Faculté : Sciences Informatique

Nom & Prénom : Louis Dochlie

TD N° 6 - Reseaux

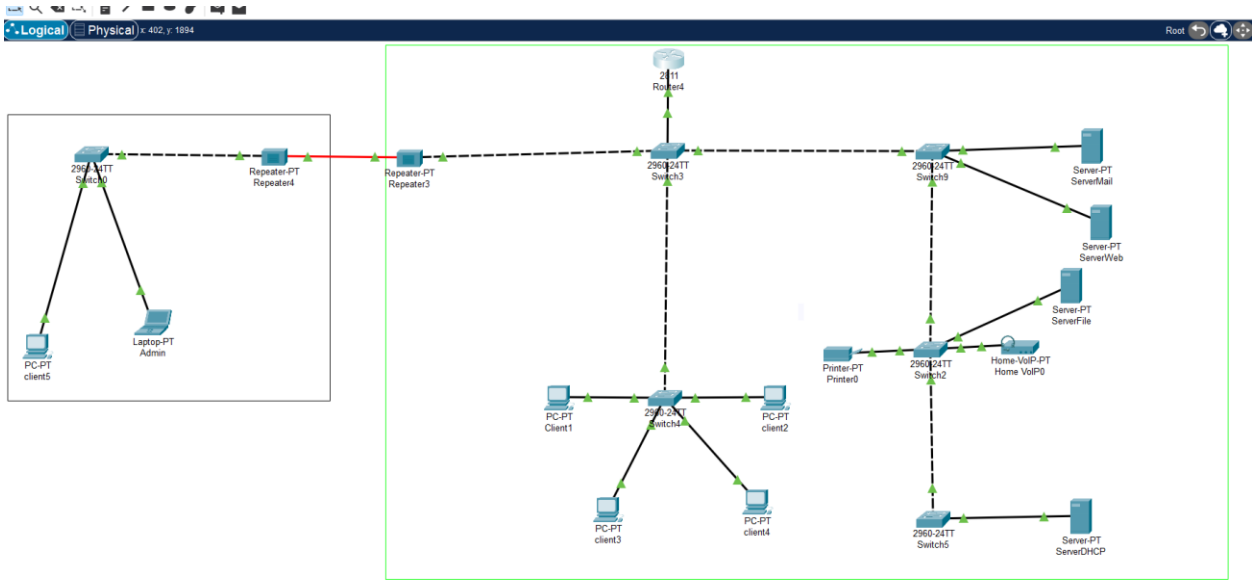
Niveau : L3

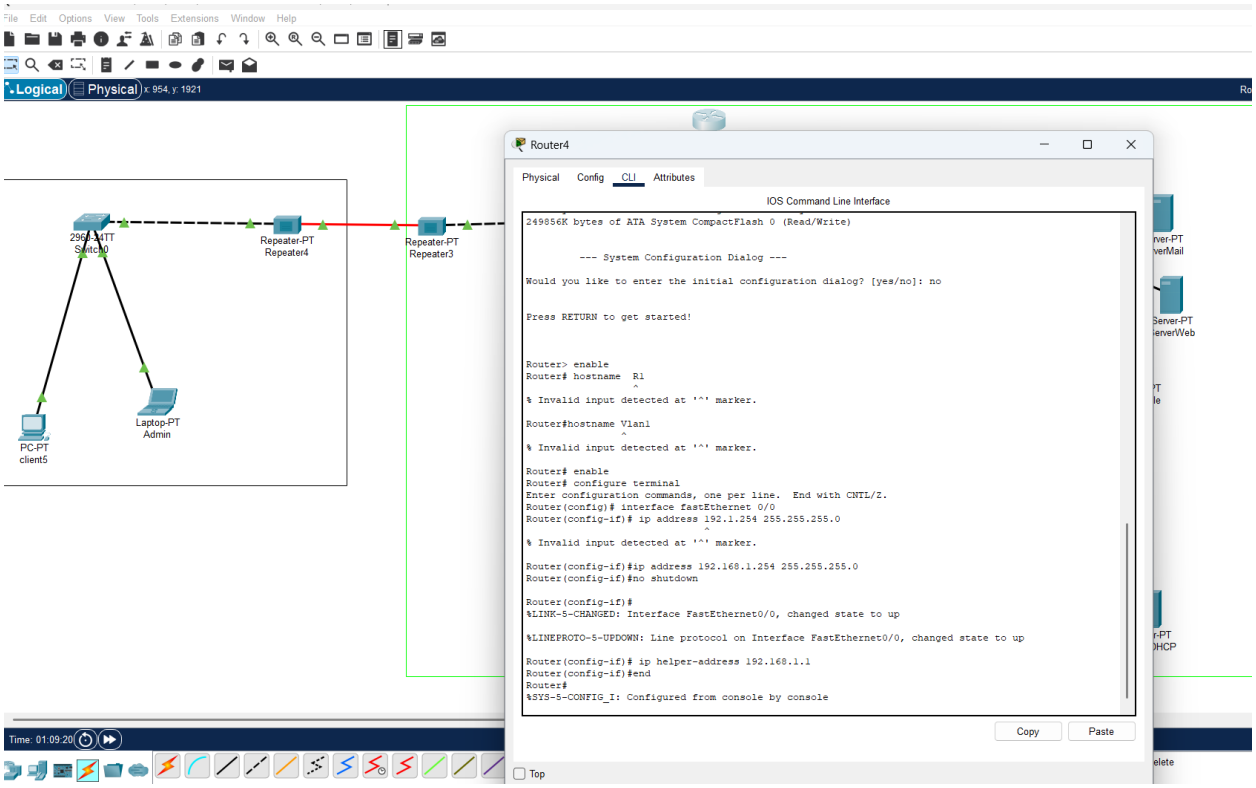
Date : Le/10/12/25

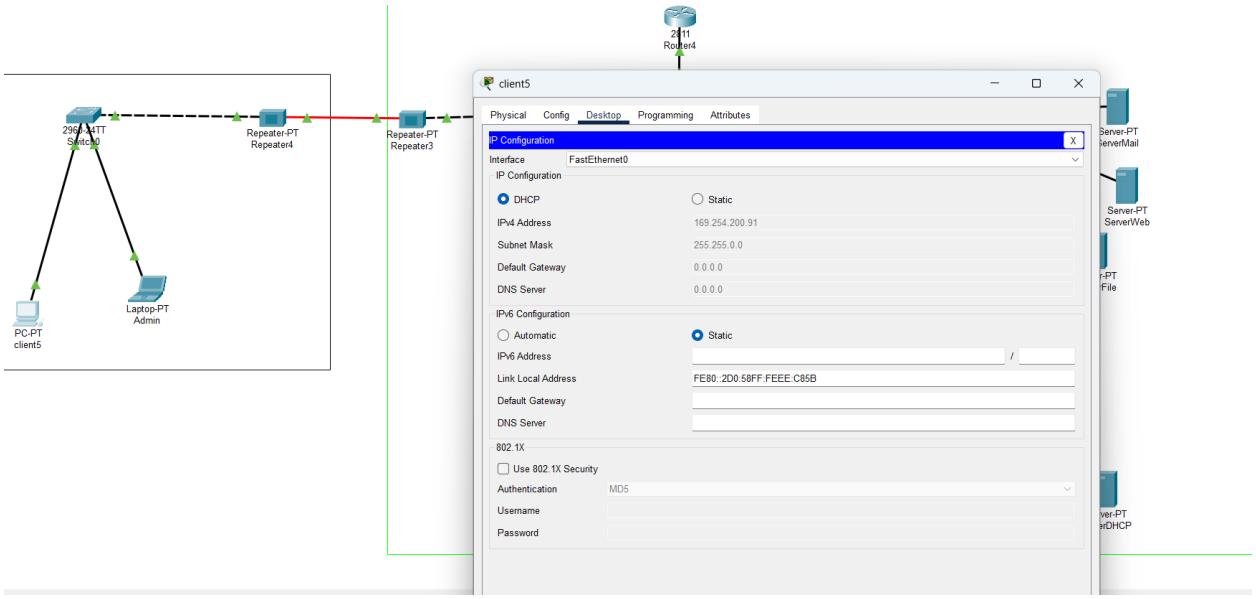
Les PC doivent recevoir une adresse IPv6 automatiquement.

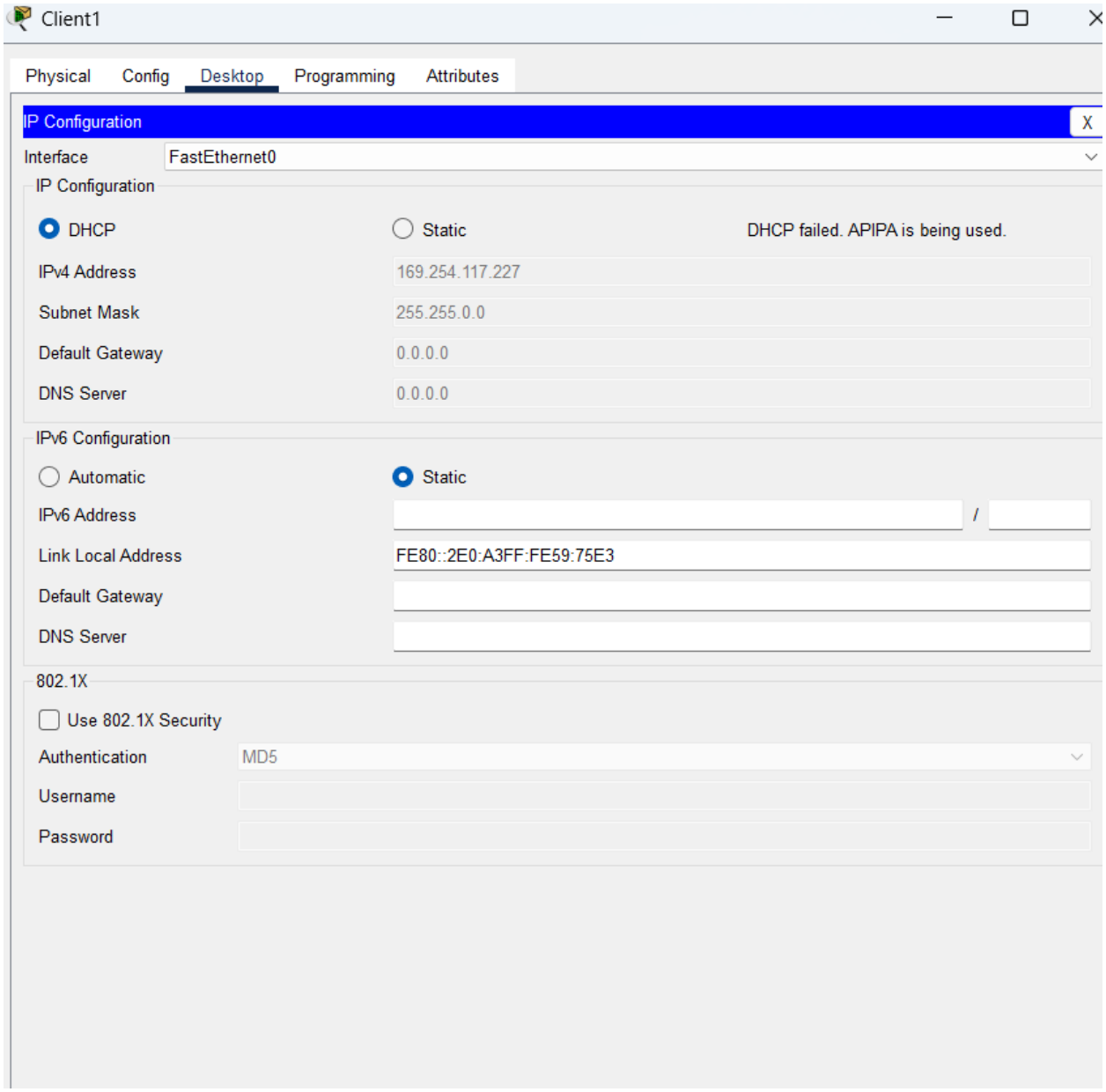
Travaux Dirigés

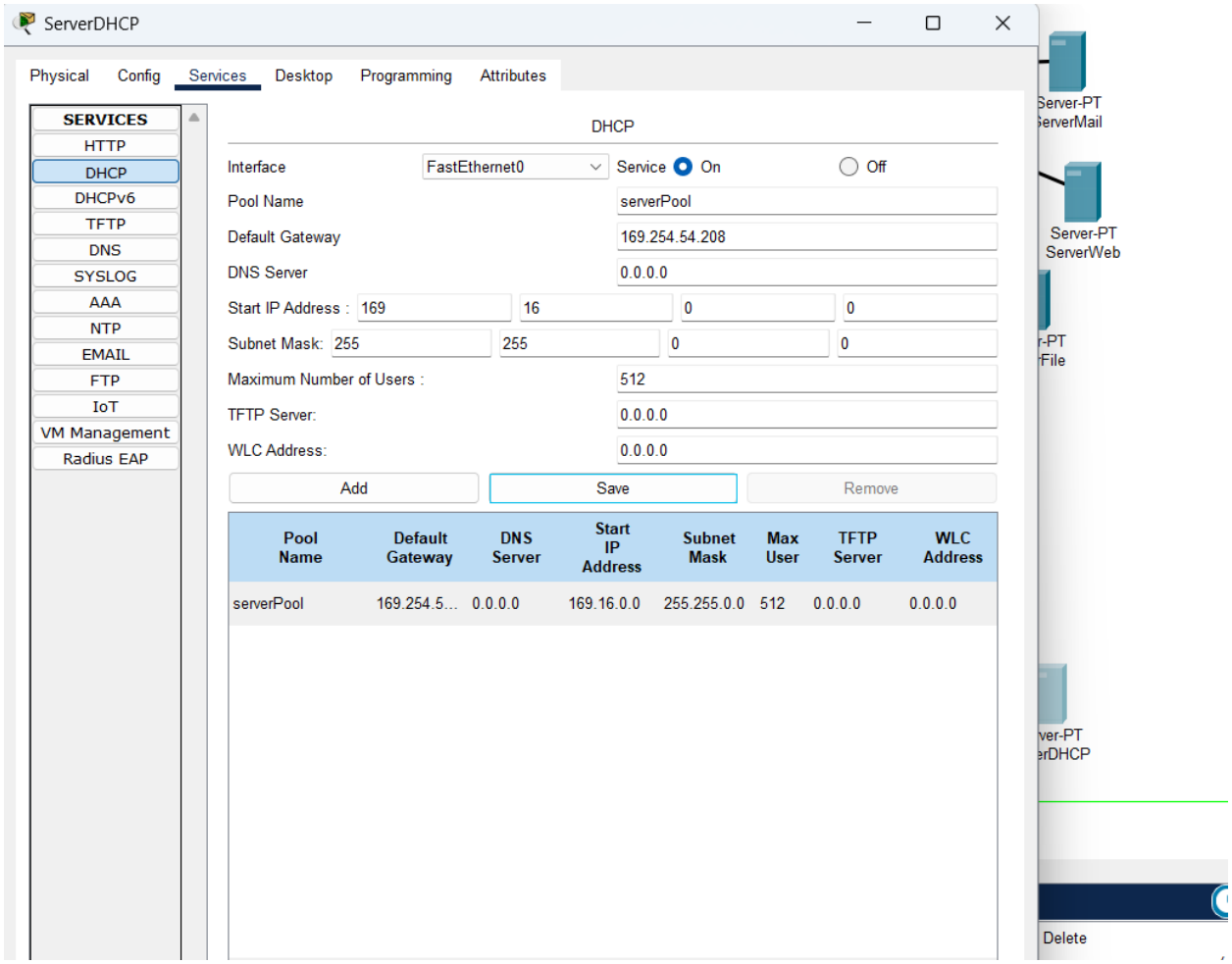
1. Reproduisez cette topologie en configurant les services DHCP afin d'attribuer automatiquement les adresses IP aux dispositifs du réseau.

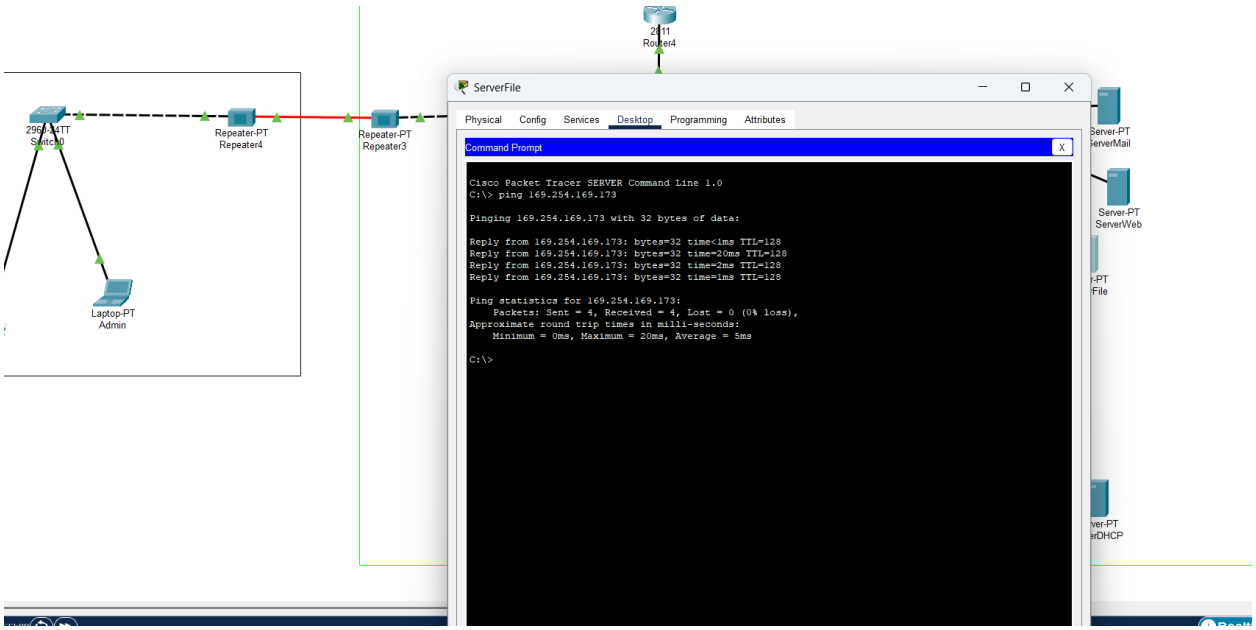


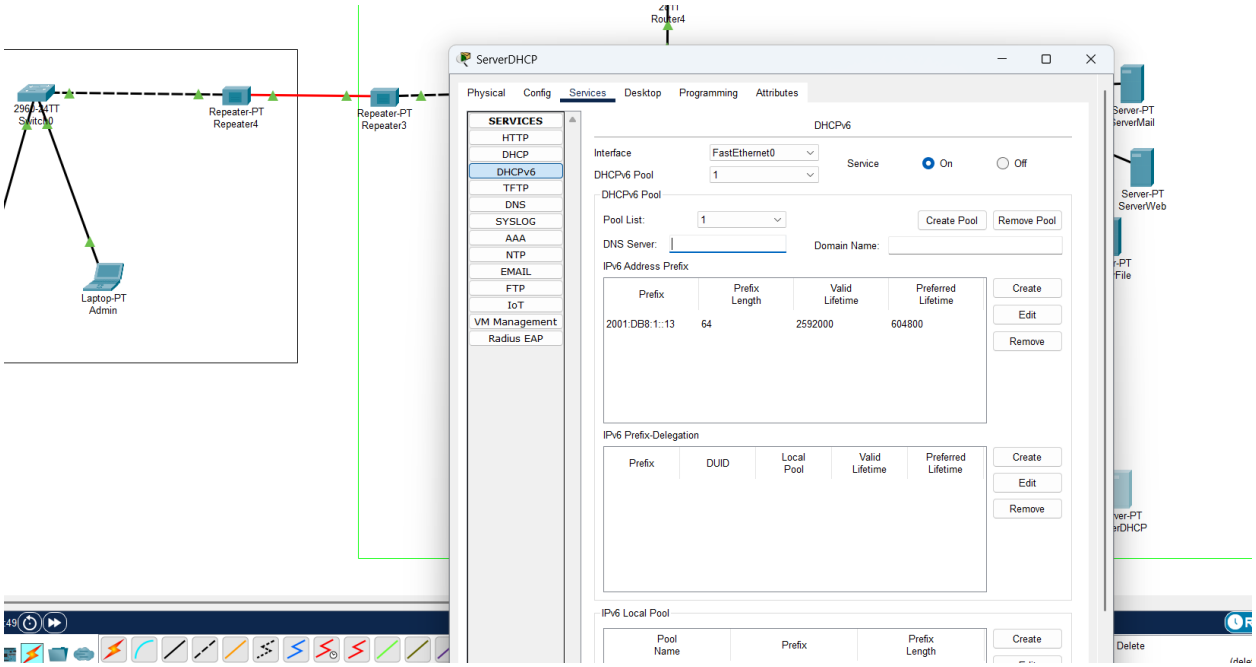

Router4
Physical
Config
CLI
Attributes
IOS Command Line Interface
249856K bytes of ATA System CompactFlash 0 (Read/Write)
--- System Configuration Dialog ---
Would you like to enter the initial configuration dialog? [yes/no]: no
Press RETURN to get started!
Router> enable
Router# hostname R1
% Invalid input detected at '^' marker.
Router#hostname Vlan1
% Invalid input detected at '^' marker.
Router# enable
Router# configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)# interface fastEthernet 0/0
Router(config-if)# ip address 192.1.254 255.255.255.0
% Invalid input detected at '^' marker.
Router(config-if)#ip address 192.168.1.254 255.255.255.0
Router(config-if)#no shutdown
Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
Router(config-if)# ip helper-address 192.168.1.1
Router(config-if)#end
Router#
%SYS-5-CONFIG_I: Configured from console by console
Copy
Paste
Top
Logical
Physical
Repeater-PT Repeater4
Repeater-PT Repeater3
Laptop-PT Admin
PC-PT client5


2811 Router4
client5
Physical
Config
Desktop
Programming
Attributes
IP Configuration
Interface
FastEthernet0
DHCP
Static
IPv4 Address
169.254.200.91
Subnet Mask
255.255.0.0
Default Gateway
0.0.0.0
DNS Server
0.0.0.0
IPv6 Configuration
Automatic
Static
IPv6 Address
Link Local Address
FE80::2D0:58FF:FEEE:C85B
Default Gateway
DNS Server
802.1X
Use 802.1X Security
Authentication
MD5
Username
Password
Repeater-PT Repeater4
Repeater-PT Repeater3
Laptop-PT Admin
PC-PT client5


Client1
Physical
Config
Desktop
Programming
Attributes
IP Configuration
X
Interface
FastEthernet0
IP Configuration
DHCP
Static
DHCP failed. APIPA is being used.
IPv4 Address
169.254.117.227
Subnet Mask
255.255.0.0
Default Gateway
0.0.0.0
DNS Server
0.0.0.0
IPv6 Configuration
Automatic
Static
IPv6 Address
/
Link Local Address
FE80::2E0:A3FF:FE59:75E3
Default Gateway
DNS Server
802.1X
Use 802.1X Security
Authentication
MD5
Username
Password

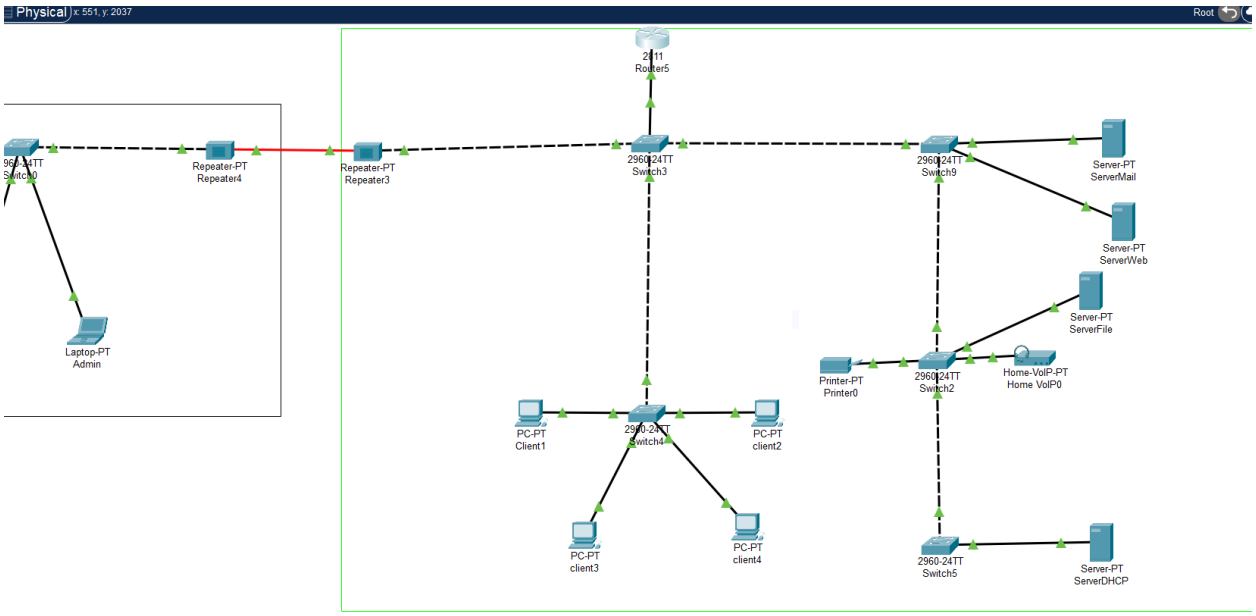

ServerDHCP
Physical
Config
Services
Desktop
Programming
Attributes
SERVICES
HTTP
DHCP
DHCPv6
TFTP
DNS
SYSLOG
AAA
NTP
EMAIL
FTP
IoT
VM Management
Radius EAP
DHCP
Interface
FastEthernet0
Service
On
Off
Pool Name
serverPool
Default Gateway
169.254.54.208
DNS Server
0.0.0.0
Start IP Address :
169
16
0
0
Subnet Mask:
255
255
0
0
Maximum Number of Users :
512
TFTP Server:
0.0.0.0
WLC Address:
0.0.0.0
Add
Save
Remove
Pool Name
Default Gateway
DNS Server
Start IP Address
Subnet Mask
Max User
TFTP Server
WLC Address
serverPool
169.254.5...
0.0.0.0
169.16.0.0
255.255.0.0
512
0.0.0.0
0.0.0.0
Server-PT ServerMail
Server-PT ServerWeb
Delete

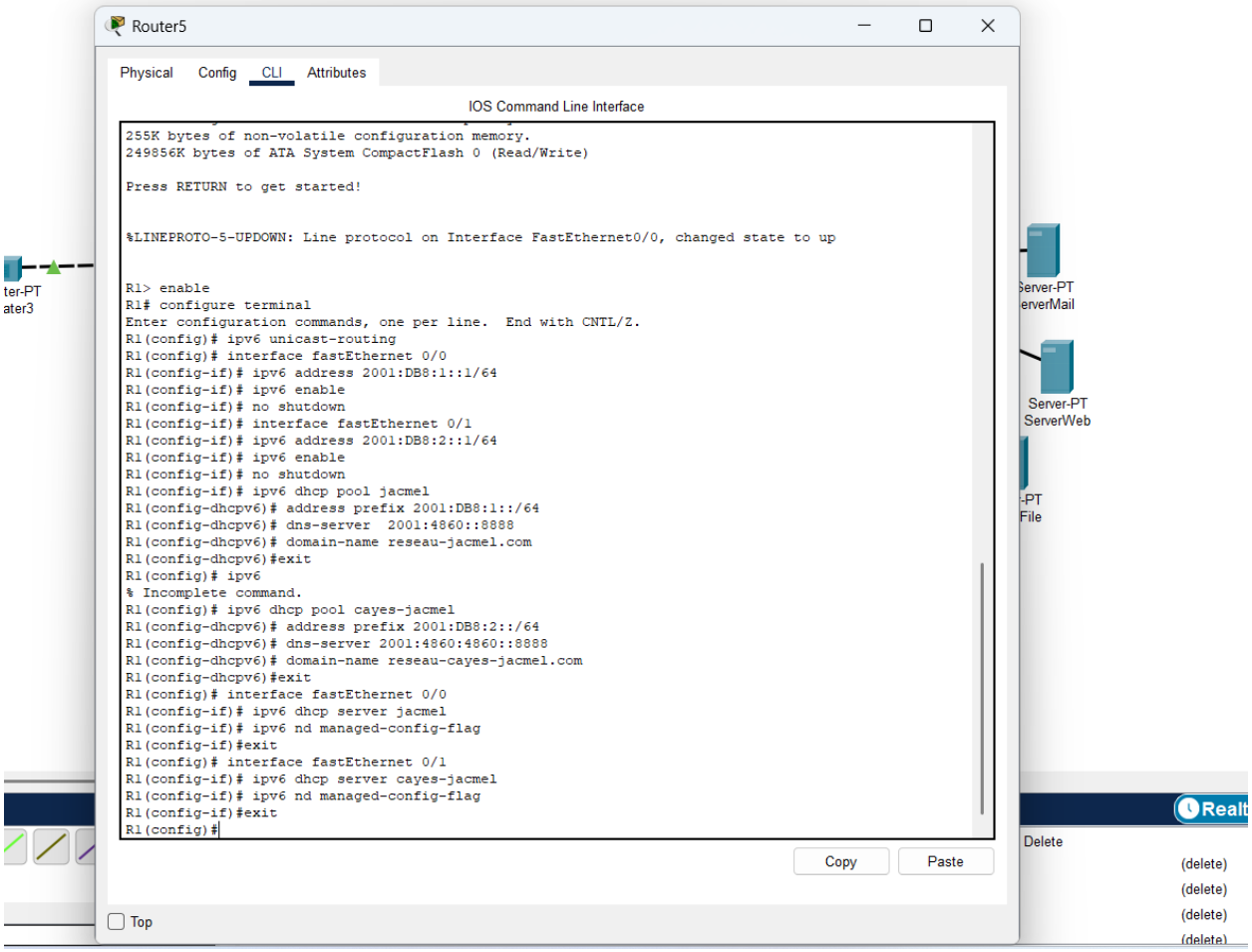

Repeater-PT Repeater4
Repeater-PT Repeater3
Laptop-PT Admin
ServerFile
Physical
Config
Services
Desktop
Programming
Attributes
Command Prompt
Cisco Packet Tracer SERVER Command Line 1.0
C:\> ping 169.254.169.173
Pinging 169.254.169.173 with 32 bytes of data:
Reply from 169.254.169.173: bytes=32 time<1ms TTL=128
Reply from 169.254.169.173: bytes=32 time=20ms TTL=128
Reply from 169.254.169.173: bytes=32 time=2ms TTL=128
Reply from 169.254.169.173: bytes=32 time=1ms TTL=128
Ping statistics for 169.254.169.173:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 20ms, Average = 5ms
C:\>

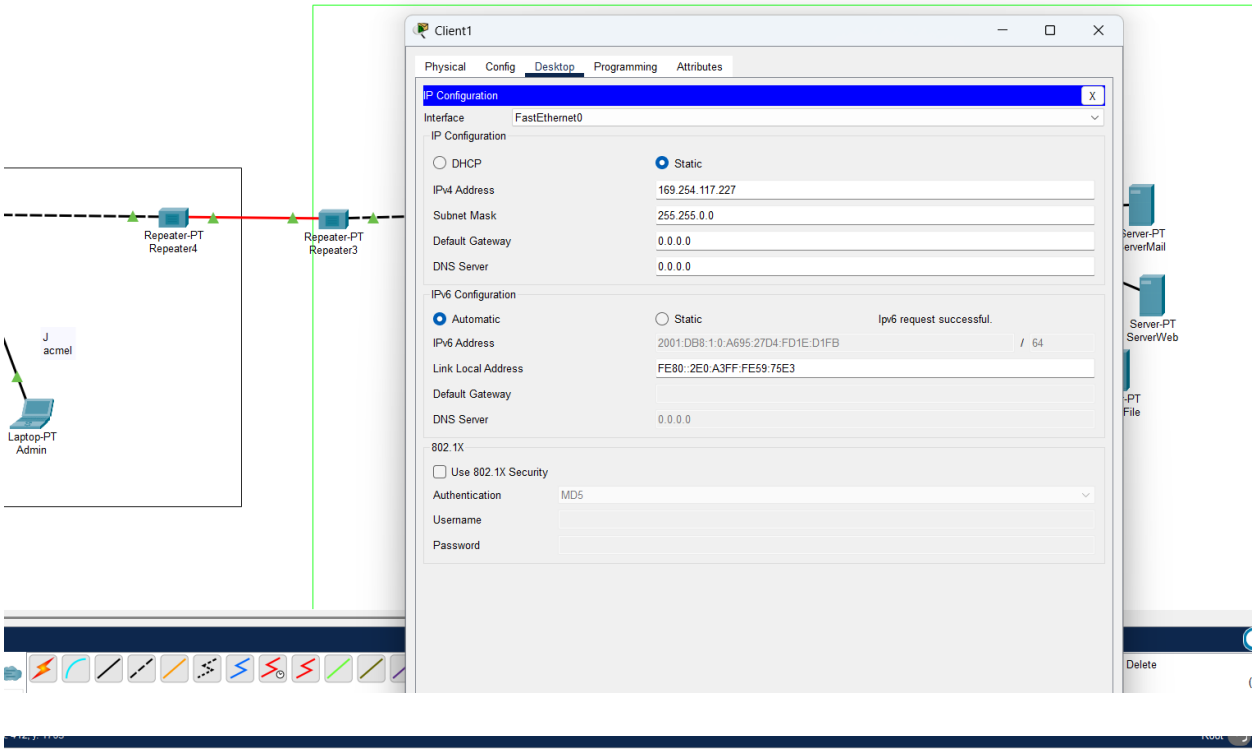


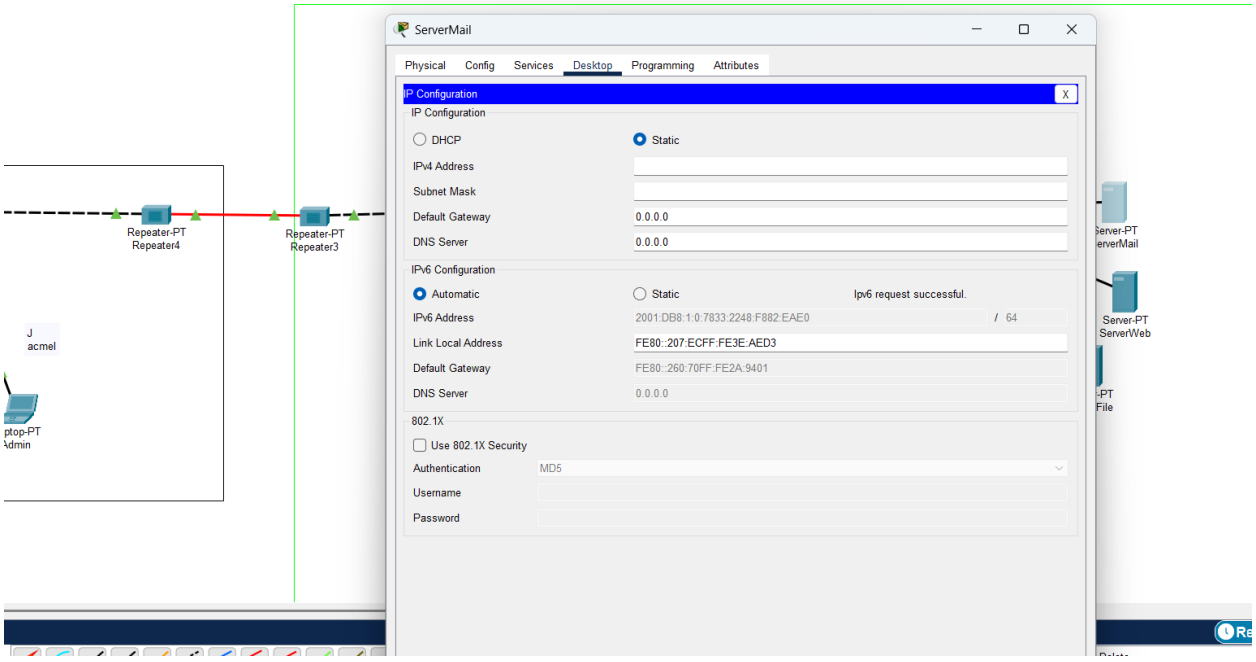
2. Reproduisez cette topologie en configurant les services DHCPv6 afin d'attribuer automatiquement les adresses IP aux dispositifs du

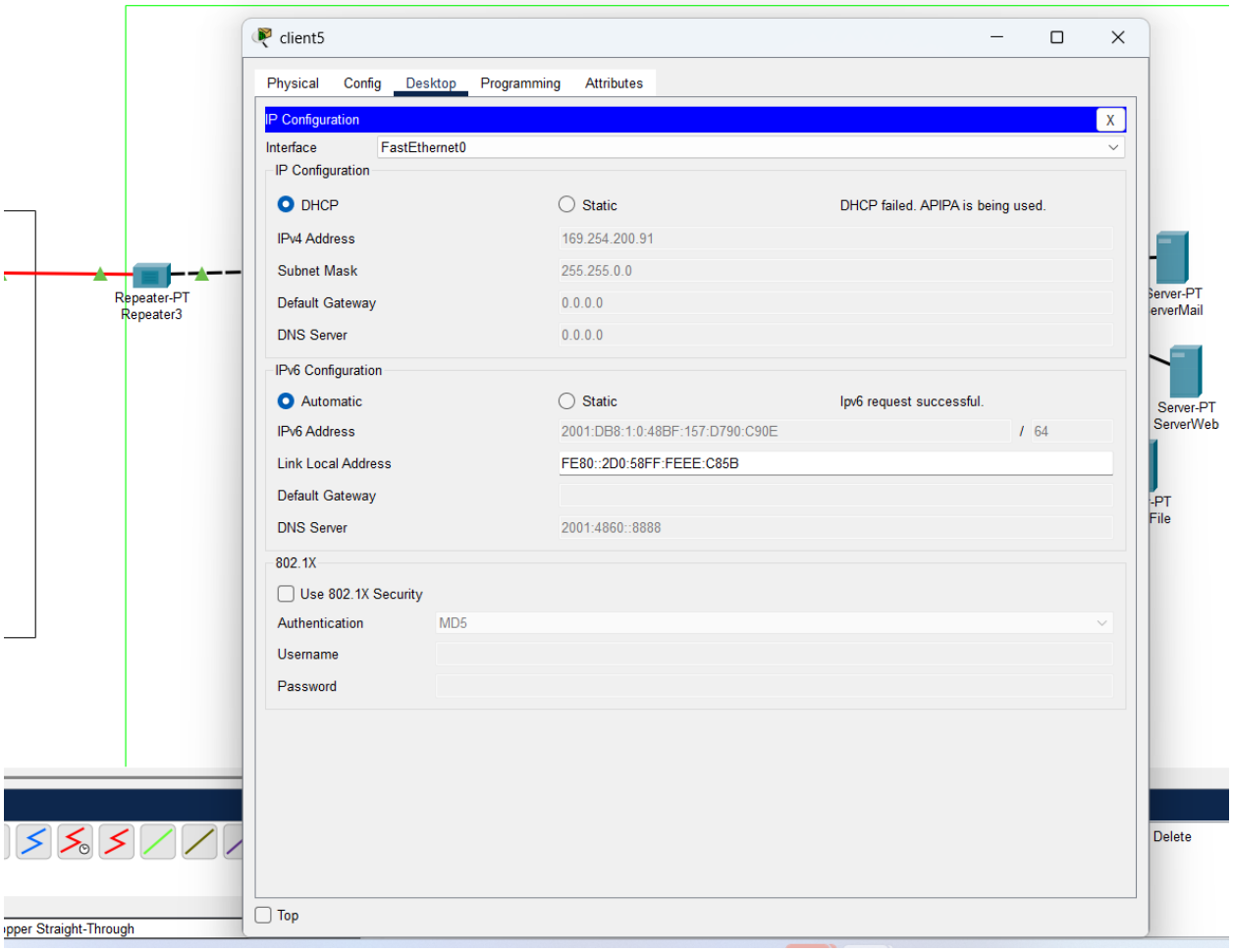
réseau.

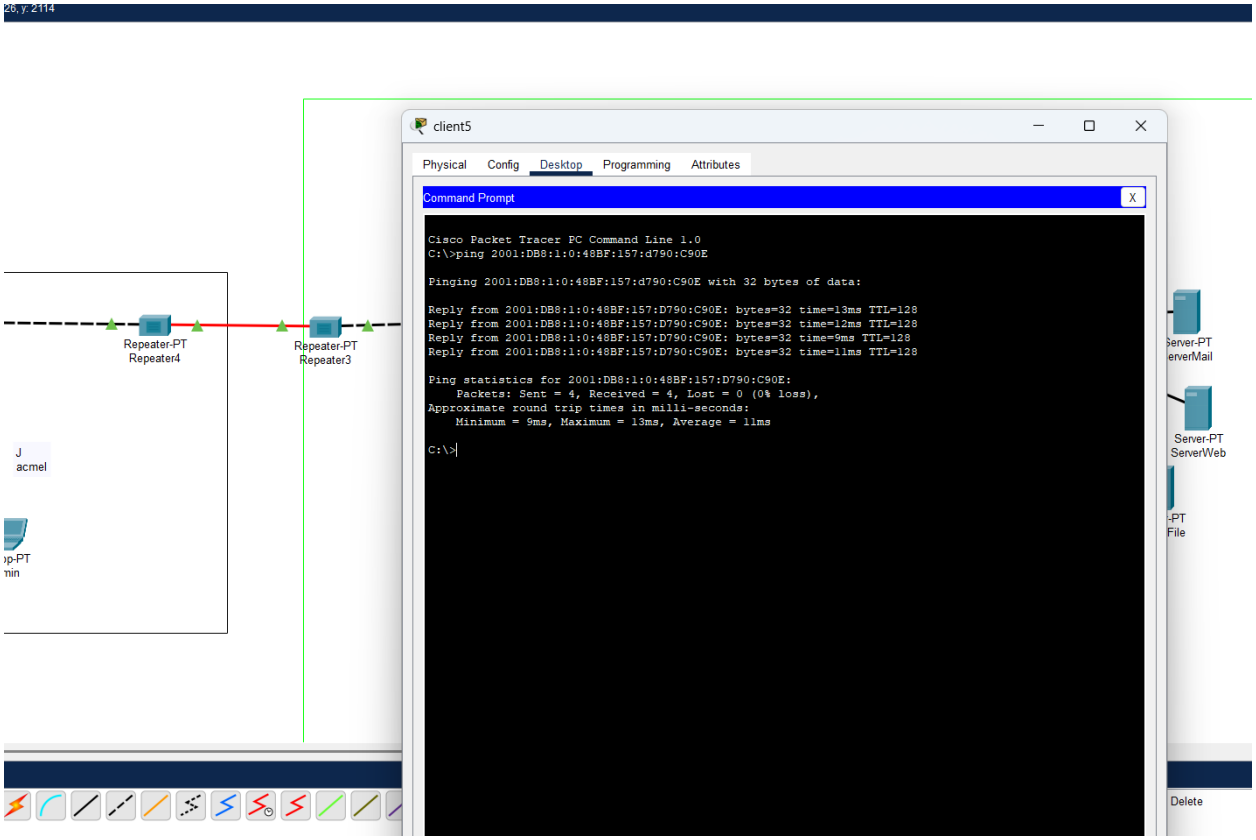


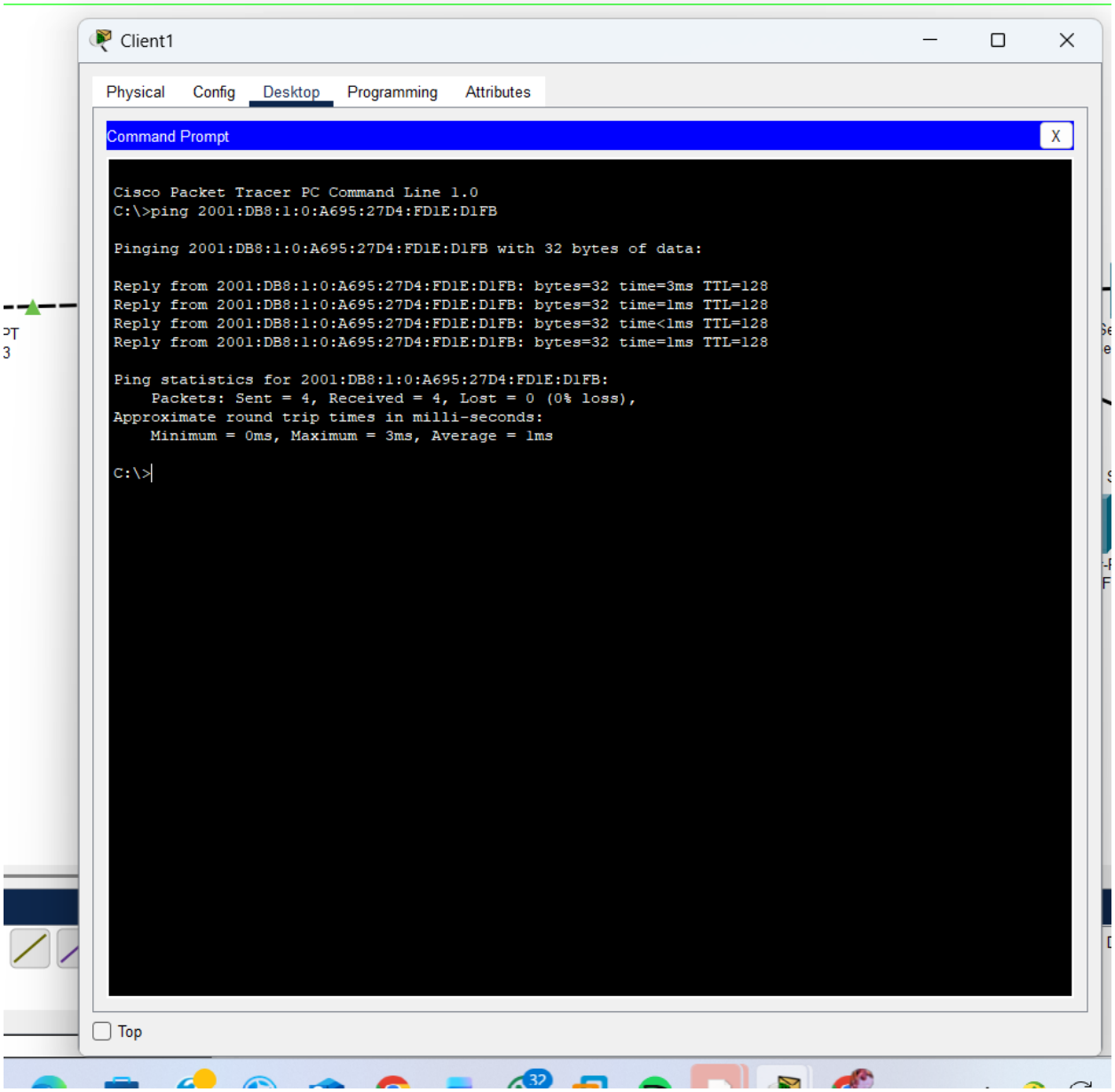

Router5
Physical
Config
CLI
Attributes
IOS Command Line Interface
255K bytes of non-volatile configuration memory.
249856K bytes of ATA System CompactFlash 0 (Read/Write)
Press RETURN to get started!
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
R1> enable
R1# configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
R1(config)# ipv6 unicast-routing
R1(config)# interface fastEthernet 0/0
R1(config-if)# ipv6 address 2001:DB8:1::1/64
R1(config-if)# ipv6 enable
R1(config-if)# no shutdown
R1(config-if)# interface fastEthernet 0/1
R1(config-if)# ipv6 address 2001:DB8:2::1/64
R1(config-if)# ipv6 enable
R1(config-if)# no shutdown
R1(config-if)# ipv6 dhcp pool jacmel
R1(config-dhcpv6)# address prefix 2001:DB8:1::/64
R1(config-dhcpv6)# dns-server 2001:4860::8888
R1(config-dhcpv6)# domain-name reseau-jacmel.com
R1(config-dhcpv6)#exit
R1(config)# ipv6
% Incomplete command.
R1(config)# ipv6 dhcp pool cayes-jacmel
R1(config-dhcpv6)# address prefix 2001:DB8:2::/64
R1(config-dhcpv6)# dns-server 2001:4860:4860::8888
R1(config-dhcpv6)# domain-name reseau-cayes-jacmel.com
R1(config-dhcpv6)#exit
R1(config)# interface fastEthernet 0/0
R1(config-if)# ipv6 dhcp server jacmel
R1(config-if)# ipv6 nd managed-config-flag
R1(config-if)#exit
R1(config)# interface fastEthernet 0/1
R1(config-if)# ipv6 dhcp server cayes-jacmel
R1(config-if)# ipv6 nd managed-config-flag
R1(config-if)#exit
R1(config)#
Copy
Paste
Top
Server-PT
ServerWeb
Delete
(delete)
(delete)
(delete)

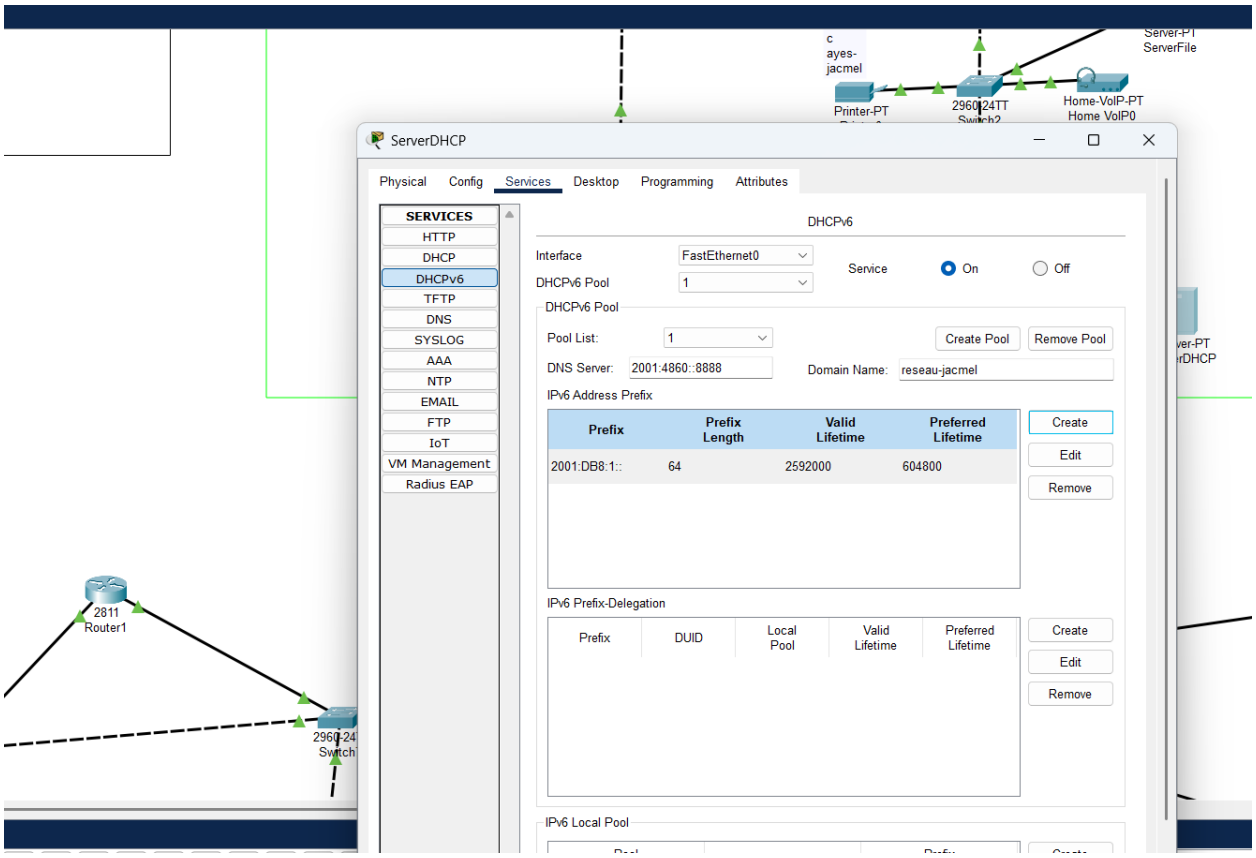

Client1
Physical
Config
Desktop
Programming
Attributes
IP Configuration
Interface
FastEthernet0
IP Configuration
DHCP
Static
IPv4 Address
169.254.117.227
Subnet Mask
255.255.0.0
Default Gateway
0.0.0.0
DNS Server
0.0.0.0
IPv6 Configuration
Automatic
Static
Ipv6 request successful.
IPv6 Address
2001:DB8:1:0:A695:27D4:FD1E:D1FB
/ 64
Link Local Address
FE80::2E0:A3FF:FE59:75E3
Default Gateway
DNS Server
0.0.0.0
802.1X
Use 802.1X Security
Authentication
MD5
Username
Password
Repeater-PT
Repeater4
Repeater-PT
Repeater3
acmel
Laptop-PT
Admin
Server-PT
ServerWeb
Delete


ServerMail
Physical
Config
Services
Desktop
Programming
Attributes
IP Configuration
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 request successful.
IPv6 Address
2001:DB8:1:0:7833:2248:F882:EAE0
/ 64
Link Local Address
FE80::207:ECFF:FE3E:AED3
Default Gateway
FE80::260:70FF:FE2A:9401
DNS Server
0.0.0.0
802.1X
Use 802.1X Security
Authentication
MD5
Username
Password
Repeater-PT
Repeater4
Repeater-PT
Repeater3
acmel
Server-PT
ServerWeb


client5
Physical
Config
Desktop
Programming
Attributes
IP Configuration
X
Interface
FastEthernet0
IP Configuration
DHCP
Static
DHCP failed. APIPA is being used.
IPv4 Address
169.254.200.91
Subnet Mask
255.255.0.0
Default Gateway
0.0.0.0
DNS Server
0.0.0.0
IPv6 Configuration
Automatic
Static
Ipv6 request successful.
IPv6 Address
2001:DB8:1:0:48BF:157:D790:C90E
/ 64
Link Local Address
FE80::2D0:58FF:FEEE:C85B
Default Gateway
DNS Server
2001:4860::8888
802.1X
Use 802.1X Security
Authentication
MD5
Username
Password
Top
Repeater-PT
Repeater3
Server-PT
ServerWeb
Delete
Straight-Through

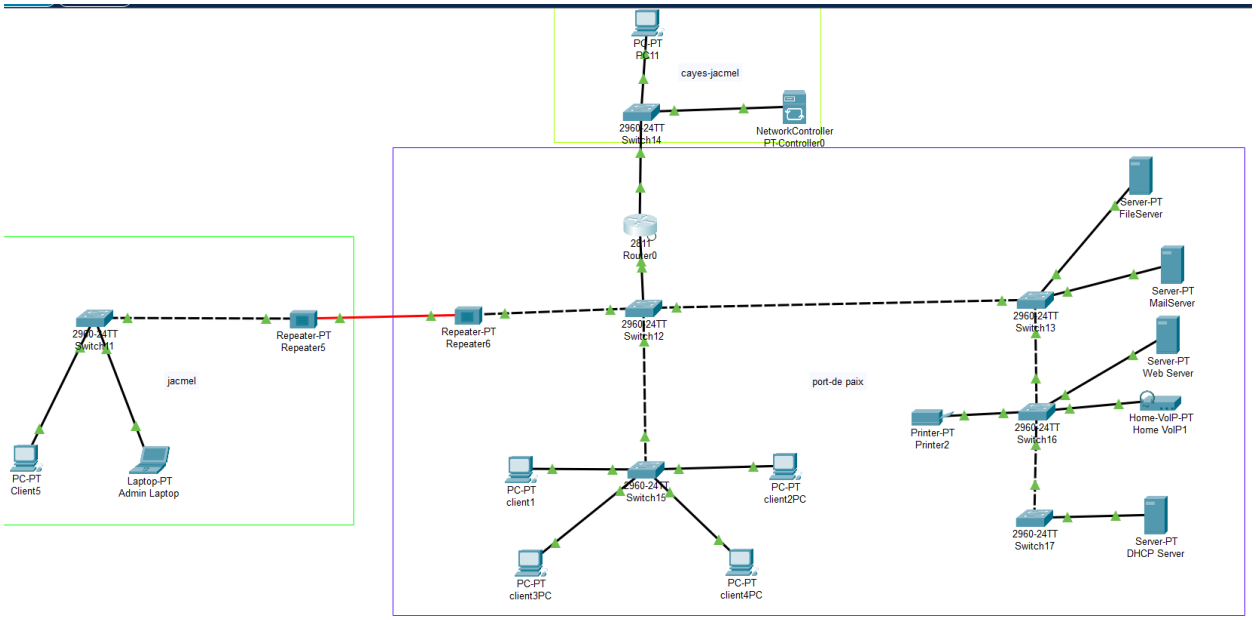

client5
Physical
Config
Desktop
Programming
Attributes
Command Prompt
X
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 2001:DB8:1:0:48BF:157:d790:C90E
Pinging 2001:DB8:1:0:48BF:157:d790:C90E with 32 bytes of data:
Reply from 2001:DB8:1:0:48BF:157:D790:C90E: bytes=32 time=13ms TTL=128
Reply from 2001:DB8:1:0:48BF:157:D790:C90E: bytes=32 time=12ms TTL=128
Reply from 2001:DB8:1:0:48BF:157:D790:C90E: bytes=32 time=9ms TTL=128
Reply from 2001:DB8:1:0:48BF:157:D790:C90E: bytes=32 time=11ms TTL=128
Ping statistics for 2001:DB8:1:0:48BF:157:D790:C90E:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 9ms, Maximum = 13ms, Average = 11ms
C:\>
Repeater-PT
Repeater4
Repeater-PT
Repeater3
Server-PT
ServerWeb
Delete

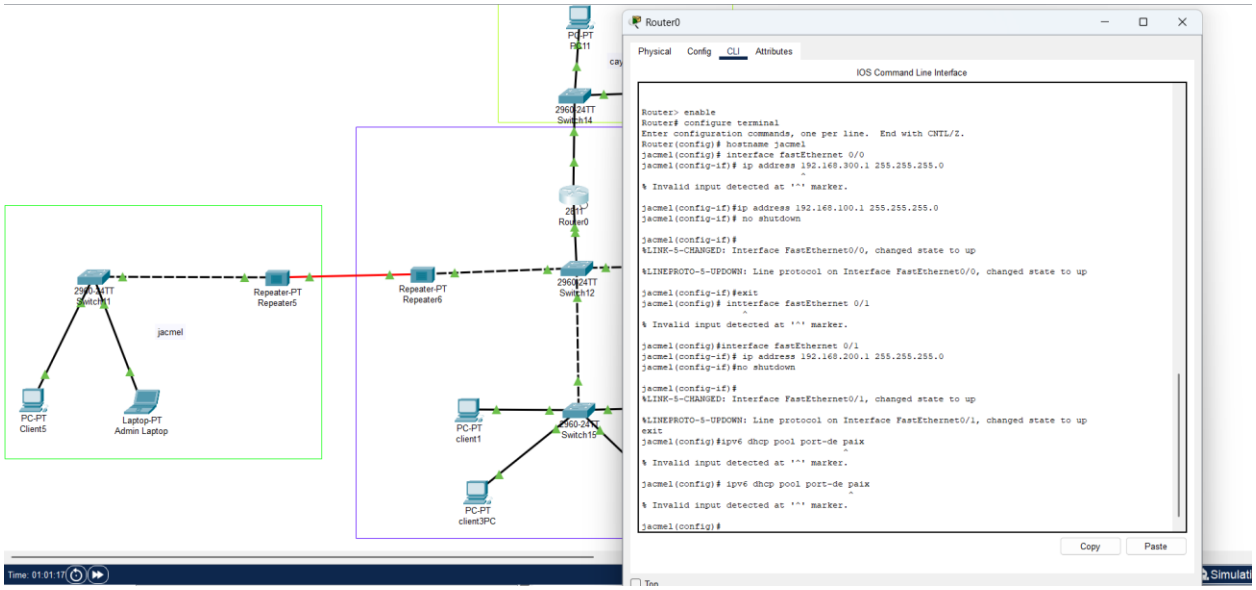

Client1
Physical
Config
Desktop
Programming
Attributes
Command Prompt
X
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 2001:DB8:1:0:A695:27D4:FD1E:D1FB
Pinging 2001:DB8:1:0:A695:27D4:FD1E:D1FB with 32 bytes of data:
Reply from 2001:DB8:1:0:A695:27D4:FD1E:D1FB: bytes=32 time=3ms TTL=128
Reply from 2001:DB8:1:0:A695:27D4:FD1E:D1FB: bytes=32 time=1ms TTL=128
Reply from 2001:DB8:1:0:A695:27D4:FD1E:D1FB: bytes=32 time<1ms TTL=128
Reply from 2001:DB8:1:0:A695:27D4:FD1E:D1FB: bytes=32 time=1ms TTL=128
Ping statistics for 2001:DB8:1:0:A695:27D4:FD1E:D1FB:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 3ms, Average = 1ms
C:\>
Top

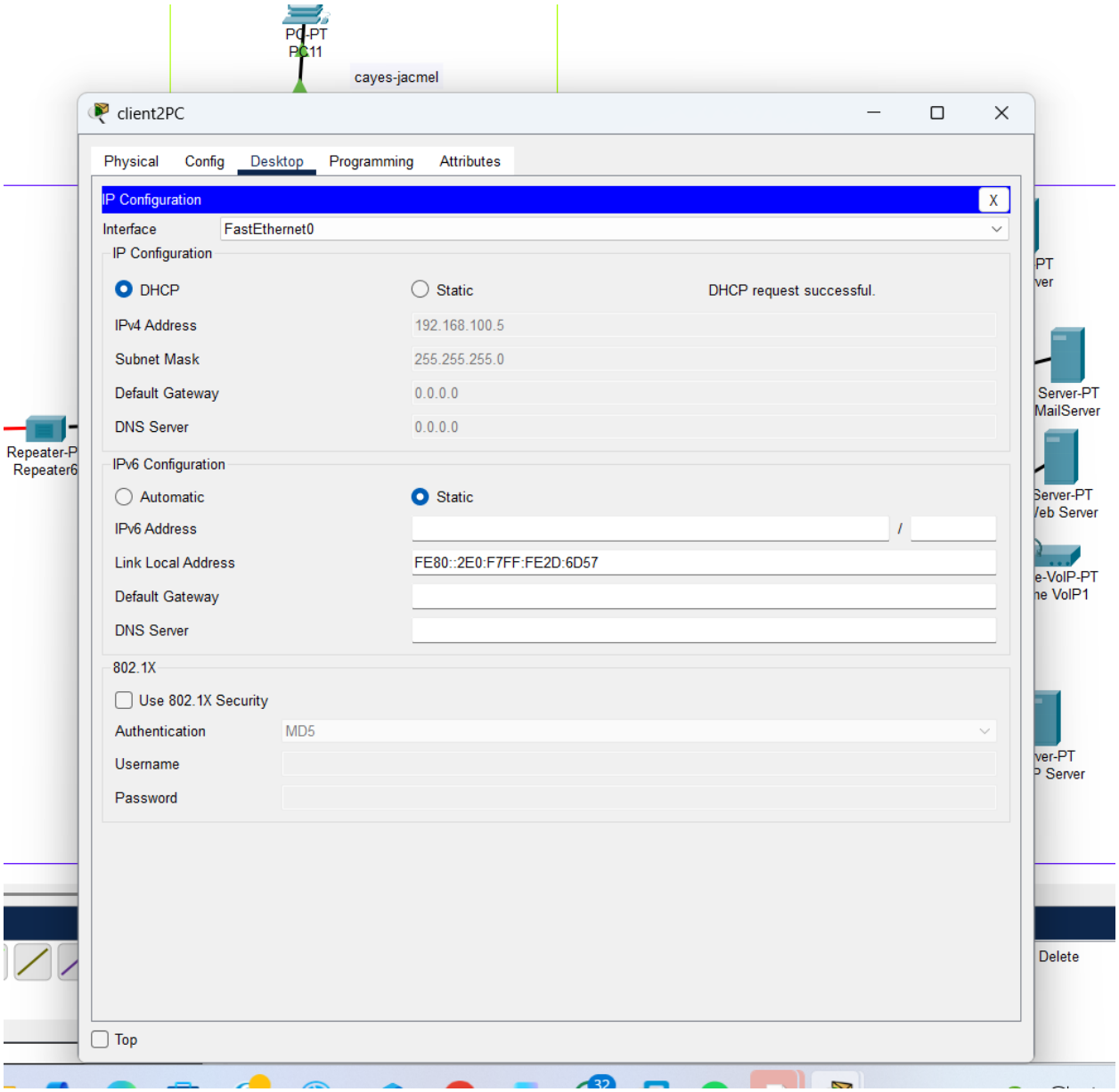


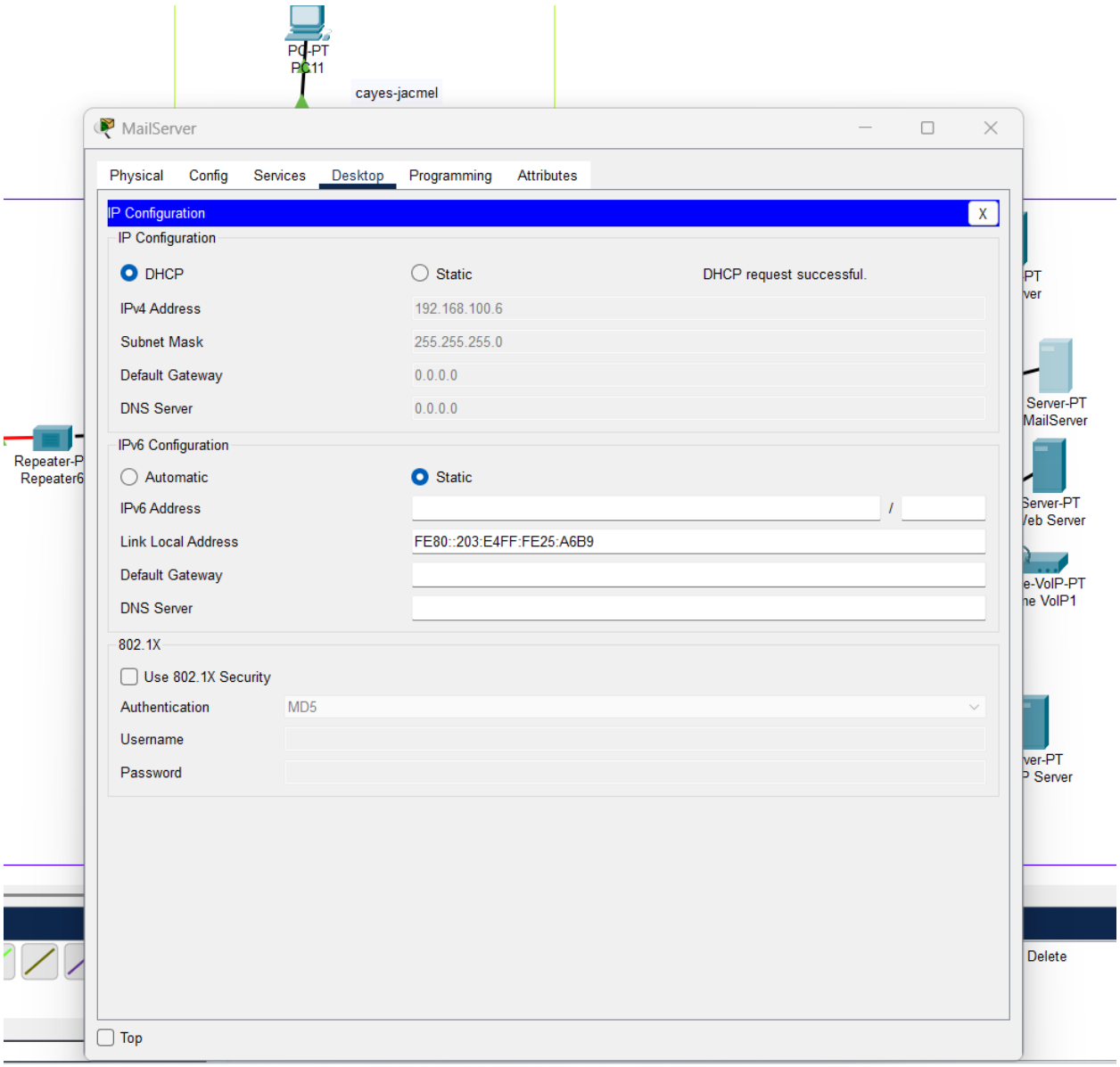
3. Reproduisez cette topologie en configurant les services DHCP, en utilisant le routeur comme serveur DHCP afin d'attribuer

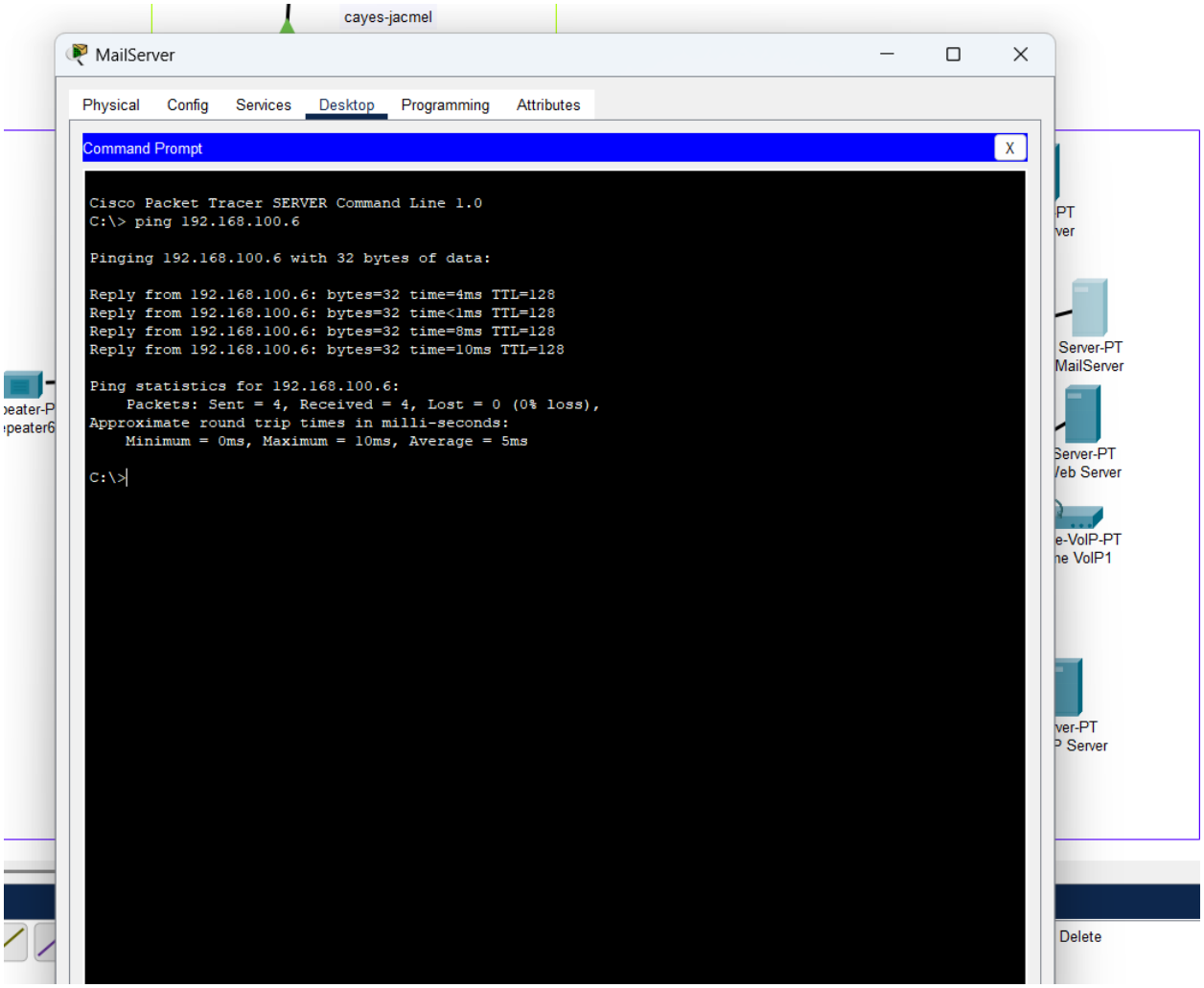
automatiquement les adresses IP aux différents hôtes du réseau.

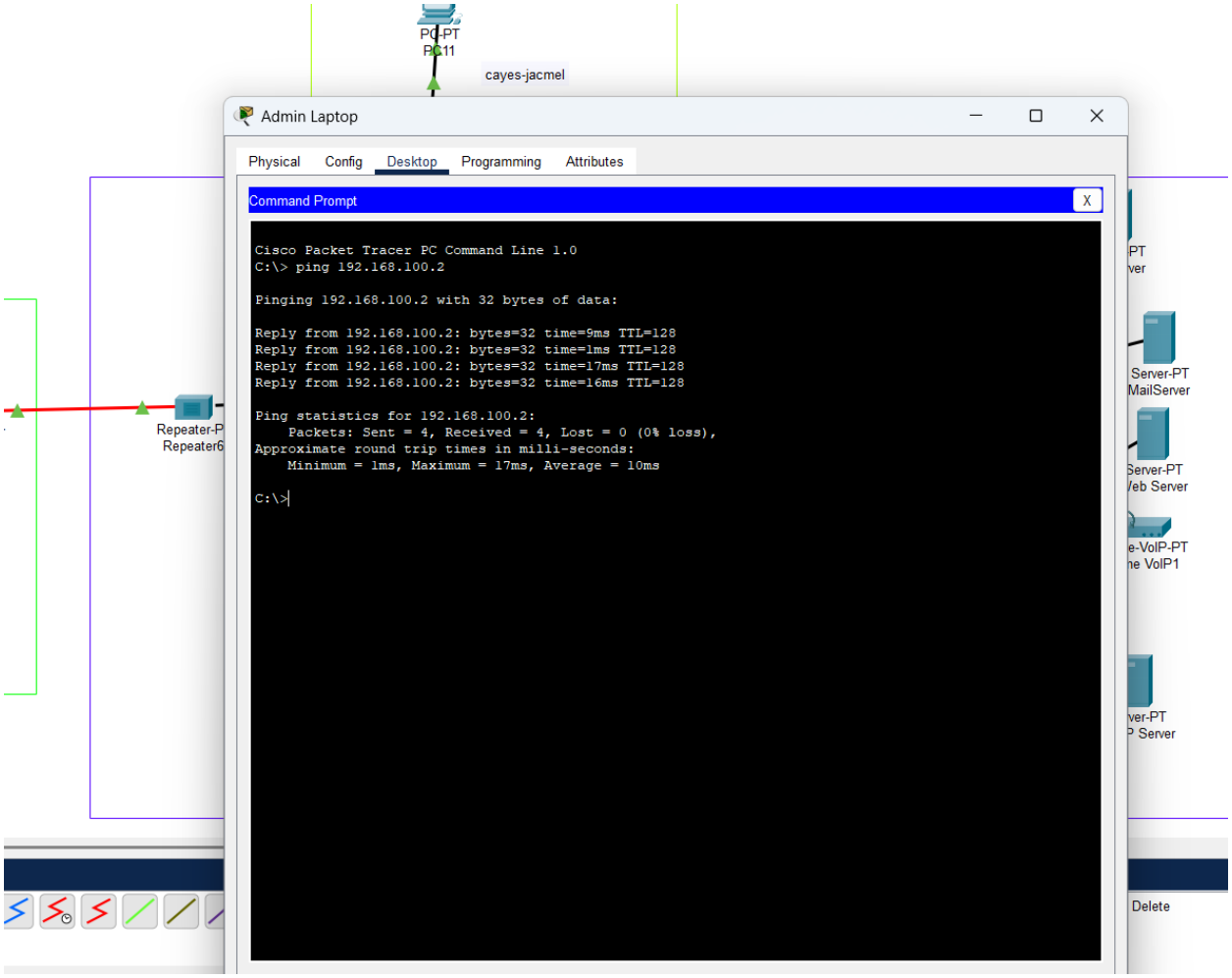

PC-PT
PC11
cayes-jacmel
2960-24TT
Switch14
NetworkController
PT-Controller0
2811
Router0
Server-PT
FileServer
Server-PT
MailServer
Server-PT
Web Server
Home-VoIP-PT
Home VoIP1
2960-24TT
Switch13
2960-24TT
Switch16
2960-24TT
Switch17
Server-PT
DHCP Server
Printer-PT
Printer2
Repeater-PT
Repeater6
2960-24TT
Switch12
port-de paix
2960-24TT
Switch11
Repeater-PT
Repeater5
jacmel
PC-PT
Client5
Laptop-PT
Admin Laptop
PC-PT
client1
2960-24TT
Switch15
PC-PT
client2PC
PC-PT
client3PC
PC-PT
client4PC

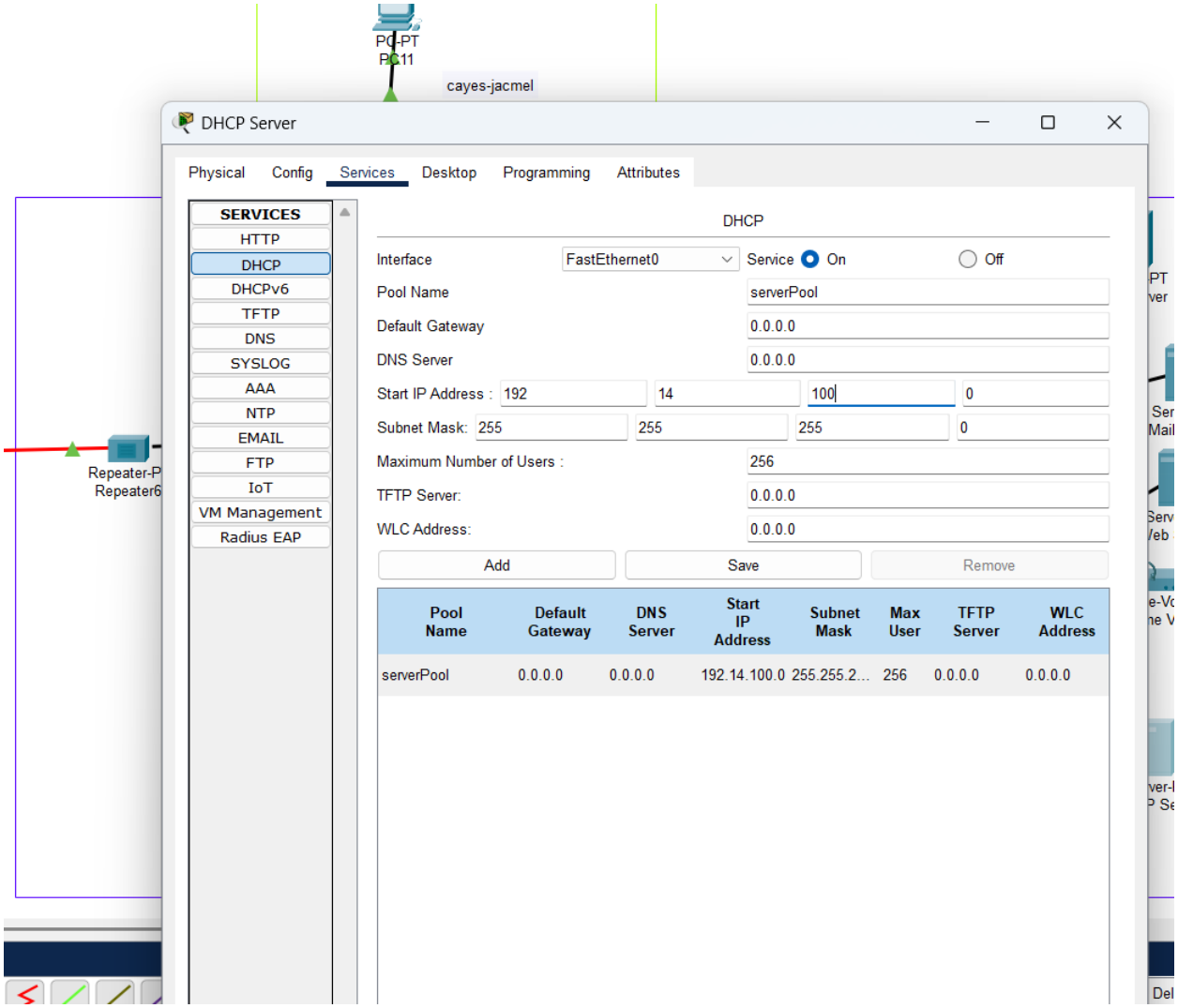

Router0
Physical
Config
CLI
Attributes
IOS Command Line Interface
Router> enable
Router# configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)# hostname jacmel
jacmel(config)# interface fastEthernet 0/0
jacmel(config-if)# ip address 192.168.300.1 255.255.255.0
% Invalid input detected at '^' marker.
jacmel(config-if)#ip address 192.168.100.1 255.255.255.0
jacmel(config-if)# no shutdown
jacmel(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
jacmel(config-if)#exit
jacmel(config)# intterface fastEthernet 0/1
% Invalid input detected at '^' marker.
jacmel(config)#interface fastEthernet 0/1
jacmel(config-if)# ip address 192.168.200.1 255.255.255.0
jacmel(config-if)#no shutdown
jacmel(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
exit
jacmel(config)#ipv6 dhcp pool port-de paix
% Invalid input detected at '^' marker.
jacmel(config)# ipv6 dhcp pool port-de paix
% Invalid input detected at '^' marker.
jacmel(config)#
Copy
Paste
Time: 01:01:17


PC-PT
PC11
cayes-jacmel
client2PC
Physical
Config
Desktop
Programming
Attributes
IP Configuration
X
Interface
FastEthernet0
IP Configuration
DHCP
Static
DHCP request successful.
IPv4 Address
192.168.100.5
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::2E0:F7FF:FE2D:6D57
Default Gateway
DNS Server
802.1X
Use 802.1X Security
Authentication
MD5
Username
Password
Top
Server-PT
MailServer
Server-PT
Web Server
e-VoIP-PT
ne VoIP1
ver-PT
P Server
Delete
Repeater-P
Repeater6


PC-PT
PC11
cayes-jacmel
MailServer
Physical
Config
Services
Desktop
Programming
Attributes
IP Configuration
X
IP Configuration
DHCP
Static
DHCP request successful.
IPv4 Address
192.168.100.6
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::203:E4FF:FE25:A6B9
Default Gateway
DNS Server
802.1X
Use 802.1X Security
Authentication
MD5
Username
Password
Top
Repeater-P
Repeater6
Server-PT
MailServer
Server-PT
eb Server
e-VoIP-PT
ne VoIP1
ver-PT
P Server
Delete

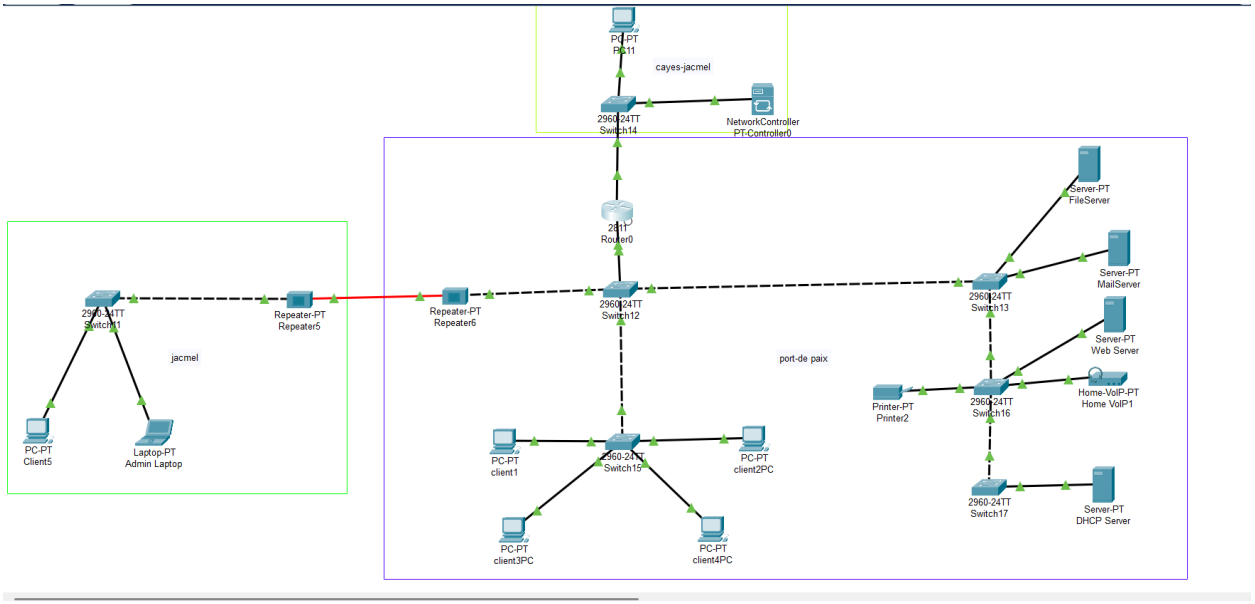

cayes-jacmel
MailServer
Physical
Config
Services
Desktop
Programming
Attributes
Command Prompt
X
Cisco Packet Tracer SERVER Command Line 1.0
C:\> ping 192.168.100.6
Pinging 192.168.100.6 with 32 bytes of data:
Reply from 192.168.100.6: bytes=32 time=4ms TTL=128
Reply from 192.168.100.6: bytes=32 time<1ms TTL=128
Reply from 192.168.100.6: bytes=32 time=8ms TTL=128
Reply from 192.168.100.6: bytes=32 time=10ms TTL=128
Ping statistics for 192.168.100.6:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 10ms, Average = 5ms
C:\>
Server-PT
MailServer
Server-PT
Web Server
e-VoIP-PT
ne VoIP1
Server
Delete

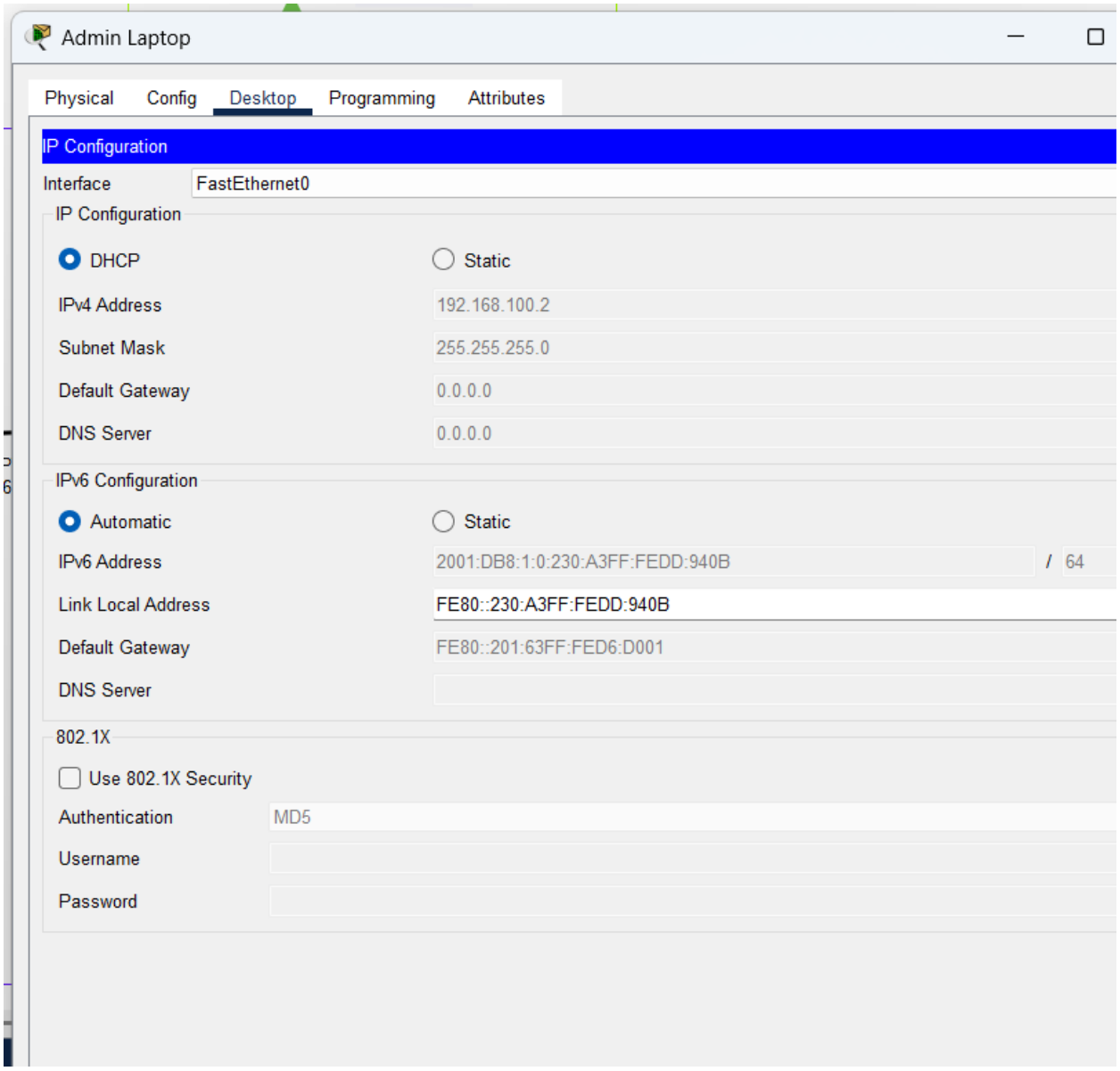

PC-PT
PC11
cayes-jacmel
Admin Laptop
Physical
Config
Desktop
Programming
Attributes
Command Prompt
X
Cisco Packet Tracer PC Command Line 1.0
C:\> ping 192.168.100.2
Pinging 192.168.100.2 with 32 bytes of data:
Reply from 192.168.100.2: bytes=32 time=9ms TTL=128
Reply from 192.168.100.2: bytes=32 time=1ms TTL=128
Reply from 192.168.100.2: bytes=32 time=17ms TTL=128
Reply from 192.168.100.2: bytes=32 time=16ms TTL=128
Ping statistics for 192.168.100.2:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 1ms, Maximum = 17ms, Average = 10ms
C:\>
Repeater-P
Repeater6
Server-PT
MailServer
Server-PT
Web Server
e-VoIP-PT
he VoIP1
ver-PT
P Server
Delete

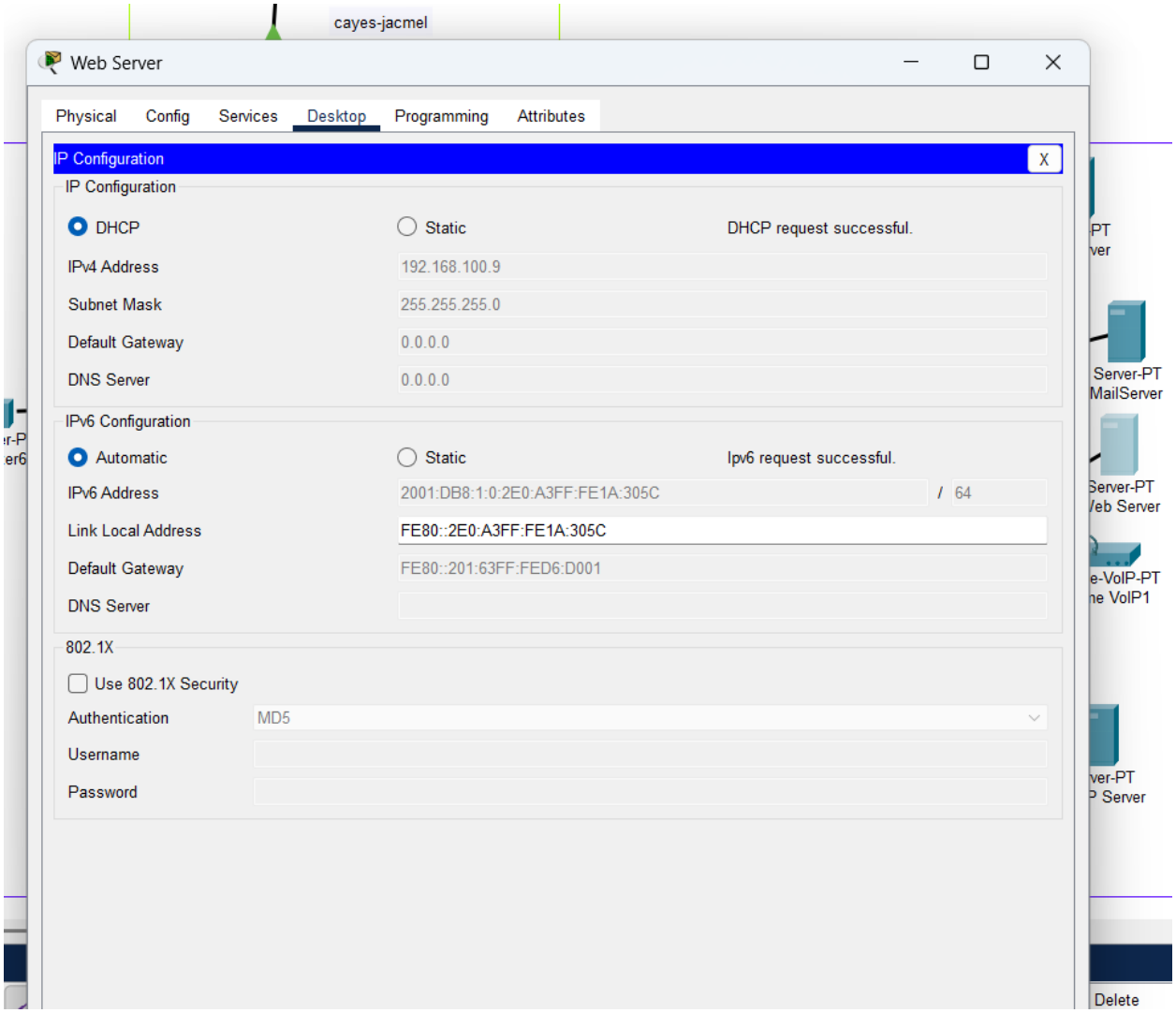


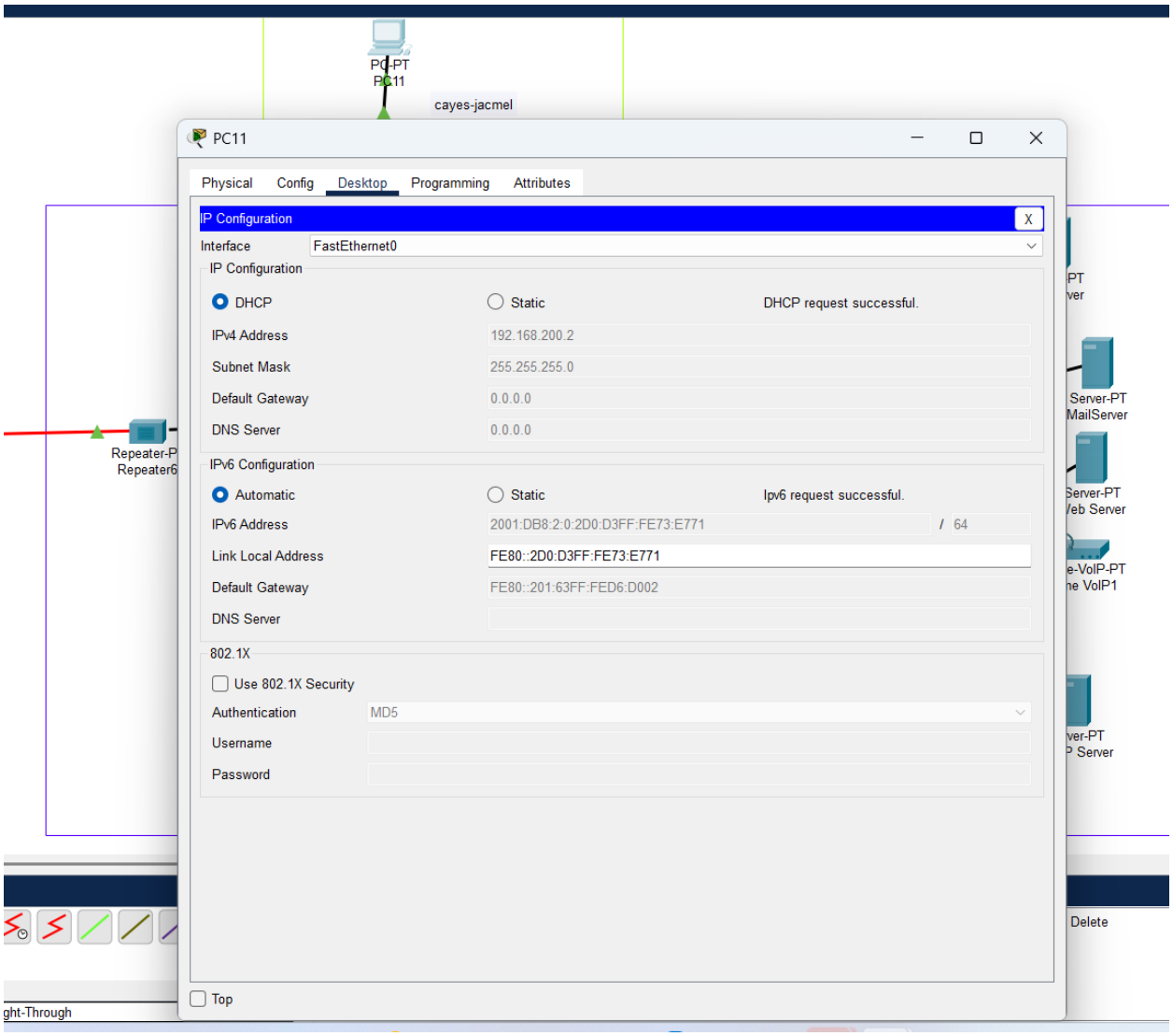
4.Reproduisez cette topologie en configurant les services DHCPv6, en utilisant le routeur comme serveur DHCP afin d'attribuer

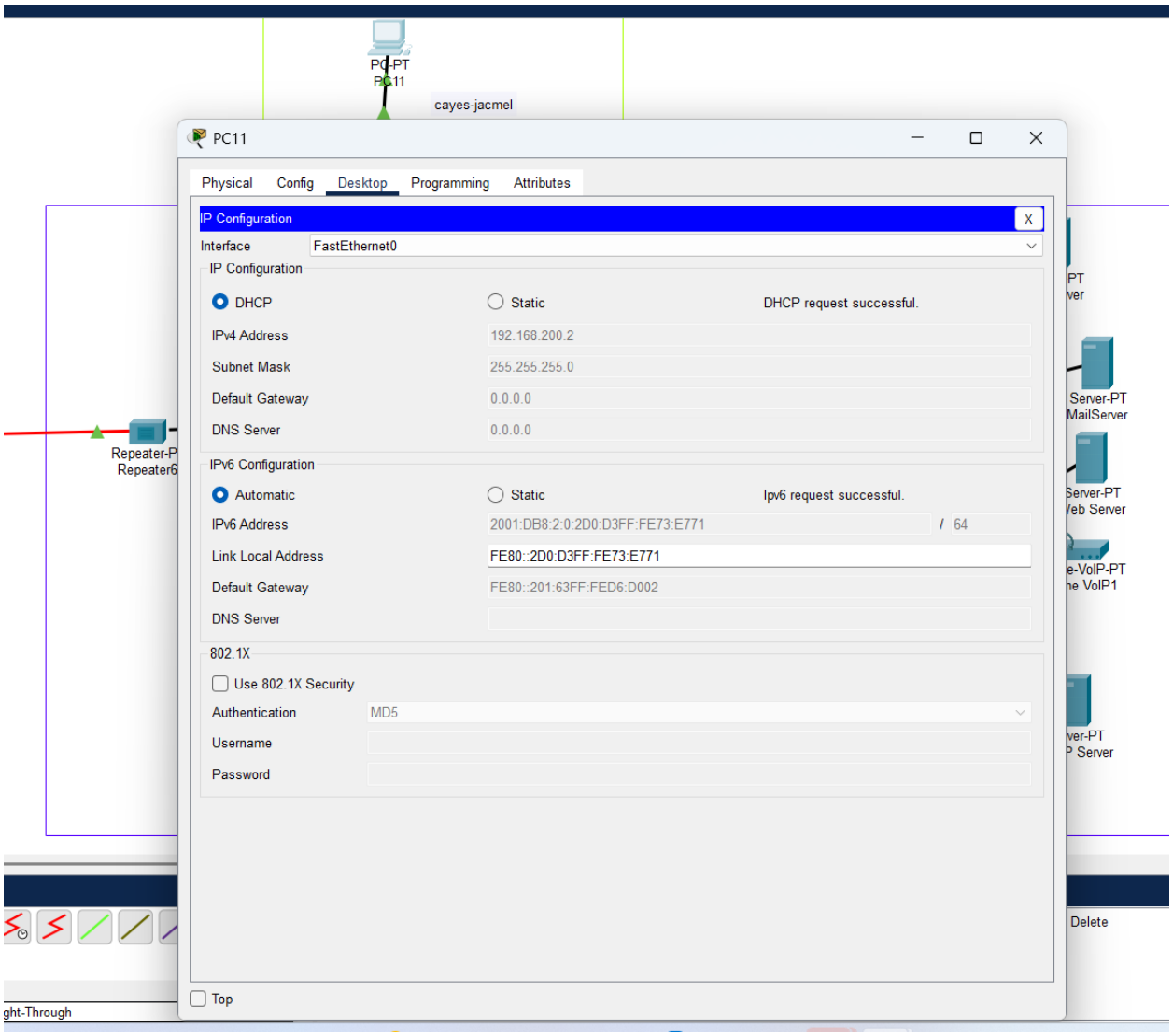
automatiquement les adresses IP aux différents hôtes du réseau.

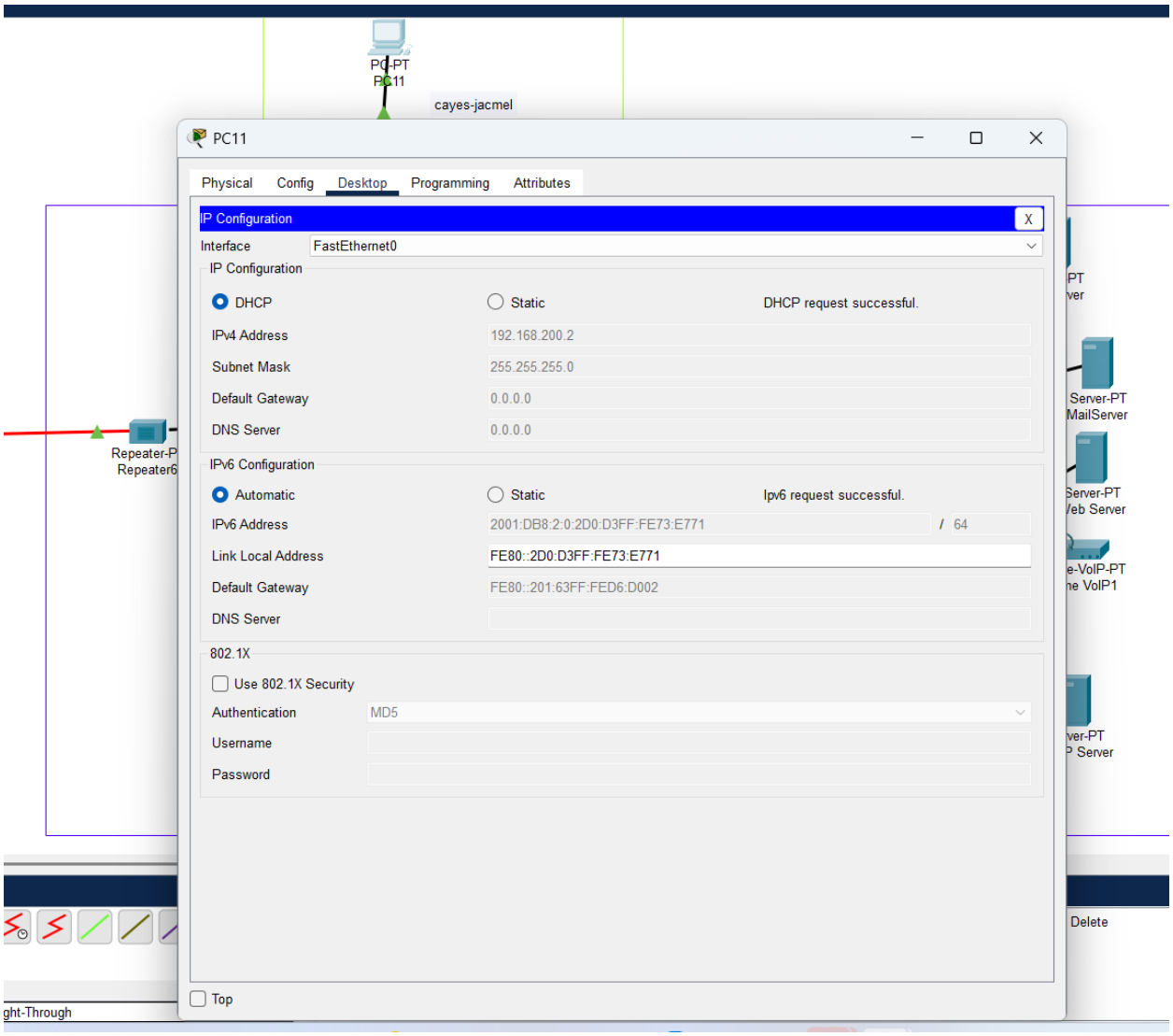

PC-PT
PC11
cayes-jacmel
2960-24TT
Switch14
NetworkController
PT-Controller0
2811
Router0
Server-PT
FileServer
Server-PT
MailServer
2960-24TT
Switch13
Server-PT
Web Server
Home-VoIP-PT
Home VoIP1
2960-24TT
Switch16
Printer-PT
Printer2
2960-24TT
Switch17
Server-PT
DHCP Server
2960-24TT
Switch11
Repeater-PT
Repeater5
Repeater-PT
Repeater6
2960-24TT
Switch12
jacmel
port-de paix
PC-PT
Client5
Laptop-PT
Admin Laptop
PC-PT
client1
2960-24TT
Switch15
PC-PT
client2PC
PC-PT
client3PC
PC-PT
client4PC

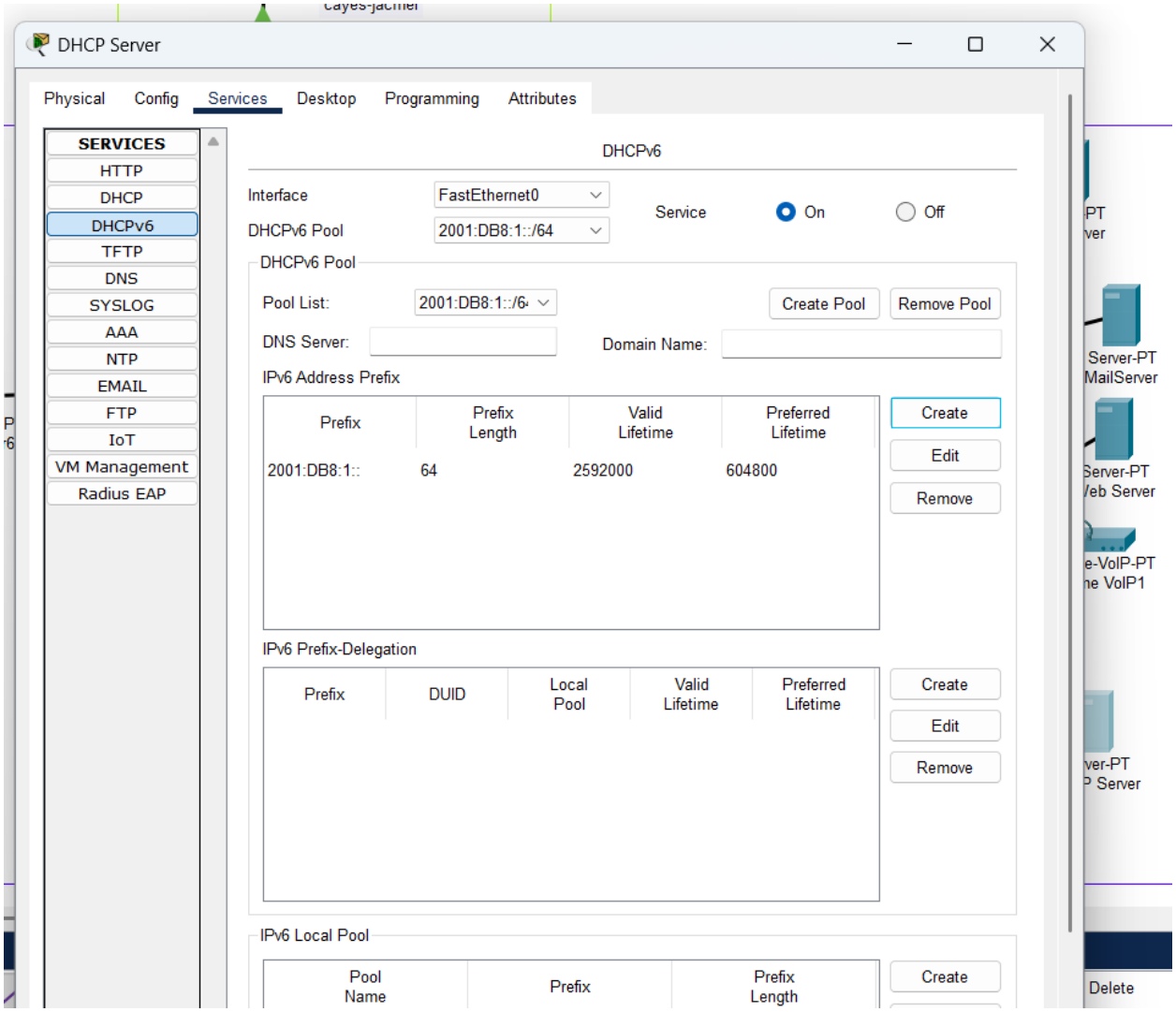

Admin Laptop
Physical
Config
Desktop
Programming
Attributes
IP Configuration
Interface
FastEthernet0
IP Configuration
DHCP
Static
IPv4 Address
192.168.100.2
Subnet Mask
255.255.255.0
Default Gateway
0.0.0.0
DNS Server
0.0.0.0
IPv6 Configuration
Automatic
Static
IPv6 Address
2001:DB8:1:0:230:A3FF:FEDD:940B
/ 64
Link Local Address
FE80::230:A3FF:FEDD:940B
Default Gateway
FE80::201:63FF:FED6:D001
DNS Server
802.1X
Use 802.1X Security
Authentication
MD5
Username
Password

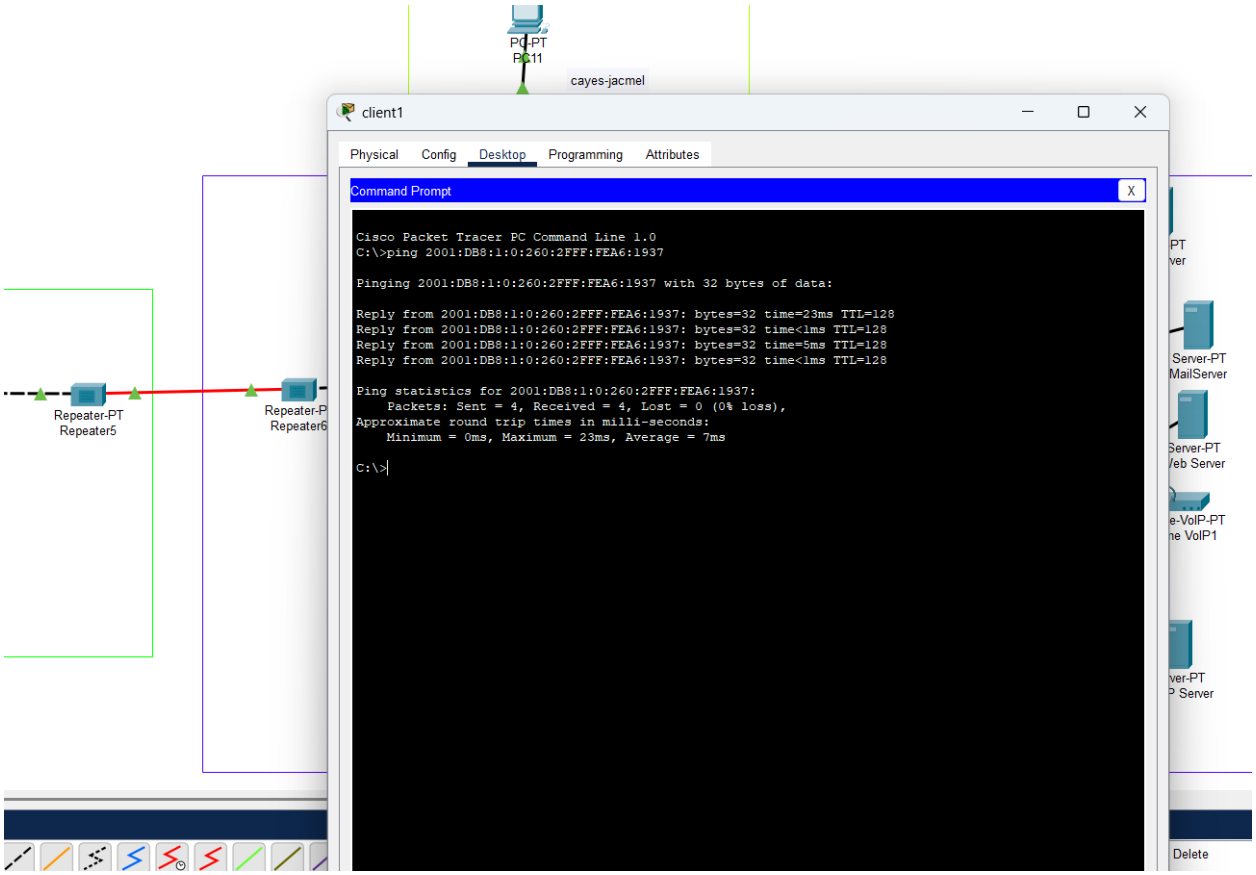

cayes-jacmel
Web Server
Physical
Config
Services
Desktop
Programming
Attributes
IP Configuration
X
IP Configuration
DHCP
Static
DHCP request successful.
IPv4 Address
192.168.100.9
Subnet Mask
255.255.255.0
Default Gateway
0.0.0.0
DNS Server
0.0.0.0
IPv6 Configuration
Automatic
Static
Ipv6 request successful.
IPv6 Address
2001:DB8:1:0:2E0:A3FF:FE1A:305C
/ 64
Link Local Address
FE80::2E0:A3FF:FE1A:305C
Default Gateway
FE80::201:63FF:FED6:D001
DNS Server
802.1X
Use 802.1X Security
Authentication
MD5
Username
Password
Server-PT
MailServer
Server-PT
Web Server
e-VoIP-PT
he VoIP1
ver-PT
P Server
Delete

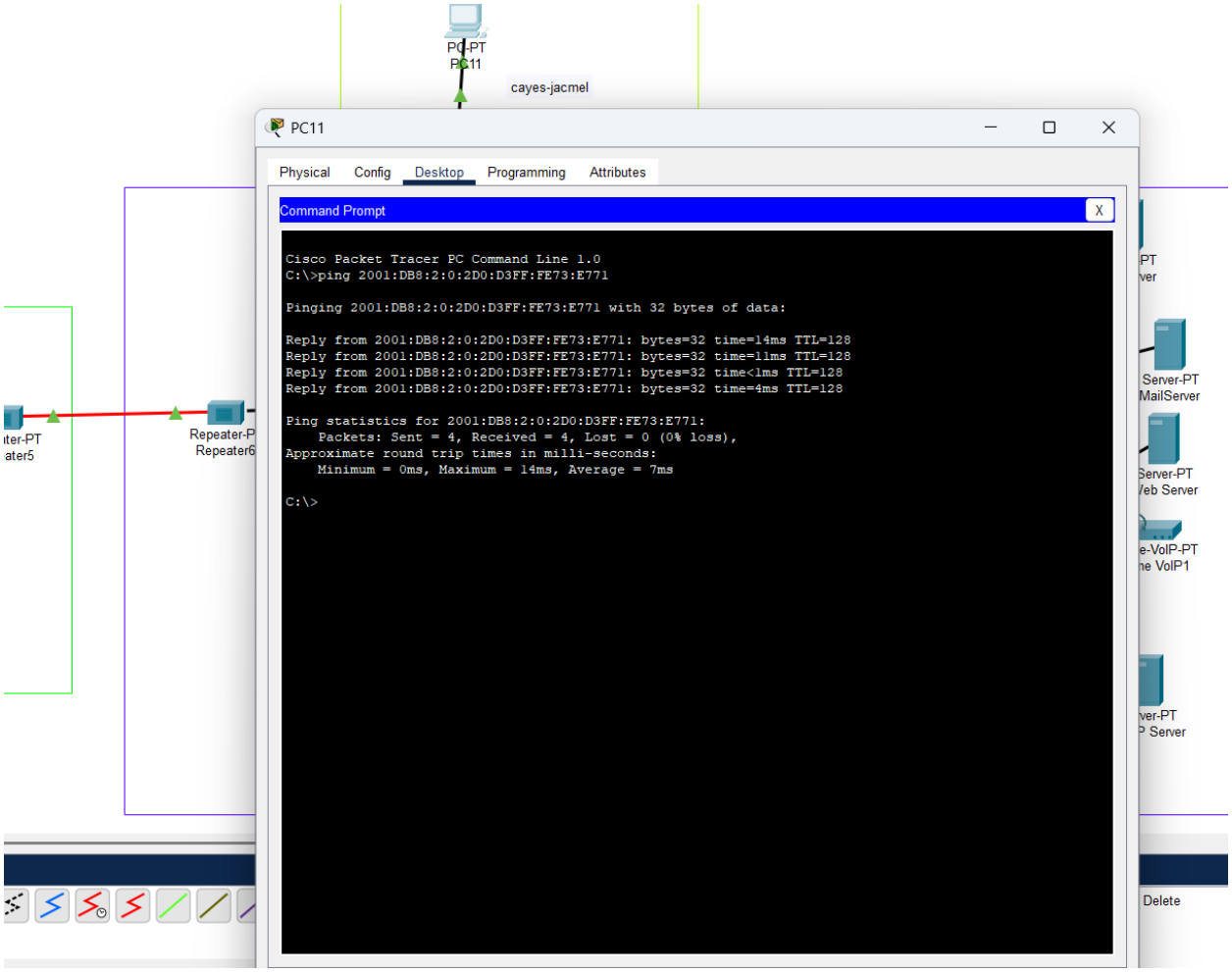

PC-PT
PC11
cayes-jacmel
PC11
Physical
Config
Desktop
Programming
Attributes
IP Configuration
X
Interface
FastEthernet0
IP Configuration
DHCP
Static
DHCP request successful.
IPv4 Address
192.168.200.2
Subnet Mask
255.255.255.0
Default Gateway
0.0.0.0
DNS Server
0.0.0.0
IPv6 Configuration
Automatic
Static
Ipv6 request successful.
IPv6 Address
2001:DB8:2:0:2D0:D3FF:FE73:E771
/ 64
Link Local Address
FE80::2D0:D3FF:FE73:E771
Default Gateway
FE80::201:63FF:FED6:D002
DNS Server
802.1X
Use 802.1X Security
Authentication
MD5
Username
Password
Top
Repeater-P
Repeater6
Server-PT
MailServer
Server-PT
Web Server
e-VoIP-PT
ne VoIP1
ver-PT
P Server
Delete
ght-Through

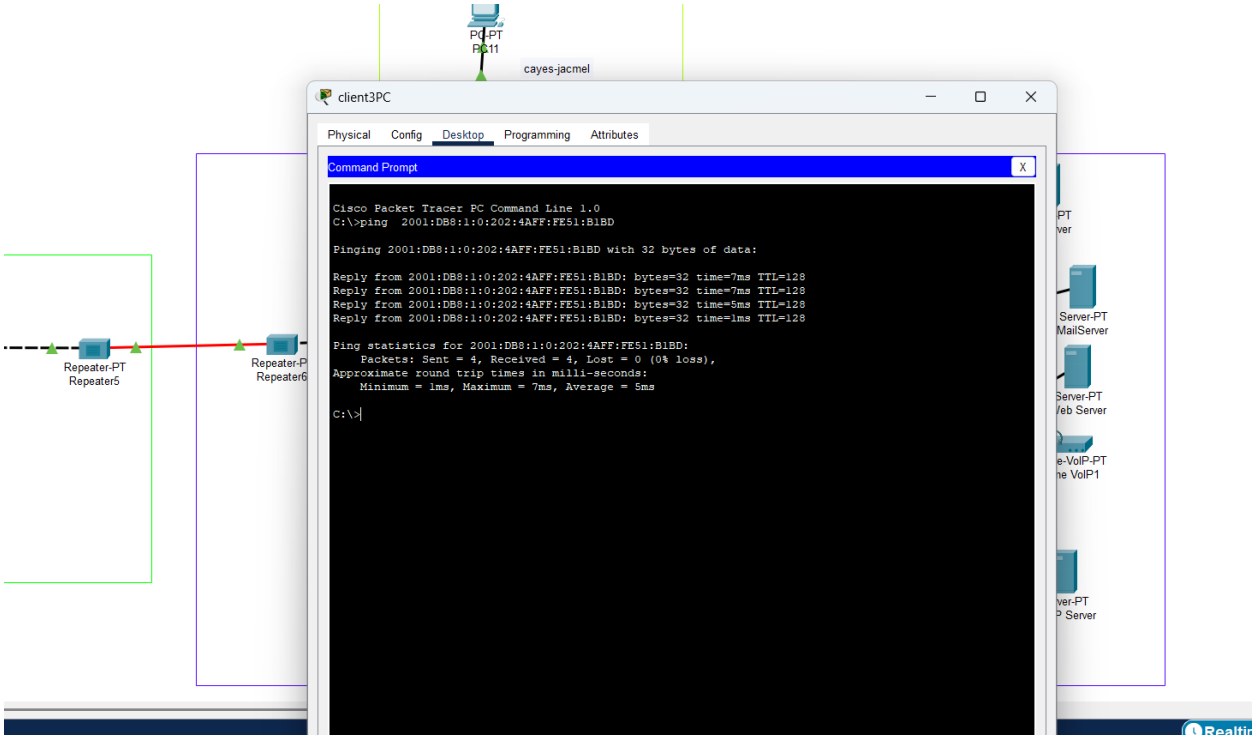

PC-PT
PC11
cayes-jacmel
PC11
Physical
Config
Desktop
Programming
Attributes
IP Configuration
X
Interface
FastEthernet0
IP Configuration
DHCP
Static
DHCP request successful.
IPv4 Address
192.168.200.2
Subnet Mask
255.255.255.0
Default Gateway
0.0.0.0
DNS Server
0.0.0.0
IPv6 Configuration
Automatic
Static
Ipv6 request successful.
IPv6 Address
2001:DB8:2:0:2D0:D3FF:FE73:E771
/ 64
Link Local Address
FE80::2D0:D3FF:FE73:E771
Default Gateway
FE80::201:63FF:FED6:D002
DNS Server
802.1X
Use 802.1X Security
Authentication
MD5
Username
Password
Top
Repeater-P
Repeater6
Server-PT
MailServer
Server-PT
Web Server
e-VoIP-PT
ne VoIP1
ver-PT
P Server
Delete
ght-Through


PC-PT
PC11
cayes-jacmel
PC11
Physical
Config
Desktop
Programming
Attributes
IP Configuration
X
Interface
FastEthernet0
IP Configuration
DHCP
Static
DHCP request successful.
IPv4 Address
192.168.200.2
Subnet Mask
255.255.255.0
Default Gateway
0.0.0.0
DNS Server
0.0.0.0
IPv6 Configuration
Automatic
Static
Ipv6 request successful.
IPv6 Address
2001:DB8:2:0:2D0:D3FF:FE73:E771
/ 64
Link Local Address
FE80::2D0:D3FF:FE73:E771
Default Gateway
FE80::201:63FF:FED6:D002
DNS Server
802.1X
Use 802.1X Security
Authentication
MD5
Username
Password
Top
Repeater-P
Repeater6
Server-PT
MailServer
Server-PT
Web Server
e-VoIP-PT
ne VoIP1
ver-PT
P Server
Delete
ght-Through


DHCP Server
Physical
Config
Services
Desktop
Programming
Attributes
SERVICES
HTTP
DHCP
DHCPv6
TFTP
DNS
SYSLOG
AAA
NTP
EMAIL
FTP
IoT
VM Management
Radius EAP
DHCPv6
Interface
FastEthernet0
Service
On
Off
DHCPv6 Pool
2001:DB8:1::/64
DHCPv6 Pool
Pool List:
2001:DB8:1::/6
Create Pool
Remove Pool
DNS Server:
Domain Name:
IPv6 Address Prefix
Prefix
Prefix Length
Valid Lifetime
Preferred Lifetime
2001:DB8:1::
64
2592000
604800
Create
Edit
Remove
IPv6 Prefix-Delegation
Prefix
DUID
Local Pool
Valid Lifetime
Preferred Lifetime
Create
Edit
Remove
IPv6 Local Pool
Pool Name
Prefix
Prefix Length
Create
Server-PT MailServer
Server-PT Web Server
e-VoIP-PT
ne VoIP1
ver-PT
P Server
Delete


PC-PT
PC11
cayes-jacmel
client1
Physical
Config
Desktop
Programming
Attributes
Command Prompt
X
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 2001:DB8:1:0:260:2FFF:FEA6:1937
Pinging 2001:DB8:1:0:260:2FFF:FEA6:1937 with 32 bytes of data:
Reply from 2001:DB8:1:0:260:2FFF:FEA6:1937: bytes=32 time=23ms TTL=128
Reply from 2001:DB8:1:0:260:2FFF:FEA6:1937: bytes=32 time<1ms TTL=128
Reply from 2001:DB8:1:0:260:2FFF:FEA6:1937: bytes=32 time=5ms TTL=128
Reply from 2001:DB8:1:0:260:2FFF:FEA6:1937: bytes=32 time<1ms TTL=128
Ping statistics for 2001:DB8:1:0:260:2FFF:FEA6:1937:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 23ms, Average = 7ms
C:\>
Repeater-PT
Repeater5
Repeater-P
Repeater6
Server-PT
MailServer
Server-PT
Web Server
e-VoIP-PT
ne VoIP1
Server
Delete


PC-PT
PC11
cayes-jacmel
PC11
Physical
Config
Desktop
Programming
Attributes
Command Prompt
X
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 2001:DB8:2:0:2D0:D3FF:FE73:E771
Pinging 2001:DB8:2:0:2D0:D3FF:FE73:E771 with 32 bytes of data:
Reply from 2001:DB8:2:0:2D0:D3FF:FE73:E771: bytes=32 time=14ms TTL=128
Reply from 2001:DB8:2:0:2D0:D3FF:FE73:E771: bytes=32 time=11ms TTL=128
Reply from 2001:DB8:2:0:2D0:D3FF:FE73:E771: bytes=32 time<1ms TTL=128
Reply from 2001:DB8:2:0:2D0:D3FF:FE73:E771: bytes=32 time=4ms TTL=128
Ping statistics for 2001:DB8:2:0:2D0:D3FF:FE73:E771:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 14ms, Average = 7ms
C:\>
Repeater-P
Repeater6
Server-PT
MailServer
Server-PT
Web Server
Delete



J'ai passé beaucoup de temps à réaliser ce devoir, et j'ai rencontré beaucoup de difficultés. J'ai pris mon temps pour le faire avec patience, étape par étape. Malgré les défis que j'ai rencontrés, j'ai finalement réussi à résoudre chaque problème et à trouver une solution pour chacun. Ce fut un très beau travail. J'ai beaucoup appris grâce à cela.

L’objectif de ce TD est de :

1. Comprendre le fonctionnement du DHCP dans un réseau multi-LAN.

2. Mettre en place un serveur DHCP centralisé.

3. Configurer un routeur pour relayer les requêtes DHCP entre réseaux différents.

4. Configurer le service DHCP directement sur un routeur.

5. Vérifier l’attribution automatique d’adresses IP dans chaque LAN.

6. Comprendre l’adressage IPv6 et le rôle de DHCPv6.

7. Configurer un routeur comme serveur DHCPv6.

8. Attribuer automatiquement des adresses IPv6 aux hôtes.

9. Découvrir l’attribution automatique d’adresses IPv6 via DHCPv6.

10. Configurer un serveur DHCPv6 dans un seul réseau local.

11. Vérifier la communication entre les réseaux en IPv6.