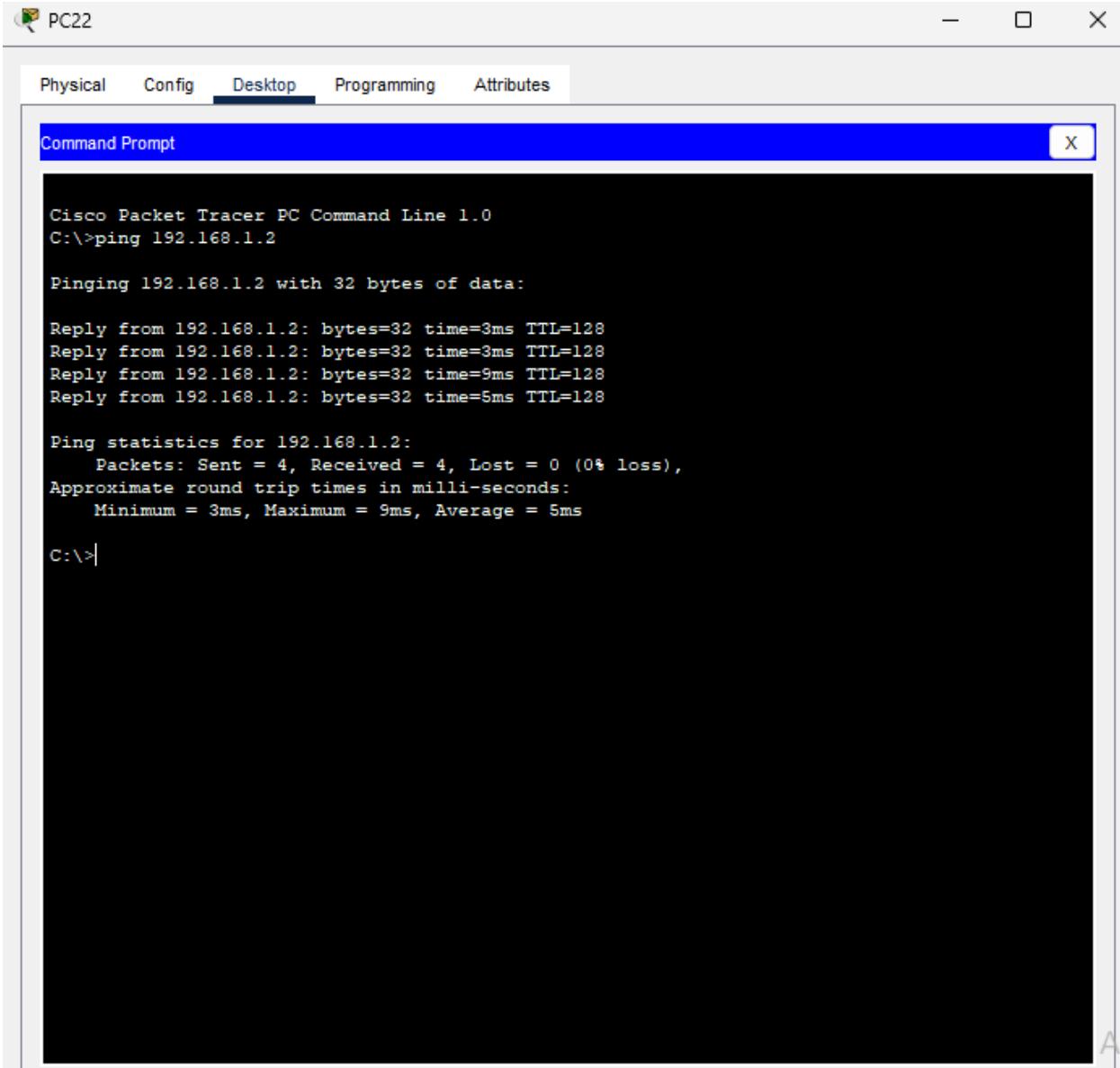
```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.1

Pinging 192.168.1.1 with 32 bytes of data:

Reply from 192.168.1.1: bytes=32 time=20ms TTL=128
Reply from 192.168.1.1: bytes=32 time=6ms TTL=128
Reply from 192.168.1.1: bytes=32 time=8ms TTL=128
Reply from 192.168.1.1: bytes=32 time=6ms TTL=128

Ping statistics for 192.168.1.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 6ms, Maximum = 20ms, Average = 10ms

C:\>
```



Laptop1

Physical Config Desktop Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

DHCP  Static

IPv4 Address 192.168.1.3

Subnet Mask 255.255.255.0

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

Automatic  Static

IPv6 Address /

Link Local Address FE80::2E0:F7FF:FEC8:AED4

Default Gateway

DNS Server

802.1X

Use 802.1X Security

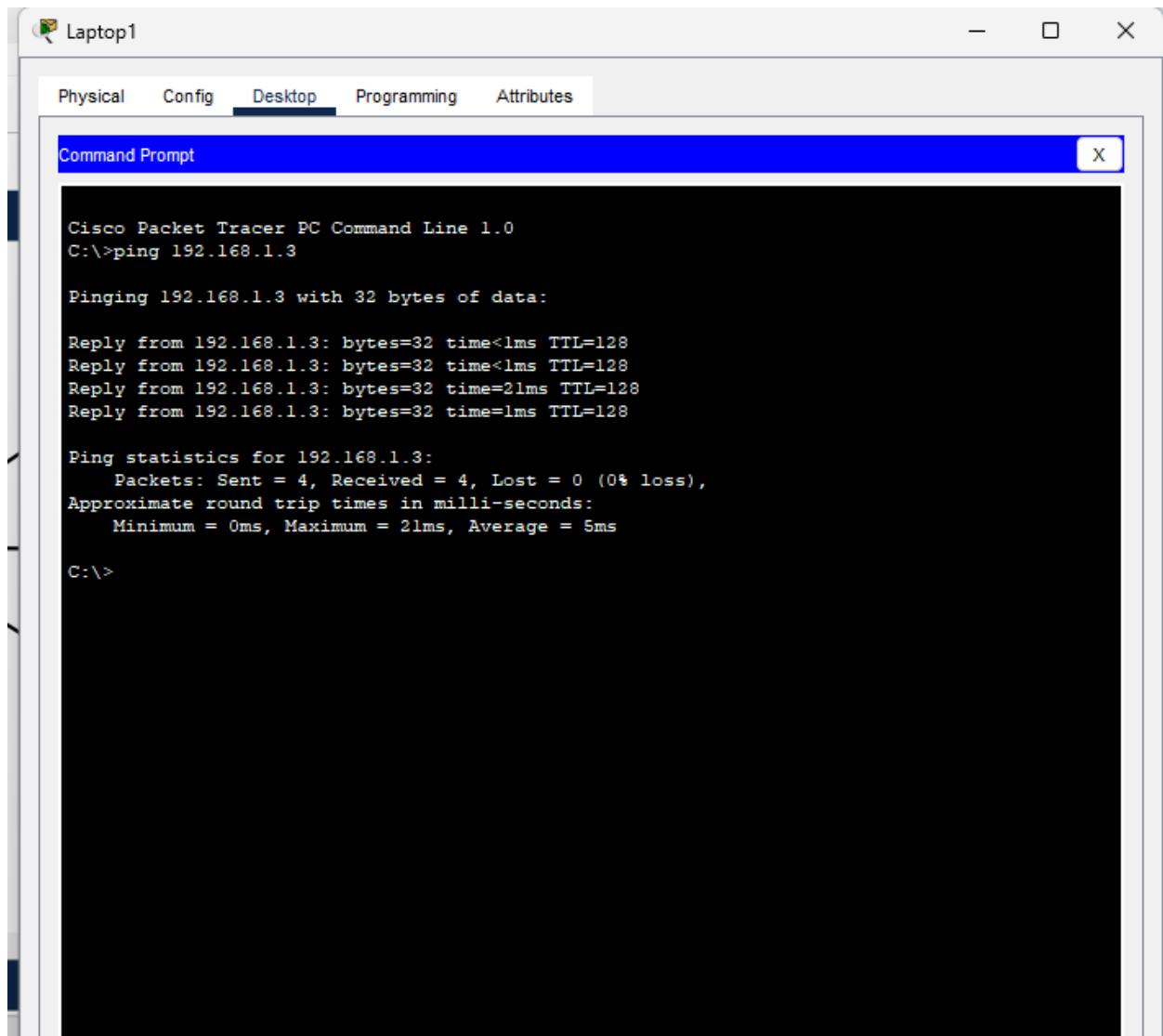
Authentication MD5

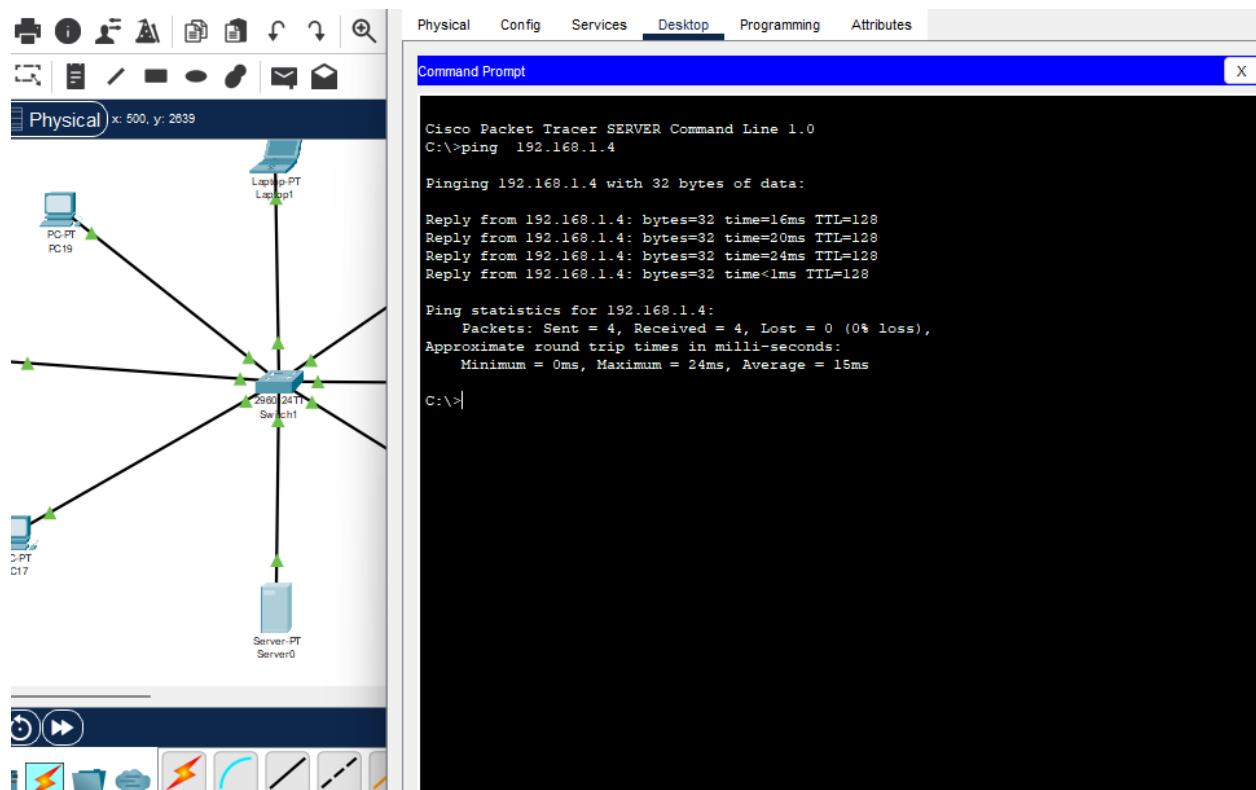
Username

Password

Top

Ad Go





PC20

Physical Config Desktop **Attributes**

**IP Configuration**

Interface: FastEthernet0

IP Configuration

DHCP  Static

IPv4 Address: 192.168.1.5

Subnet Mask: 255.255.255.0

Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

IPv6 Configuration

Automatic  Static

IPv6 Address: /

Link Local Address: FE80::207:ECFF:FE67:3B

Default Gateway:

DNS Server:

802.1X

Use 802.1X Security

Authentication: MD5

Username:

Password:

PC20

Physical Config Desktop Programming Attributes

Command Prompt X

```
Cisco Packet Tracer PC Command Line 1.0
C:\> ping 192.168.1.5

Pinging 192.168.1.5 with 32 bytes of data:

Reply from 192.168.1.5: bytes=32 time<1ms TTL=128
Reply from 192.168.1.5: bytes=32 time=1ms TTL=128
Reply from 192.168.1.5: bytes=32 time=23ms TTL=128
Reply from 192.168.1.5: bytes=32 time=1ms TTL=128

Ping statistics for 192.168.1.5:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 23ms, Average = 6ms

C:\>|
```

PC17

Physical Config Desktop Programming Attributes

### IP Configuration

X

Interface: FastEthernet0

IP Configuration

DHCP  Static

IPv4 Address: 192.168.1.6

Subnet Mask: 255.255.255.0

Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

IPv6 Configuration

Automatic  Static

IPv6 Address: [empty]

Link Local Address: FE80::2E0:A3FF:FE44:B19E

Default Gateway: [empty]

DNS Server: [empty]

802.1X

Use 802.1X Security

Authentication: MD5

Username: [empty]

Password: [empty]

PC17

Physical Config Desktop Programming Attributes

**IP Configuration**

Interface: FastEthernet0

IP Configuration

DHCP  Static

IPv4 Address: 192.168.1.6

Subnet Mask: 255.255.255.0

Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

IPv6 Configuration

Automatic  Static

IPv6 Address: /

Link Local Address: FE80::2E0:A3FF:FE44:B19E

Default Gateway:

DNS Server:

802.1X

Use 802.1X Security

Authentication: MD5

Username:

Password:

PC17

Physical Config Desktop Programming Attributes

Command Prompt X

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.6

Pinging 192.168.1.6 with 32 bytes of data:

Reply from 192.168.1.6: bytes=32 time<1ms TTL=128
Reply from 192.168.1.6: bytes=32 time<1ms TTL=128
Reply from 192.168.1.6: bytes=32 time=9ms TTL=128
Reply from 192.168.1.6: bytes=32 time=20ms TTL=128

Ping statistics for 192.168.1.6:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 20ms, Average = 7ms

C:\>
```

PC18

Physical Config Desktop Programming Attributes

### IP Configuration

Interface: FastEthernet0

IP Configuration

DHCP  Static

IPv4 Address: 192.168.1.7

Subnet Mask: 255.255.255.0

Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

IPv6 Configuration

Automatic  Static

IPv6 Address: /

Link Local Address: FE80::260:2FFF:FE3E:792E

Default Gateway:

DNS Server:

802.1X

Use 802.1X Security

Authentication: MDS

Username:

Password:

PC18

Physical Config Desktop Programming Attributes

Command Prompt

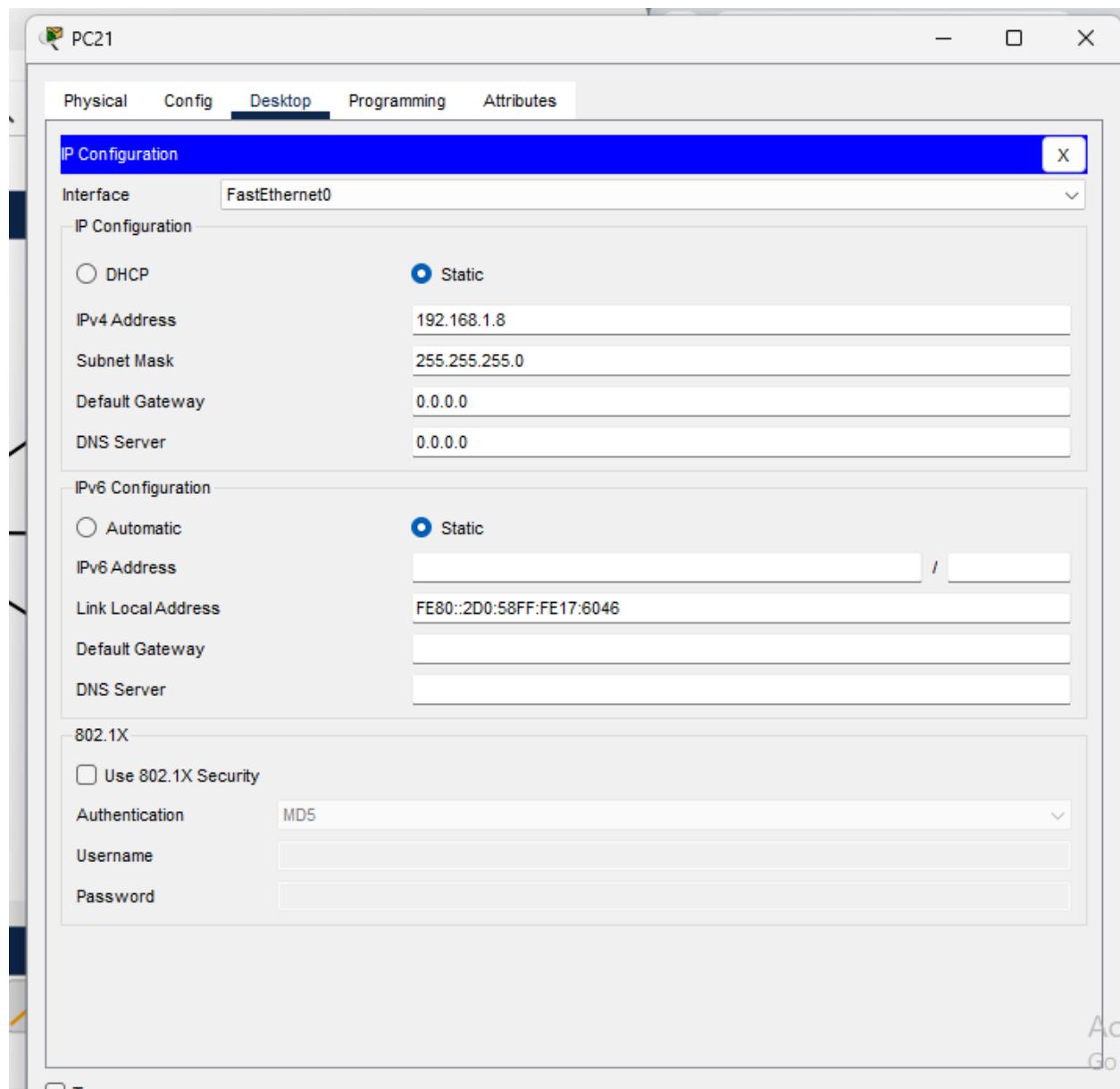
```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.7

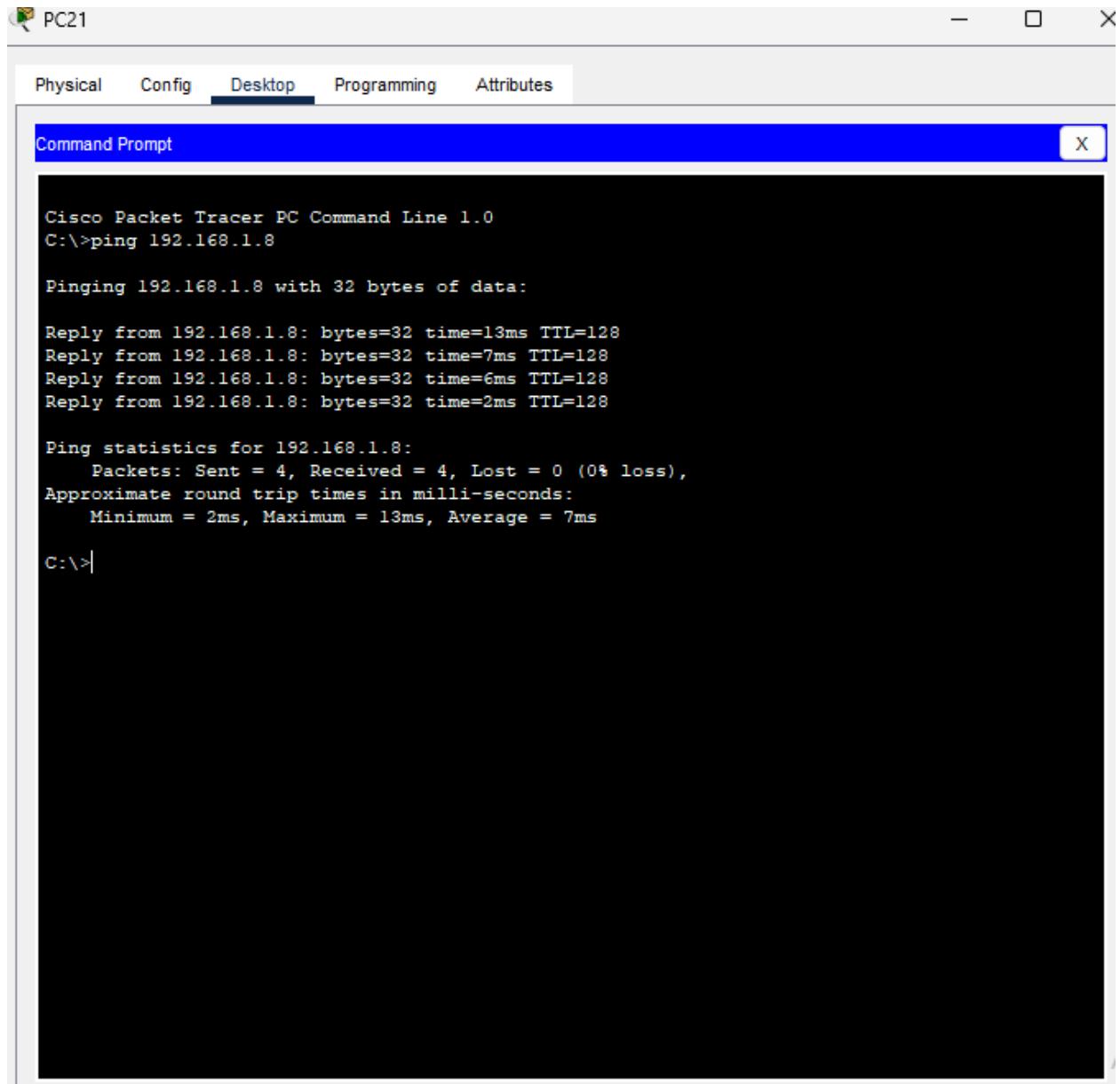
Pinging 192.168.1.7 with 32 bytes of data:

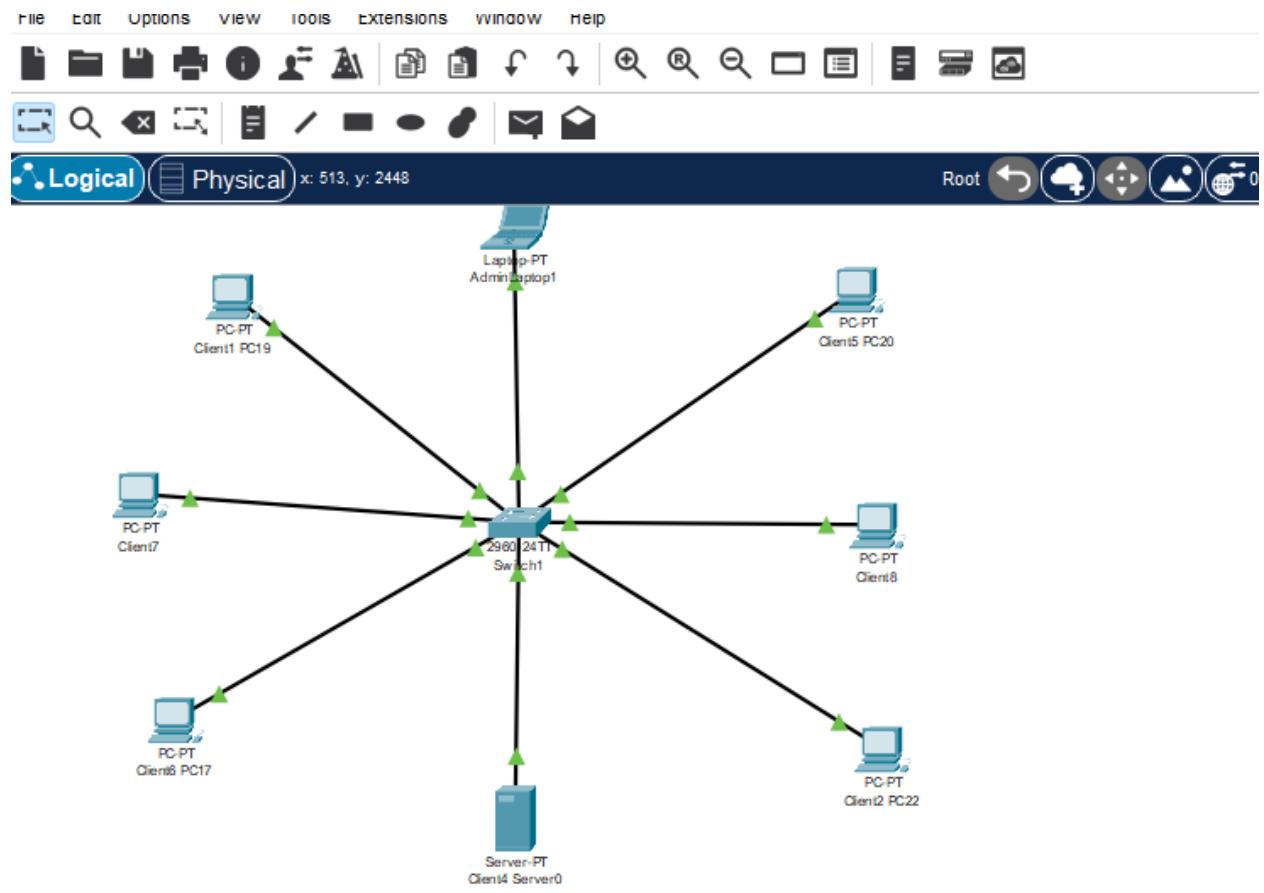
Reply from 192.168.1.7: bytes=32 time<1ms TTL=128
Reply from 192.168.1.7: bytes=32 time=2ms TTL=128
Reply from 192.168.1.7: bytes=32 time=20ms TTL=128
Reply from 192.168.1.7: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.1.7:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 20ms, Average = 5ms

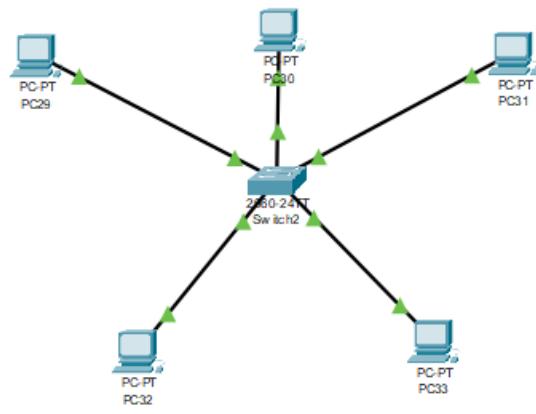
C:\>
```







2. Reproduisez cette topologie en configurant les adresses IPV4 indiquées dans le tableau ci-dessous, puis vérifiez la connectivité.



Time: 04:36:22

Realtime Simulation

3.Je choisis la topologie en bus,pour configurer les adresses IPV4 tout en testant la connectivité.

PC29

Physical Config Desktop Programming Attributes

### IP Configuration

Interface: FastEthernet0

IP Configuration

DHCP  Static

IPv4 Address: 192.168.1.1

Subnet Mask: 255.255.255.0

Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

IPv6 Configuration

Automatic  Static

IPv6 Address: /

Link Local Address: FE80::207:ECFF:FE94:81EA

Default Gateway:

DNS Server:

802.1X

Use 802.1X Security

Authentication: MD5

Username:

Password:

Top

PC29

Physical Config Desktop Programming Attributes

Command Prompt X

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.1

Pinging 192.168.1.1 with 32 bytes of data:

Reply from 192.168.1.1: bytes=32 time=18ms TTL=128
Reply from 192.168.1.1: bytes=32 time=5ms TTL=128
Reply from 192.168.1.1: bytes=32 time<1ms TTL=128
Reply from 192.168.1.1: bytes=32 time=5ms TTL=128

Ping statistics for 192.168.1.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 18ms, Average = 7ms

C:\>
```

PC32

Physical Config Desktop Programming Attributes

### IP Configuration

Interface: FastEthernet0

IP Configuration

DHCP  Static

IPv4 Address: 192.168.1.2

Subnet Mask: 255.255.255.0

Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

IPv6 Configuration

Automatic  Static

IPv6 Address: /

Link Local Address: FE80::20A:41FF:FE57:AE0B

Default Gateway:

DNS Server:

802.1X

Use 802.1X Security

Authentication: MD5

Username:

Password:

PC32

Physical Config Desktop Programming Attributes

Command Prompt X

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.2

Pinging 192.168.1.2 with 32 bytes of data:

Reply from 192.168.1.2: bytes=32 time=17ms TTL=128
Reply from 192.168.1.2: bytes=32 time=3ms TTL=128
Reply from 192.168.1.2: bytes=32 time=4ms TTL=128
Reply from 192.168.1.2: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.1.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 17ms, Average = 6ms

C:\>|
```

PC33

Physical Config Desktop Programming Attributes

### IP Configuration

Interface: FastEthernet0

IP Configuration

DHCP  Static

IPv4 Address: 192.168.1.3

Subnet Mask: 255.255.255.0

Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

IPv6 Configuration

Automatic  Static

IPv6 Address: /

Link Local Address: FE80::2E0:8FFF:FE9D:6946

Default Gateway:

DNS Server:

802.1X

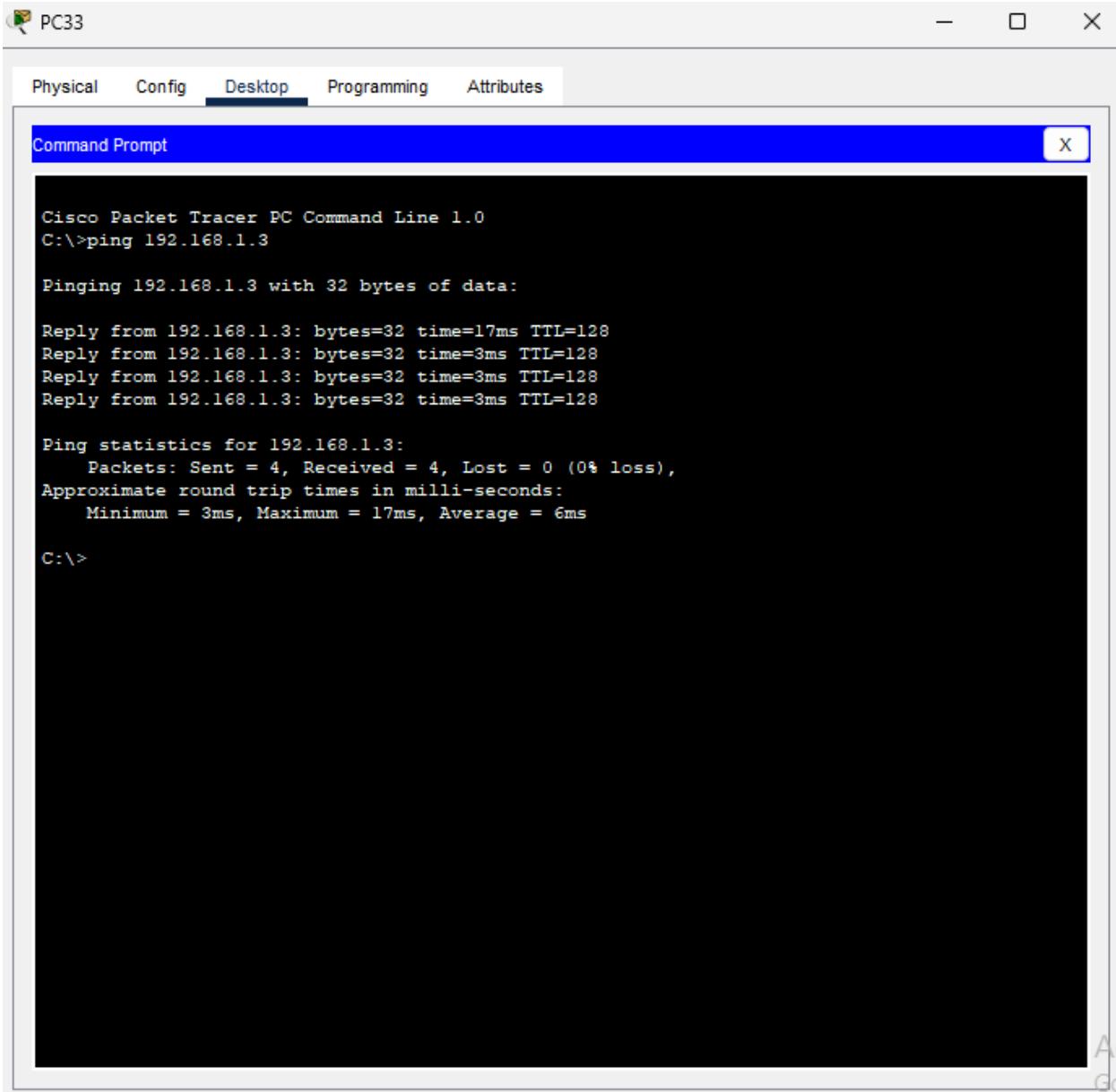
Use 802.1X Security

Authentication: MD5

Username:

Password:

Top



PC31

Physical Config Desktop Programming Attributes

### IP Configuration

Interface: FastEthernet0

IP Configuration

DHCP  Static

IPv4 Address: 192.168.1.4

Subnet Mask: 255.255.255.0

Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

IPv6 Configuration

Automatic  Static

IPv6 Address: /

Link Local Address: FE80::230:F2FF:FE5A:8E89

Default Gateway:

DNS Server:

802.1X

Use 802.1X Security

Authentication: MD5

Username:

Password:

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.4

Pinging 192.168.1.4 with 32 bytes of data:

Reply from 192.168.1.4: bytes=32 time=19ms TTL=128
Reply from 192.168.1.4: bytes=32 time=1ms TTL=128
Reply from 192.168.1.4: bytes=32 time=1ms TTL=128
Reply from 192.168.1.4: bytes=32 time=4ms TTL=128

Ping statistics for 192.168.1.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 19ms, Average = 6ms

C:\>
```

PC30

Physical Config Desktop Programming Attributes

### IP Configuration

Interface: FastEthernet0

IP Configuration

DHCP  Static

IPv4 Address: 192.168.1.5

Subnet Mask: 255.255.255.0

Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

IPv6 Configuration

Automatic  Static

IPv6 Address: FE80::2E0:F7FF:FE18:88BD

Link Local Address: FE80::2E0:F7FF:FE18:88BD

Default Gateway:

DNS Server:

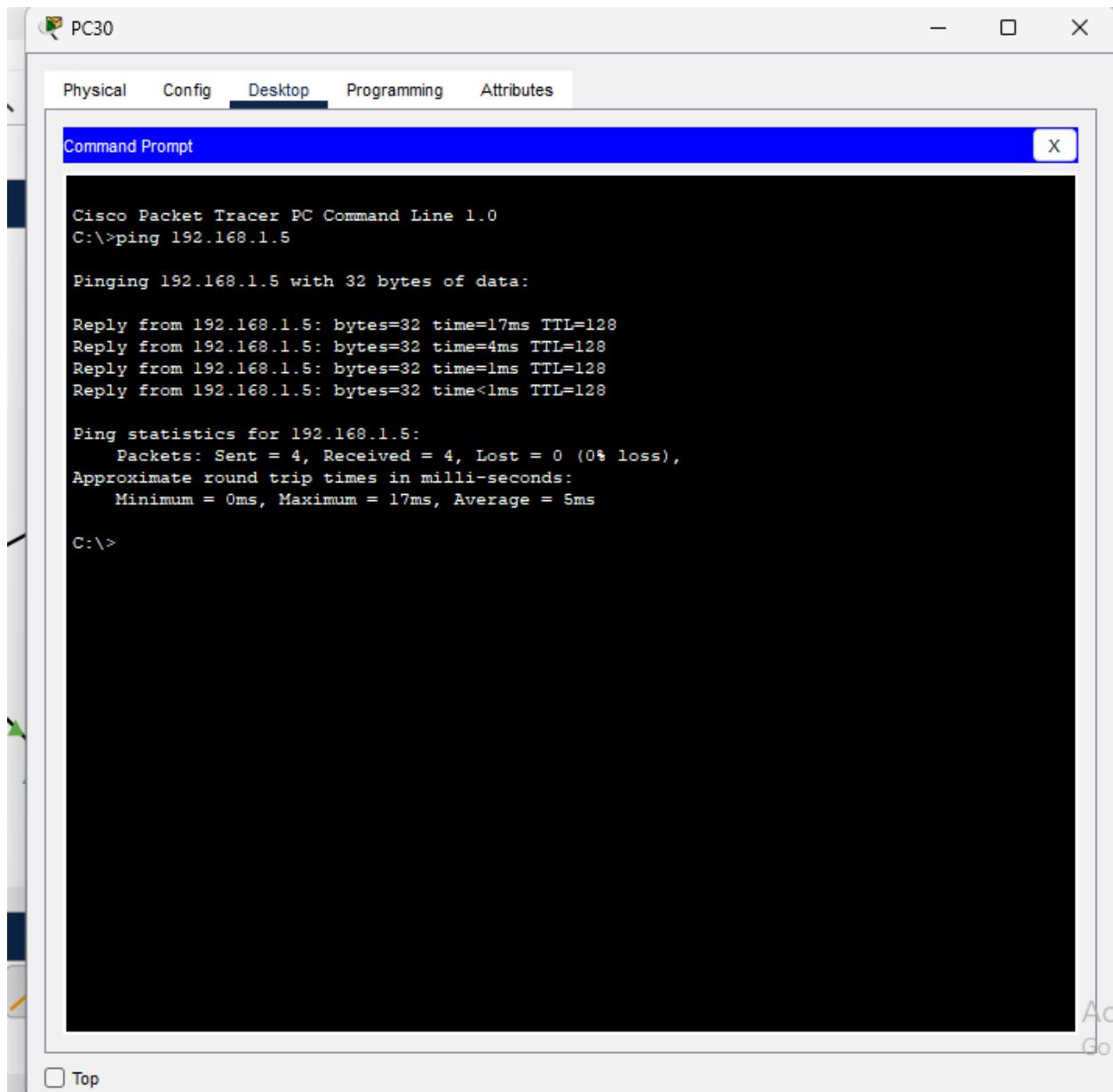
802.1X

Use 802.1X Security

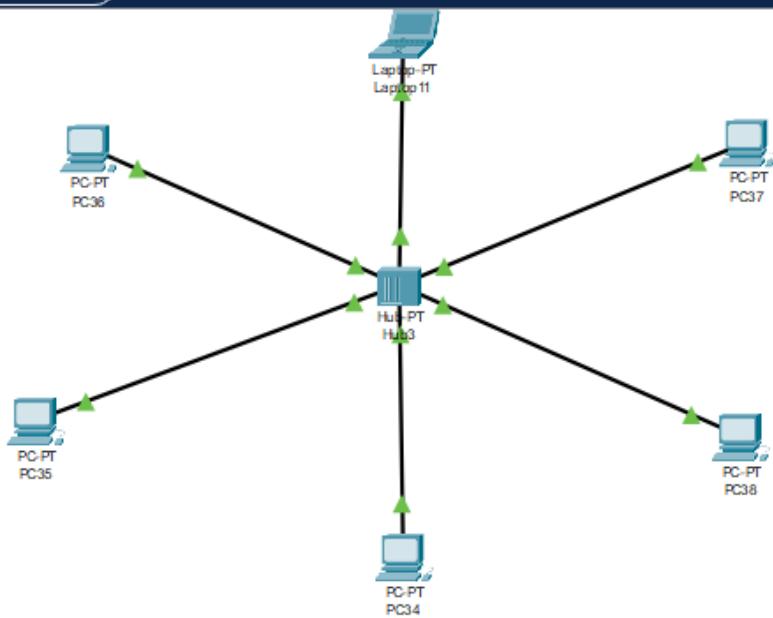
Authentication: MD5

Username:

Password:



**Logical** **Physical** x: 293, y: 3536 Root



PC30

Physical Config Desktop Programming Attributes

**IP Configuration**

Interface: FastEthernet0

IP Configuration

DHCP       Static

IPv4 Address: [ ]

Subnet Mask: [ ]

Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

IPv6 Configuration

Automatic       Static

IPv6 Address: 3000:is9:1::1 / 64

Link Local Address: FE80::2D0:D3FF:FE04:8CAB

Default Gateway: [ ]

DNS Server: [ ]

802.1X

Use 802.1X Security

Authentication: MD5

Username: [ ]

Password: [ ]

Top

PC36

Physical Config Desktop Programming Attributes

IP Configuration

Interface: FastEthernet0

IP Configuration

DHCP  Static

IPv4 Address: 192.168.1.1

Subnet Mask: 255.255.255.0

Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

IPv6 Configuration

Automatic  Static

IPv6 Address: 2001:DB8:1::13 / 64

Link Local Address: FE80::2D0:D3FF:FE04:8CAB

Default Gateway:

DNS Server:

802.1X

Use 802.1X Security

Authentication: MD5

Username:

Password:

Top

Search          

```
C:\> ping 3000:is9:1::10
Ping request could not find host 3000:is9:1::10. Please check the name and try again.
C:\>ping 2001:db8:1::13

Pinging 2001:db8:1::13 with 32 bytes of data:

Reply from 2001:DB8:1::13: bytes=32 time=8ms TTL=128
Reply from 2001:DB8:1::13: bytes=32 time=1ms TTL=128
Reply from 2001:DB8:1::13: bytes=32 time=8ms TTL=128
Reply from 2001:DB8:1::13: bytes=32 time<1ms TTL=128

Ping statistics for 2001:DB8:1::13:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 8ms, Average = 4ms

C:\>
```

PC38

Physical Config Desktop Programming Attributes

IP Configuration

Interface: FastEthernet0

IP Configuration

DHCP  Static

IPv4 Address: 192.168.1.2

Subnet Mask: 255.255.255.0

Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

IPv6 Configuration

Automatic  Static

IPv6 Address: 2001:DB8:1::14 /

Link LocalAddress: FE80::203:E4FF:FEB3:4C7B

Default Gateway:

DNS Server:

802.1X

Use 802.1X Security

Authentication: MD5

Username:

Password:

Top

Act  
Gott

Physical Config Desktop Programming Attributes

IP Configuration

Interface: FastEthernet0

IP Configuration

DHCP  Static

IPv4 Address: 192.168.1.2

Subnet Mask: 255.255.255.0

Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

IPv6 Configuration

Automatic  Static

IPv6 Address: 2001:DB8:1::14 / 64

Link Local Address: FE80::203:E4FF:FEB3:4C7B

Default Gateway:

DNS Server:

802.1X

Use 802.1X Security

Authentication: MD5

Username:

Password:

```
C:\>ping 2001:DB8:1::14

Pinging 2001:DB8:1::14 with 32 bytes of data:

Reply from 2001:DB8:1::14: bytes=32 time=17ms TTL=128
Reply from 2001:DB8:1::14: bytes=32 time=6ms TTL=128
Reply from 2001:DB8:1::14: bytes=32 time=1ms TTL=128
Reply from 2001:DB8:1::14: bytes=32 time=1ms TTL=128

Ping statistics for 2001:DB8:1::14:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 17ms, Average = 6ms

C:\>
```

Laptop11

Physical Config Desktop Programming Attributes

**IP Configuration**

Interface: FastEthernet0

IP Configuration

DHCP  Static

IPv4 Address: 192.168.1.3

Subnet Mask: 255.255.255.0

Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

IPv6 Configuration

Automatic  Static

IPv6 Address: 2001:DB8:1::15

Link Local Address: FE80::20A:41FF:FEAB:DB98

Default Gateway:

DNS Server:

802.1X

Use 802.1X Security

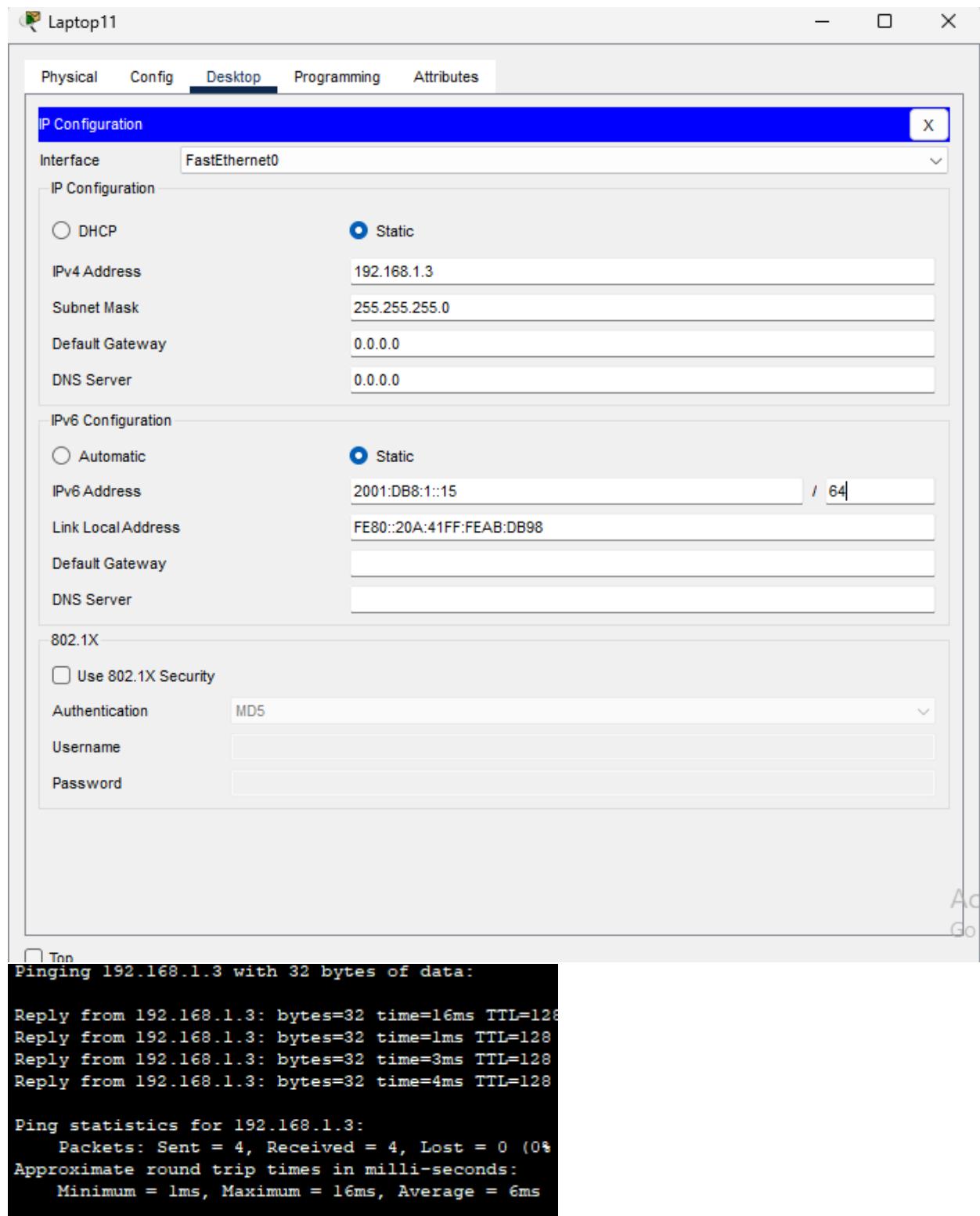
Authentication: MD5

Username:

Password:

Top

Ad Go



```
C:\>ping 192.168.1.3

Pinging 192.168.1.3 with 32 bytes of data:

Reply from 192.168.1.3: bytes=32 time=16ms TTL=128
Reply from 192.168.1.3: bytes=32 time=1ms TTL=128
Reply from 192.168.1.3: bytes=32 time=3ms TTL=128
Reply from 192.168.1.3: bytes=32 time=4ms TTL=128

Ping statistics for 192.168.1.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 16ms, Average = 6ms
```

```
C:\>ping 2001:DB8:1::15
```

```
C:\>ping 2001:DB8:1::15

Pinging 2001:DB8:1::15 with 32 bytes of data:

Reply from 2001:DB8:1::15: bytes=32 time=19ms TTL=128
Reply from 2001:DB8:1::15: bytes=32 time=1ms TTL=128
Reply from 2001:DB8:1::15: bytes=32 time=1ms TTL=128
Reply from 2001:DB8:1::15: bytes=32 time=2ms TTL=128

Ping statistics for 2001:DB8:1::15:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 19ms, Average = 5ms
```

PC34

Physical Config Desktop Programming Attributes

### IP Configuration

Interface: FastEthernet0

IP Configuration

DHCP  Static

IPv4 Address: 192.168.1.4

Subnet Mask: 255.255.255.0

Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

IPv6 Configuration

Automatic  Static

IPv6 Address: 2001:DB8:1::16 / 64

Link Local Address: FE80::20A:41FF:FE36:6B7E

Default Gateway:

DNS Server:

802.1X

Use 802.1X Security

Authentication: MD5

Username:

Password:

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.4

Pinging 192.168.1.4 with 32 bytes of data:

Reply from 192.168.1.4: bytes=32 time=19ms TTL=128
Reply from 192.168.1.4: bytes=32 time=4ms TTL=128
Reply from 192.168.1.4: bytes=32 time=4ms TTL=128
Reply from 192.168.1.4: bytes=32 time=1ms TTL=128

Ping statistics for 192.168.1.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 19ms, Average = 7ms
```

```
C:\>ping 2001:DB8:1::16

Pinging 2001:DB8:1::16 with 32 bytes of data:

Reply from 2001:DB8:1::16: bytes=32 time=17ms TTL=128
Reply from 2001:DB8:1::16: bytes=32 time=4ms TTL=128
Reply from 2001:DB8:1::16: bytes=32 time=10ms TTL=128
Reply from 2001:DB8:1::16: bytes=32 time=3ms TTL=128

Ping statistics for 2001:DB8:1::16:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 3ms, Maximum = 17ms, Average = 8ms
```

PC37

Physical Config Desktop Programming Attributes

**IP Configuration**

Interface: FastEthernet0

IP Configuration

DHCP  Static

IPv4 Address: 192.168.1.5

Subnet Mask: 255.255.255.0

Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

IPv6 Configuration

Automatic  Static

IPv6 Address: 2001:DB8:1::17 / 64

Link Local Address: FE80::201:96FF:FEC9:3862

Default Gateway:

DNS Server:

802.1X

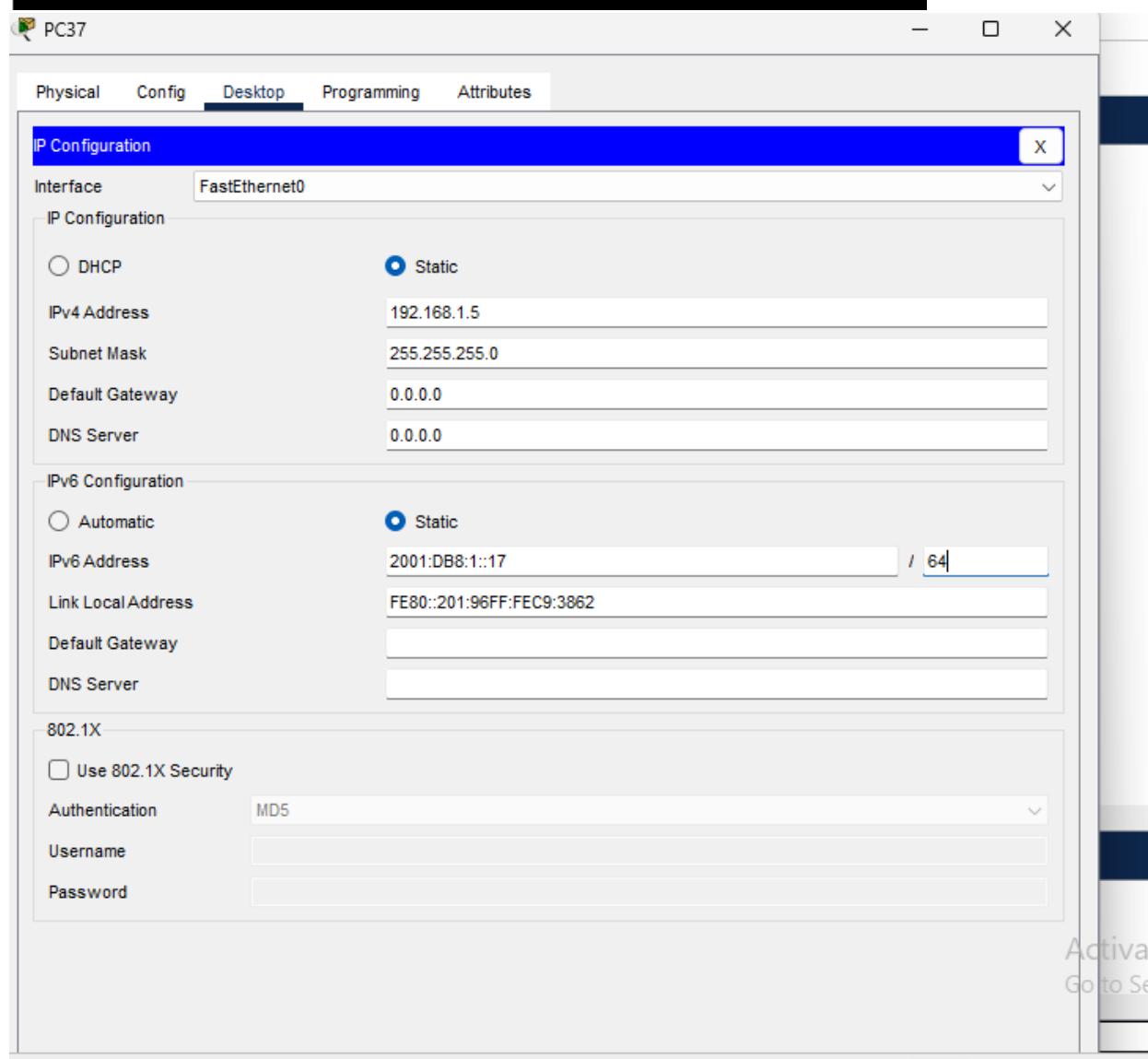
Use 802.1X Security

Authentication: MD5

Username:

Password:

Activat  
Go to Set



PC37

Physical Config Desktop Programming Attributes

Command Prompt X

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.5

Pinging 192.168.1.5 with 32 bytes of data:

Reply from 192.168.1.5: bytes=32 time=19ms TTL=128
Reply from 192.168.1.5: bytes=32 time=4ms TTL=128
Reply from 192.168.1.5: bytes=32 time=11ms TTL=128
Reply from 192.168.1.5: bytes=32 time=2ms TTL=128

Ping statistics for 192.168.1.5:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 19ms, Average = 9ms

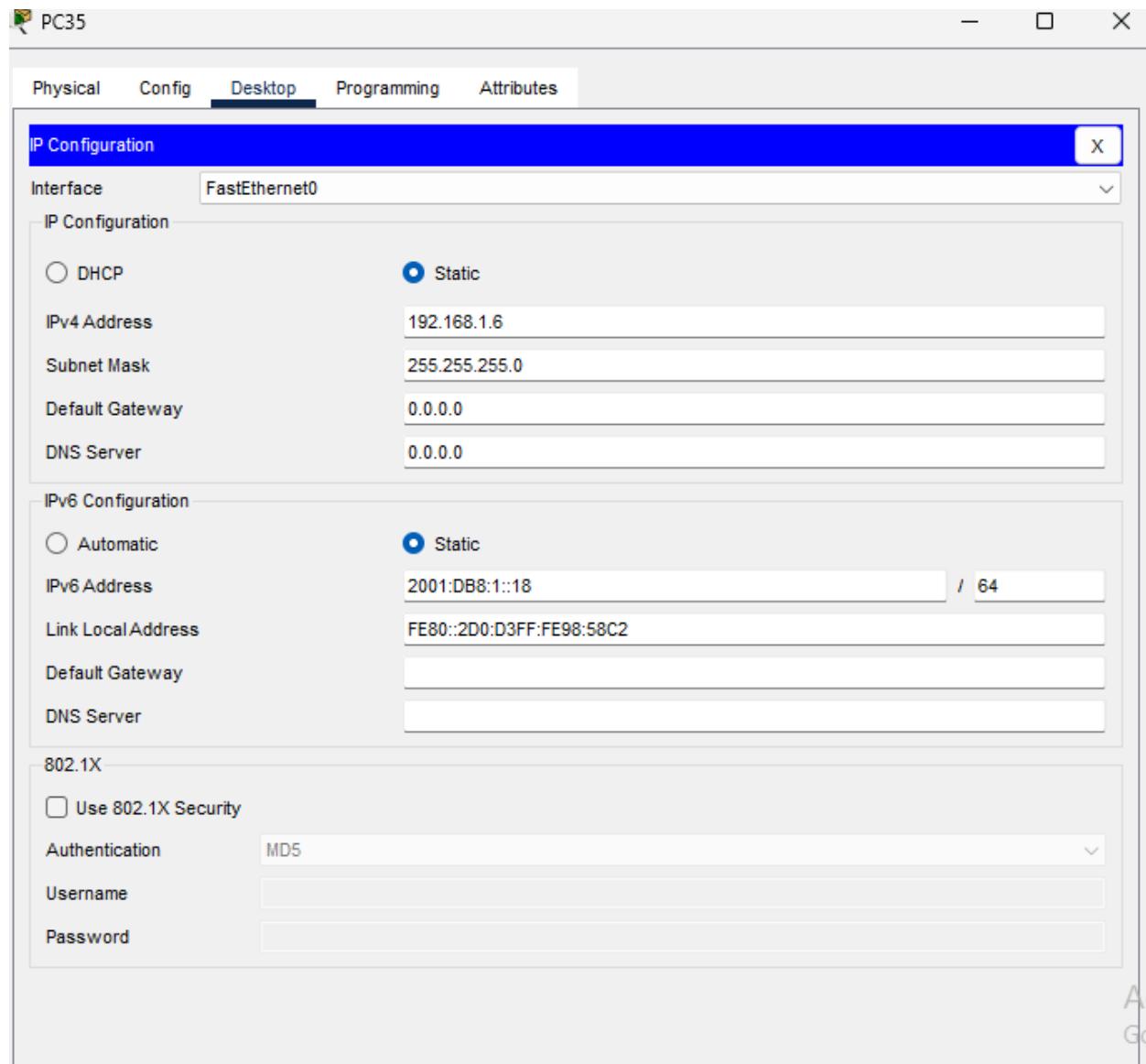
C:\>ping 2001:DB8:1::17

Pinging 2001:DB8:1::17 with 32 bytes of data:

Reply from 2001:DB8:1::17: bytes=32 time<1ms TTL=128
Reply from 2001:DB8:1::17: bytes=32 time=3ms TTL=128
Reply from 2001:DB8:1::17: bytes=32 time=4ms TTL=128
Reply from 2001:DB8:1::17: bytes=32 time=2ms TTL=128

Ping statistics for 2001:DB8:1::17:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 4ms, Average = 2ms

C:\>
```



```
C:\>ping 192.168.1.6

Pinging 192.168.1.6 with 32 bytes of data:

Reply from 192.168.1.6: bytes=32 time<1ms TTL=128
Reply from 192.168.1.6: bytes=32 time=3ms TTL=128
Reply from 192.168.1.6: bytes=32 time=2ms TTL=128
Reply from 192.168.1.6: bytes=32 time=4ms TTL=128

Ping statistics for 192.168.1.6:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 4ms, Average = 2ms
```

```
C:\>ping 2001:DB8:1:18
Ping request could not find host 2001:DB8:1:18. Please check the name and try again.
C:\>ping 2001:DB8:1::18

Pinging 2001:DB8:1::18 with 32 bytes of data:

Reply from 2001:DB8:1::18: bytes=32 time<1ms TTL=128
Reply from 2001:DB8:1::18: bytes=32 time=4ms TTL=128
Reply from 2001:DB8:1::18: bytes=32 time=3ms TTL=128
Reply from 2001:DB8:1::18: bytes=32 time=1ms TTL=128

Ping statistics for 2001:DB8:1::18:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 4ms, Average = 2ms
```

Description des résultats de la tâche ;

Dans chaque partie de mon travail, j'ai tester étape par étape tout ce que je dois faire ,

La configuration, la connection et la reproduction des topologies.

Après, j'ai déposer les captures d'écran, l'un après l'autre , ainsi les topologies , juste pour démontrer ce que j'ai fais dans mon travail.

Pour conclure, après tout ce que je viens de faire dans mon travail c'était parfaitement bien, je suis parvenir à réussir les tâches l'un après l'autre, par contre j'ai rencontré un simple difficulté c'était dans la première étape lors de la configuration, toutefois je me suis rattraper de l'erreur et après j'ai continué normalement avec les autres. A chaque travaux dirigés, je deviens de plus en plus satisfait, car il m'aide à bien s'adapter avec le cours.