



IUS
INSTITUT
UNIVERSITAIRE
DES SCIENCES

FACULTÉ DES SCIENCES ET DES TECHNOLOGIES
(FST)

Troisième année

RAPPORT

Sur le Projet N° 6

COURS

Réseaux II

Professeur

Ismaël SAINT AMOUR

PRÉPARÉ PAR

Peterson CHERY

SEMESTRE

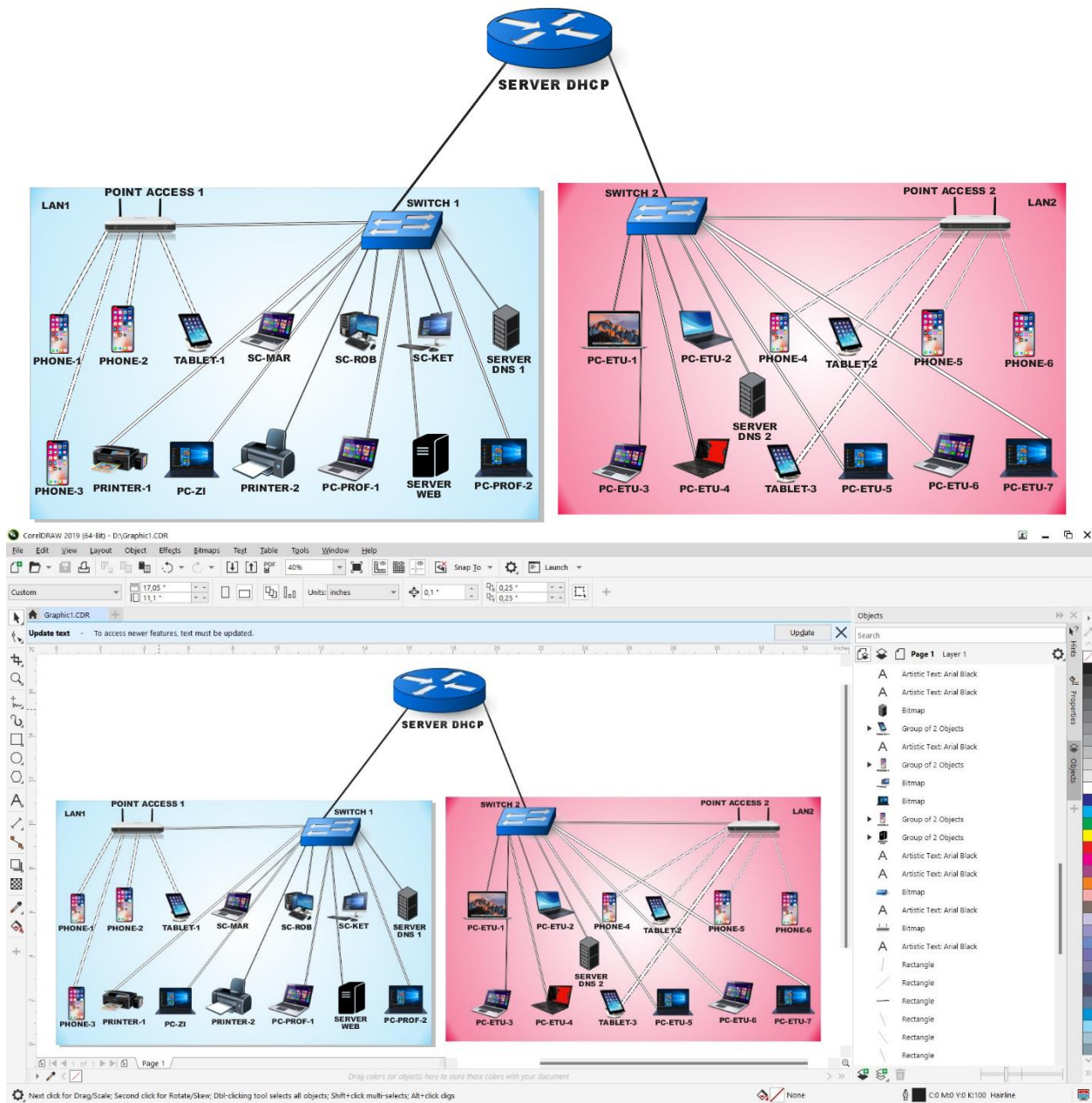
II

Sujet

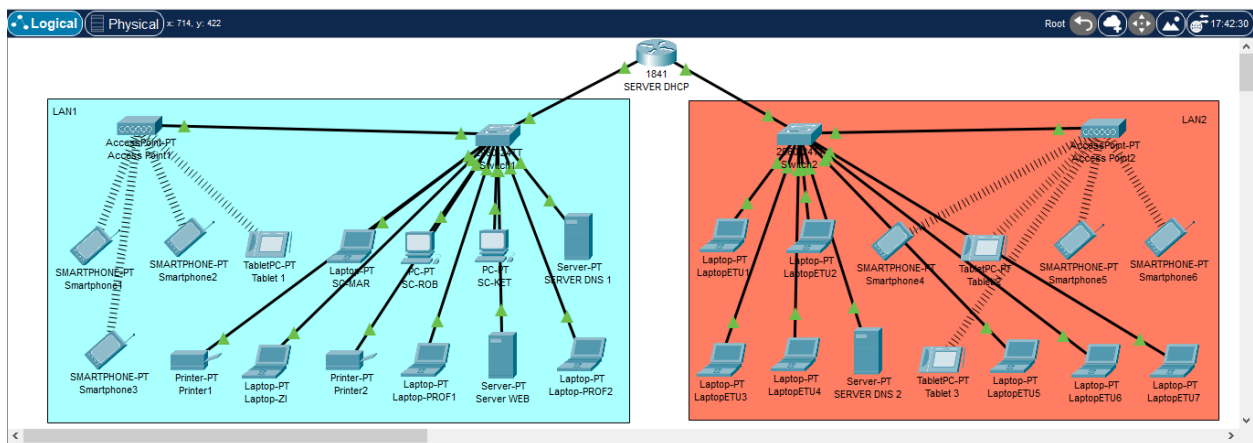
**Configuration et Étude des Services DNS et DHCP avec
GNS3 et Cisco Packet Tracer**

Le 28/05/2025

1. Conception de l'architecture du réseau DNS et DHCP sur Corel 2019 :



2. L'architecture dans Cisco Tracer :



3. Configuration des points D'accès : pour la connexion des téléphones et Tablettes :

The screenshot shows the 'Access Point1' configuration window with the 'Config' tab selected. The left sidebar has 'INTERFACE' expanded, showing 'Port 0' and 'Port 1'. The 'Port 1' configuration is displayed on the right. The 'Port Status' is checked and set to 'On'. The 'SSID' is 'Decanat', the '2.4 GHz Channel' is '6', and the 'Coverage Range (meters)' is '140.00'. Under 'Authentication', 'WPA2-PSK' is selected. The 'WEP Key' is empty, 'PSK Pass Phrase' is 'Bienvenue24', 'User ID' is empty, and 'Password' is empty. The 'Encryption Type' is 'AES'.

The screenshot shows the 'Access Point2' configuration window with the 'Config' tab selected. The left sidebar has 'INTERFACE' expanded, showing 'Port 0' and 'Port 1'. The 'Port 1' configuration is displayed on the right. The 'Port Status' is checked and set to 'On'. The 'SSID' is 'Classes', the '2.4 GHz Channel' is '6', and the 'Coverage Range (meters)' is '140.00'. Under 'Authentication', 'WPA2-PSK' is selected. The 'WEP Key' is empty, 'PSK Pass Phrase' is 'Bienvenue24', 'User ID' is empty, and 'Password' is empty. The 'Encryption Type' is 'AES'.

4. Activation de l'interface des Smartphones et Tablettes pour la connexion :

The screenshot shows the 'Smartphone1' configuration window with the 'Config' tab selected. The left sidebar has 'INTERFACE' expanded, showing 'Wireless0', '3G/4G Cell1', and 'Bluetooth'. The 'Wireless0' configuration is displayed on the right. The 'Port Status' is checked and set to 'On'. The 'Bandwidth' is '54 Mbps', the 'MAC Address' is '0001.43E6.C27B', and the 'SSID' is 'Decanat'. Under 'Authentication', 'WPA2-PSK' is selected. The 'WEP Key' is empty, 'PSK Pass Phrase' is 'Bienvenue24', 'User ID' is empty, and 'Password' is empty. The 'Encryption Type' is 'AES'.

Smartphone2

Physical **Config** Desktop Programming Attributes

GLOBAL

Settings

Algorithm Settings

INTERFACE

Wireless0

3G/4G Cell1

Bluetooth

Wireless0

Port Status ☒ On

Bandwidth 54 Mbps

MAC Address 00E0.A335.6E43

SSID Decanat

Authentication

☐ Disabled ☐ WEP ☒ WPA-PSK ☐ WPA ☐ WPA2 ☐ 802.1X

Method: MD5

WEP Key

PSK Pass Phrase Bienvenue24

User ID

Password

User Name

Password

Encryption Type AES

Smartphone3

Physical **Config** Desktop Programming Attributes

GLOBAL

Settings

Algorithm Settings

INTERFACE

Wireless0

3G/4G Cell1

Bluetooth

Wireless0

Port Status ☒ On

Bandwidth 18 Mbps

MAC Address 00D0.BA03.5336

SSID Decanat

Authentication

☐ Disabled ☐ WEP ☒ WPA-PSK ☐ WPA ☐ WPA2 ☐ 802.1X

Method: MD5

WEP Key

PSK Pass Phrase Bienvenue24

User ID

Password

User Name

Password

Encryption Type AES

Smartphone4

Physical **Config** Desktop Programming Attributes

GLOBAL

Settings

Algorithm Settings

INTERFACE

Wireless0

3G/4G Cell1

Bluetooth

Wireless0

Port Status ☒ On

Bandwidth 18 Mbps

MAC Address 0060.3E01.B209

SSID Classes

Authentication

☐ Disabled ☐ WEP ☒ WPA-PSK ☐ WPA ☐ WPA2 ☐ 802.1X

Method: MD5

WEP Key

PSK Pass Phrase Bienvenue24

User ID

Password

User Name

Password

Encryption Type AES

Smartphone4

Physical **Config** Desktop Programming Attributes

GLOBAL

Settings

Algorithm Settings

INTERFACE

Wireless0

3G/4G Cell1

Bluetooth

Wireless0

Port Status ☒ On

Bandwidth 18 Mbps

MAC Address 0060.3E01.B209

SSID Classes

Authentication

☐ Disabled ☐ WEP ☒ WPA-PSK ☐ WPA ☐ WPA2 ☐ 802.1X

Method: MD5

WEP Key

PSK Pass Phrase Bienvenue24

User ID

Password

User Name

Password

Encryption Type AES

Smartphone5

Physical **Config** Desktop Programming Attributes

GLOBAL

Settings

Algorithm Settings

INTERFACE

Wireless0

3G/4G Cell1

Bluetooth

Wireless0

Port Status ☒ On

Bandwidth 48 Mbps

MAC Address 0003.E42A.370C

SSID Classes

Authentication

☐ Disabled ☐ WEP ☒ WPA-PSK ☐ WPA ☐ WPA2 ☐ 802.1X

Method: MD5

WEP Key

PSK Pass Phrase Bienvenue24

User ID

Password

User Name

Password

Encryption Type AES

Smartphone6

Physical **Config** Desktop Programming Attributes

GLOBAL

Settings

Algorithm Settings

INTERFACE

Wireless0

3G/4G Cell1

Bluetooth

Wireless0

Port Status ☒ On

Bandwidth 18 Mbps

MAC Address 00D0.5817.1351

SSID Classes

Authentication

☐ Disabled ☐ WEP ☒ WPA-PSK ☐ WPA ☐ WPA2 ☐ 802.1X

Method: MD5

WEP Key

PSK Pass Phrase Bienvenue24

User ID

Password

User Name

Password

Encryption Type AES

- Les Tablettes :

Tablet 1

Physical **Config** Desktop Programming Attributes

GLOBAL

Settings

Algorithm Settings

INTERFACE

Wireless0

3G/4G Cell1

Bluetooth

Wireless0

Port Status ☒ On

Bandwidth 24 Mbps

MAC Address 0060.476D.A594

SSID Decanat

Authentication

☐ Disabled ☐ WEP ☒ WPA2-PSK ☐ WPA ☐ WPA2 ☐ 802.1X

Method: MD5

WEP Key

PSK Pass Phrase Bienvenue24

User ID

Password

User Name

Password

Encryption Type AES

Tablet 2

Physical **Config** Desktop Programming Attributes

GLOBAL

Settings

Algorithm Settings

INTERFACE

Wireless0

3G/4G Cell1

Bluetooth

Wireless0

Port Status ☒ On

Bandwidth 24 Mbps

MAC Address 0060.3EC5.8076

SSID Classes

Authentication

☐ Disabled ☐ WEP ☒ WPA2-PSK ☐ WPA ☐ WPA2 ☐ 802.1X

Method: MD5

WEP Key

PSK Pass Phrase Bienvenue24

User ID

Password

User Name

Password

Encryption Type AES

Tablet 3

Physical **Config** Desktop Programming Attributes

GLOBAL

Settings

Algorithm Settings

INTERFACE

Wireless0

3G/4G Cell1

Bluetooth

Wireless0

Port Status ☒ On

Bandwidth 24 Mbps

MAC Address 000C.8513.CAD3

SSID Classes

Authentication

☐ Disabled ☐ WEP ☒ WPA2-PSK ☐ WPA ☐ WPA2 ☐ 802.1X

Method: MD5

WEP Key

PSK Pass Phrase Bienvenue24

User ID

Password

User Name

Password

Encryption Type AES

5. Configuration statique des Server DNS :

The image shows two screenshots of a configuration window titled 'SERVER DNS'. Both windows have tabs for Physical, Config, Services, Desktop, Programming, and Attributes. The 'Desktop' tab is selected, and the 'IP Configuration' sub-tab is active. In both windows, the 'Static' radio button is selected for IP configuration. The fields are as follows:

Field	SERVER DNS 1	SERVER DNS 2
IPv4 Address	192.168.1.3	192.168.2.3
Subnet Mask	255.255.255.0	255.255.255.0
Default Gateway	192.168.1.1	192.168.2.1
DNS Server	192.168.1.3	192.168.2.3

6. Configuration du Router Comme Server DHCP :

The image shows a screenshot of a configuration window titled 'SERVER DHCP'. It has tabs for Physical, Config, CLI, and Attributes. The 'CLI' tab is selected, and the 'IOS Command Line Interface' is displayed. The configuration commands are as follows:

```
Router>en
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname Server DHCP
Router(config)#^
% Invalid input detected at '^' marker.
Router(config)#hostname ServerDHCP
ServerDHCP(config)#fast f0/0
ServerDHCP(config)#^
% Invalid input detected at '^' marker.
ServerDHCP(config)#FastEthernet0/0
ServerDHCP(config)#^
% Invalid input detected at '^' marker.
ServerDHCP(config)#int f0/0
ServerDHCP(config-if)#ip address 192.168.1.1 255.255.255.0
ServerDHCP(config-if)#no sh
ServerDHCP(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
ServerDHCP(config-if)#exit
ServerDHCP(config)#FastEthernet0/1
ServerDHCP(config)#^
% Invalid input detected at '^' marker.
ServerDHCP(config)#int f0/1
ServerDHCP(config-if)#ip address 192.168.2.1 255.255.255.0
ServerDHCP(config-if)#no sh
ServerDHCP(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
```

```
ServerDHCP#show arp
Protocol Address Age (min) Hardware Addr Type Interface
Internet 192.168.1.1 - 0090.2BE7.E401 ARPA FastEthernet0/0
Internet 192.168.2.1 - 0090.2BE7.E402 ARPA FastEthernet0/1
ServerDHCP#
```

```
ServerDHCP>ip dhcp pool Pk-LAB
^
% Invalid input detected at '^' marker.

ServerDHCP>en
ServerDHCP#conf t
Enter configuration commands, one per line. End with CNTL/Z.
ServerDHCP(config)#ip dhcp pool Pk-LAB
ServerDHCP(dhcp-config)#network 192.168.1.0 255.255.255.0
ServerDHCP(dhcp-config)#default-router 192.168.1.1
ServerDHCP(dhcp-config)#dns-server 192.168.1.3
ServerDHCP(dhcp-config)#exit
ServerDHCP(config)#ip dhcp pool Pk-ADMIN
ServerDHCP(dhcp-config)#network 192.168.2.0 255.255.255.0
ServerDHCP(dhcp-config)#default-router 192.168.2.1
ServerDHCP(dhcp-config)#dns-server 192.168.2.3
ServerDHCP(dhcp-config)#exit
ServerDHCP(config)#
```

7. Configuration des Switch :

Switch1

Physical Config CLI Attributes

IOS Command Line Interface

```
%LINK-5-CHANGED: Interface FastEthernet0/11, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/11, changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/12, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/12, changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up

Switch>en
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname S1
S1(config)#interface vlan 1
S1(config-if)#ip address 192.168.1.2 255.255.255.0
S1(config-if)#no sh

S1(config-if)#
%LINK-5-CHANGED: Interface Vlan1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to up
%IP-4-DUPADDR: Duplicate address 192.168.1.2 on Vlan1, sourced by 00E0.B01D.C82A

S1(config-if)#exit
S1(config)#ip default-gateway 192.168.1.1
S1(config)#exit
S1#
%SYS-5-CONFIG_I: Configured from console by console

S1#show arp
Protocol Address Age (min) Hardware Addr Type Interface
Internet 192.168.1.2 - 00D0.FF22.84B9 ARPA Vlan1
S1#
```

Switch2

Physical Config CLI Attributes

IOS Command Line Interface

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/8, changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/9, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/9, changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up

Switch>en
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname S0
S0(config)#interface vlan 1
S0(config-if)#ip address 192.168.2.2 255.255.255.0
S0(config-if)#no sh

S0(config-if)#
%LINK-5-CHANGED: Interface Vlan1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to up

S0(config-if)#exit
S0(config)#hostname S2
S2(config)#interface vlan 1
S2(config-if)#ip address 192.168.2.2 255.255.255.0
S2(config-if)#no sh
S2(config-if)#exit
S2(config)#ip default-gateway 192.168.2.1
S2(config)#exit
S2#
%SYS-5-CONFIG_I: Configured from console by console

show arp
Protocol Address Age (min) Hardware Addr Type Interface
Internet 192.168.2.2 - 0060.3ECB.95C9 ARPA Vlan1
S2#
```

```
S1>en
S1#conf t
Enter configuration commands, one per line. End with CNTL/Z.
S1(config)#ip default-gateway 192.168.1.1
S1(config)#ip dhcp excluded-address 192.168.1.1
S1(config)#ip dhcp excluded-address 192.168.1.2
S1(config)#ip dhcp excluded-address 192.168.1.3
S1(config)#
```

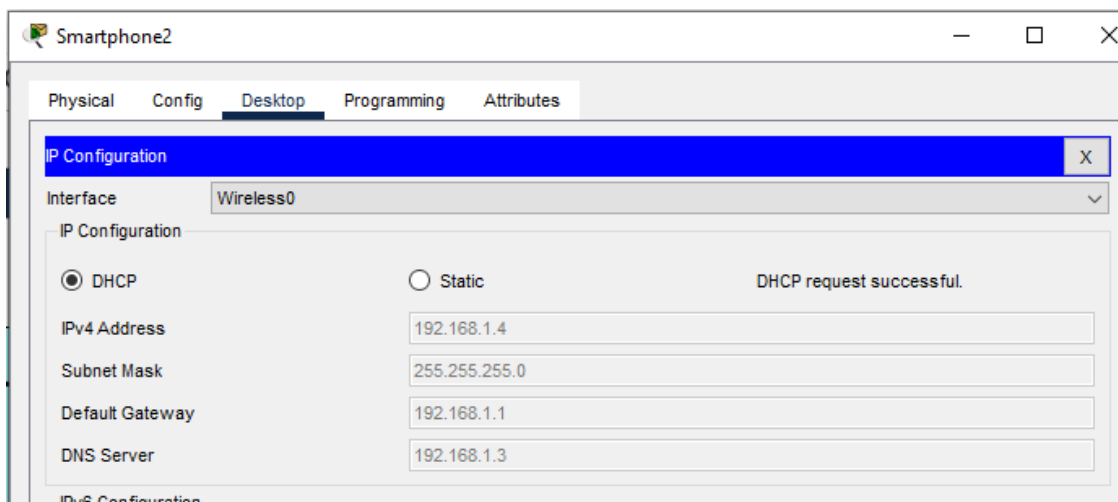
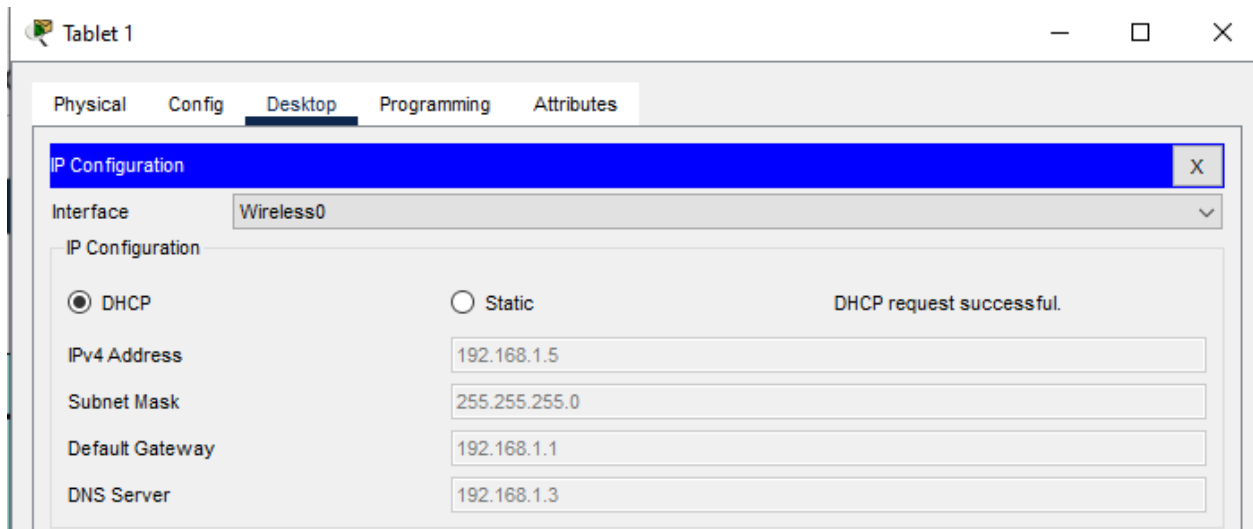
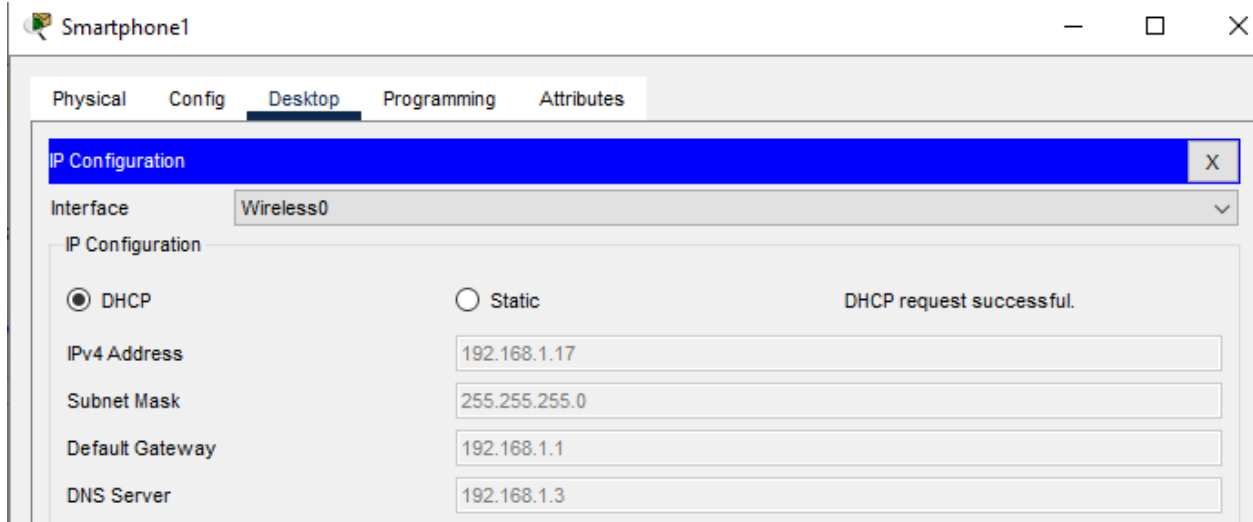


```

S2>en
S2#conf t
Enter configuration commands, one per line. End with CNTL/Z.
S2(config)#ip dhcp excluded-address 192.168.2.2
S2(config)#ip default-gateway 192.168.2.1
S2(config)#ip dhcp excluded-address 192.168.2.1
S2(config)#ip dhcp excluded-address 192.168.2.2
S2(config)#ip dhcp excluded-address 192.168.2.3
S2(config)#

```

8. Adressage IP automatiques des dispositifs grâce au serveur DHCP :



SC-MAR

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☒ DHCP ☐ Static DHCP request successful.

IPv4 Address 192.168.1.6

Subnet Mask 255.255.255.0

Default Gateway 192.168.1.1

DNS Server 192.168.1.3

SC-ROB

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☒ DHCP ☐ Static DHCP request successful.

IPv4 Address 192.168.1.7

Subnet Mask 255.255.255.0

Default Gateway 192.168.1.1

DNS Server 192.168.1.3

SC-KET

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☒ DHCP ☐ Static DHCP request successful.

IPv4 Address 192.168.1.8

Subnet Mask 255.255.255.0

Default Gateway 192.168.1.1

DNS Server 192.168.1.3

Smartphone3

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface Wireless0

IP Configuration

☒ DHCP ☐ Static DHCP request successful.

IPv4 Address 192.168.1.9

Subnet Mask 255.255.255.0

Default Gateway 192.168.1.1

DNS Server 192.168.1.3

Printer1

Physical **Config** Attributes

GLOBAL

Settings

INTERFACE

FastEthernet0

Global Settings

Display Name

Gateway/DNS IPv4

☒ DHCP

☐ Static

Default Gateway

DNS Server

Laptop-Z1

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface

IP Configuration

☒ DHCP ☐ Static DHCP request successful.

IPv4 Address

Subnet Mask

Default Gateway

DNS Server

Printer2

Physical **Config** Attributes

GLOBAL

Settings

INTERFACE

FastEthernet0

Global Settings

Display Name

Gateway/DNS IPv4

☒ DHCP

☐ Static

Default Gateway

DNS Server

Laptop-PROF1

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface

IP Configuration

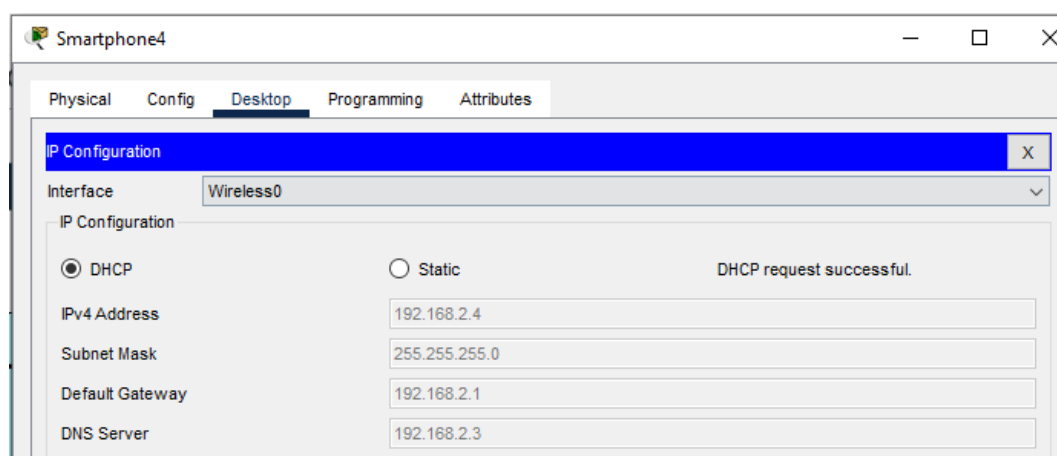
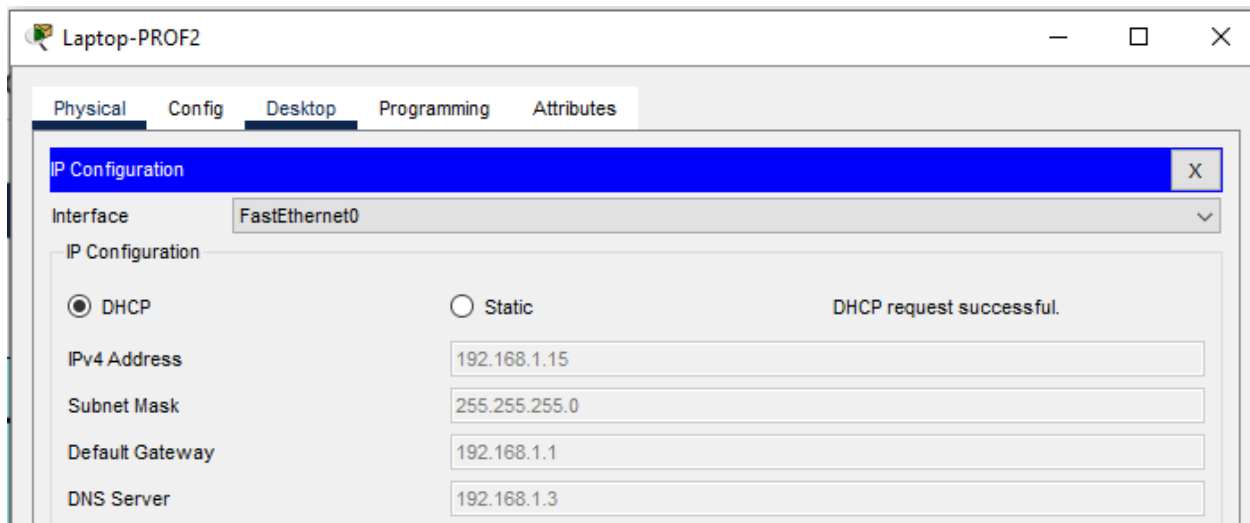
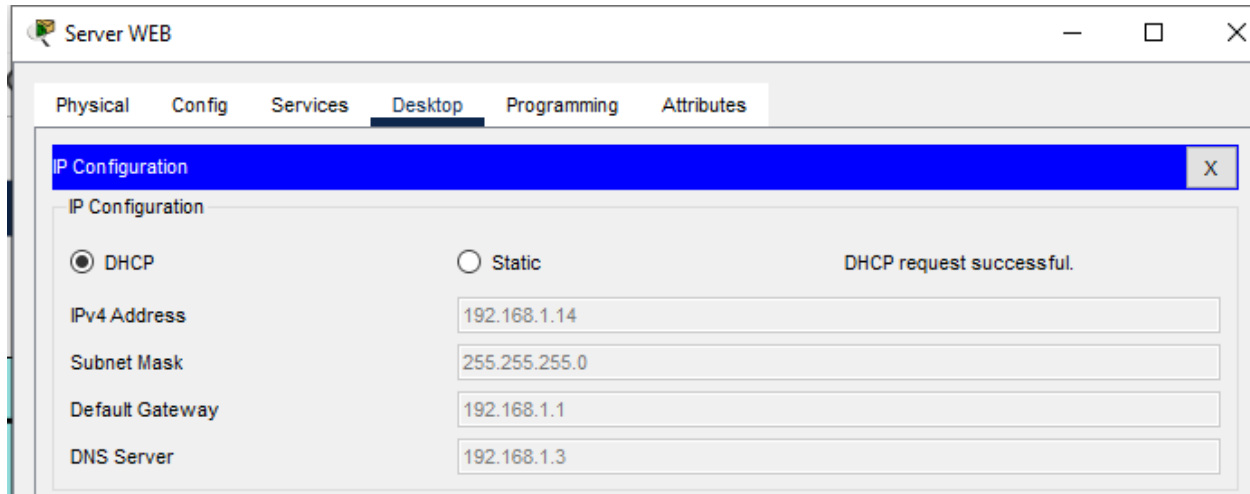
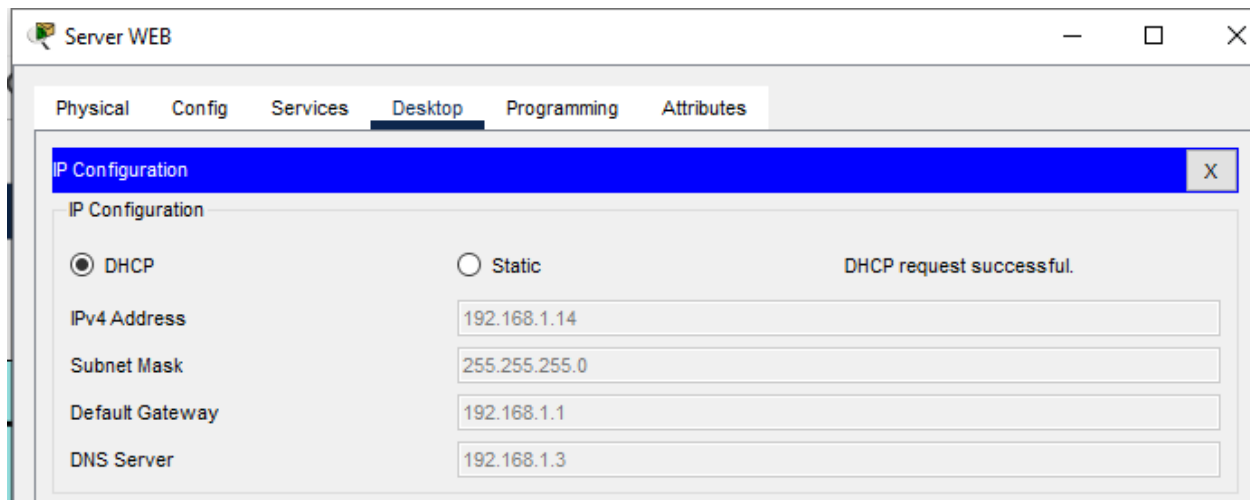
☒ DHCP ☐ Static DHCP request successful.

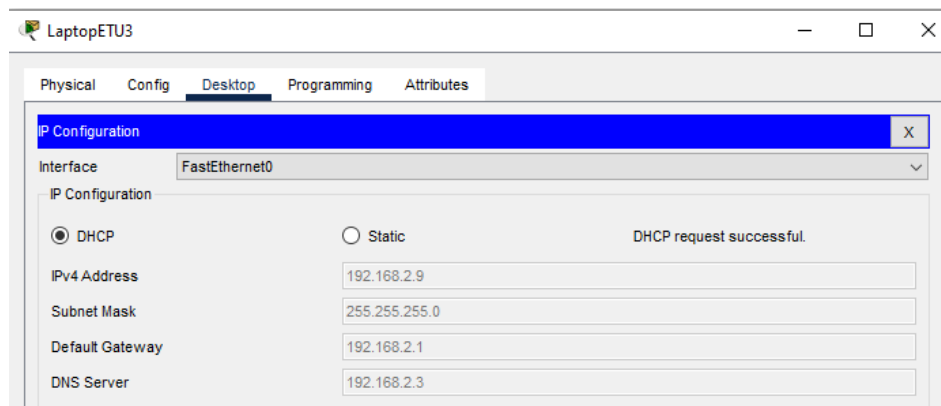
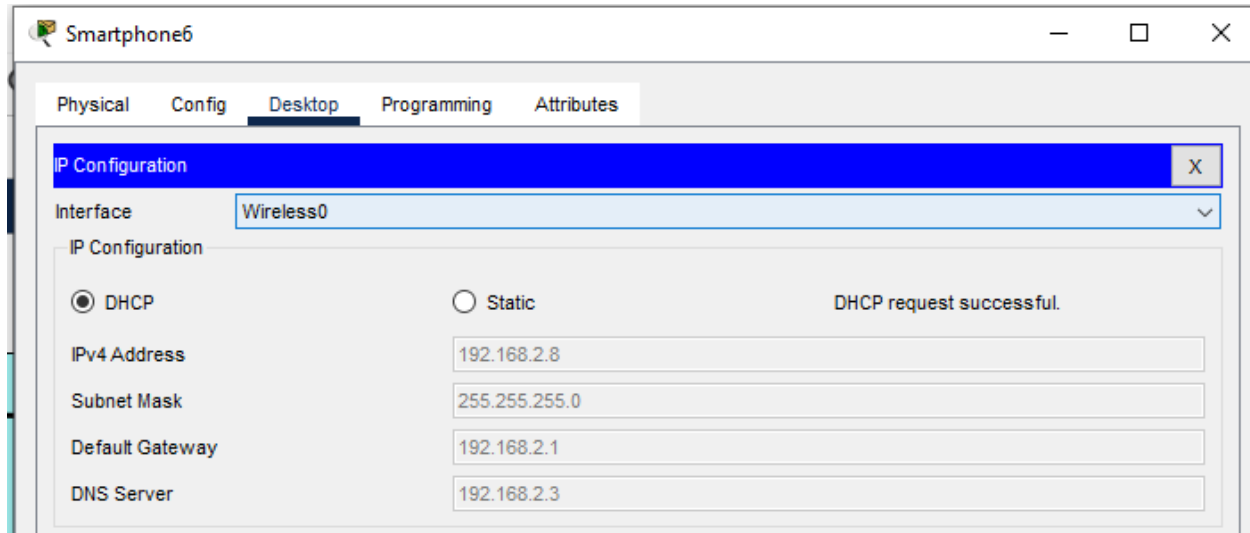
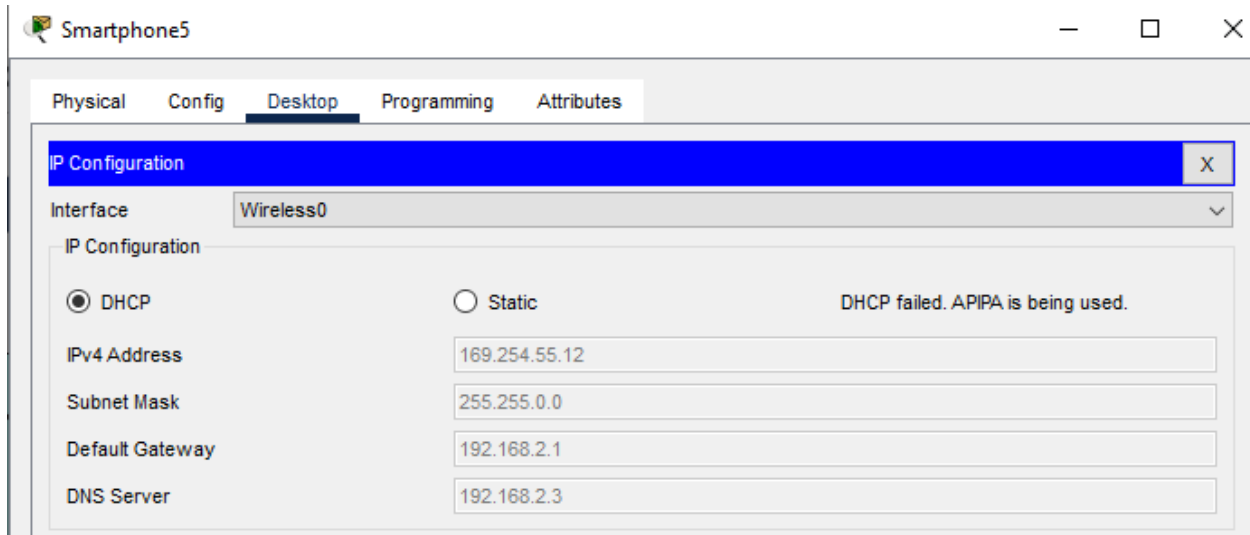
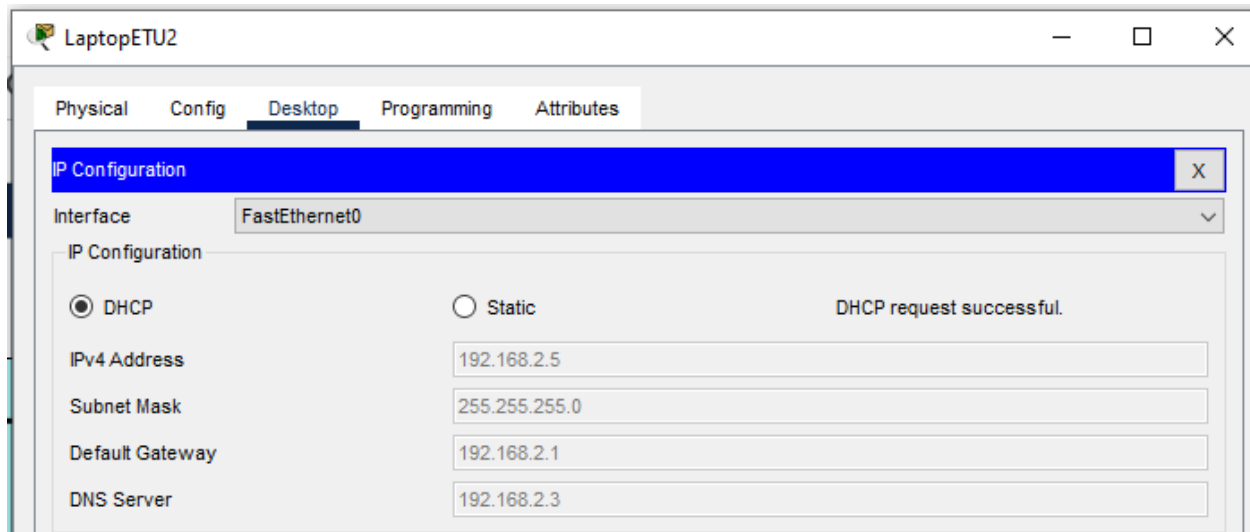
IPv4 Address

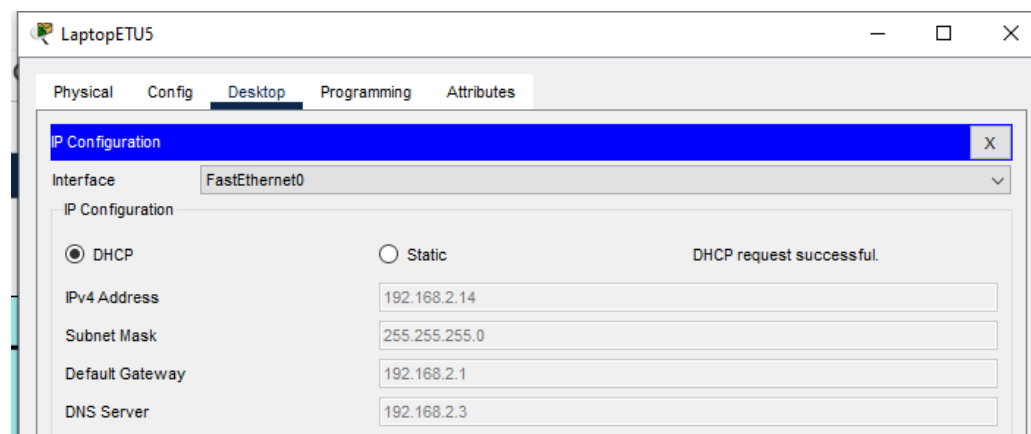
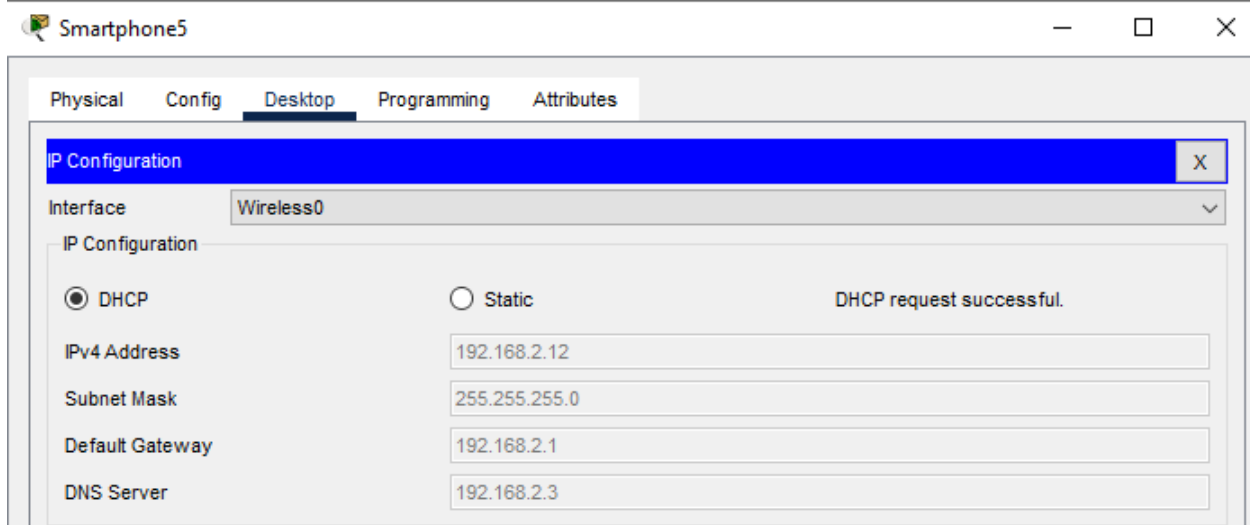
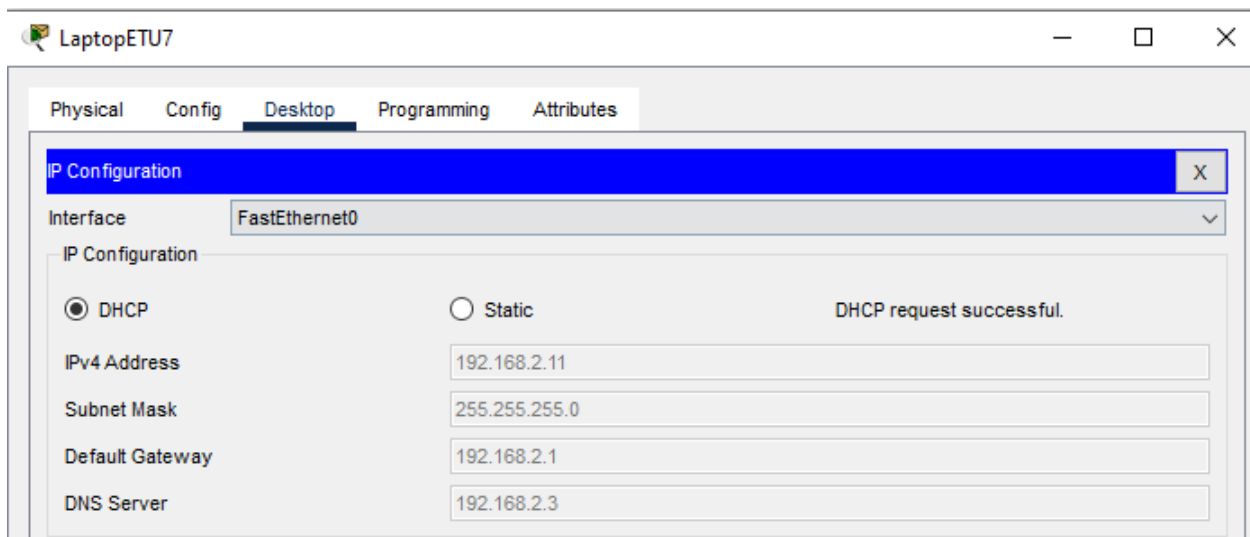
Subnet Mask

Default Gateway

DNS Server







9. Vérification du service DHCP :

```
ServerDHCP>show ip dhcp binding
IP address      Client-ID/
Hardware address Lease expiration Type
192.168.1.8     0001.63DC.E2DC   --           Automatic
192.168.1.10    0004.9AAE.46B8   --           Automatic
192.168.1.6     0090.2BA1.148B   --           Automatic
192.168.1.7     0002.1758.48C9   --           Automatic
192.168.1.5     0030.A3DD.A4E4   --           Automatic
192.168.1.4     00E0.F939.42C0   --           Automatic
192.168.1.2     000B.BE76.805C   --           Automatic
192.168.1.9     0004.9A7A.DC9A   --           Automatic
192.168.1.11    0002.4A8C.AA32   --           Automatic
192.168.1.12    0060.476D.A594   --           Automatic
192.168.1.14    00E0.A335.6E43   --           Automatic
192.168.1.15    00D0.BA03.5336   --           Automatic
192.168.1.13    0001.43E6.C27B   --           Automatic
192.168.2.6     0001.6373.4B83   --           Automatic
192.168.2.5     00E0.F7BE.2517   --           Automatic
192.168.2.2     000C.CF21.B567   --           Automatic
192.168.2.8     00D0.971A.215B   --           Automatic
192.168.2.4     0030.F2BD.B5E8   --           Automatic
192.168.2.7     0010.116C.DD89   --           Automatic
192.168.2.9     00D0.973B.98EC   --           Automatic
--More--
```

Copy

Paste

10. Vérification de la connectivité :

Smartphone3

Physical Config Desktop Programming Attributes

Command Prompt

```
C:\>ping 192.168.2.8

Pinging 192.168.2.8 with 32 bytes of data:

Request timed out.
Reply from 192.168.2.8: bytes=32 time=44ms TTL=127
Reply from 192.168.2.8: bytes=32 time=56ms TTL=127
Reply from 192.168.2.8: bytes=32 time=49ms TTL=127

Ping statistics for 192.168.2.8:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 44ms, Maximum = 56ms, Average = 49ms

C:\>ping 192.168.2.9

Pinging 192.168.2.9 with 32 bytes of data:

Reply from 192.168.2.9: bytes=32 time=4ms TTL=127
Reply from 192.168.2.9: bytes=32 time=11ms TTL=127
Reply from 192.168.2.9: bytes=32 time=36ms TTL=127
Reply from 192.168.2.9: bytes=32 time=22ms TTL=127

Ping statistics for 192.168.2.9:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 4ms, Maximum = 36ms, Average = 18ms

C:\>ping 192.168.2.10

Pinging 192.168.2.10 with 32 bytes of data:

Request timed out.
Reply from 192.168.2.10: bytes=32 time=26ms TTL=127
Reply from 192.168.2.10: bytes=32 time=26ms TTL=127
Reply from 192.168.2.10: bytes=32 time=11ms TTL=127

Ping statistics for 192.168.2.10:
```

Laptop-ZI

Physical Config Desktop Programming Attributes

Command Prompt

```
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=8ms TTL=128
Reply from 192.168.1.4: bytes=32 time=6ms 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

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:\>ping 192.168.1.2

Pinging 192.168.1.2 with 32 bytes of data:

Request timed out.
Reply from 192.168.1.2: bytes=32 time<1ms TTL=255
Reply from 192.168.1.2: bytes=32 time<1ms TTL=255
Reply from 192.168.1.2: bytes=32 time<1ms TTL=255

Ping statistics for 192.168.1.2:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

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

SC-ROB

Physical Config Desktop Programming Attributes

Command Prompt

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.11

Pinging 192.168.1.11 with 32 bytes of data:

Reply from 192.168.1.11: bytes=32 time<1ms TTL=128
Reply from 192.168.1.11: bytes=32 time<1ms TTL=128
Reply from 192.168.1.11: bytes=32 time<1ms TTL=128
Reply from 192.168.1.11: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.1.11:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 192.168.2.12

Pinging 192.168.2.12 with 32 bytes of data:

Request timed out.
Reply from 192.168.2.12: bytes=32 time=23ms TTL=127
Reply from 192.168.2.12: bytes=32 time=25ms TTL=127
Reply from 192.168.2.12: bytes=32 time=37ms TTL=127

Ping statistics for 192.168.2.12:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 23ms, Maximum = 37ms, Average = 28ms

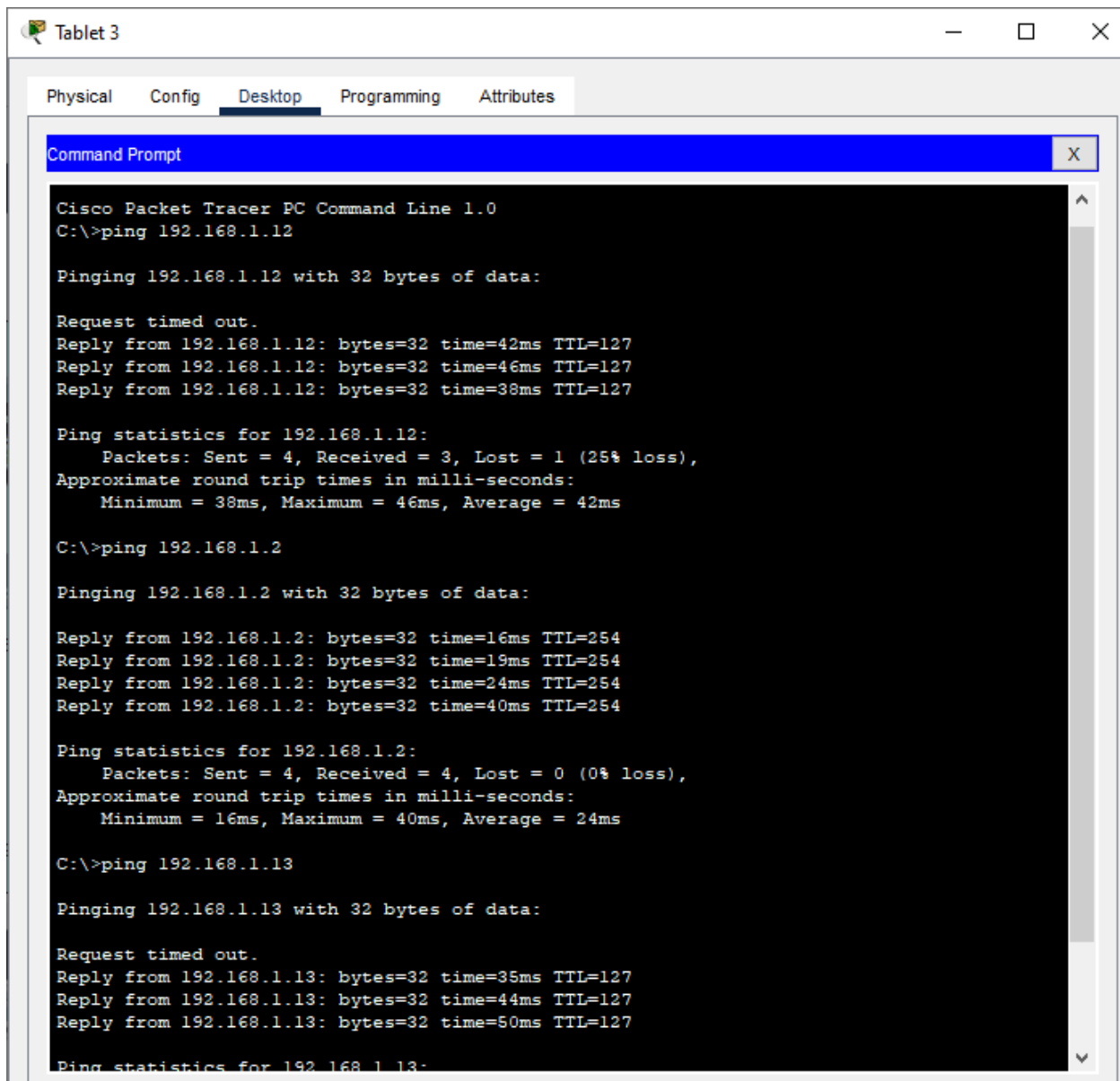
C:\>ping 192.168.2.13

Pinging 192.168.2.13 with 32 bytes of data:

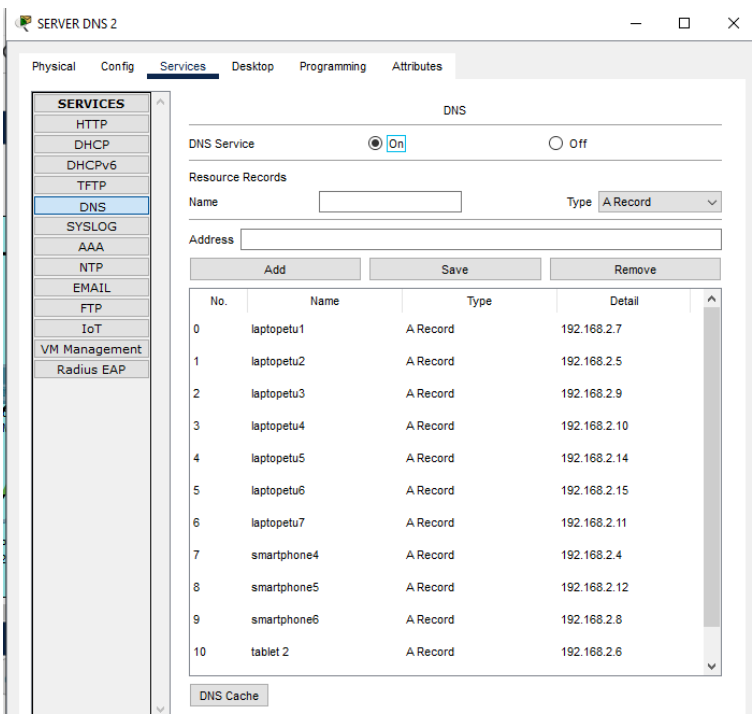
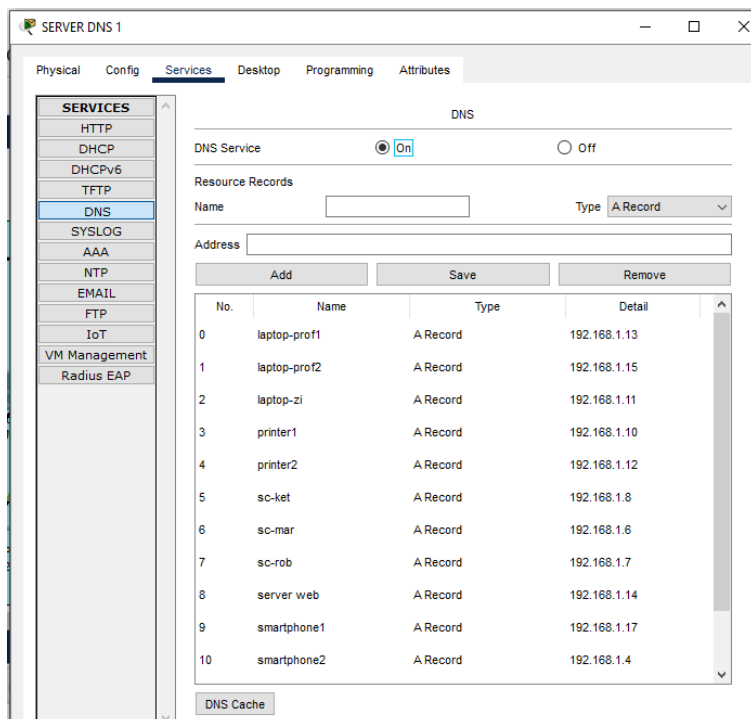
Request timed out.
Reply from 192.168.2.13: bytes=32 time=44ms TTL=127
Reply from 192.168.2.13: bytes=32 time=36ms TTL=127
Reply from 192.168.2.13: bytes=32 time=20ms TTL=127

Ping statistics for 192.168.2.13:
```

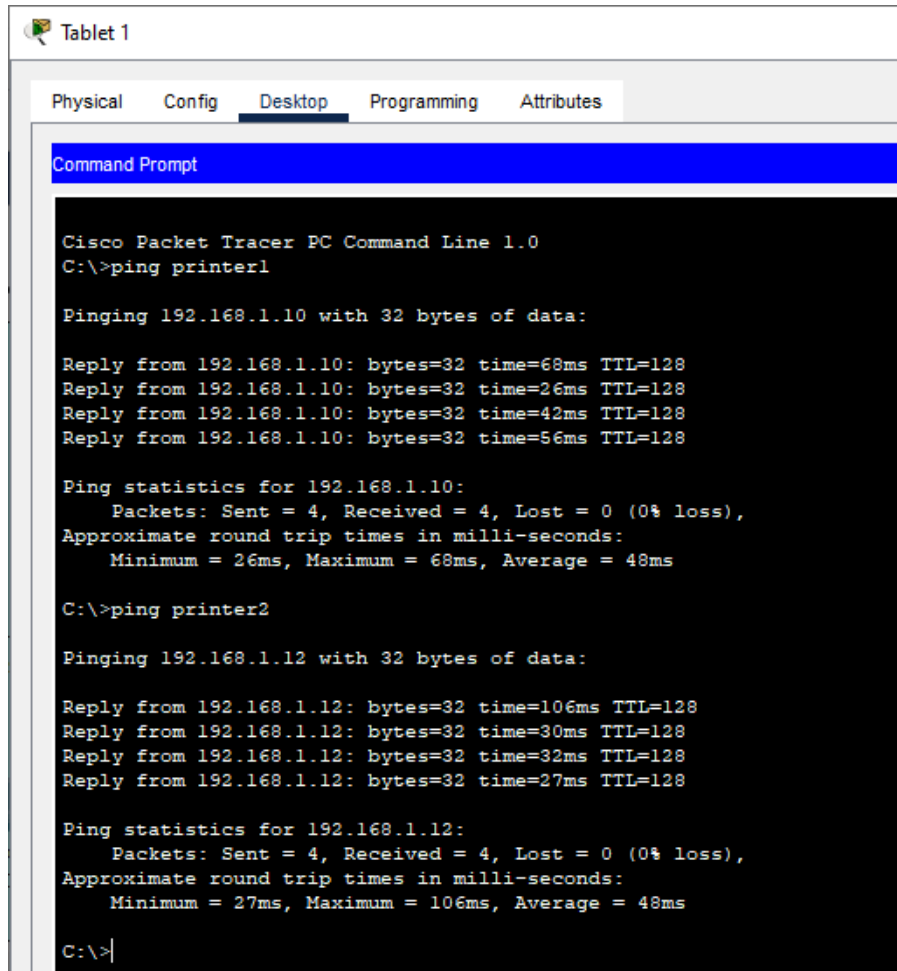
Top



11. Ajouter des enregistrements DNS :



12. Vérification de la Résolution de Noms :



Tablet 1

Physical Config **Desktop** Programming Attributes

Command Prompt

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping printer1

Pinging 192.168.1.10 with 32 bytes of data:

Reply from 192.168.1.10: bytes=32 time=68ms TTL=128
Reply from 192.168.1.10: bytes=32 time=26ms TTL=128
Reply from 192.168.1.10: bytes=32 time=42ms TTL=128
Reply from 192.168.1.10: bytes=32 time=56ms TTL=128

Ping statistics for 192.168.1.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 26ms, Maximum = 68ms, Average = 48ms

C:\>ping printer2

Pinging 192.168.1.12 with 32 bytes of data:

Reply from 192.168.1.12: bytes=32 time=106ms TTL=128
Reply from 192.168.1.12: bytes=32 time=30ms TTL=128
Reply from 192.168.1.12: bytes=32 time=32ms TTL=128
Reply from 192.168.1.12: bytes=32 time=27ms TTL=128

Ping statistics for 192.168.1.12:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 27ms, Maximum = 106ms, Average = 48ms

C:\>
```

```
C:\>ping smartphone4

Pinging 192.168.2.4 with 32 bytes of data:

Reply from 192.168.2.4: bytes=32 time=43ms TTL=128
Reply from 192.168.2.4: bytes=32 time=8ms TTL=128
Reply from 192.168.2.4: bytes=32 time=9ms TTL=128
Reply from 192.168.2.4: bytes=32 time=27ms TTL=128

Ping statistics for 192.168.2.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 8ms, Maximum = 43ms, Average = 21ms

C:\>ping smartphone5

Pinging 192.168.2.12 with 32 bytes of data:

Reply from 192.168.2.12: bytes=32 time=13ms TTL=128
Reply from 192.168.2.12: bytes=32 time=33ms TTL=128
Reply from 192.168.2.12: bytes=32 time=29ms TTL=128
Reply from 192.168.2.12: bytes=32 time=28ms TTL=128

Ping statistics for 192.168.2.12:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 13ms, Maximum = 33ms, Average = 25ms

C:\>
```

```
C:\>ping laptopetu2

Pinging 192.168.2.5 with 32 bytes of data:

Reply from 192.168.2.5: bytes=32 time<1ms TTL=128
Reply from 192.168.2.5: bytes=32 time<1ms TTL=128
Reply from 192.168.2.5: bytes=32 time<1ms TTL=128
Reply from 192.168.2.5: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.2.5:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping laptopetu3

Pinging 192.168.2.9 with 32 bytes of data:

Reply from 192.168.2.9: bytes=32 time<1ms TTL=128
Reply from 192.168.2.9: bytes=32 time<1ms TTL=128
Reply from 192.168.2.9: bytes=32 time<1ms TTL=128
Reply from 192.168.2.9: bytes=32 time=17ms TTL=128

Ping statistics for 192.168.2.9:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 17ms, Average = 4ms

C:\>
```

LaptopETU1

Physical Config Desktop Programming Attributes

Command Prompt

```
C:\>ping laptopetu4

Pinging 192.168.2.10 with 32 bytes of data:

Reply from 192.168.2.10: bytes=32 time<1ms TTL=128
Reply from 192.168.2.10: bytes=32 time<1ms TTL=128
Reply from 192.168.2.10: bytes=32 time<1ms TTL=128
Reply from 192.168.2.10: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.2.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping laptopetu5

Pinging 192.168.2.14 with 32 bytes of data:

Reply from 192.168.2.14: bytes=32 time=1ms TTL=128
Reply from 192.168.2.14: bytes=32 time<1ms TTL=128
Reply from 192.168.2.14: bytes=32 time<1ms TTL=128
Reply from 192.168.2.14: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.2.14:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>ping laptopetu6

Pinging 192.168.2.15 with 32 bytes of data:

Reply from 192.168.2.15: bytes=32 time<1ms TTL=128
Reply from 192.168.2.15: bytes=32 time<1ms TTL=128
Reply from 192.168.2.15: bytes=32 time<1ms TTL=128
Reply from 192.168.2.15: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.2.15:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss)
```

```
Tablet 2
Physical Config Desktop Programming Attributes
Command Prompt
Cisco Packet Tracer PC Command Line 1.0
C:\>ping smartphone4

Pinging 192.168.2.4 with 32 bytes of data:

Reply from 192.168.2.4: bytes=32 time=85ms TTL=128
Reply from 192.168.2.4: bytes=32 time=43ms TTL=128
Reply from 192.168.2.4: bytes=32 time=44ms TTL=128
Reply from 192.168.2.4: bytes=32 time=45ms TTL=128

Ping statistics for 192.168.2.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 43ms, Maximum = 85ms, Average = 54ms

C:\>ping smartphone5

Pinging 192.168.2.12 with 32 bytes of data:

Reply from 192.168.2.12: bytes=32 time=84ms TTL=128
Reply from 192.168.2.12: bytes=32 time=46ms TTL=128
Reply from 192.168.2.12: bytes=32 time=27ms TTL=128
Reply from 192.168.2.12: bytes=32 time=30ms TTL=128

Ping statistics for 192.168.2.12:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 27ms, Maximum = 84ms, Average = 46ms

C:\>ping smartphone6

Pinging 192.168.2.8 with 32 bytes of data:

Reply from 192.168.2.8: bytes=32 time=65ms TTL=128
Reply from 192.168.2.8: bytes=32 time=36ms TTL=128
Reply from 192.168.2.8: bytes=32 time=44ms TTL=128
Reply from 192.168.2.8: bytes=32 time=55ms TTL=128

Ping statistics for 192.168.2.8:
```

```
LaptopETU6
Physical Config Desktop Programming Attributes
Command Prompt
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.4

Pinging 192.168.1.4 with 32 bytes of data:

Request timed out.
Reply from 192.168.1.4: bytes=32 time=25ms TTL=127
Reply from 192.168.1.4: bytes=32 time=27ms TTL=127
Reply from 192.168.1.4: bytes=32 time=37ms TTL=127

Ping statistics for 192.168.1.4:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 25ms, Maximum = 37ms, Average = 29ms

C:\>ping sc-ket

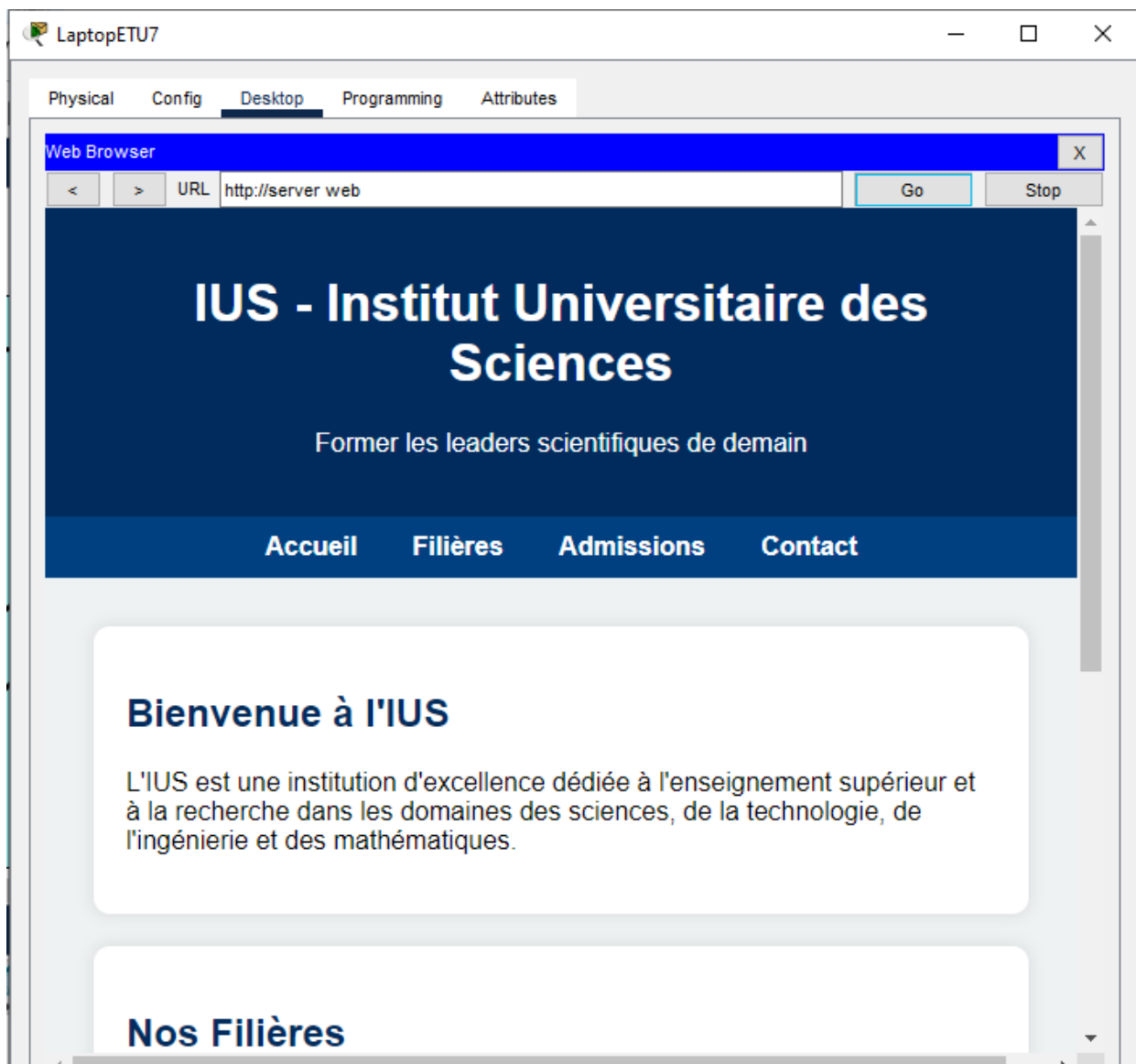
Pinging 192.168.1.8 with 32 bytes of data:

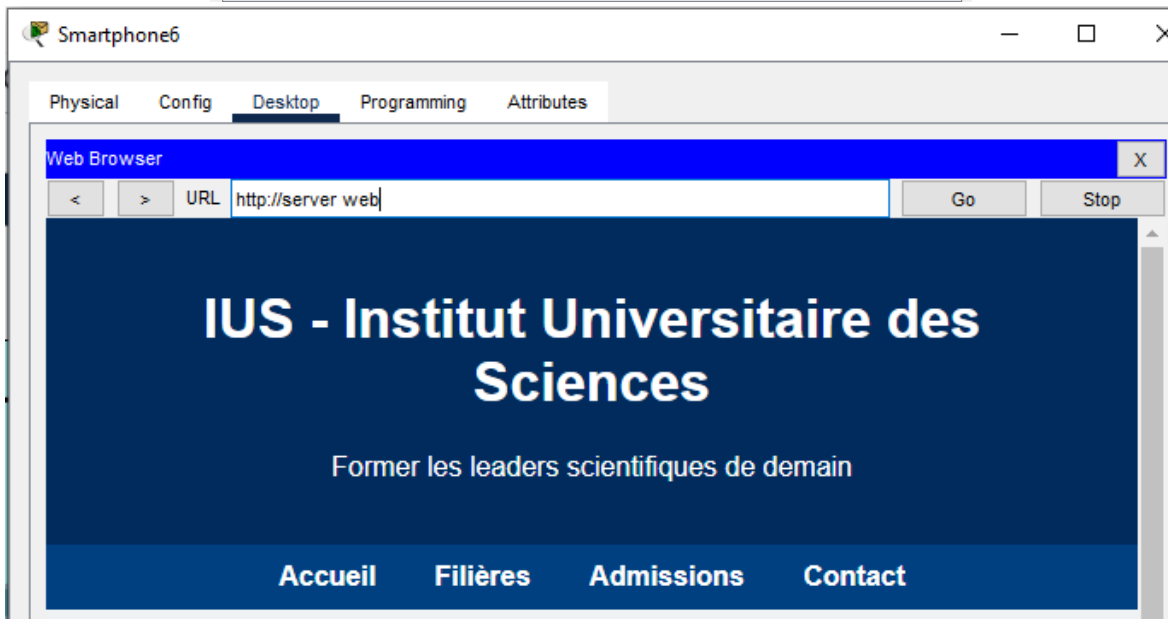
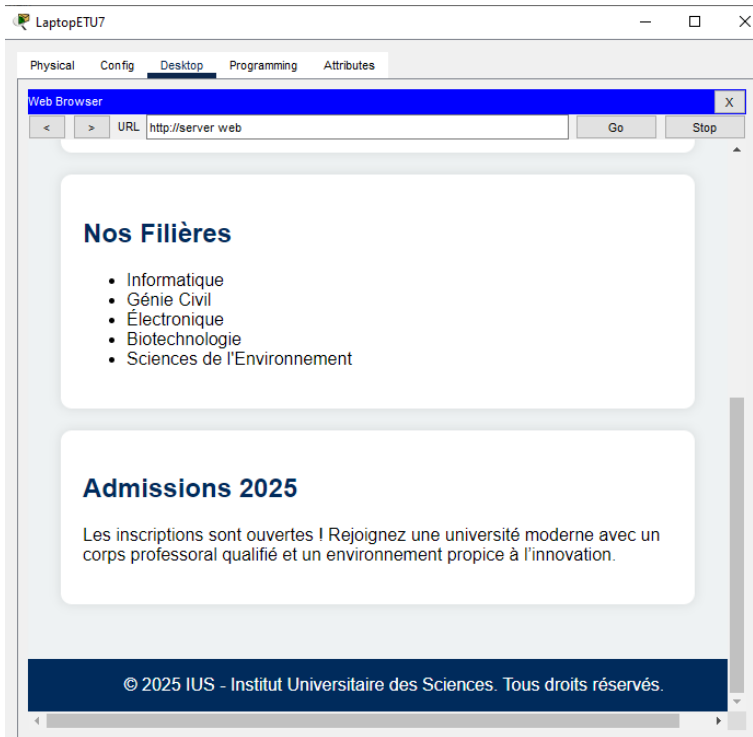
Reply from 192.168.1.8: bytes=32 time<1ms TTL=127
Reply from 192.168.1.8: bytes=32 time<1ms TTL=127
Reply from 192.168.1.8: bytes=32 time<1ms TTL=127
Reply from 192.168.1.8: bytes=32 time<1ms TTL=127

Ping statistics for 192.168.1.8:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>|
```

13. Vérification du Server Web :





14. Maintenant avec l'adresse IP du Server Web



CONCLUSION :

J'ai appris les compétences nécessaires pour configurer des services DNS et DHCP à l'aide de Cisco Packet. Le service DHCP simplifie considérablement la gestion des adresses IP en les attribuant automatiquement aux hôtes du réseau, tandis que le DNS facilite l'accès aux ressources en traduisant les noms de domaine en adresses IP. Grâce aux simulations pratiques, j'ai acquis une meilleure maîtrise de leur configuration, de leur fonctionnement et de leur interaction dans un environnement réseau.