

INSTITUT UNIVERSITAIRE 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. IPv4

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

PC5

File

Physical

Config

Desktop

Programming

Attributes

IP Configuration

X

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::290:CFF:FEC9:AB49

Default Gateway

DNS Server

802.1X

Use 802.1X Security

Authentication

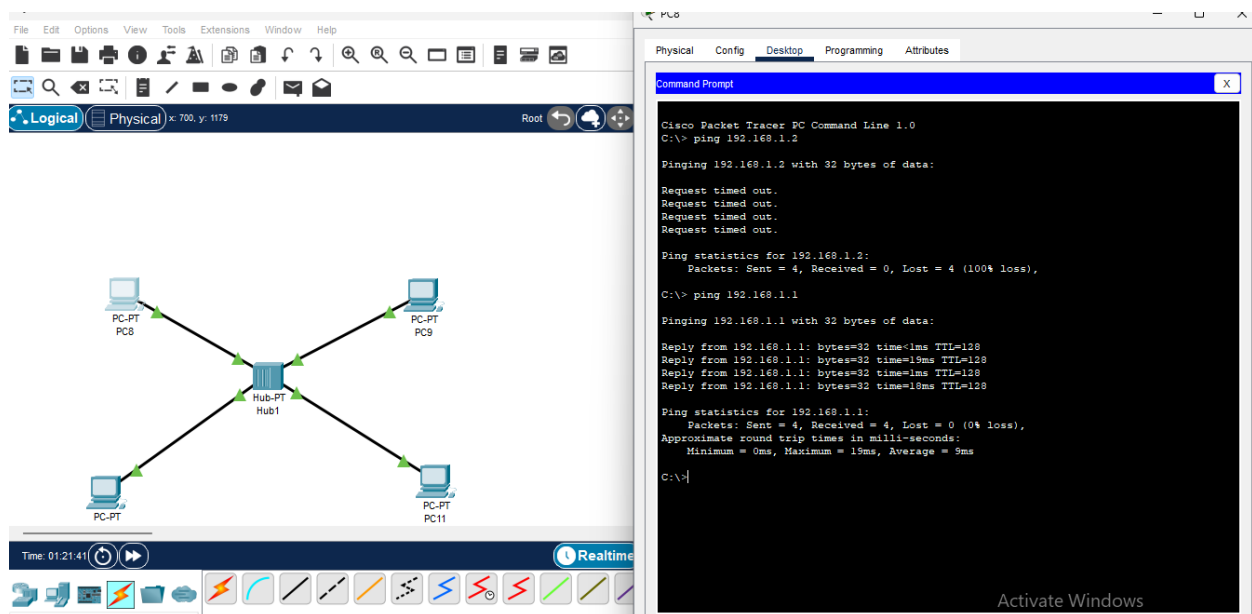
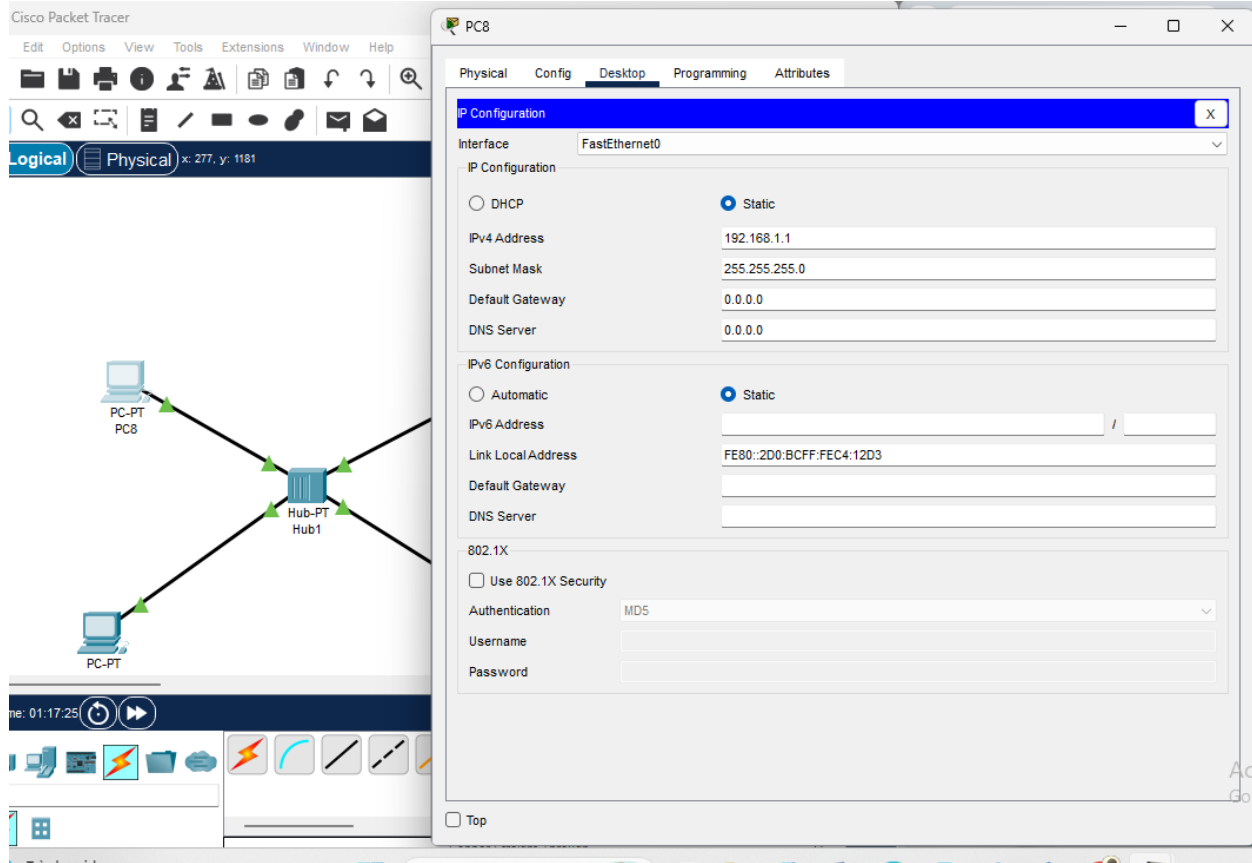
MD5

▼

Username

Password

Top



PC11

PhysicalConfigDesktopProgrammingAttributes

IP Configuration

InterfaceFastEthernet0

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::206:2AFF:FE5C:2809

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication

MD5

Username

Password

```
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:\>|
```

PC9

Physical Config Desktop Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☐ DHCP

☒ Static

IPv4 Address192.168.1.3

Subnet Mask255.255.255.0

Default Gateway0.0.0.0

DNS Server0.0.0.0

IPv6 Configuration

☐ Automatic

☒ Static

IPv6 Address /

Link Local AddressFE80::260:2FFF:FECA:13E3

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

AuthenticationMD5

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:\>
```




```
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=8ms TTL=128
Reply from 192.168.1.4: bytes=32 time=6ms TTL=128
Reply from 192.168.1.4: bytes=32 time=7ms TTL=128
Reply from 192.168.1.4: bytes=32 time=6ms 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 = 6ms, Maximum = 8ms, Average = 6ms

C:\>
```

File Edit Options View Tools Extensions Window Help

Logical Physical x: 647, y: 1242

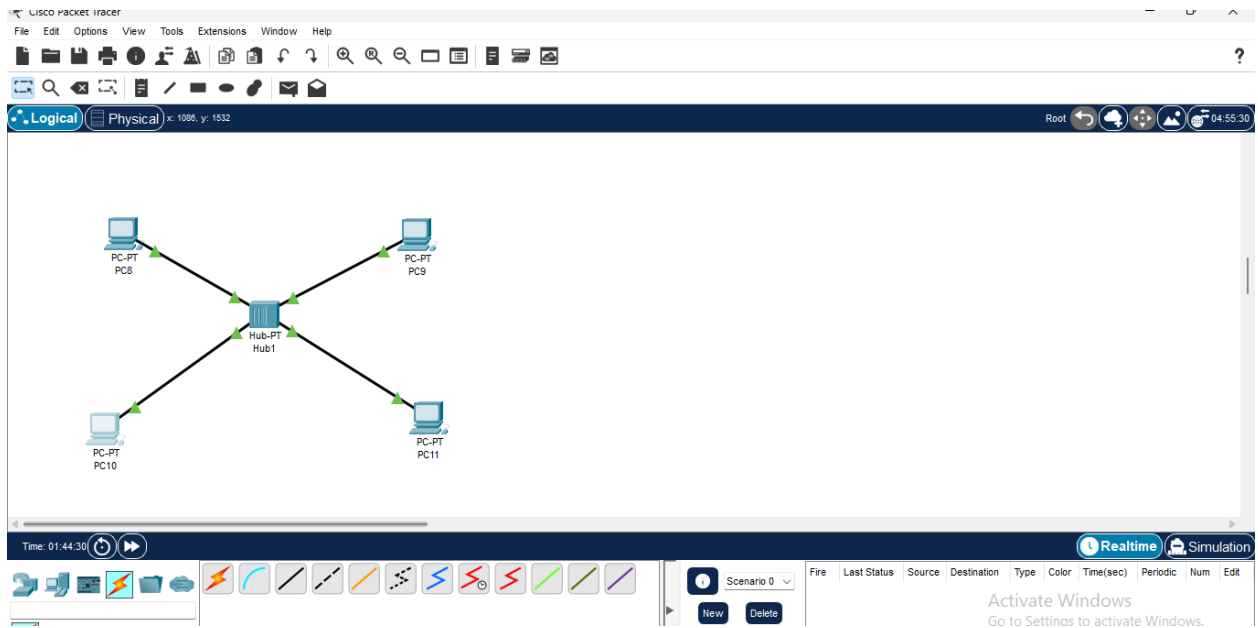
Root

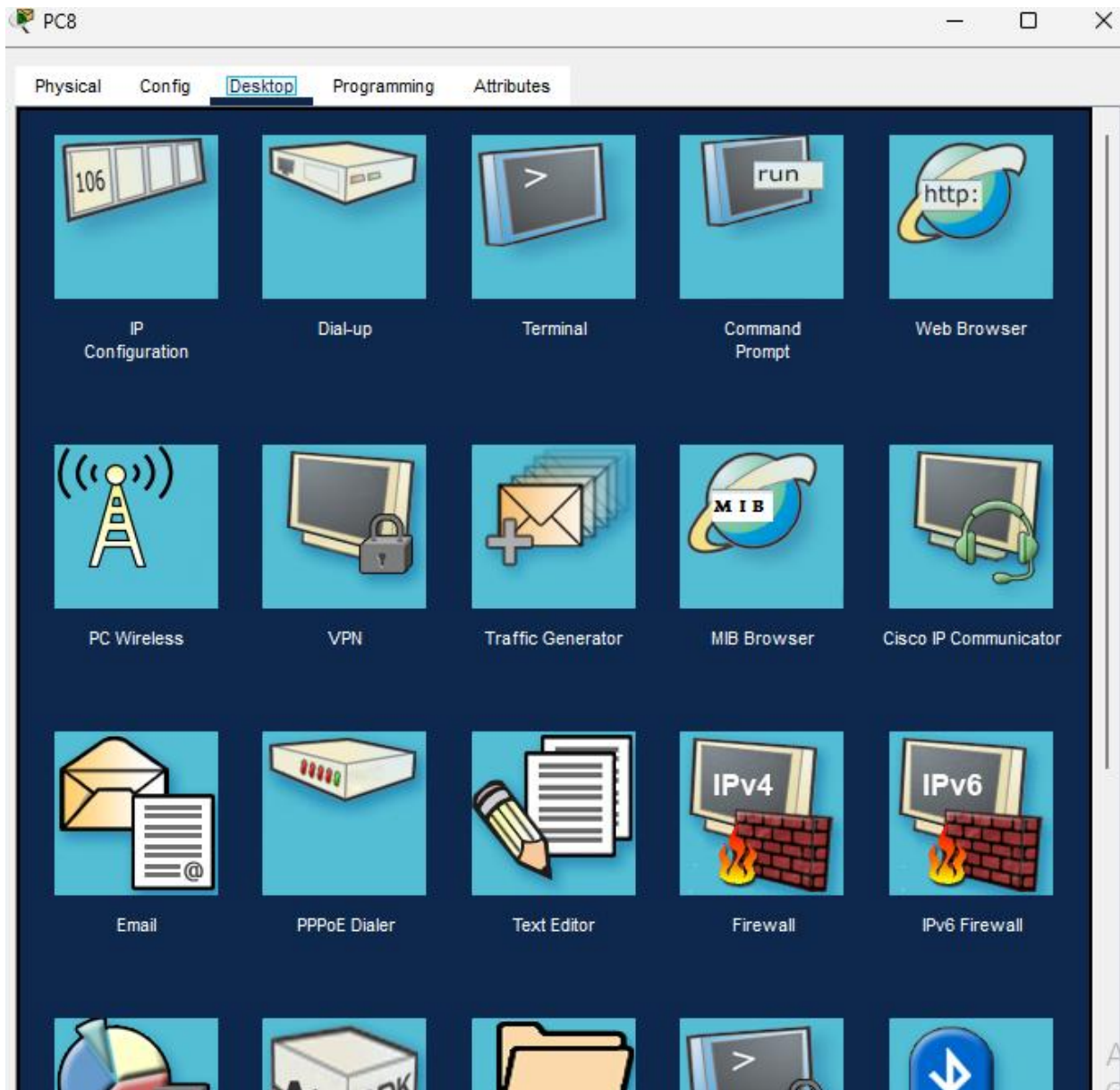
Time: 01:44:16

Realtime Simulation

Scenario 0
New Delete
Toggle PDU List Window

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit
Activate Windows Go to Settings to activate Windows.									





PC8

Physical Config **Desktop** Programming Attributes

IP Configuration X

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::1 / 64

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

Default Gateway:

DNS Server:

802.1X

☐ Use 802.1X Security

Authentication: MD5

Username:

Password:

Juste pour verifier la conectivité

PC8

Physical Config **Desktop** Programming Attributes

IP Configuration X

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

IP Configuration X

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

X

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

PC8

Physical Config **Desktop** Programming Attributes

IP Configuration X

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

```
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
```

PC11

Physical Config **Desktop** Programming Attributes

IP Configuration X

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::2 / 64

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

Default Gateway:

DNS Server:

802.1X

☐ Use 802.1X Security

Authentication: MD5

Username:

Password:

```

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

```

```
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
```

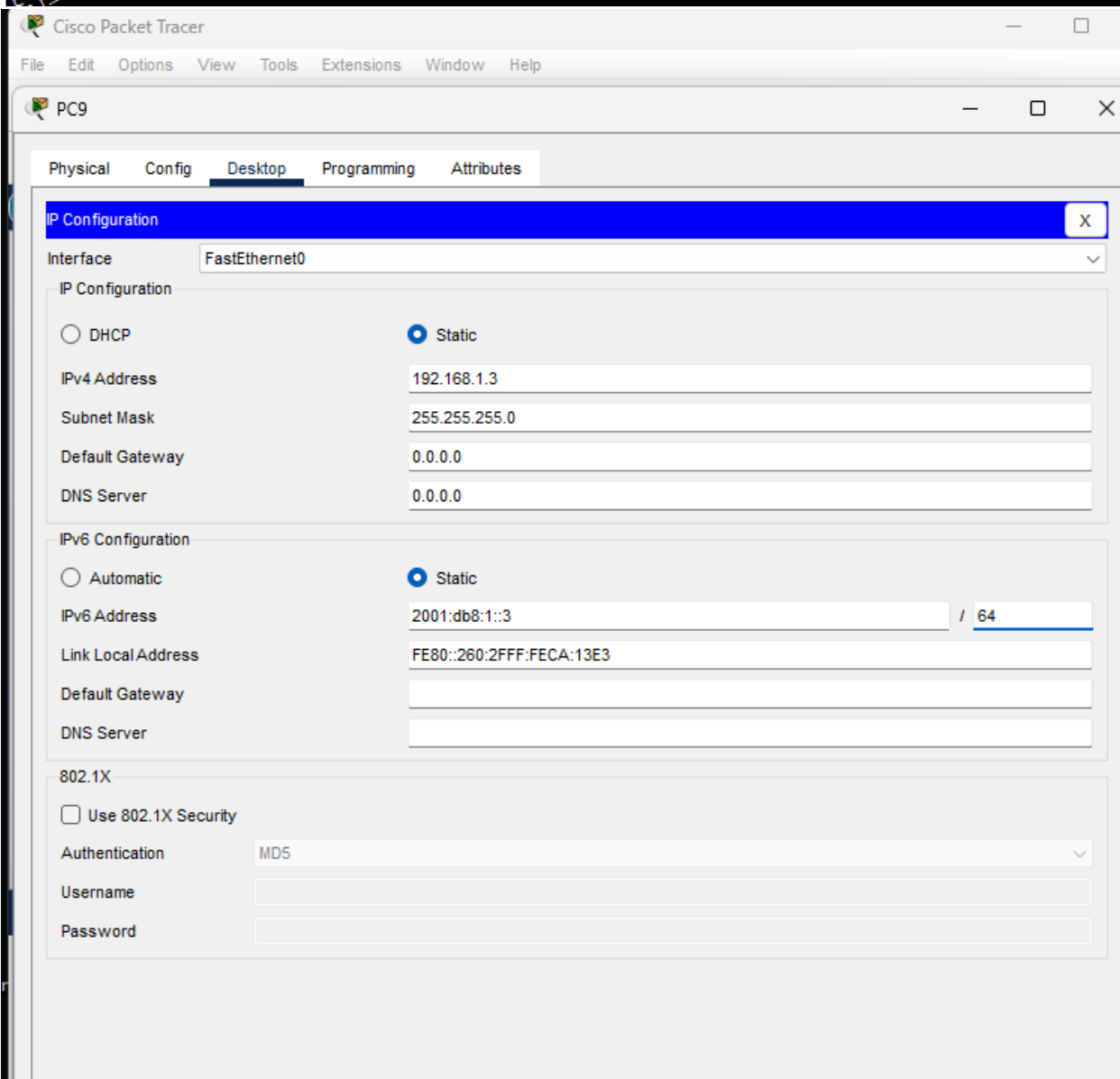
Pinging 2001:db8:1::2 with 32 bytes of data:

```
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:\>



The image shows the Cisco Packet Tracer interface for configuring a PC named PC9. The 'Desktop' tab is selected, and the 'IP Configuration' section is expanded. The 'Interface' dropdown is set to 'FastEthernet0'. Under 'IP Configuration', the 'Static' radio button is selected. The IPv4 Address is set to 192.168.1.3, Subnet Mask to 255.255.255.0, Default Gateway to 0.0.0.0, and DNS Server to 0.0.0.0. Under 'IPv6 Configuration', the 'Static' radio button is also selected. The IPv6 Address is set to 2001:db8:1::3 / 64, Link Local Address to FE80::260:2FFF:FECA:13E3, and both Default Gateway and DNS Server fields are empty. Under '802.1X', the 'Use 802.1X Security' checkbox is unchecked, and the Authentication dropdown is set to MD5. The Username and Password fields are also empty.

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

PC9

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 2001:db8:1::3 / 64

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

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication MD5

Username

Password

```
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:\>
```

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::4 / 64

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

Default Gateway:

DNS Server:

802.1X

☐ Use 802.1X Security

Authentication: MD5

Username:

Password:

```
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:\>
```

PC12

Physical Config **Desktop** Programming Attributes

IP Configuration

X

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::206:2AFF:FE26:DD4D

Default Gateway

DNS Server

802.1X

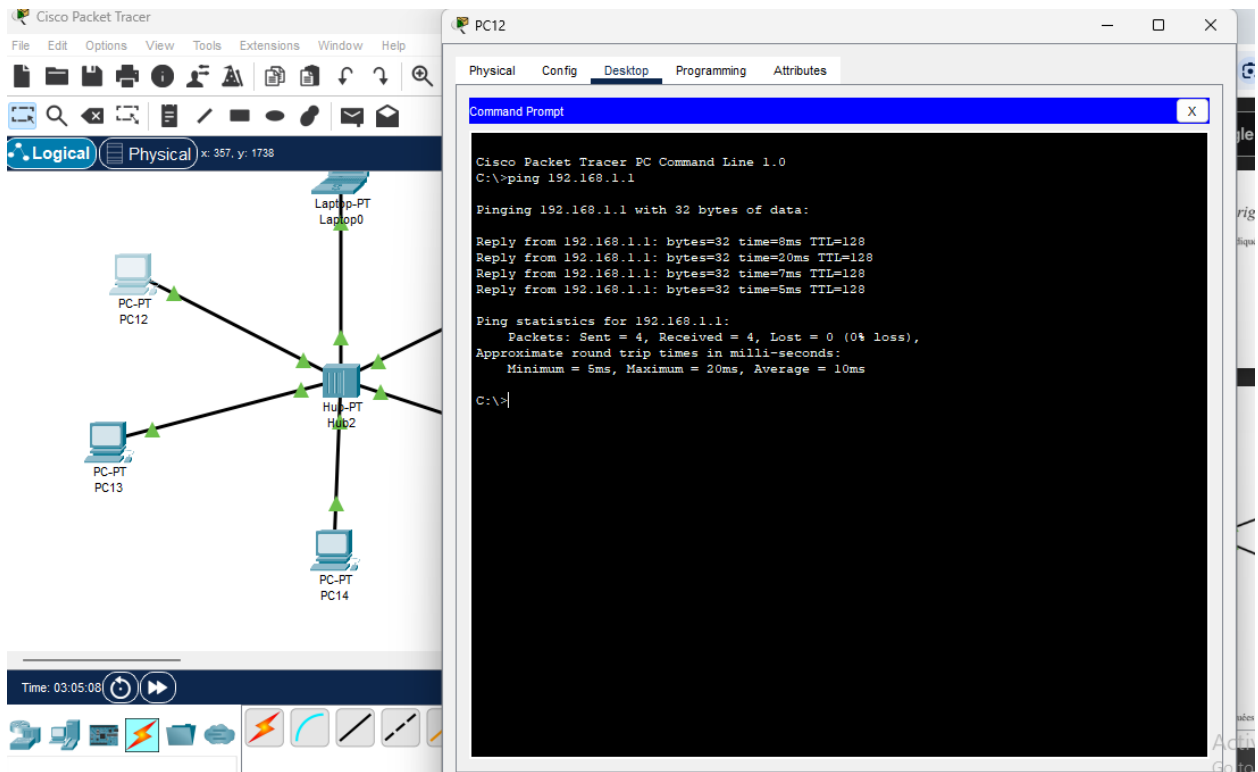
☐ Use 802.1X Security

Authentication MD5

Username

Password

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



PC16

PhysicalConfigDesktopProgrammingAttributes

IP Configuration

InterfaceFastEthernet0

IP Configuration

☐ DHCP

☒ Static

IPv4 Address192.168.1.2

Subnet Mask255.255.255.0

Default Gateway0.0.0.0

DNS Server0.0.0.0

IPv6 Configuration

☐ Automatic

☒ Static

IPv6 Address /

Link Local AddressFE80::210:11FF:FE82:4351

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

AuthenticationMD5

Username

Password

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=14ms TTL=128

Reply from 192.168.1.2: bytes=32 time=20ms TTL=128

Reply from 192.168.1.2: bytes=32 time=1ms TTL=128

Reply from 192.168.1.2: bytes=32 time=9ms 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 = 1ms, Maximum = 20ms, Average = 11ms

C:\>|

Laptop0

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::201:42FF:FEC3:4444

Default Gateway

DNS Server

802.1X

Use 802.1X Security

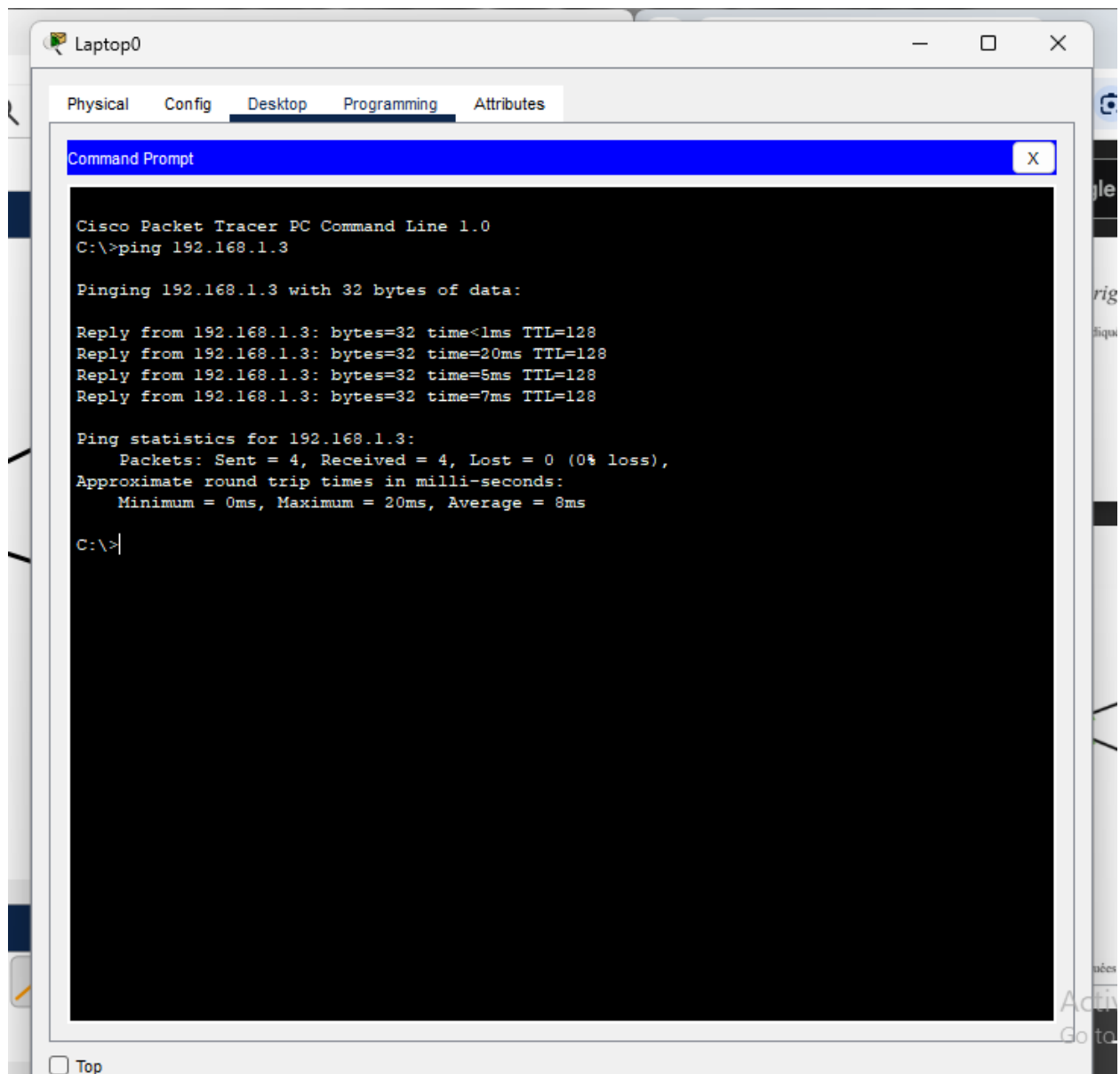
Authentication

MD5

Username

Password

Top



PC14

Physical

Config

Desktop

Programming

Attributes

IP Configuration

X

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

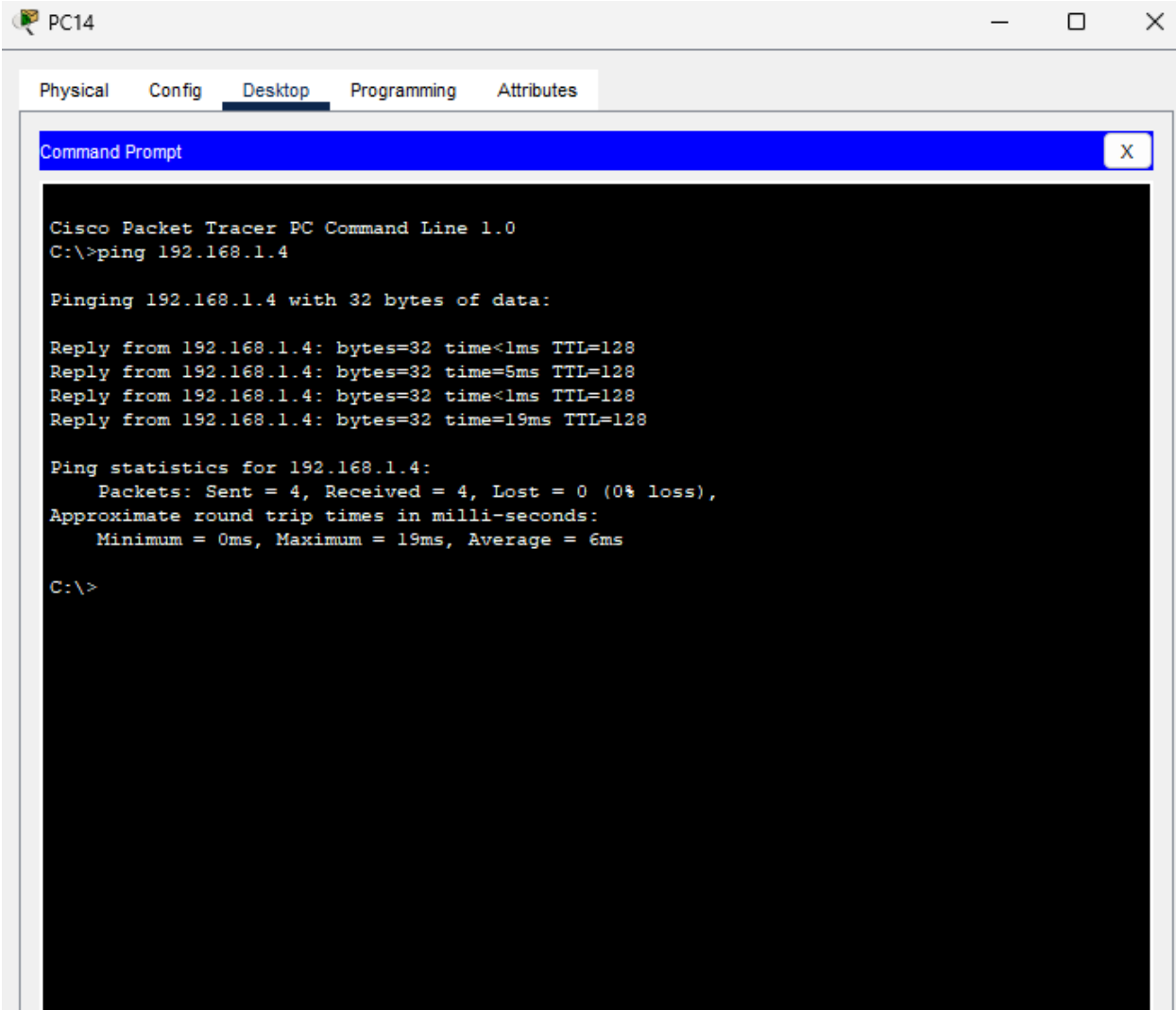
MD5

Username

Password

Ac

Go



PC15

PhysicalConfigDesktopProgrammingAttributes

IP Configuration

X

InterfaceFastEthernet0

IP Configuration

DHCP

Static

IPv4 Address192.168.1.5

Subnet Mask255.255.255.0

Default Gateway0.0.0.0

DNS Server0.0.0.0

IPv6 Configuration

Automatic

Static

IPv6 Address

Link Local AddressFE80::203:E4FF:FEB1:E8DD

Default Gateway

DNS Server

802.1X

Use 802.1X Security

AuthenticationMD5

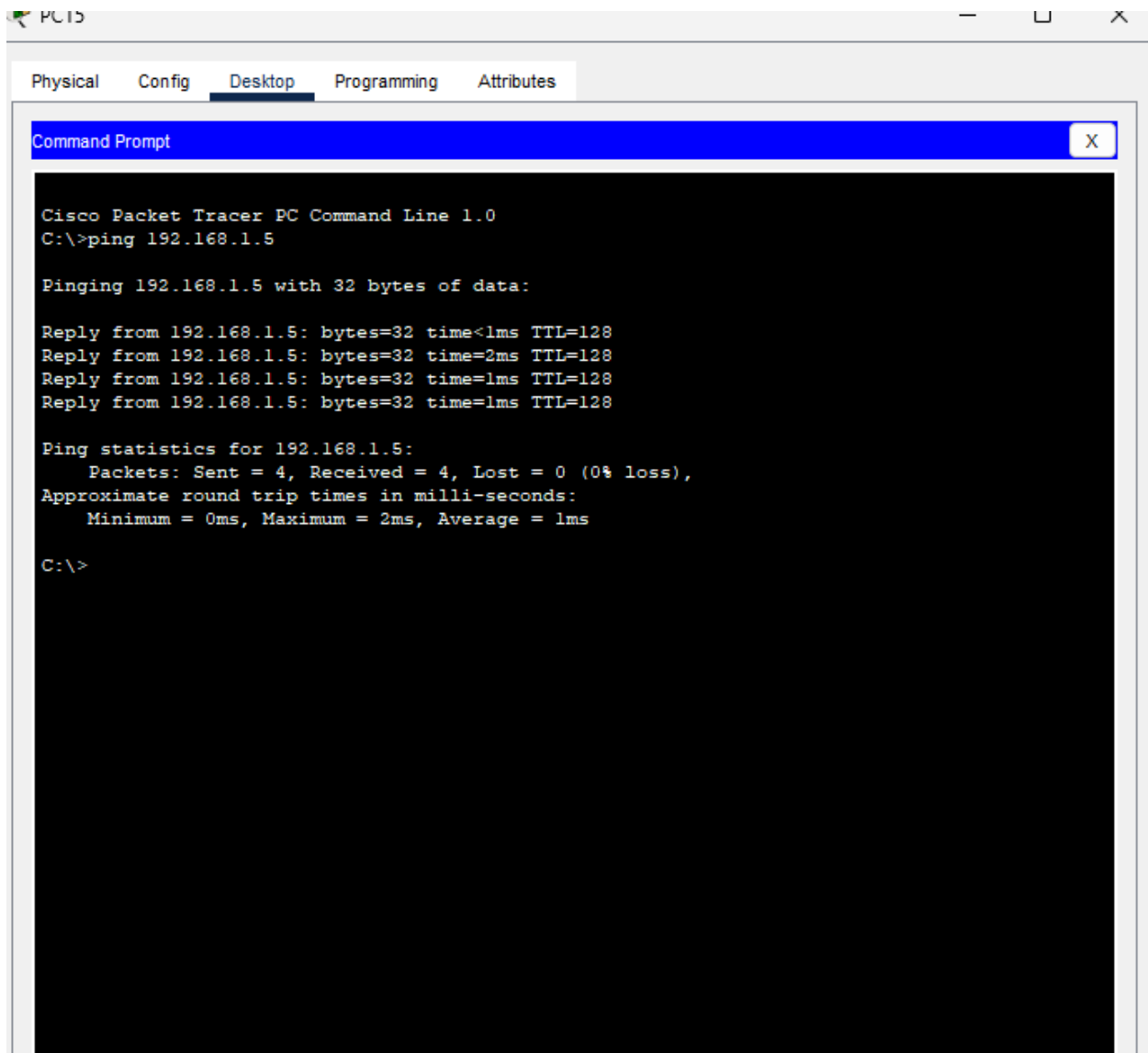
Username

Password

Top

Al

Gc



PC13

PhysicalConfigDesktopProgrammingAttributes

IP Configuration

InterfaceFastEthernet0

IP Configuration

☐ DHCP

☒ Static

IPv4 Address192.168.1.6

Subnet Mask255.255.255.0

Default Gateway0.0.0.0

DNS Server0.0.0.0

IPv6 Configuration

☐ Automatic

☒ Static

IPv6 Address

Link Local AddressFE80::204:9AFF:FE12:CE2D

Default Gateway

DNS Server

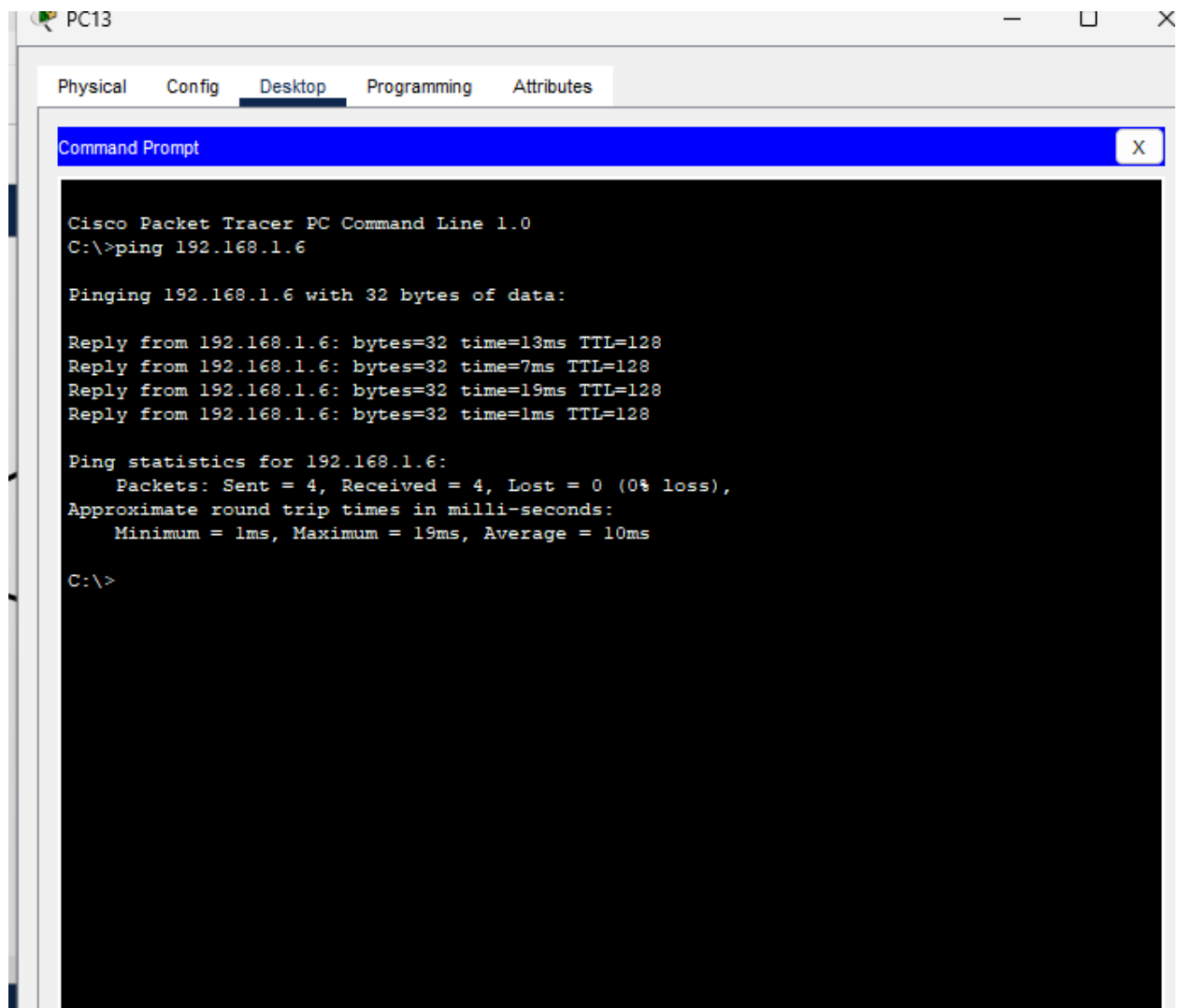
802.1X

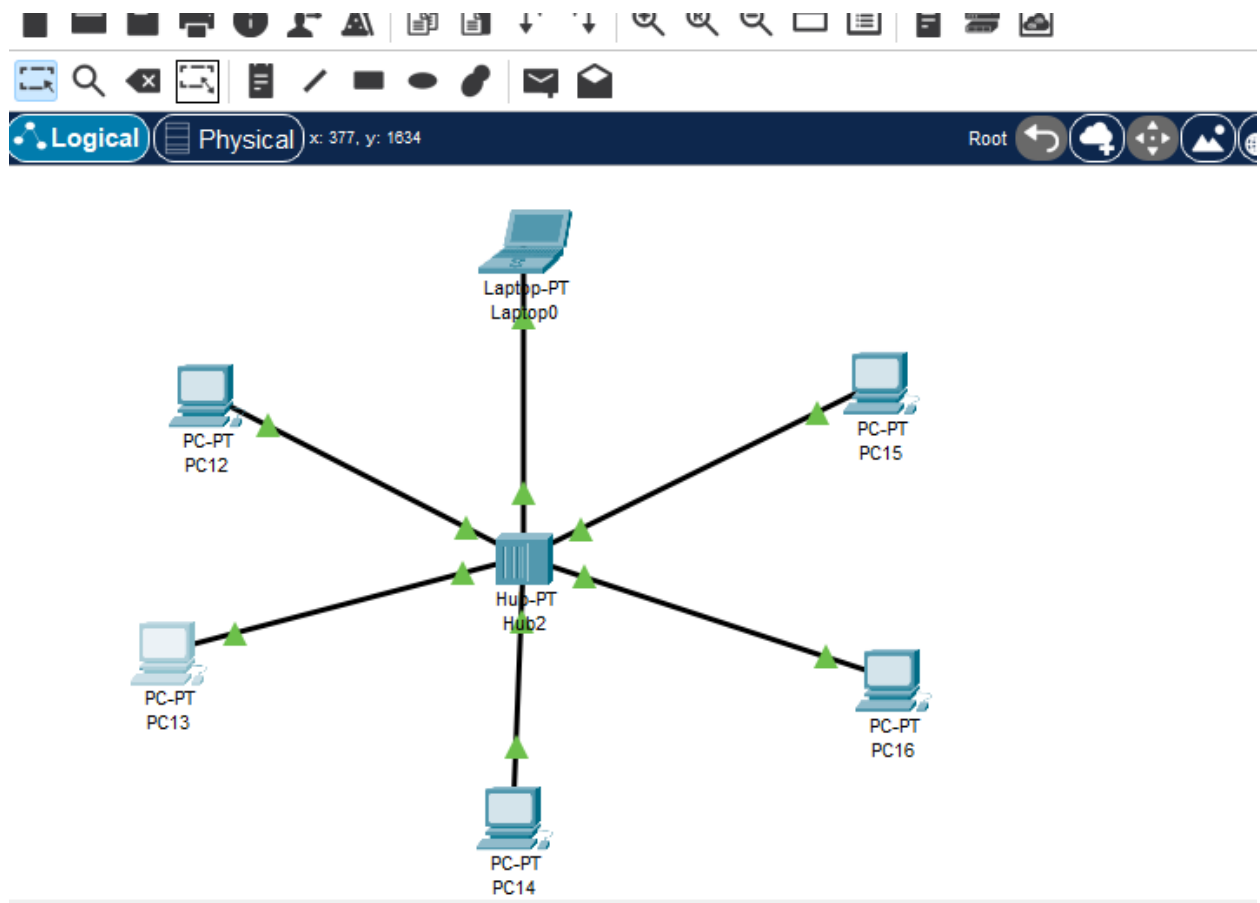
☐ Use 802.1X Security

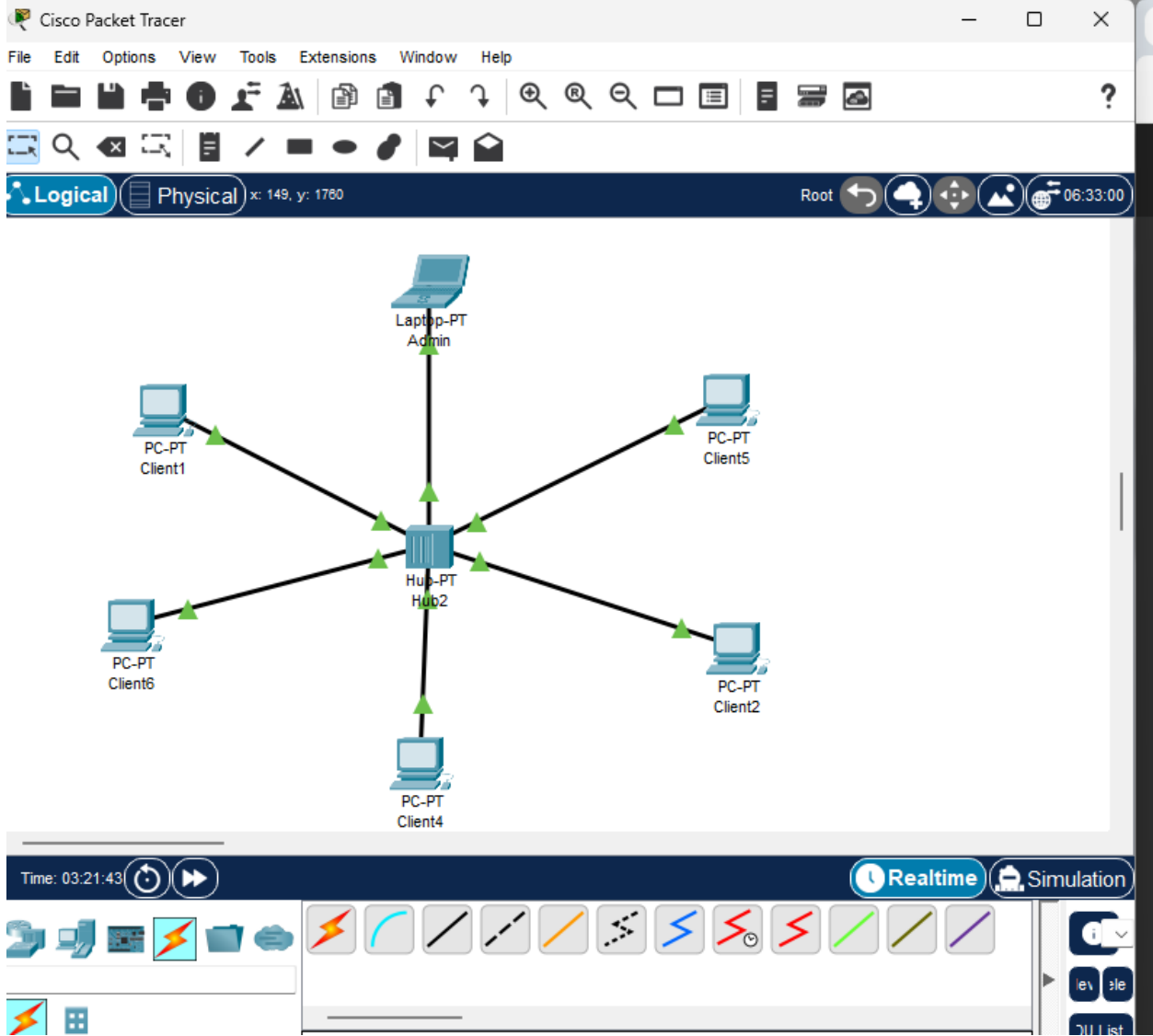
AuthenticationMD5

Username

Password







PC19

Physical

Config

Desktop

Programming

Attributes

IP Configuration

X

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

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

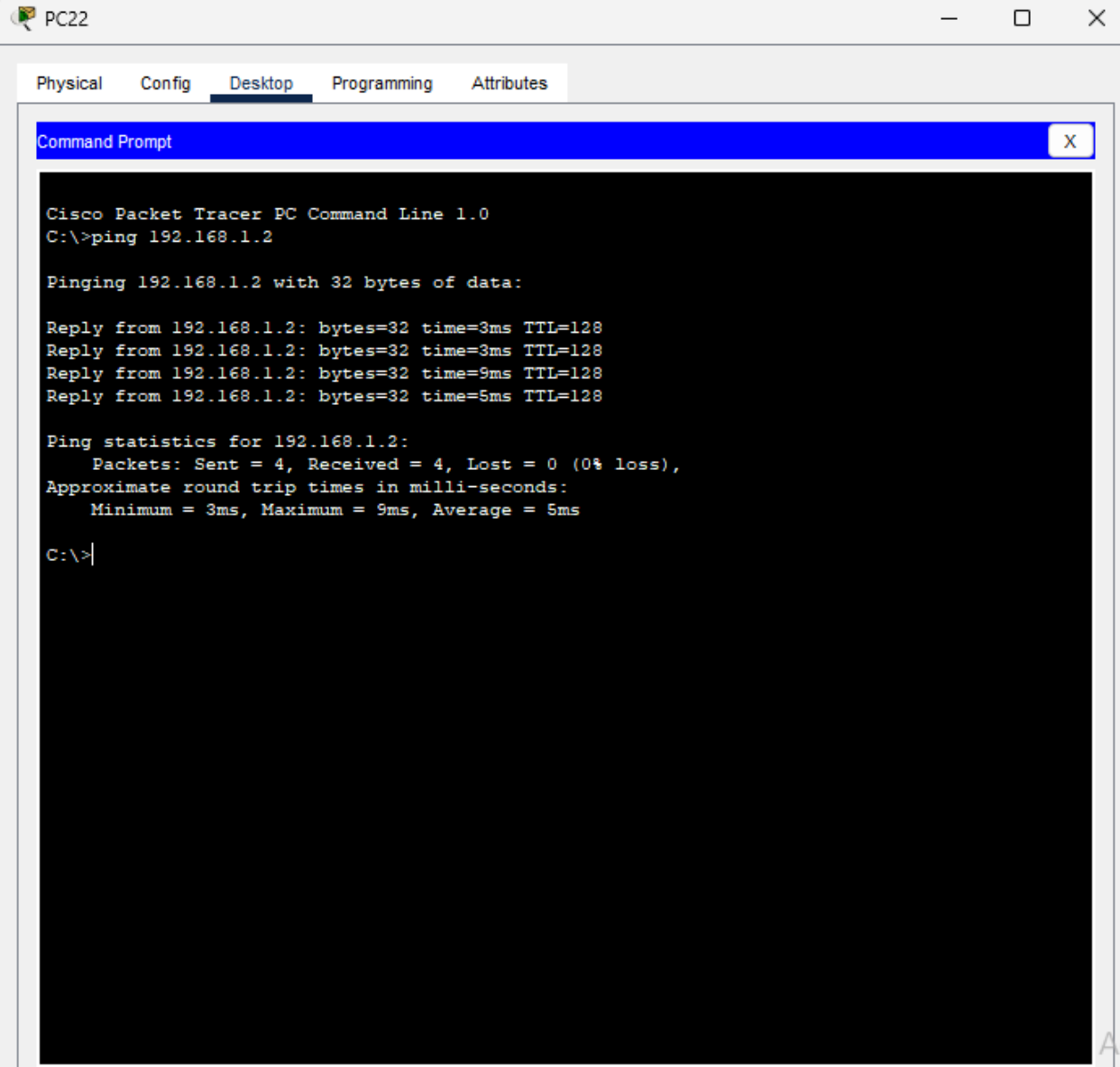
Ping statistics for 192.168.1.1:

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

InterfaceFastEthernet0

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

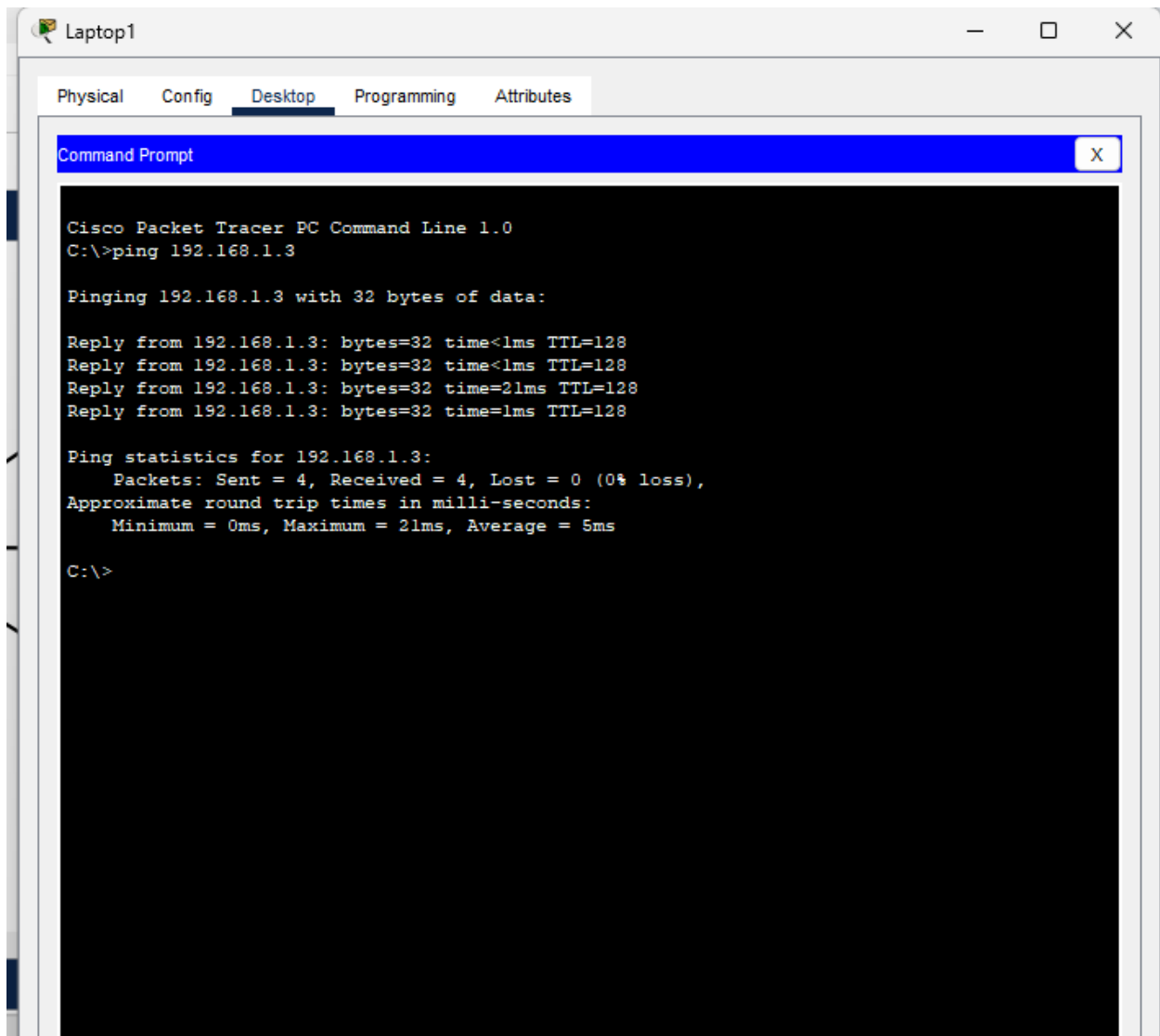
Authentication

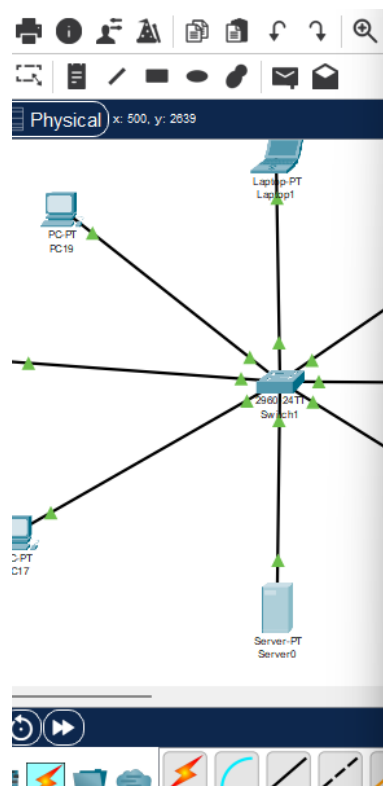
MD5

Username

Password

Top





```
Physical  Config  Services  Desktop  Programming  Attributes

Command Prompt

Cisco Packet Tracer SERVER 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=16ms TTL=128
Reply from 192.168.1.4: bytes=32 time=20ms TTL=128
Reply from 192.168.1.4: bytes=32 time=24ms 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 = 0ms, Maximum = 24ms, Average = 15ms

C:\>|
```


PC20

Physical

Config

Desktop

Programming

Attributes

IP Configuration

X

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

A

G

```
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

PhysicalConfigDesktopProgrammingAttributes

IP Configuration

InterfaceFastEthernet0

IP Configuration

☐ DHCP

☒ Static

IPv4 Address192.168.1.6

Subnet Mask255.255.255.0

Default Gateway0.0.0.0

DNS Server0.0.0.0

IPv6 Configuration

☐ Automatic

☒ Static

IPv6 Address

Link Local AddressFE80::2E0:A3FF:FE44:B19E

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

AuthenticationMD5

Username

Password

PC17

PhysicalConfigDesktopProgrammingAttributes

IP Configuration

InterfaceFastEthernet0

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

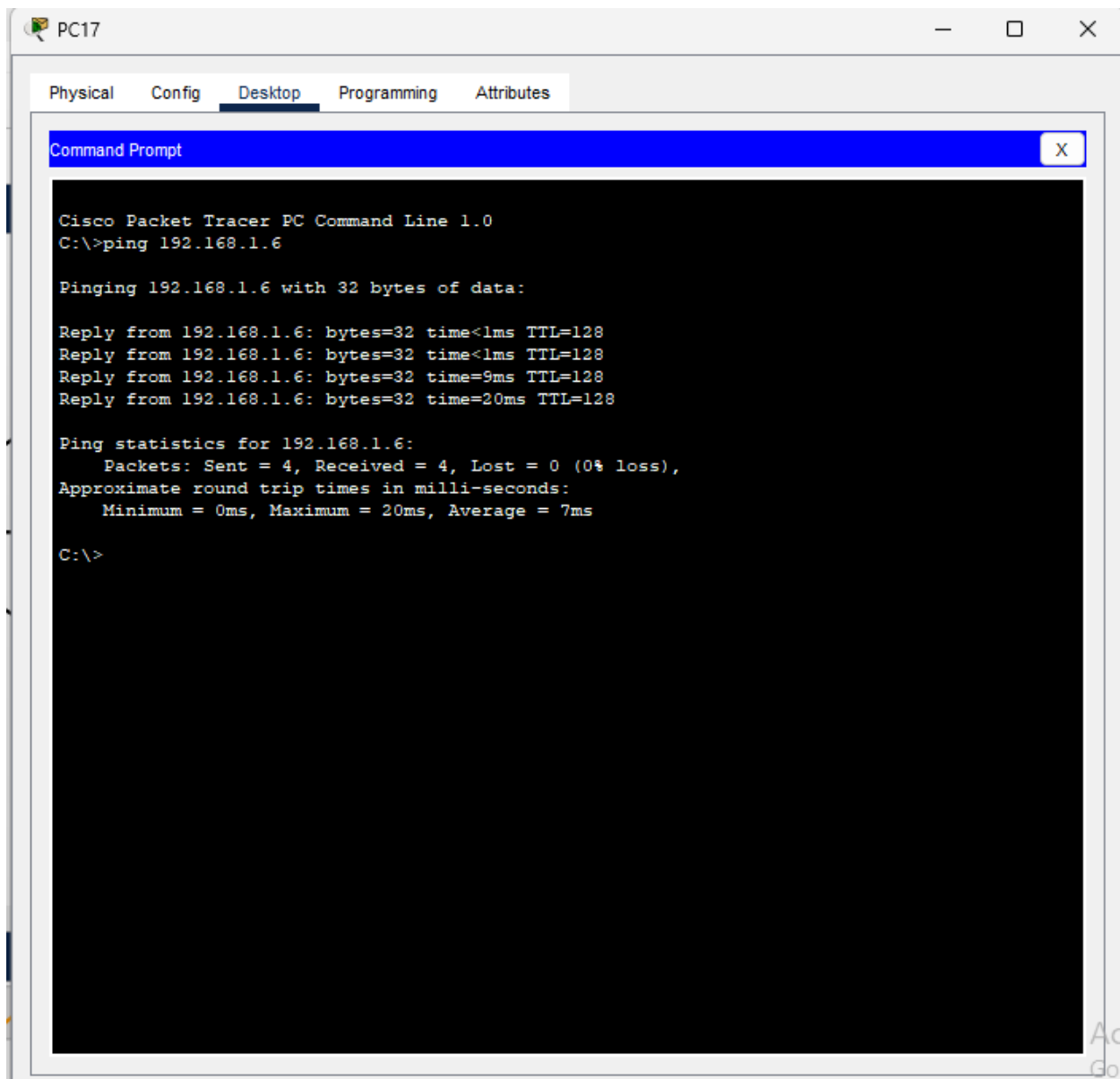
☐ Use 802.1X Security

Authentication

MD5

Username

Password



PC18

PhysicalConfigDesktopProgrammingAttributes

IP ConfigurationX

InterfaceFastEthernet0

IP Configuration

☐ DHCP

☒ Static

IPv4 Address192.168.1.7

Subnet Mask255.255.255.0

Default Gateway0.0.0.0

DNS Server0.0.0.0

IPv6 Configuration

☐ Automatic

☒ Static

IPv6 Address

Link Local AddressFE80::260:2FFF:FE3E:792E

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

AuthenticationMD5

Username

Password

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:\>
```

PC21

PhysicalConfigDesktopProgrammingAttributes

IP Configuration

X

InterfaceFastEthernet0

IP Configuration

DHCP

Static

IPv4 Address

192.168.1.8

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::2D0:58FF:FE17:6046

Default Gateway

DNS Server

802.1X

Use 802.1X Security

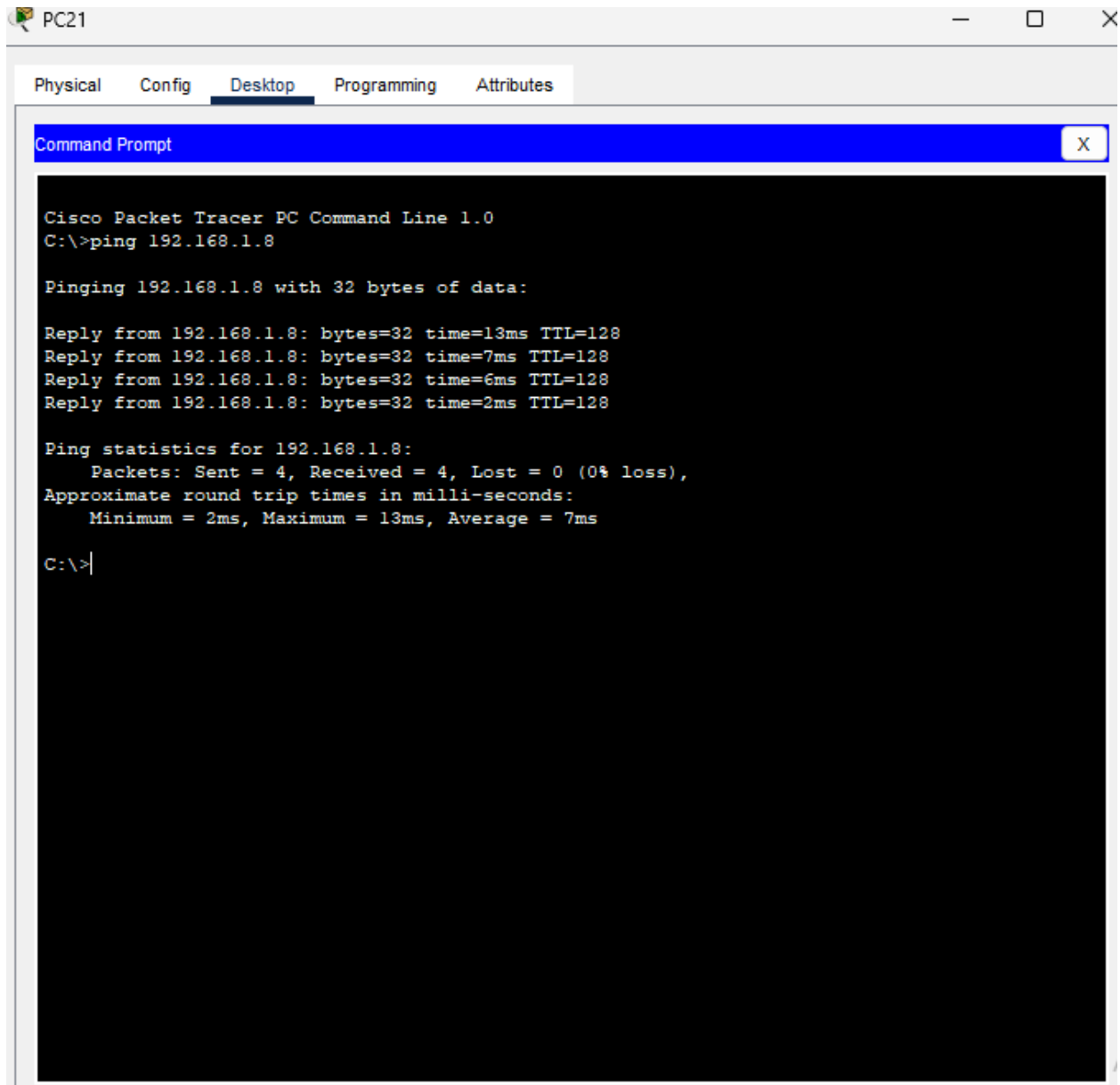
Authentication

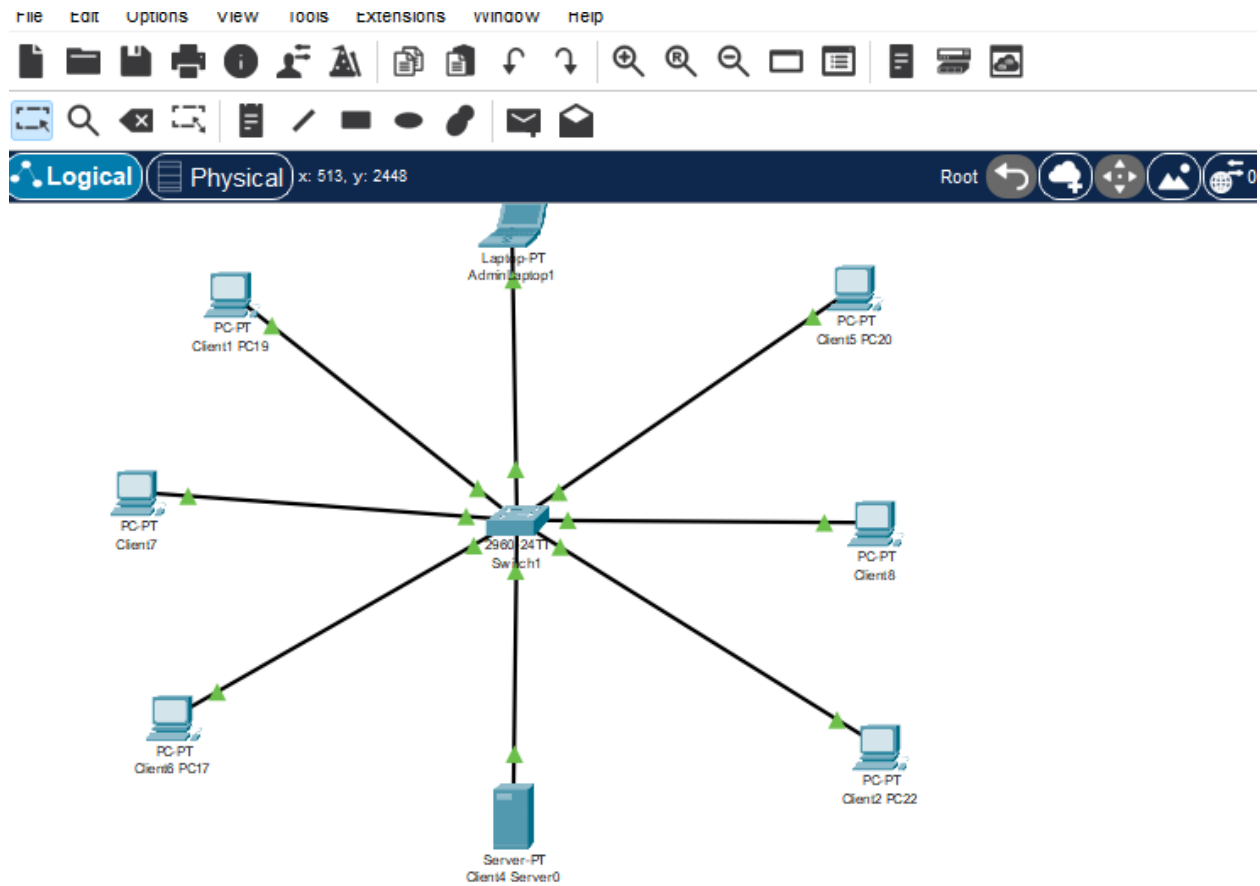
MD5

Username

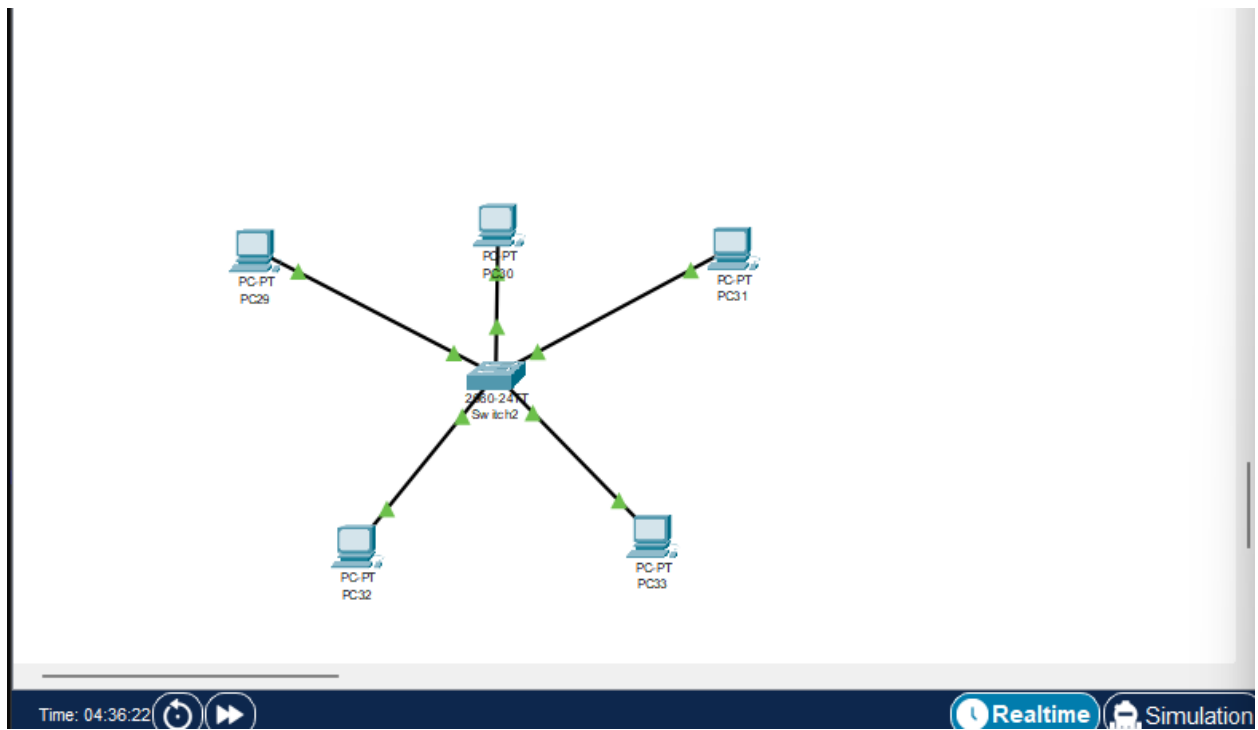
Password

Ad
Go





2.Reproduisez cette topologies en configurant les addresses IPV4 indiquées dans le tableau ci-dessous,puis verifiez la connectivité.



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

PC29

PhysicalConfigDesktopProgrammingAttributes

IP Configuration

X

InterfaceFastEthernet0

IP Configuration

DHCP

Static

IPv4 Address192.168.1.1

Subnet Mask255.255.255.0

Default Gateway0.0.0.0

DNS Server0.0.0.0

IPv6 Configuration

Automatic

Static

IPv6 Address

Link Local AddressFE80::207:ECFF:FE94:81EA

Default Gateway

DNS Server

802.1X

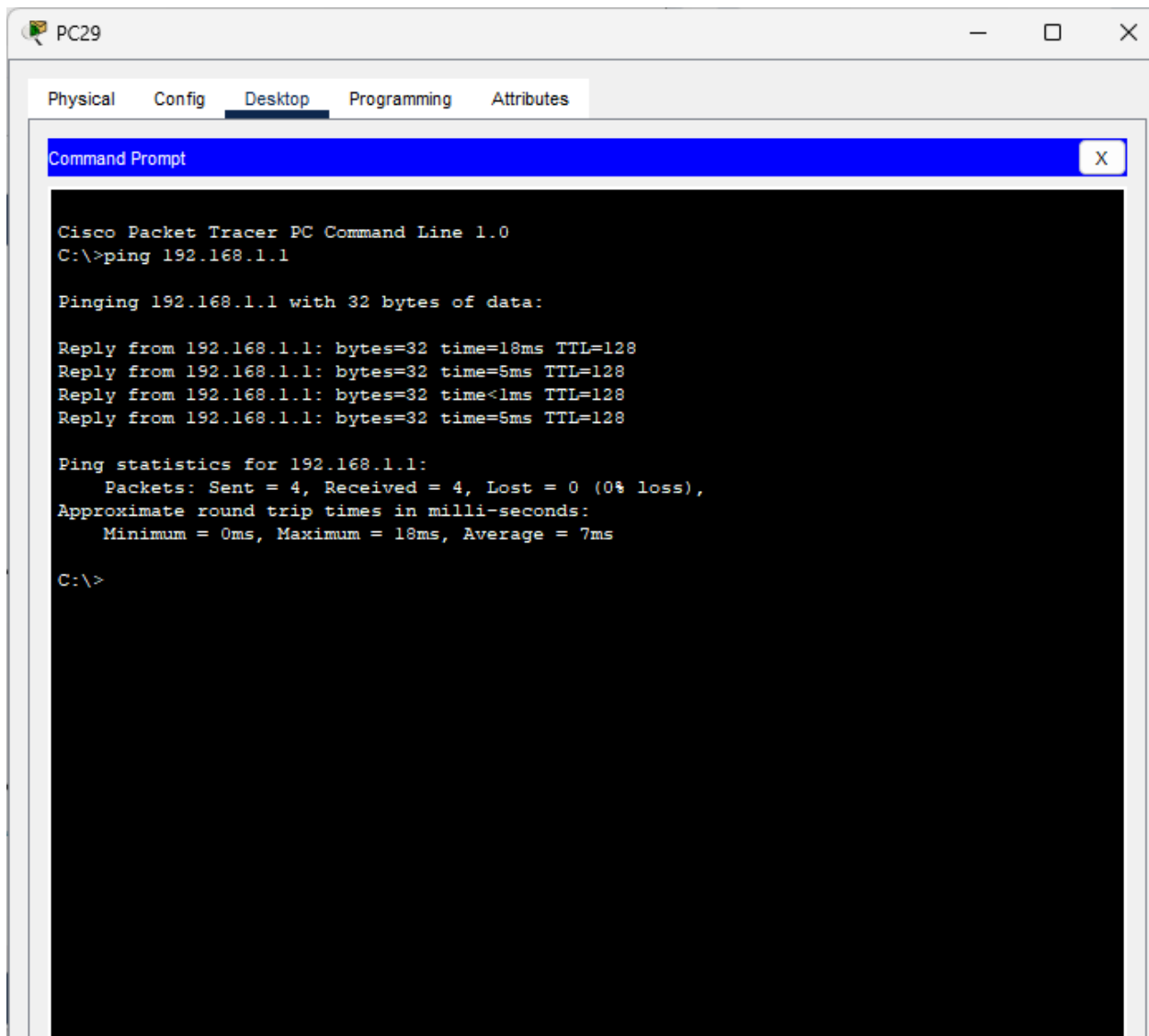
Use 802.1X Security

AuthenticationMD5

Username

Password

Top



Physical Config **Desktop** Programming Attributes

IP Configuration

X

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

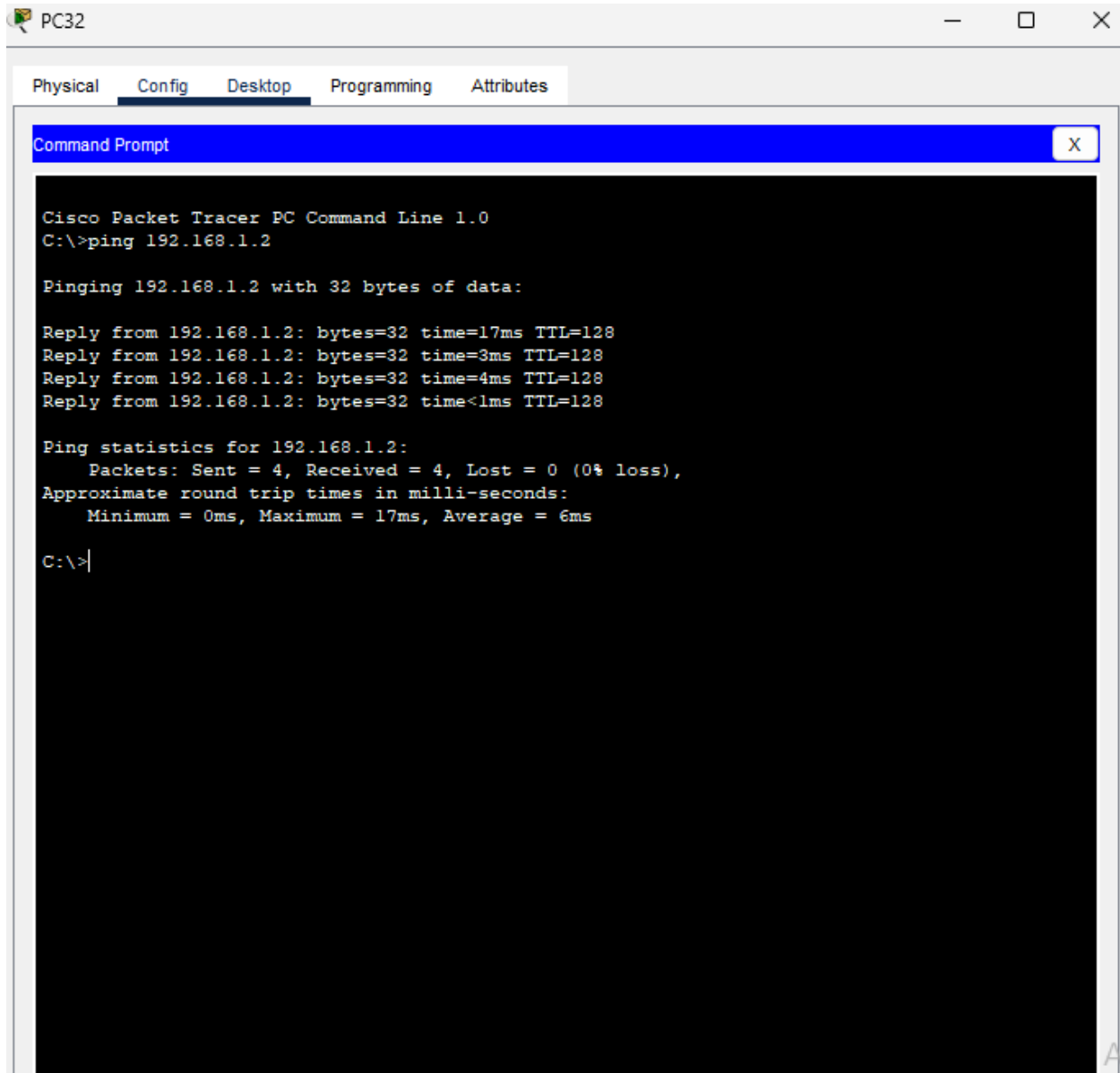
☐ Use 802.1X Security

Authentication

MD5

Username

Password



PC33

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::2E0:8FFF:FE9D:6946

Default Gateway

DNS Server

802.1X

Use 802.1X Security

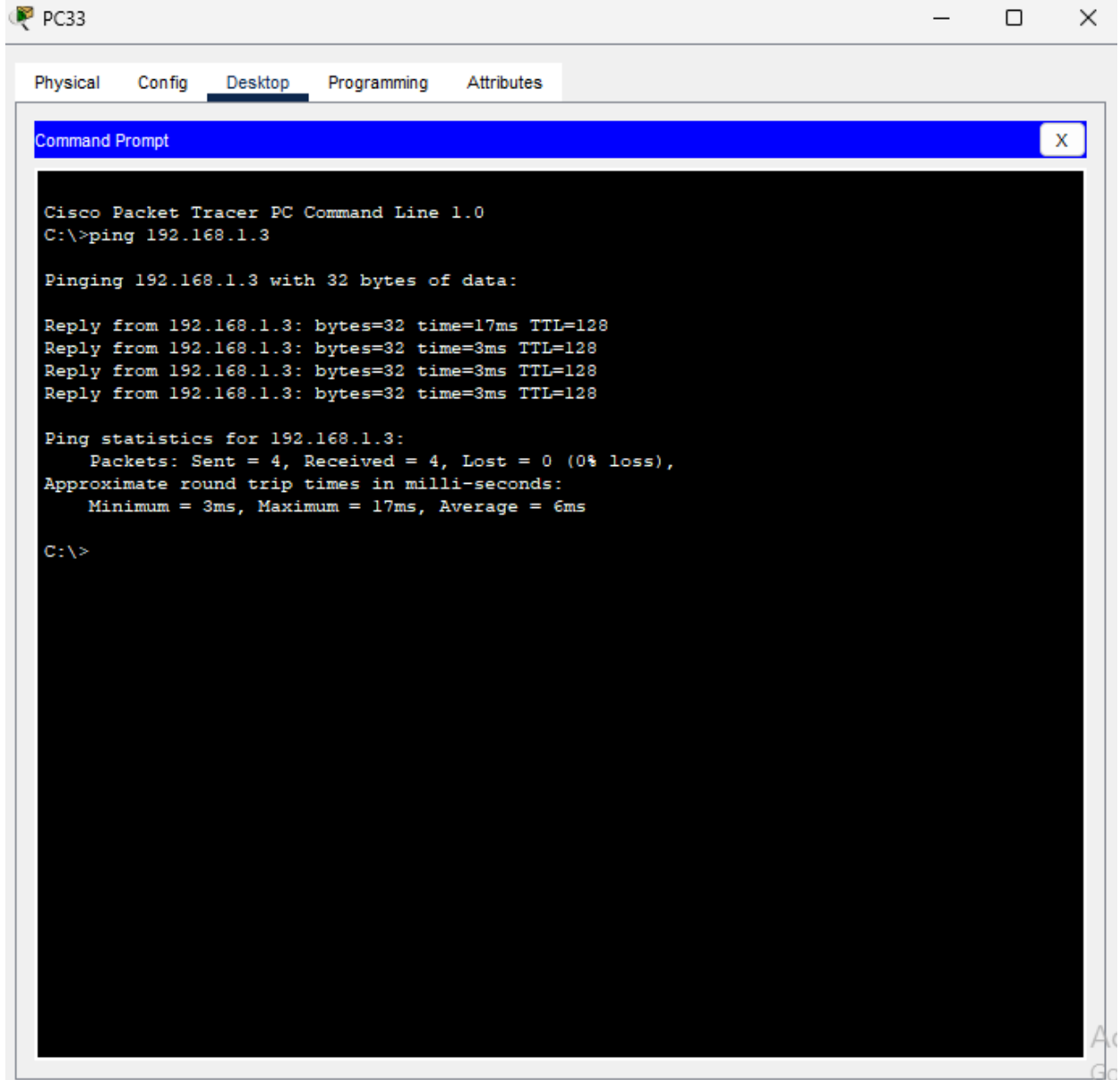
Authentication

MD5

Username

Password

Top



PC31

PhysicalConfigDesktopProgrammingAttributes

IP Configuration

InterfaceFastEthernet0

IP Configuration

☐ DHCP

☒ Static

IPv4 Address192.168.1.4

Subnet Mask255.255.255.0

Default Gateway0.0.0.0

DNS Server0.0.0.0

IPv6 Configuration

☐ Automatic

☒ Static

IPv6 Address /

Link Local AddressFE80::230:F2FF:FE5A:8E89

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

AuthenticationMD5

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

PhysicalConfigDesktopProgrammingAttributes

IP Configuration

InterfaceFastEthernet0

IP Configuration

☐ DHCP

☒ Static

IPv4 Address192.168.1.5

Subnet Mask255.255.255.0

Default Gateway0.0.0.0

DNS Server0.0.0.0

IPv6 Configuration

☐ Automatic

☒ Static

IPv6 Address

Link Local AddressFE80::2E0:F7FF:FE18:88BD

Default Gateway

DNS Server

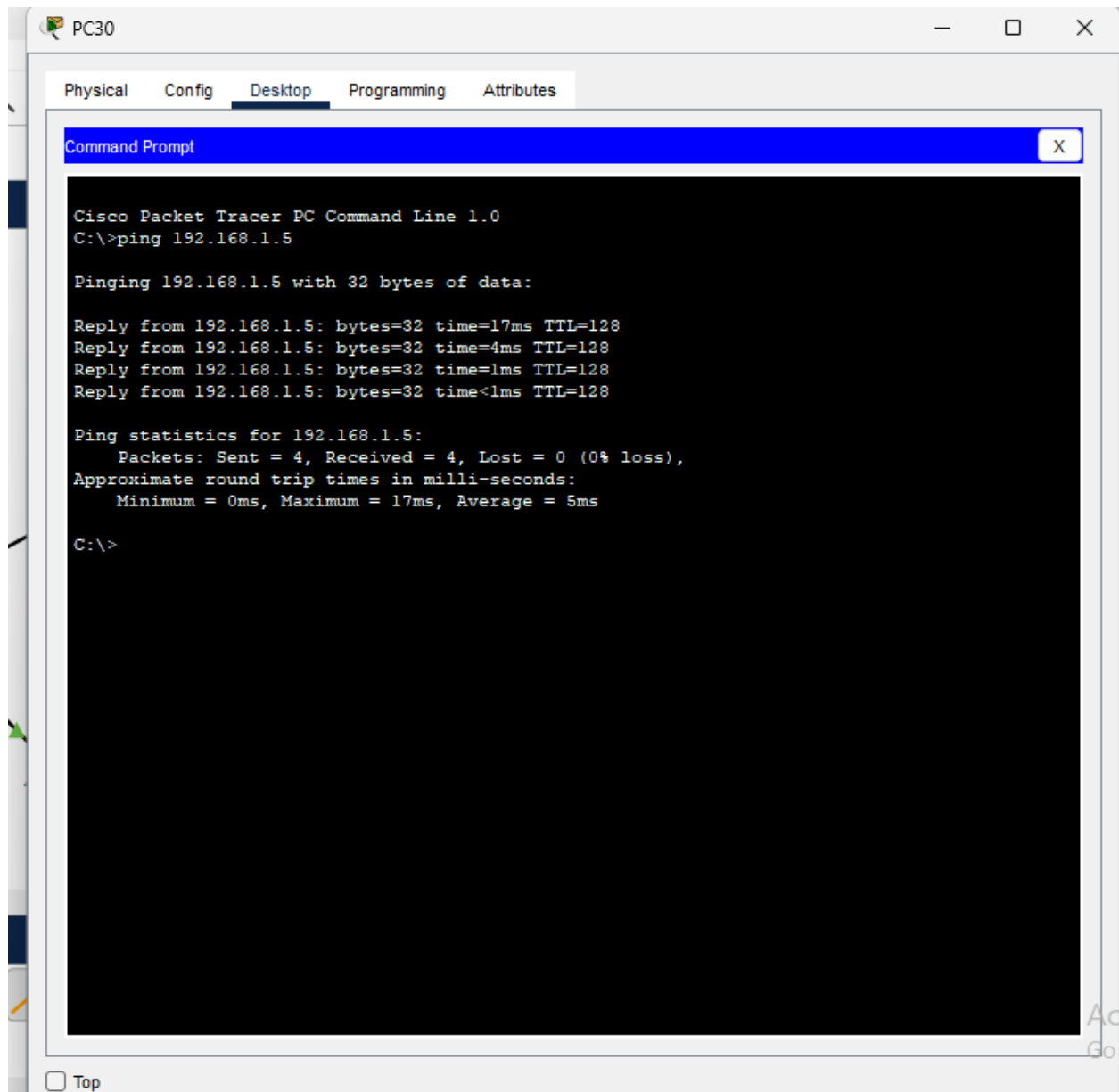
802.1X

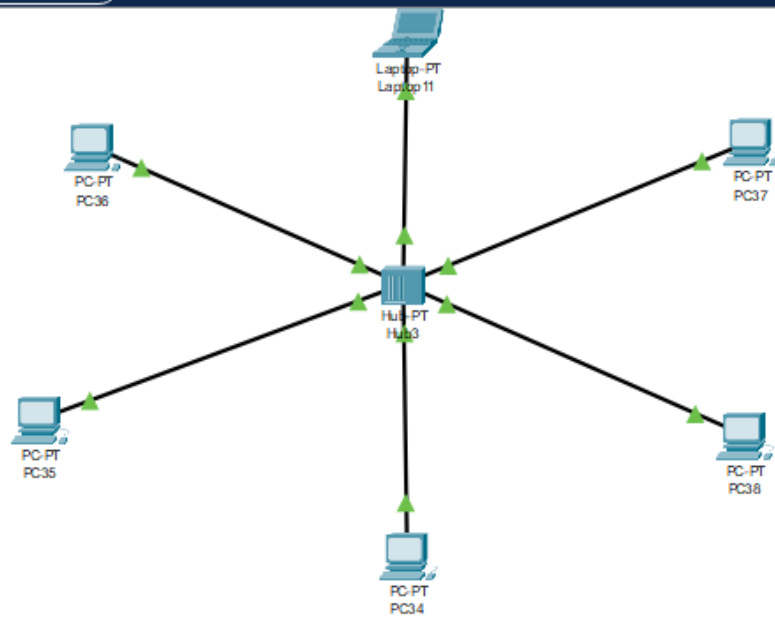
☐ Use 802.1X Security

AuthenticationMD5

Username

Password





PC30

Physical Config **Desktop** Programming Attributes

IP Configuration X

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::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




```
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

PhysicalConfigDesktopProgrammingAttributes

IP Configuration

InterfaceFastEthernet0

IP Configuration

☐ DHCP

☒ Static

IPv4 Address192.168.1.2

Subnet Mask255.255.255.0

Default Gateway0.0.0.0

DNS Server0.0.0.0

IPv6 Configuration

☐ Automatic

☒ Static

IPv6 Address2001:DB8:1::14 /

Link Local AddressFE80::203:E4FF:FEB3:4C7B

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

AuthenticationMD5

Username

Password

Act
Go t

Top

Physical Config **Desktop** Programming Attributes

Configuration X

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 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

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

Ad Go

☐ Top

Laptop11

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 2001:DB8:1::15 / 64

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

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication MD5

Username

Password

Top

```
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%)
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 16ms, Average = 6ms
```

```
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
```

```
C:\>
```

PC34

Physical Config Desktop Programming Attributes

IP Configuration X

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 X

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

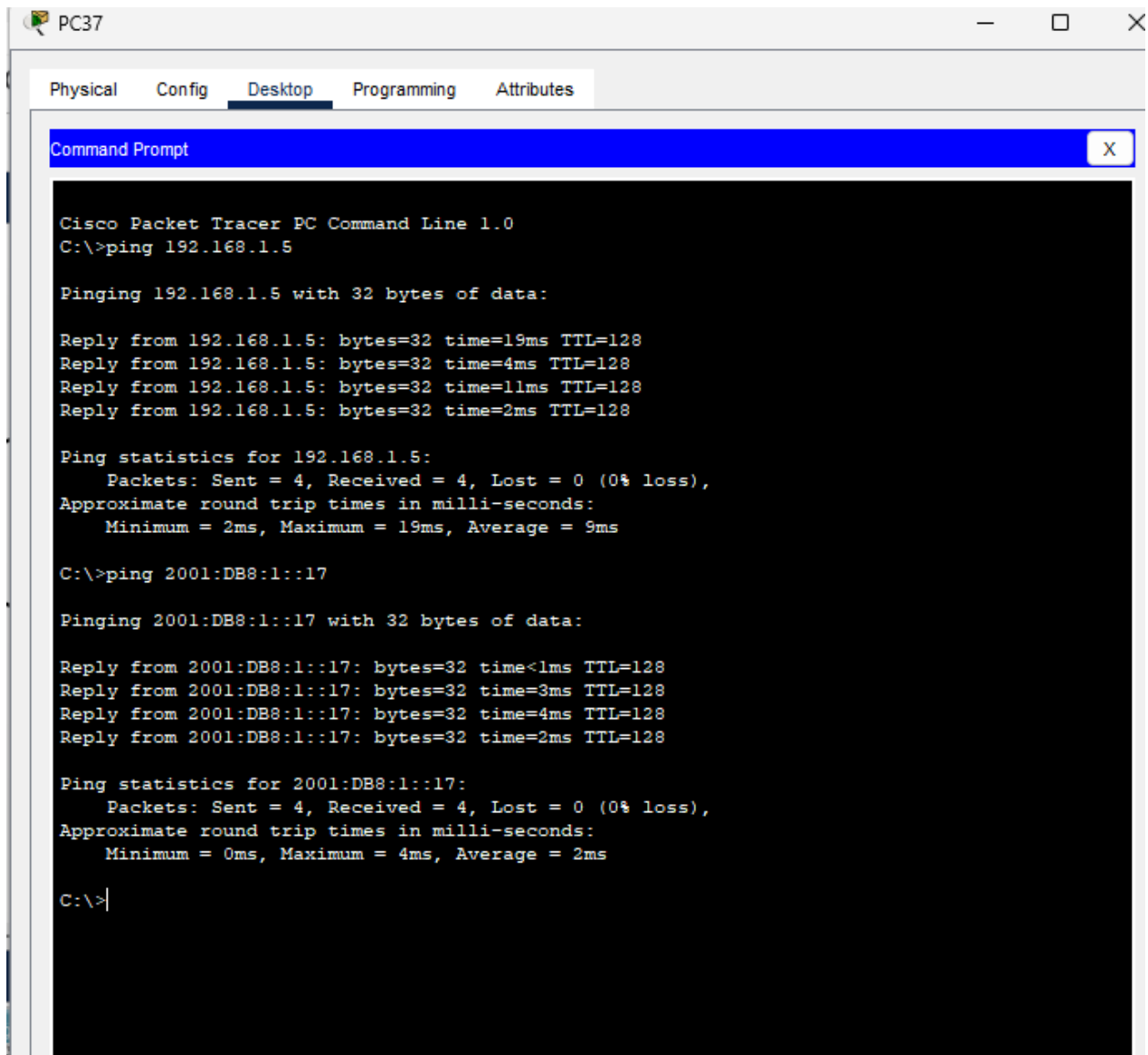
☐ Use 802.1X Security

Authentication MD5

Username

Password

Activat
Go to Set



PC35

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: 2001:DB8:1::18 / 64

Link Local Address: FE80::2D0:D3FF:FE98:58C2

Default Gateway:

DNS Server:

802.1X

☐ Use 802.1X Security

Authentication: MD5

Username:

Password:

```
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 deposer 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 parvenu à réussir les tâches l'un après l'autre, par contre j'ai rencontré une simple difficulté c'était dans la première étape lors de la configuration, toutefois je me suis rattrapé de l'erreur et après j'ai continué normalement avec les autres. À chaque travail dirigé, je deviens de plus en plus satisfait, car il m'aide à bien s'adapter avec le cours.