

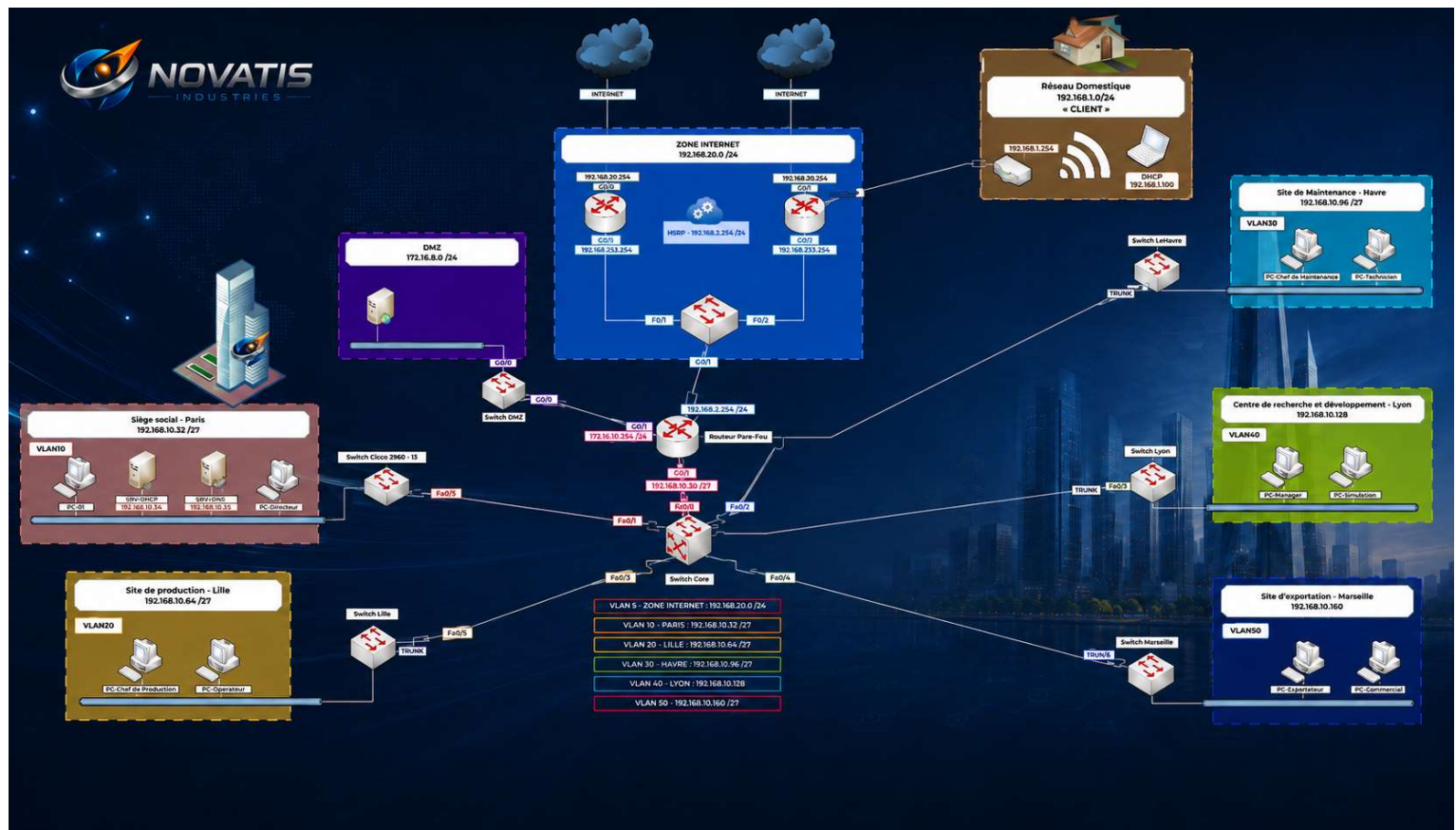
PROJET PERSONNEL – MISE EN PLACE D'UNE INFRASTRUCTURE RESEAU MULTI-SITES SECURISEE ET INTERCONNECTEE



BRETON Théo

Projet N°13 : PROJET NOVATIS INDUSTRIES

DHCP • OSPF • NAT • HSRP • SwitchCoeur L3/L2



Rapport de Test



PROJET PERSONNEL – Théo BRETON

RAPPORT DE TESTS : PROJET N°11 : MISE EN PLACE D'UNE INFRASTRUCTURE RESEAU MULTI-SITES SECURISEE ET INTERCONNECTEE

Paquets envoyés depuis	Destinataire	Résultat
RECEPTION DES BAILS DHCP SUR CHAQUE SOUS RESEAU		
PLAGE SITE PARIS - 192.168.10.33 – 192.168.10.61		
SRV-DHCP SIEGE PARIS	PC PDG	

Poste du PDG

Physical

Config

Desktop

Programming

Attributes

Command Prompt

Cisco Packet Tracer PC Command Line 1.0

C:\>ipconfig

FastEthernet0 Connection: (default port)

Connection-specific DNS Suffix..:

Link-local IPv6 Address.....: FE80::290:21FF:FE2D:B616

IPv6 Address.....: ::

IPv4 Address.....: 192.168.10.36

Subnet Mask.....: 255.255.255.224

Default Gateway.....: ::

192.168.10.62

Bluetooth Connection:

Connection-specific DNS Suffix..:

Link-local IPv6 Address.....: ::

IPv6 Address.....: ::

IPv4 Address.....: 0.0.0.0

Subnet Mask.....: 0.0.0.0

Default Gateway.....: ::

0.0.0.0

C:\>

Top

SRV-DHCP SIEGE PARIS	PC IT	
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PC-IT

Physical

Config

Desktop

Programming

Attributes

Command Prompt

Cisco Packet Tracer PC Command Line 1.0

C:\>ipconfig

FastEthernet0 Connection: (default port)

Connection-specific DNS Suffix..:

Link-local IPv6 Address.....: FE80::230:F2FF:FE6C:2572

IPv6 Address.....: ::

IPv4 Address.....: 192.168.10.35

Subnet Mask.....: 255.255.255.224

Default Gateway.....: ::

192.168.10.62

Bluetooth Connection:

Connection-specific DNS Suffix..:

Link-local IPv6 Address.....: ::

IPv6 Address.....: ::

IPv4 Address.....: 0.0.0.0

Subnet Mask.....: 0.0.0.0

Default Gateway.....: ::

0.0.0.0

C:\>

Top



PROJET PERSONNEL – Théo BRETON

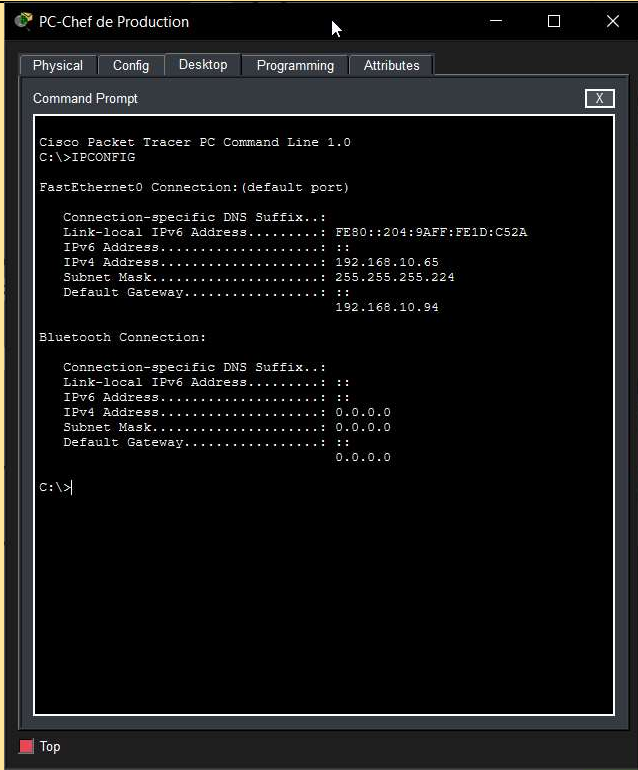
RAPPORT DE TESTS : PROJET N°11 : MISE EN PLACE D'UNE INFRASTRUCTURE

RESEAU MULTI-SITES SECURISEE ET INTERCONNECTEE

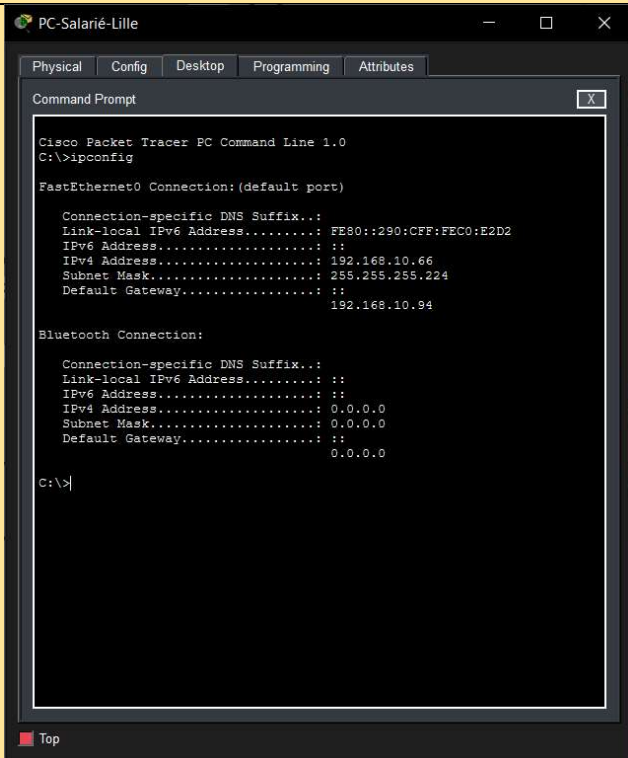
2

SRV-DHCP SIEGE PARIS

PC-Chef de Production

 PC-Salarié-Lille

PC-Salarié-Lille





PC-Chef de la Maintenance

PhysicalConfigDesktopProgrammingAttributes

Command Prompt

Cisco Packet Tracer PC Command Line 1.0
C:\>ipconfig

FastEthernet0 Connection:(default port)

Connection-specific DNS Suffix...:
Link-local IPv6 Address.....: FE80::2D0:D3FF:FE17:E116
IPv6 Address.....: ::
IPv4 Address.....: 192.168.10.97
Subnet Mask.....: 255.255.255.224
Default Gateway.....: ::
192.168.10.126

Bluetooth Connection:

Connection-specific DNS Suffix...:
Link-local IPv6 Address.....: ::
IPv6 Address.....: ::
IPv4 Address.....: 0.0.0.0
Subnet Mask.....: 0.0.0.0
Default Gateway.....: ::
0.0.0.0

C:\>|

Top



PC-Salarié-Havre

PhysicalConfigDesktopProgrammingAttributes

Command Prompt

Cisco Packet Tracer PC Command Line 1.0
C:\>ipconfig

FastEthernet0 Connection:(default port)

Connection-specific DNS Suffix...:
Link-local IPv6 Address.....: FE80::2D0:97FF:FEC3:1DAA
IPv6 Address.....: ::
IPv4 Address.....: 192.168.10.98
Subnet Mask.....: 255.255.255.224
Default Gateway.....: ::
192.168.10.126

Bluetooth Connection:

Connection-specific DNS Suffix...:
Link-local IPv6 Address.....: ::
IPv6 Address.....: ::
IPv4 Address.....: 0.0.0.0
Subnet Mask.....: 0.0.0.0
Default Gateway.....: ::
0.0.0.0

C:\>|

Top



PC-Manager

Physical Config Desktop Programming Attributes

Command Prompt

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

FastEthernet0 Connection: (default port)

    Connection-specific DNS Suffix...:
    Link-local IPv6 Address . . . . .: FE80::201:43FF:FEDE:7A68
    IPv6 Address . . . . .: ::
    IPv4 Address . . . . .: 192.168.10.129
    Subnet Mask . . . . .: 255.255.255.224
    Default Gateway . . . . .: ::
                                192.168.10.158

Bluetooth Connection:

    Connection-specific DNS Suffix...:
    Link-local IPv6 Address . . . . .: ::
    IPv6 Address . . . . .: ::
    IPv4 Address . . . . .: 0.0.0.0
    Subnet Mask . . . . .: 0.0.0.0
    Default Gateway . . . . .: ::
                                0.0.0.0

C:\>
```

Top



PC-Salarié-Lyon

Physical Config Desktop Programming Attributes

Command Prompt

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

FastEthernet0 Connection: (default port)

    Connection-specific DNS Suffix...:
    Link-local IPv6 Address . . . . .: FE80::260:47FF:FEC0:998E
    IPv6 Address . . . . .: ::
    IPv4 Address . . . . .: 192.168.10.130
    Subnet Mask . . . . .: 255.255.255.224
    Default Gateway . . . . .: ::
                                192.168.10.158

Bluetooth Connection:

    Connection-specific DNS Suffix...:
    Link-local IPv6 Address . . . . .: ::
    IPv6 Address . . . . .: ::
    IPv4 Address . . . . .: 0.0.0.0
    Subnet Mask . . . . .: 0.0.0.0
    Default Gateway . . . . .: ::
                                0.0.0.0

C:\>
```

Top



PC-Superviseur

Physical Config Desktop Programming Attributes

Command Prompt

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

FastEthernet0 Connection: (default port)

    Connection-specific DNS Suffix...:
    Link-local IPv6 Address . . . . .: FE80::2E0:B0FF:FEE3:A1BA
    IPv6 Address . . . . .: ::
    IPv4 Address . . . . .: 192.168.10.162
    Subnet Mask . . . . .: 255.255.255.224
    Default Gateway . . . . .:
                                192.168.10.190

Bluetooth Connection:

    Connection-specific DNS Suffix...:
    Link-local IPv6 Address . . . . .: ::
    IPv6 Address . . . . .: ::
    IPv4 Address . . . . .: 0.0.0.0
    Subnet Mask . . . . .: 0.0.0.0
    Default Gateway . . . . .:
                                0.0.0.0

C:\>
```

Top



PC-Salarié-Marseille

Physical Config Desktop Programming Attributes

Command Prompt

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

FastEthernet0 Connection: (default port)

    Connection-specific DNS Suffix...:
    Link-local IPv6 Address . . . . .: FE80::202:4AFF:FE7B:B589
    IPv6 Address . . . . .: ::
    IPv4 Address . . . . .: 192.168.10.161
    Subnet Mask . . . . .: 255.255.255.224
    Default Gateway . . . . .:
                                192.168.10.190

Bluetooth Connection:

    Connection-specific DNS Suffix...:
    Link-local IPv6 Address . . . . .: ::
    IPv6 Address . . . . .: ::
    IPv4 Address . . . . .: 0.0.0.0
    Subnet Mask . . . . .: 0.0.0.0
    Default Gateway . . . . .:
                                0.0.0.0

C:\>
```

Top

TESTS COMMUNICATION PASSERELLE

PC PDG – SITE PARIS

VLAN 10 – 192.168.10.62



```
Poste du PDG

Physical Config Desktop Programming Attributes

Command Prompt

Cisco Packet Tracer PC Command Line 1.0
C:\>ipconfig

FastEthernet0 Connection: (default port)

    Connection-specific DNS Suffix...:
    Link-local IPv6 Address . . . . .: FE80::290:21FF:FE2D:B616
    IPv6 Address . . . . .: ::
    IPv4 Address . . . . .: 192.168.10.36
    Subnet Mask . . . . .: 255.255.255.224
    Default Gateway . . . . .: ::
                                192.168.10.62

Bluetooth Connection:

    Connection-specific DNS Suffix...:
    Link-local IPv6 Address . . . . .:
    IPv6 Address . . . . .:
    IPv4 Address . . . . .: 0.0.0.0
    Subnet Mask . . . . .: 0.0.0.0
    Default Gateway . . . . .:
                                0.0.0.0

C:\>ping 192.168.10.62

Pinging 192.168.10.62 with 32 bytes of data:

Reply from 192.168.10.62: bytes=32 time<1ms TTL=255
Reply from 192.168.10.62: bytes=32 time<1ms TTL=255
Reply from 192.168.10.62: bytes=32 time<1ms TTL=255
Reply from 192.168.10.62: bytes=32 time<1ms TTL=255

Ping statistics for 192.168.10.62:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

PC-Chef de Production – SITE LILLE

VLAN 20 - 192.168.10.94



```
PC-Chef de Production

Physical Config Desktop Programming Attributes

Command Prompt

Cisco Packet Tracer PC Command Line 1.0
C:\>IPCONFIG

FastEthernet0 Connection: (default port)

    Connection-specific DNS Suffix...:
    Link-local IPv6 Address . . . . .: FE80::204:9AFF:FE1D:C52A
    IPv6 Address . . . . .: ::
    IPv4 Address . . . . .: 192.168.10.65
    Subnet Mask . . . . .: 255.255.255.224
    Default Gateway . . . . .: ::
                                192.168.10.94

Bluetooth Connection:

    Connection-specific DNS Suffix...:
    Link-local IPv6 Address . . . . .:
    IPv6 Address . . . . .:
    IPv4 Address . . . . .: 0.0.0.0
    Subnet Mask . . . . .: 0.0.0.0
    Default Gateway . . . . .:
                                0.0.0.0

C:\>ping 192.168.10.94

Pinging 192.168.10.94 with 32 bytes of data:

Reply from 192.168.10.94: bytes=32 time<1ms TTL=255
Reply from 192.168.10.94: bytes=32 time<1ms TTL=255
Reply from 192.168.10.94: bytes=32 time=4ms TTL=255
Reply from 192.168.10.94: bytes=32 time<1ms TTL=255

Ping statistics for 192.168.10.94:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 4ms, Average = 1ms

C:\>
```



PROJET PERSONNEL – Théo BRETON

RAPPORT DE TESTS : PROJET N°11 : MISE EN PLACE D'UNE INFRASTRUCTURE
RESEAU MULTI-SITES SECURISEE ET INTERCONNECTEE



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PC-Chef de la Maintenance

Physical Config Desktop Programming Attributes

Command Prompt

Cisco Packet Tracer PC Command Line 1.0
C:\>ipconfig

FastEthernet0 Connection:(default port)

    Connection-specific DNS Suffix...:
    Link-local IPv6 Address...: FE80::2D0:D3FF:FE17:E116
    IPv6 Address...:
    IPv4 Address...: 192.168.10.97
    Subnet Mask...: 255.255.255.224
    Default Gateway...:
    192.168.10.126

Bluetooth Connection:

    Connection-specific DNS Suffix...:
    Link-local IPv6 Address...:
    IPv6 Address...:
    IPv4 Address...: 0.0.0.0
    Subnet Mask...: 0.0.0.0
    Default Gateway...:
    0.0.0.0

C:\>ping 192.168.10.126

Pinging 192.168.10.126 with 32 bytes of data:

Reply from 192.168.10.126: bytes=32 time<1ms TTL=255
Reply from 192.168.10.126: bytes=32 time<1ms TTL=255
Reply from 192.168.10.126: bytes=32 time<1ms TTL=255
Reply from 192.168.10.126: bytes=32 time<1ms TTL=255

Ping statistics for 192.168.10.126:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```



```
PC-Manager

Physical Config Desktop Programming Attributes

Command Prompt

Cisco Packet Tracer PC Command Line 1.0
C:\>ipconfig

FastEthernet0 Connection:(default port)

    Connection-specific DNS Suffix...:
    Link-local IPv6 Address...: FE80::201:43FF:FEDE:7A68
    IPv6 Address...:
    IPv4 Address...: 192.168.10.129
    Subnet Mask...: 255.255.255.224
    Default Gateway...:
    192.168.10.158

Bluetooth Connection:

    Connection-specific DNS Suffix...:
    Link-local IPv6 Address...:
    IPv6 Address...:
    IPv4 Address...: 0.0.0.0
    Subnet Mask...: 0.0.0.0
    Default Gateway...:
    0.0.0.0

C:\>ping 192.168.10.158

Pinging 192.168.10.158 with 32 bytes of data:

Reply from 192.168.10.158: bytes=32 time<1ms TTL=255
Reply from 192.168.10.158: bytes=32 time<1ms TTL=255
Reply from 192.168.10.158: bytes=32 time<1ms TTL=255
Reply from 192.168.10.158: bytes=32 time<1ms TTL=255

Ping statistics for 192.168.10.158:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```



PC-Superviseur

Physical Config Desktop Programming Attributes

Command Prompt

Cisco Packet Tracer PC Command Line 1.0
C:\>IPCONFIG

FastEthernet0 Connection: (default port)

Connection-specific DNS Suffix...:
Link-local IPv6 Address.....: FE80::2E0:B0FF:FEE3:A1BA
IPv6 Address.....: ::
IPv4 Address.....: 192.168.10.162
Subnet Mask.....: 255.255.255.224
Default Gateway.....: ::
192.168.10.190

Bluetooth Connection:

Connection-specific DNS Suffix...:
Link-local IPv6 Address.....: ::
IPv6 Address.....: ::
IPv4 Address.....: 0.0.0.0
Subnet Mask.....: 0.0.0.0
Default Gateway.....: ::
0.0.0.0

C:\>ping 192.168.10.190

Pinging 192.168.10.190 with 32 bytes of data:

Reply from 192.168.10.190: bytes=32 time<1ms TTL=255
Reply from 192.168.10.190: bytes=32 time<1ms TTL=255
Reply from 192.168.10.190: bytes=32 time<1ms TTL=255
Reply from 192.168.10.190: bytes=32 time<1ms TTL=255

Ping statistics for 192.168.10.190:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>|

Top

TESTS COMMUNICATION ZONE INTERNET

PC IT – SITE PARIS

Gi0/1 – RouteurPareFeu – 192.168.10.29
Gi0/0 – RouteurPareFeu – 192.168.2.251
Gi0/0 – Routeur1 - 192.168.2.252
Gi0/0 – Routeur2 - 192.168.2.253



PC-IT

Physical Config Desktop Programming Attributes

Command Prompt

Bluetooth Connection:

Connection-specific DNS Suffix...:
Link-local IPv6 Address.....: ::
IPv6 Address.....: ::
IPv4 Address.....: 0.0.0.0
Subnet Mask.....: 0.0.0.0
Default Gateway.....: ::
0.0.0.0

C:\>ping 192.168.10.29

Pinging 192.168.10.29 with 32 bytes of data:

Reply from 192.168.10.29: bytes=32 time<1ms TTL=254
Reply from 192.168.10.29: bytes=32 time<1ms TTL=254
Reply from 192.168.10.29: bytes=32 time<1ms TTL=254
Reply from 192.168.10.29: bytes=32 time<1ms TTL=254

Ping statistics for 192.168.10.29:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 192.168.2.251

Pinging 192.168.2.251 with 32 bytes of data:

Reply from 192.168.2.251: bytes=32 time<1ms TTL=254
Reply from 192.168.2.251: bytes=32 time<1ms TTL=254
Reply from 192.168.2.251: bytes=32 time<1ms TTL=254
Reply from 192.168.2.251: bytes=32 time<1ms TTL=254

Ping statistics for 192.168.2.251:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>|

Top

PC-IT

Physical Config Desktop Programming Attributes

Command Prompt

Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.2.252

Pinging 192.168.2.252 with 32 bytes of data:

Request timed out.
Request timed out.
Reply from 192.168.2.252: bytes=32 time<1ms TTL=253
Reply from 192.168.2.252: bytes=32 time<1ms TTL=253

Ping statistics for 192.168.2.252:
Packets: Sent = 4, Received = 2, Lost = 2 (50% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 192.168.2.253

Pinging 192.168.2.253 with 32 bytes of data:

Request timed out.
Reply from 192.168.2.253: bytes=32 time<1ms TTL=253
Reply from 192.168.2.253: bytes=32 time<1ms TTL=253
Reply from 192.168.2.253: bytes=32 time<1ms TTL=253

Ping statistics for 192.168.2.253:
Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 192.168.2.252

Pinging 192.168.2.252 with 32 bytes of data:

Reply from 192.168.2.252: bytes=32 time<1ms TTL=253
Reply from 192.168.2.252: bytes=32 time<1ms TTL=253
Reply from 192.168.2.252: bytes=32 time<1ms TTL=253
Reply from 192.168.2.252: bytes=32 time<1ms TTL=253

Ping statistics for 192.168.2.252:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms

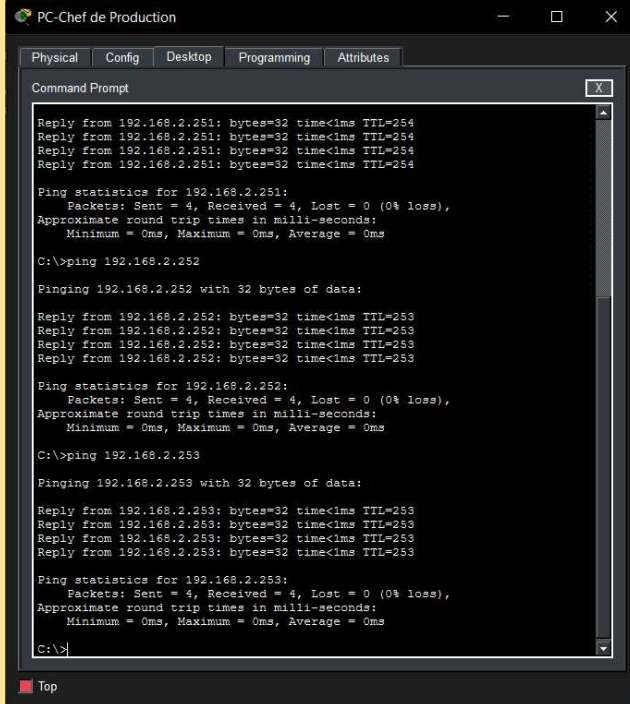
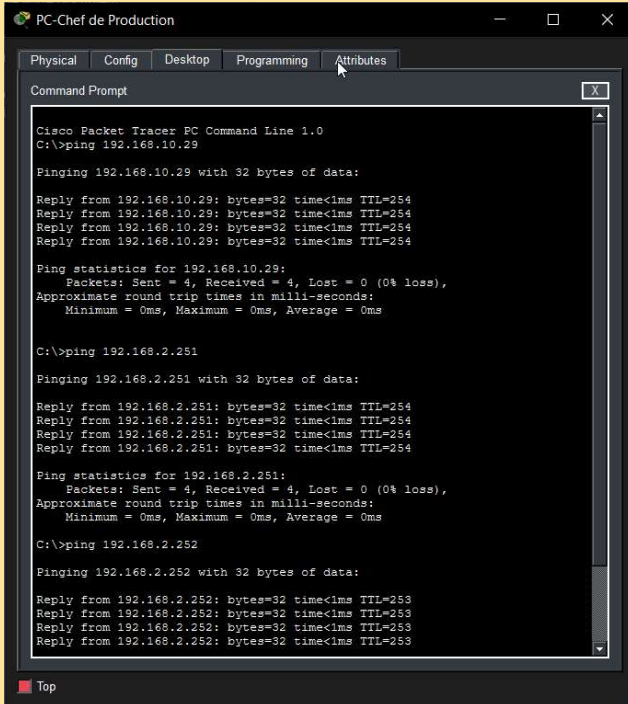
C:\>|

Top



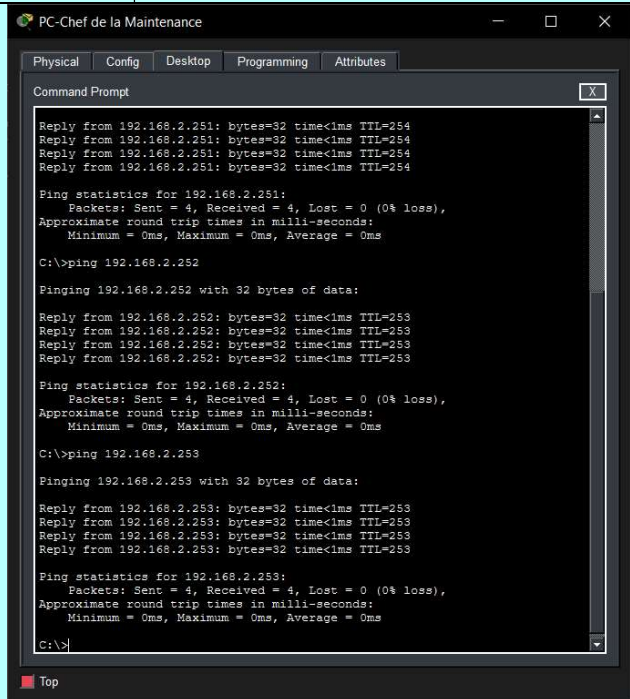
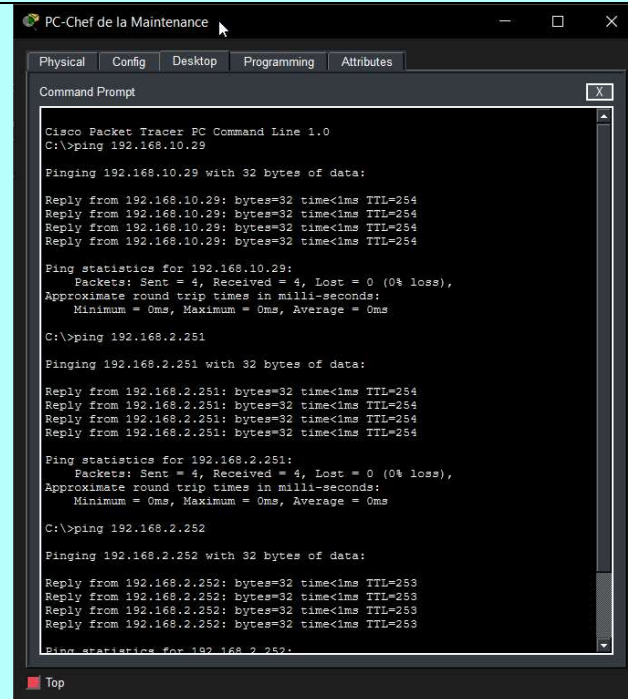
PC Chef de Production – SITE LILLE

Gi0/1 – RouteurPareFeu – 192.168.10.29
Gi0/0 – RouteurPareFeu – 192.168.2.251
Gi0/0 – Routeur1 - 192.168.2.252
Gi0/0 – Routeur2 - 192.168.2.253



PC Chef de Maintenance – SITE HAVRE

Gi0/1 – RouteurPareFeu – 192.168.10.29
Gi0/0 – RouteurPareFeu – 192.168.2.251
Gi0/0 – Routeur1 - 192.168.2.252
Gi0/0 – Routeur2 - 192.168.2.253



PC Manager – SITE HAVRE

Gi0/1 – RouteurPareFeu – 192.168.10.29
Gi0/0 – RouteurPareFeu – 192.168.2.251
Gi0/0 – Routeur1 - 192.168.2.252
Gi0/0 – Routeur2 - 192.168.2.253



PC-Manager

Physical Config Desktop Programming Attributes

Command Prompt

Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.10.29

Pinging 192.168.10.29 with 32 bytes of data:

Reply from 192.168.10.29: bytes=32 time<1ms TTL=254
Reply from 192.168.10.29: bytes=32 time<1ms TTL=254
Reply from 192.168.10.29: bytes=32 time<1ms TTL=254
Reply from 192.168.10.29: bytes=32 time<1ms TTL=254

Ping statistics for 192.168.10.29:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 192.168.2.251

Pinging 192.168.2.251 with 32 bytes of data:

Reply from 192.168.2.251: bytes=32 time<1ms TTL=254
Reply from 192.168.2.251: bytes=32 time<1ms TTL=254
Reply from 192.168.2.251: bytes=32 time<1ms TTL=254
Reply from 192.168.2.251: bytes=32 time<1ms TTL=254

Ping statistics for 192.168.2.251:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 192.168.2.252

Pinging 192.168.2.252 with 32 bytes of data:

Reply from 192.168.2.252: bytes=32 time=2ms TTL=253
Reply from 192.168.2.252: bytes=32 time<1ms TTL=253
Reply from 192.168.2.252: bytes=32 time<1ms TTL=253
Reply from 192.168.2.252: bytes=32 time<1ms TTL=253

Ping statistics for 192.168.2.252:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms

Top

PC-Manager

Physical Config Desktop Programming Attributes

Command Prompt

Reply from 192.168.2.251: bytes=32 time<1ms TTL=254
Reply from 192.168.2.251: bytes=32 time<1ms TTL=254
Reply from 192.168.2.251: bytes=32 time<1ms TTL=254
Reply from 192.168.2.251: bytes=32 time<1ms TTL=254

Ping statistics for 192.168.2.251:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 192.168.2.252

Pinging 192.168.2.252 with 32 bytes of data:

Reply from 192.168.2.252: bytes=32 time=2ms TTL=253
Reply from 192.168.2.252: bytes=32 time<1ms TTL=253
Reply from 192.168.2.252: bytes=32 time<1ms TTL=253
Reply from 192.168.2.252: bytes=32 time<1ms TTL=253

Ping statistics for 192.168.2.252:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 2ms, Average = 0ms

C:\>ping 192.168.2.253

Pinging 192.168.2.253 with 32 bytes of data:

Reply from 192.168.2.253: bytes=32 time<1ms TTL=253
Reply from 192.168.2.253: bytes=32 time<1ms TTL=253
Reply from 192.168.2.253: bytes=32 time<1ms TTL=253
Reply from 192.168.2.253: bytes=32 time<1ms TTL=253

Ping statistics for 192.168.2.253:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>

Top

PC Superviseur – SITE MARSEILLE

Gi0/1 – RouteurPareFeu – 192.168.10.29
Gi0/0 – RouteurPareFeu – 192.168.2.251
Gi0/0 – Routeur1 - 192.168.2.252
Gi0/0 – Routeur2 - 192.168.2.253



PC-Superviseur

Physical Config Desktop Programming Attributes

Command Prompt

Reply from 192.168.2.251: bytes=32 time<1ms TTL=254
Reply from 192.168.2.251: bytes=32 time=7ms TTL=254
Reply from 192.168.2.251: bytes=32 time<1ms TTL=254
Reply from 192.168.2.251: bytes=32 time<1ms TTL=254

Ping statistics for 192.168.2.251:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 7ms, Average = 2ms

C:\>ping 192.168.2.252

Pinging 192.168.2.252 with 32 bytes of data:

Reply from 192.168.2.252: bytes=32 time<1ms TTL=253
Reply from 192.168.2.252: bytes=32 time<1ms TTL=253
Reply from 192.168.2.252: bytes=32 time<1ms TTL=253
Reply from 192.168.2.252: bytes=32 time<1ms TTL=253

Ping statistics for 192.168.2.252:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 192.168.2.253

Pinging 192.168.2.253 with 32 bytes of data:

Reply from 192.168.2.253: bytes=32 time<1ms TTL=253
Reply from 192.168.2.253: bytes=32 time<1ms TTL=253
Reply from 192.168.2.253: bytes=32 time<1ms TTL=253
Reply from 192.168.2.253: bytes=32 time<1ms TTL=253

Ping statistics for 192.168.2.253:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>

Top

PC-Superviseur

Physical Config Desktop Programming Attributes

Command Prompt

Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.10.29

Pinging 192.168.10.29 with 32 bytes of data:

Reply from 192.168.10.29: bytes=32 time<1ms TTL=254
Reply from 192.168.10.29: bytes=32 time<1ms TTL=254
Reply from 192.168.10.29: bytes=32 time<1ms TTL=254
Reply from 192.168.10.29: bytes=32 time<1ms TTL=254

Ping statistics for 192.168.10.29:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 192.168.2.251

Pinging 192.168.2.251 with 32 bytes of data:

Reply from 192.168.2.251: bytes=32 time<1ms TTL=254
Reply from 192.168.2.251: bytes=32 time=7ms TTL=254
Reply from 192.168.2.251: bytes=32 time<1ms TTL=254
Reply from 192.168.2.251: bytes=32 time<1ms TTL=254

Ping statistics for 192.168.2.251:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 7ms, Average = 2ms

C:\>ping 192.168.2.252

Pinging 192.168.2.252 with 32 bytes of data:

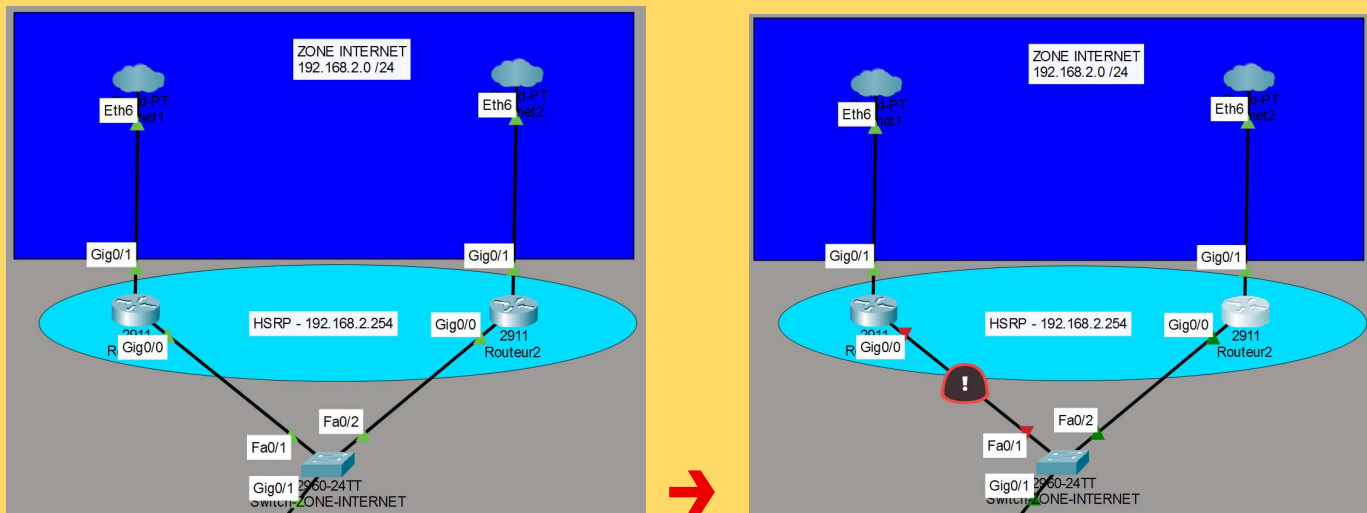
Reply from 192.168.2.252: bytes=32 time<1ms TTL=253
Reply from 192.168.2.252: bytes=32 time<1ms TTL=253
Reply from 192.168.2.252: bytes=32 time<1ms TTL=253
Reply from 192.168.2.252: bytes=32 time<1ms TTL=253

Ping statistics for 192.168.2.252:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 1ms, Average = 0ms

Top

TESTS COMMUNICATION ADRESSE VIRTUEL HSRP – ZONE INTERNET

Une VIP HSRP est une adresse unique partagée par un groupe de routeurs qui sert de passerelle par défaut unique pour les machines du réseau.



Les tests vont porter sur la redondance des deux liens qui mène vers internet sur les postes client de l'ensemble des SITE du Groupe NOVATIS.

Sur chaque poste je vais tester que la VIP HSRP est joignable même avec un lien rompu.

```
Router2
Physical Config CLI Attributes
IOS Command Line Interface
states and local country laws governing import, export, transfer and
use. Delivery of Cisco cryptographic products does not imply
third-party authority to import, export, distribute or use encryption.
Importers, exporters, distributors and users are responsible for
compliance with U.S. and local country laws. By using this product you
agree to comply with applicable laws and regulations. If you are unable
to comply with U.S. and local laws, return this product immediately.

A summary of U.S. laws governing Cisco cryptographic products may be found
at:
http://www.cisco.com/www1/export/crypto/tool/stqrg.html

If you require further assistance please contact us by sending email to
export@cisco.com.

Cisco CISC02911/K9 (revision 1.0) with 491520K/32768K bytes of memory.
Processor board ID FTX152400KS
4 FastEthernet interface(s)
3 Gigabit Ethernet interfaces
DRAM configuration is 64 bits wide with parity disabled.
255K bytes of non-volatile configuration memory.
249856K bytes of ATA System CompactFlash 0 (Read/Write)

Press RETURN to get started!

%HSRP-6-STATECHANGE: GigabitEthernet0/0 Grp 1 state Init -> Init
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed
state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed
state to up
%HSRP-6-STATECHANGE: GigabitEthernet0/0 Grp 1 state Speak -> Standby
%HSRP-6-STATECHANGE: GigabitEthernet0/0 Grp 1 state Standby -> Active
```

Le routeur 2 nous indique dans les logs avoir pris le relay.



```
PC-IT
Physical Config Desktop Programming Attributes
Command Prompt
Reply from 192.168.2.252: bytes=32 time<1ms TTL=253

Ping statistics for 192.168.2.252:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>ping 192.168.2.254

Pinging 192.168.2.254 with 32 bytes of data:

Reply from 192.168.2.254: bytes=32 time<1ms TTL=253
Reply from 192.168.2.254: bytes=32 time<1ms TTL=253
Reply from 192.168.2.254: bytes=32 time<1ms TTL=253
Reply from 192.168.2.254: bytes=32 time<1ms TTL=253

Ping statistics for 192.168.2.254:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>tracert 192.168.2.254

Tracing route to 192.168.2.254 over a maximum of 30 hops:

  0  0 ms    0 ms    5 ms    192.168.10.62
  1  0 ms    0 ms    0 ms    192.168.10.29
  2  0 ms    0 ms    0 ms    192.168.2.254

Trace complete.

C:\>
```



```
PC-Chef de Production
Physical Config Desktop Programming Attributes
Command Prompt
Reply from 192.168.2.253: bytes=32 time<1ms TTL=253
Reply from 192.168.2.253: bytes=32 time<1ms TTL=253
Reply from 192.168.2.253: bytes=32 time<1ms TTL=253
Reply from 192.168.2.253: bytes=32 time<1ms TTL=253

Ping statistics for 192.168.2.253:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
C:\>
C:\>
C:\>
C:\>
C:\>ping 192.168.2.254

Pinging 192.168.2.254 with 32 bytes of data:

Reply from 192.168.2.254: bytes=32 time<1ms TTL=253
Reply from 192.168.2.254: bytes=32 time<1ms TTL=253
Reply from 192.168.2.254: bytes=32 time<1ms TTL=253
Reply from 192.168.2.254: bytes=32 time<1ms TTL=253

Ping statistics for 192.168.2.254:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>tracert 192.168.2.254

Tracing route to 192.168.2.254 over a maximum of 30 hops:

  0  0 ms    0 ms    0 ms    192.168.10.94
  1  0 ms    0 ms    0 ms    192.168.10.29
  2  0 ms    0 ms    0 ms    192.168.2.254

Trace complete.

C:\>
```



```
PC-Chef de la Maintenance
Physical Config Desktop Programming Attributes
Command Prompt
Reply from 192.168.2.253: bytes=32 time<1ms TTL=253
Reply from 192.168.2.253: bytes=32 time<1ms TTL=253

Ping statistics for 192.168.2.253:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>ping 192.168.2.254

Pinging 192.168.2.254 with 32 bytes of data:

Reply from 192.168.2.254: bytes=32 time<1ms TTL=253
Reply from 192.168.2.254: bytes=32 time<1ms TTL=253
Reply from 192.168.2.254: bytes=32 time<1ms TTL=253
Reply from 192.168.2.254: bytes=32 time<1ms TTL=253

Ping statistics for 192.168.2.254:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>tracert 192.168.2.254

Tracing route to 192.168.2.254 over a maximum of 30 hops:

  1  0 ms    0 ms    0 ms    192.168.10.126
  2  0 ms    0 ms    0 ms    192.168.10.29
  3  0 ms    1 ms    0 ms    192.168.2.254

Trace complete.

C:\>
```



```
PC-Manager
Physical Config Desktop Programming Attributes
Command Prompt
Reply from 192.168.2.253: bytes=32 time<1ms TTL=253
Reply from 192.168.2.253: bytes=32 time<1ms TTL=253
Reply from 192.168.2.253: bytes=32 time<1ms TTL=253
Reply from 192.168.2.253: bytes=32 time<1ms TTL=253

Ping statistics for 192.168.2.253:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>
C:\>
C:\>
C:\>
C:\>ping 192.168.2.254

Pinging 192.168.2.254 with 32 bytes of data:

Reply from 192.168.2.254: bytes=32 time<1ms TTL=253
Reply from 192.168.2.254: bytes=32 time<1ms TTL=253
Reply from 192.168.2.254: bytes=32 time<1ms TTL=253
Reply from 192.168.2.254: bytes=32 time<1ms TTL=253

Ping statistics for 192.168.2.254:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>tracert 192.168.2.254

Tracing route to 192.168.2.254 over a maximum of 30 hops:

  1  0 ms    0 ms    0 ms    192.168.10.158
  2  0 ms    0 ms    0 ms    192.168.10.29
  3  0 ms    0 ms    0 ms    192.168.2.254

Trace complete.

C:\>
```



The screenshot shows the PC-Superviseur application window with a Command Prompt open. The Command Prompt displays the results of a traceroute and a ping test to the IP address 192.168.2.254. The traceroute shows three hops, all with 0 ms latency. The ping test shows four successful replies with 32 bytes of data and a TTL of 253, with a round trip time of less than 1 ms. The Command Prompt window has a 'Top' button in the bottom left corner.

```
PC-Superviseur
Physical Config Desktop Programming Attributes
Command Prompt
2 0 ms 0 ms 0 ms 192.168.10.29
3 0 ms 0 ms 0 ms 192.168.2.254
Trace complete.
C:\>tracert 192.168.2.254
Tracing route to 192.168.2.254 over a maximum of 30 hops:
 1 0 ms 0 ms 0 ms 192.168.10.190
 2 0 ms 0 ms 0 ms 192.168.10.29
 3 0 ms 0 ms 0 ms 192.168.2.254
Trace complete.
C:\>tracert 192.168.2.254
Tracing route to 192.168.2.254 over a maximum of 30 hops:
 1 0 ms 0 ms 0 ms 192.168.10.190
 2 0 ms 0 ms 0 ms 192.168.10.29
 3 0 ms 0 ms 0 ms 192.168.2.254
Trace complete.
C:\>ping 192.168.2.254
Pinging 192.168.2.254 with 32 bytes of data:
Reply from 192.168.2.254: bytes=32 time<1ms TTL=253
Reply from 192.168.2.254: bytes=32 time<1ms TTL=253
Reply from 192.168.2.254: bytes=32 time<1ms TTL=253
Reply from 192.168.2.254: bytes=32 time<1ms TTL=253
Ping statistics for 192.168.2.254:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms
C:\>
Top
```

TESTS COMMUNICATION SERVEUR WEB - DMZ

Accès au site Web de NOVATIS ?
Ping possible ?
Quel chemin emprunté ?

PC IT – SITE PARIS

SRV-WEB – 172.16.18.1
Site Web NOVATIS



```
C:\>tracert 192.168.2.254

Tracing route to 192.168.2.254 over a maximum of 30 hops:

  1  0 ms  0 ms  5 ms  192.168.10.62
  2  0 ms  0 ms  0 ms  192.168.10.29
  3  0 ms  0 ms  0 ms  192.168.2.254

Trace complete.

C:\>
C:\>
C:\>
C:\>
C:\>ping 172.16.18.1

Pinging 172.16.18.1 with 32 bytes of data:

Reply from 172.16.18.1: bytes=32 time<1ms TTL=126
Reply from 172.16.18.1: bytes=32 time<1ms TTL=126
Reply from 172.16.18.1: bytes=32 time<1ms TTL=126
Reply from 172.16.18.1: bytes=32 time<1ms TTL=126

Ping statistics for 172.16.18.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>tracert 172.16.18.1

Tracing route to 172.16.18.1 over a maximum of 30 hops:

  1  0 ms  0 ms  0 ms  192.168.10.62
  2  0 ms  0 ms  0 ms  192.168.10.29
  3  0 ms  0 ms  0 ms  172.16.18.1

Trace complete.

C:\>
```

Web Browser

URL http://172.16.18.1

L'entreprise NOVATIS Industries est une société spécialisée dans le secteur industriel et technologique, implantée sur l'ensemble du territoire français. Forte d'une présence nationale stratégique, elle dispose de cinq sites géographiquement dispersés, chacun jouant un rôle clé dans le fonctionnement global de l'organisation.

PC Chef de Production – SITE LILLE

SRV-WEB – 172.16.18.1
Site Web



```
C:\>tracert 192.168.2.254

Tracing route to 192.168.2.254 over a maximum of 30 hops:

  1  0 ms  0 ms  0 ms  192.168.10.94
  2  0 ms  0 ms  0 ms  192.168.10.29
  3  0 ms  0 ms  0 ms  192.168.2.254

Trace complete.

C:\>
C:\>
C:\>
C:\>
C:\>ping 172.16.18.1

Pinging 172.16.18.1 with 32 bytes of data:

Reply from 172.16.18.1: bytes=32 time<1ms TTL=126
Reply from 172.16.18.1: bytes=32 time<1ms TTL=126
Reply from 172.16.18.1: bytes=32 time<1ms TTL=126
Reply from 172.16.18.1: bytes=32 time<1ms TTL=126

Ping statistics for 172.16.18.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

Web Browser

URL http://172.16.18.1

L'entreprise NOVATIS Industries est une société spécialisée dans le secteur industriel et technologique, implantée sur l'ensemble du territoire français. Forte d'une présence nationale stratégique, elle dispose de cinq sites géographiquement dispersés, chacun jouant un rôle clé dans le fonctionnement global de l'organisation.



```
Physical Config Desktop Programming Attributes
Command Prompt
Tracing route to 192.168.2.254 over a maximum of 30 hops:
  0  0 ms    0 ms    0 ms    192.168.10.126
  1  0 ms    0 ms    0 ms    192.168.10.29
  2  0 ms    1 ms    0 ms    192.168.2.254
Trace complete.
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>ping 172.16.18.1
Pinging 172.16.18.1 with 32 bytes of data:
Reply from 172.16.18.1: bytes=32 time=1ms TTL=126
Reply from 172.16.18.1: bytes=32 time=1ms TTL=126
Reply from 172.16.18.1: bytes=32 time=1ms TTL=126
Ping statistics for 172.16.18.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>tracert 172.16.18.1
Tracing route to 172.16.18.1 over a maximum of 30 hops:
  0  0 ms    0 ms    0 ms    192.168.10.126
  1  0 ms    0 ms    0 ms    192.168.10.29
  2  0 ms    0 ms    0 ms    172.16.18.1
Trace complete.
C:\>
```

Physical Config Desktop Programming Attributes

Web Browser

URL http://172.16.18.1

L'entreprise NOVATIS Industries est une société spécialisée dans le secteur industriel et technologique, implantée sur l'ensemble du territoire français. Forte d'une présence nationale stratégique, elle dispose de cinq sites géographiquement dispersés, chacun jouant un rôle clé dans le fonctionnement global de l'organisation.



```
Physical Config Desktop Programming Attributes
Command Prompt
Tracing route to 192.168.2.254 over a maximum of 30 hops:
  0  0 ms    0 ms    0 ms    192.168.10.158
  1  0 ms    0 ms    0 ms    192.168.10.29
  2  0 ms    0 ms    0 ms    192.168.2.254
Trace complete.
C:\>
C:\>
C:\>
C:\>
C:\>ping 172.16.18.1
Pinging 172.16.18.1 with 32 bytes of data:
Reply from 172.16.18.1: bytes=32 time=1ms TTL=126
Reply from 172.16.18.1: bytes=32 time=1ms TTL=126
Reply from 172.16.18.1: bytes=32 time=1ms TTL=126
Ping statistics for 172.16.18.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms
C:\>tracert 172.16.18.1
Tracing route to 172.16.18.1 over a maximum of 30 hops:
  0  0 ms    0 ms    0 ms    192.168.10.158
  1  0 ms    0 ms    0 ms    192.168.10.29
  2  8 ms    0 ms    0 ms    172.16.18.1
Trace complete.
C:\>
```

Physical Config Desktop Programming Attributes

Web Browser

URL http://172.16.18.1

L'entreprise NOVATIS Industries est une société spécialisée dans le secteur industriel et technologique, implantée sur l'ensemble du territoire français. Forte d'une présence nationale stratégique, elle dispose de cinq sites géographiquement dispersés, chacun jouant un rôle clé dans le fonctionnement global de l'organisation.



PC-Superviseur

Physical Config Desktop Programming Attributes

Command Prompt

Reply from 192.168.2.254: bytes=32 time<1ms TTL=253
Reply from 192.168.2.254: bytes=32 time<1ms TTL=253
Reply from 192.168.2.254: bytes=32 time<1ms TTL=253
Reply from 192.168.2.254: bytes=32 time<1ms TTL=253

Ping statistics for 192.168.2.254:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>
C:\>
C:\>
C:\>
C:\>ping 172.16.18.1

Pinging 172.16.18.1 with 32 bytes of data:

Reply from 172.16.18.1: bytes=32 time<1ms TTL=126
Reply from 172.16.18.1: bytes=32 time<1ms TTL=126
Reply from 172.16.18.1: bytes=32 time<1ms TTL=126
Reply from 172.16.18.1: bytes=32 time<1ms TTL=126

Ping statistics for 172.16.18.1:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>tracert 172.16.18.1

Tracing route to 172.16.18.1 over a maximum of 30 hops:

 1 0 ms 0 ms 0 ms 192.168.10.180
 2 0 ms 0 ms 0 ms 192.168.10.29
 3 0 ms 0 ms 0 ms 172.16.18.1

Trace complete.

C:\>

Top

PC-Superviseur

Physical Config Desktop Programming Attributes

Web Browser

< > URL http://172.16.18.1/ Go Stop



L'entreprise NOVATIS Industries est une société spécialisée dans le secteur industriel et technologique, implantée sur l'ensemble du territoire français. Forte d'une présence nationale stratégique, elle dispose de cinq sites géographiquement dispersés, chacun jouant un rôle clé dans le fonctionnement global de l'organisation.

Top

TESTS COMMUNICATION – APPLICATION DES ACLS

Travail 1 : Tous les sites doivent pouvoir sortir vers Internet, sauf le site de maintenance du Havre (192.168.10.96 /27).

PC IT – SITE PARIS

VIP HSRP – 192.168.2.254



```
PC-IT
Physical Config Desktop Programming Attributes
Command Prompt
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.2.254

Pinging 192.168.2.254 with 32 bytes of data:

Reply from 192.168.2.254: bytes=32 time<1ms TTL=253
Reply from 192.168.2.254: bytes=32 time<1ms TTL=253
Reply from 192.168.2.254: bytes=32 time<1ms TTL=253
Reply from 192.168.2.254: bytes=32 time<1ms TTL=253

Ping statistics for 192.168.2.254:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

PC Chef de Production – SITE LILLE

VIP HSRP – 192.168.2.254



```
PC-Chef de Production
Physical Config Desktop Programming Attributes
Command Prompt
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.2.254

Pinging 192.168.2.254 with 32 bytes of data:

Reply from 192.168.2.254: bytes=32 time<1ms TTL=253
Reply from 192.168.2.254: bytes=32 time<1ms TTL=253
Reply from 192.168.2.254: bytes=32 time<1ms TTL=253
Reply from 192.168.2.254: bytes=32 time<1ms TTL=253

Ping statistics for 192.168.2.254:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```



The screenshot shows a window titled "PC-Chef de la Maintenance" with tabs for Physical, Config, Desktop, Programming, and Attributes. The "Config" tab is active, displaying a "Command Prompt" window. The Command Prompt shows the output of a ping command to 192.168.2.254, indicating that the destination host is unreachable.

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.2.254

Pinging 192.168.2.254 with 32 bytes of data:

Reply from 192.168.10.29: Destination host unreachable.
Reply from 192.168.10.29: Destination host unreachable.
Reply from 192.168.10.29: Destination host unreachable.
Reply from 192.168.10.29: Destination host unreachable.

Ping statistics for 192.168.2.254:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\>
```

Le service maintenance se retrouve avec une destination inaccessible. L'ACL est appliqué.



PC-Manager

Physical Config Desktop Programming Attributes

Command Prompt

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.2.254

Pinging 192.168.2.254 with 32 bytes of data:

Reply from 192.168.2.254: bytes=32 time<1ms TTL=253
Reply from 192.168.2.254: bytes=32 time<1ms TTL=253
Reply from 192.168.2.254: bytes=32 time<1ms TTL=253
Reply from 192.168.2.254: bytes=32 time<1ms TTL=253

Ping statistics for 192.168.2.254:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

Top



PC-Superviseur

Physical Config Desktop Programming Attributes

Command Prompt

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.2.254

Pinging 192.168.2.254 with 32 bytes of data:

Reply from 192.168.2.254: bytes=32 time<1ms TTL=253
Reply from 192.168.2.254: bytes=32 time=5ms TTL=253
Reply from 192.168.2.254: bytes=32 time<1ms TTL=253
Reply from 192.168.2.254: bytes=32 time<1ms TTL=253

Ping statistics for 192.168.2.254:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 5ms, Average = 1ms

C:\>
```

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Travail 2 : Le serveur Web de la DMZ (172.16.18.0 /24) doit être consultable seulement en HTTP par tous les postes internes. Aucun autre service de ce serveur ne doit leur être accessible.

PC IT – SITE PARIS

Accès site en HTTP
Refus du HTTPS
Test Ping sans réponse



Poste du PDG

Physical Config Desktop Programming Attributes

Command Prompt

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 172.16.18.1

Pinging 172.16.18.1 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 172.16.18.1:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\>|
```

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Poste du PDG

Physical Config Desktop Programming Attributes

Web Browser

< > URL http://172.16.18.1| Go Stop



L'entreprise NOVATIS Industries est une société spécialisée dans le secteur industriel et technologique, implantée sur l'ensemble du territoire français. Forte d'une présence nationale stratégique, elle dispose de cinq sites géographiquement dispersés, chacun jouant un rôle clé dans le fonctionnement global de l'organisation.

Top

Poste du PDG

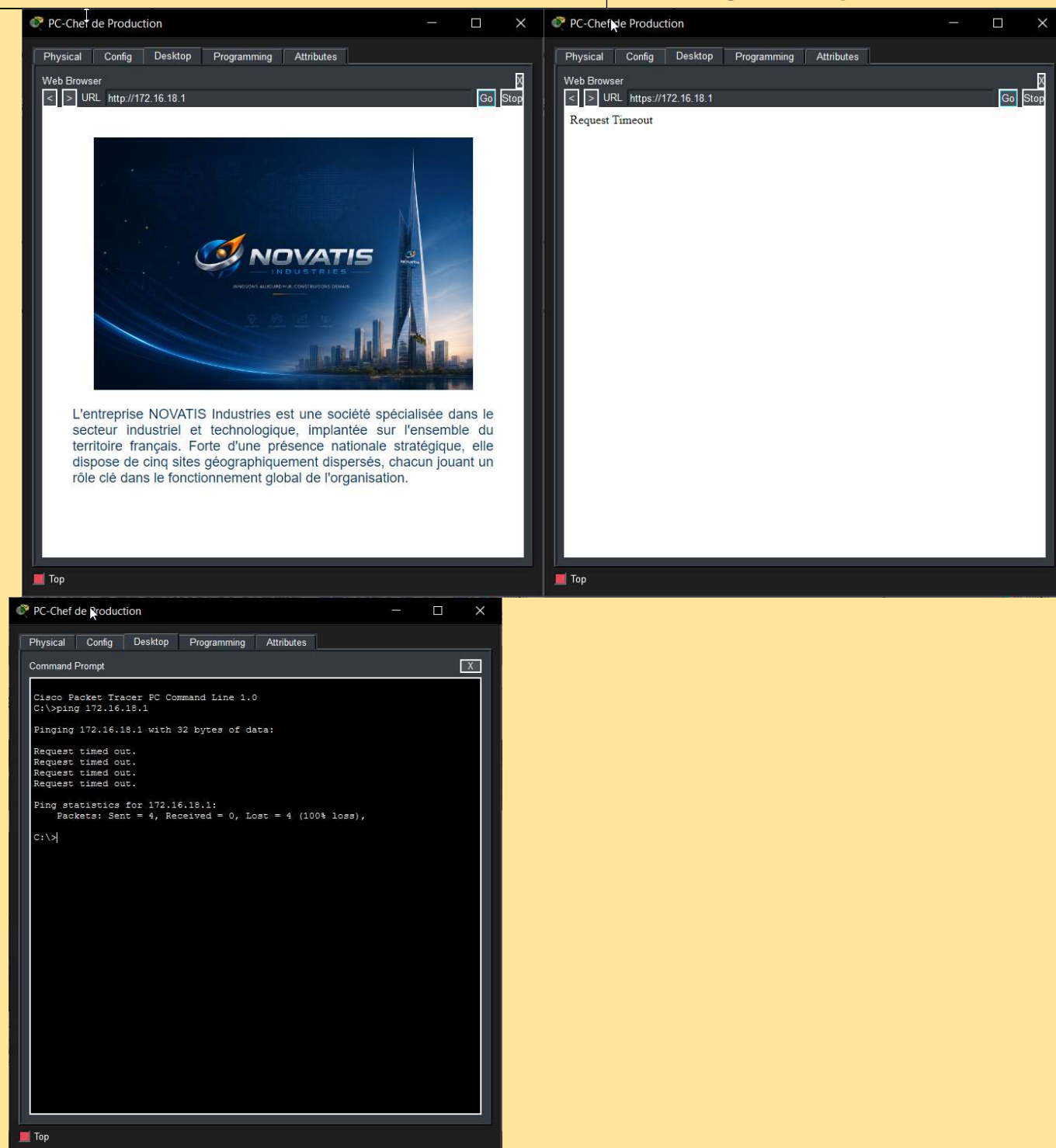
Physical Config Desktop Programming Attributes

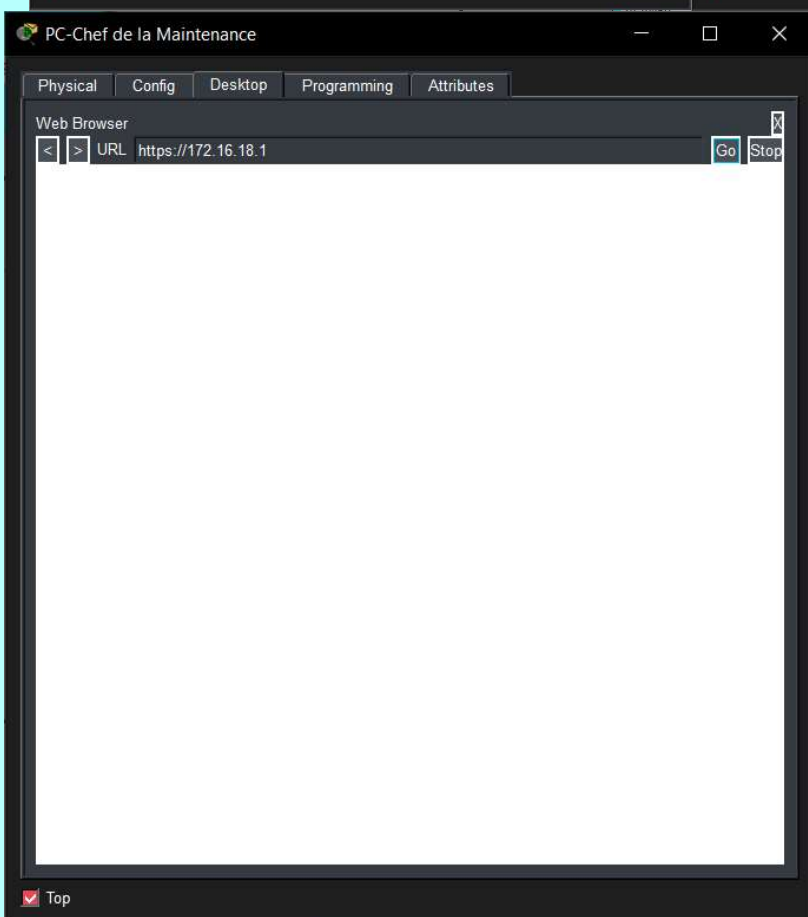
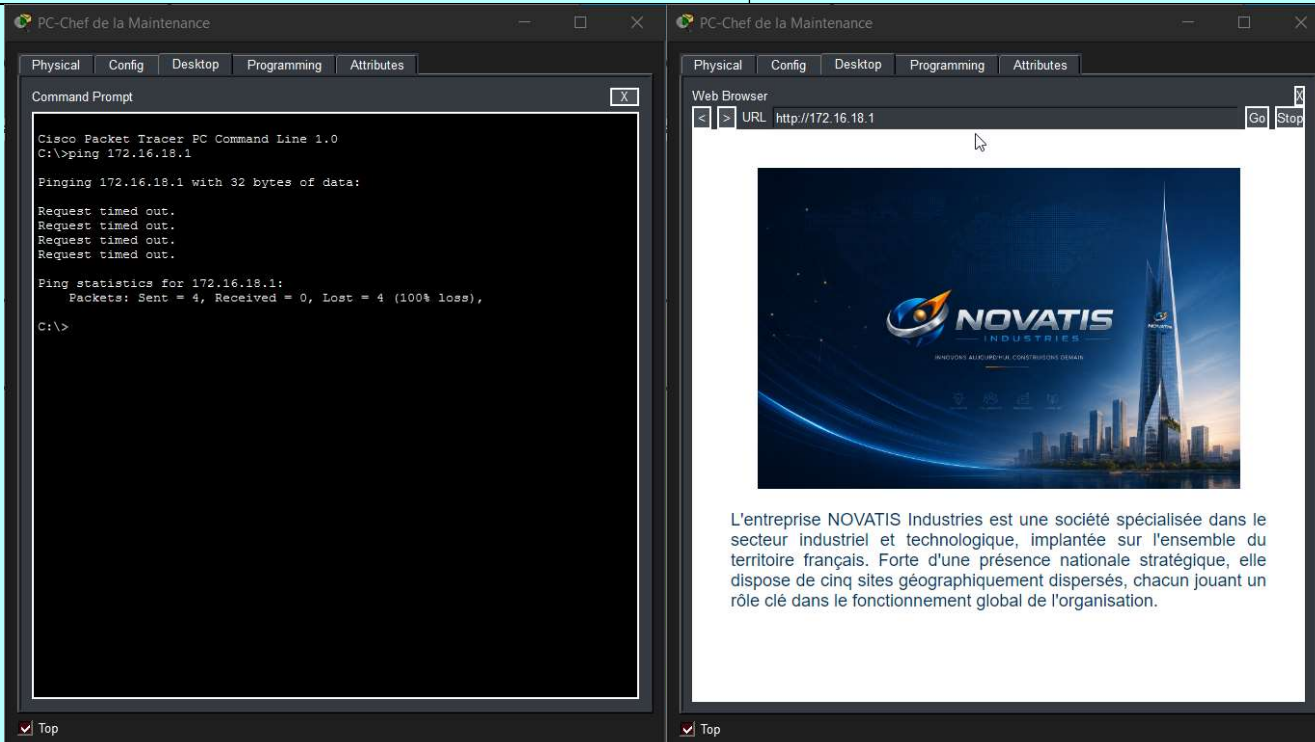
Web Browser

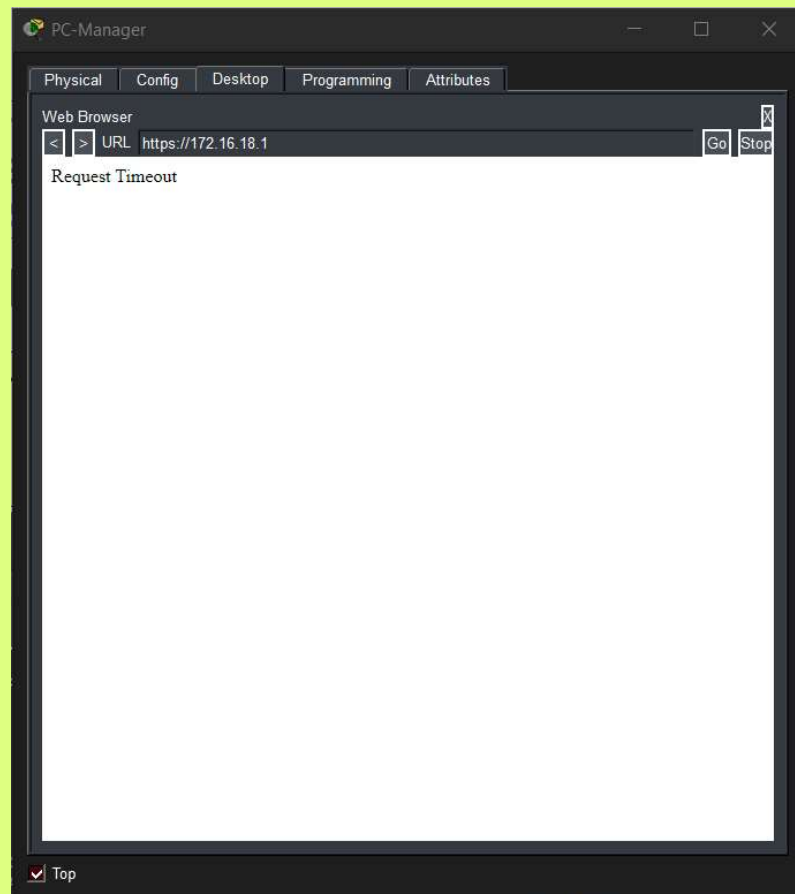
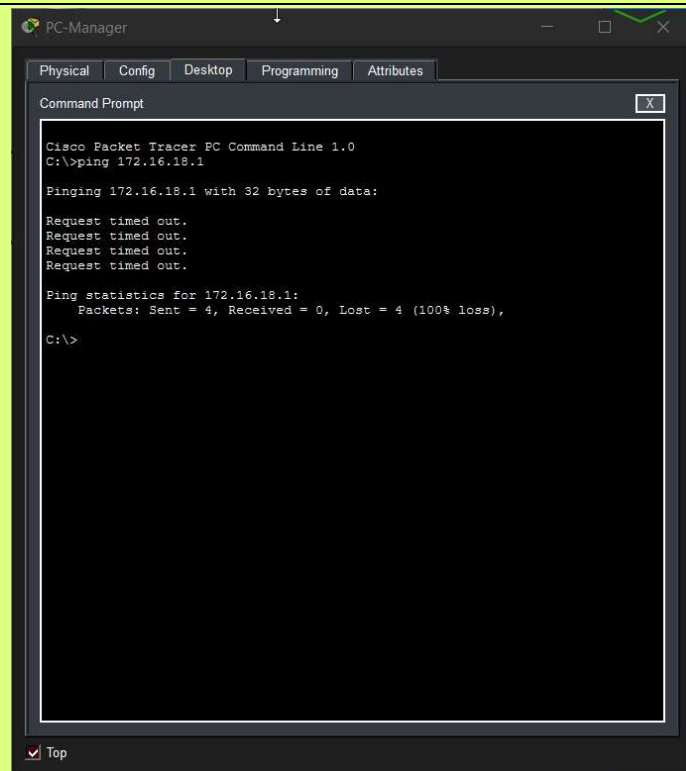
< > URL https://172.16.18.1| Go Stop

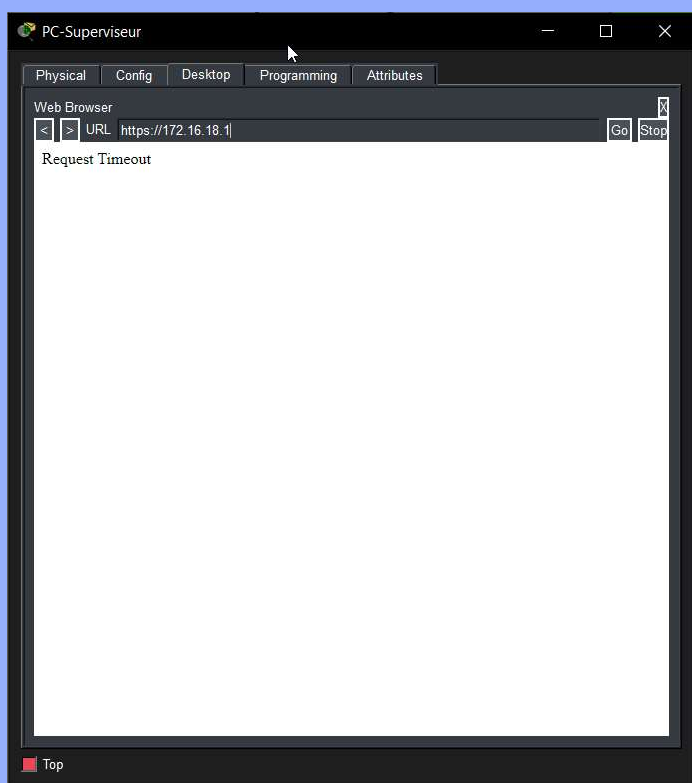
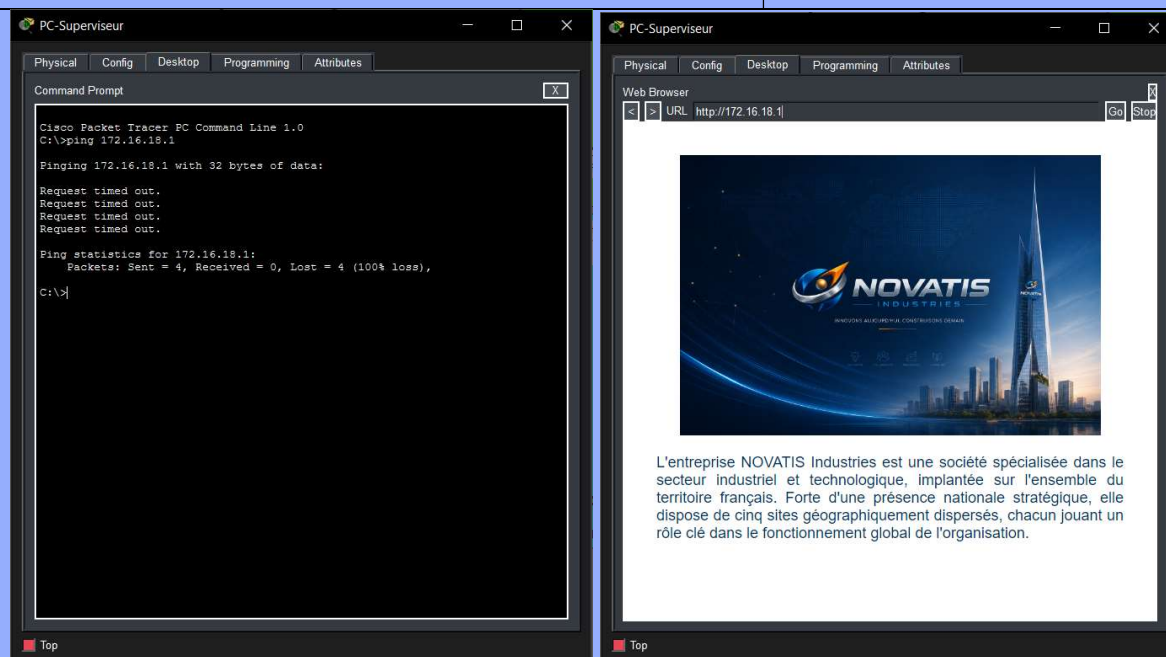
Request Timeout

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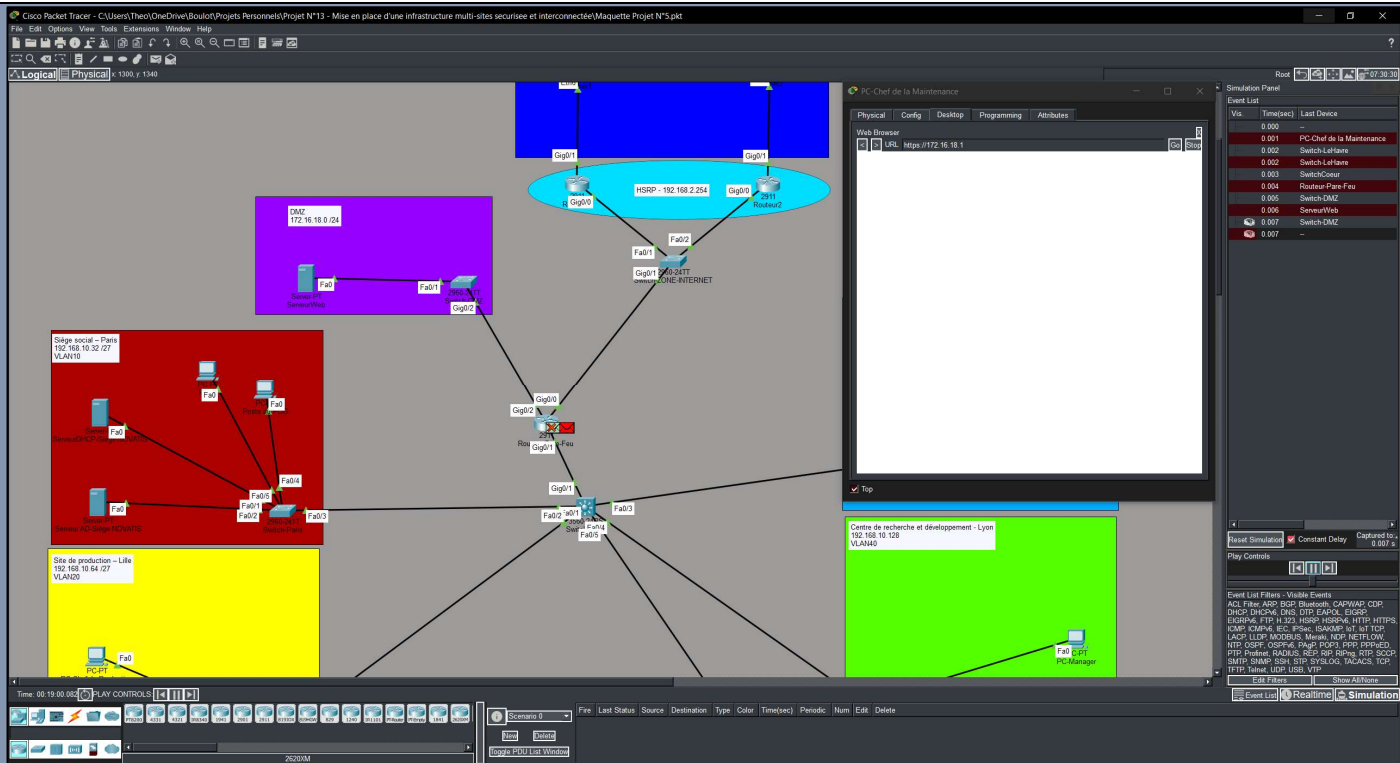






Mode simulation :

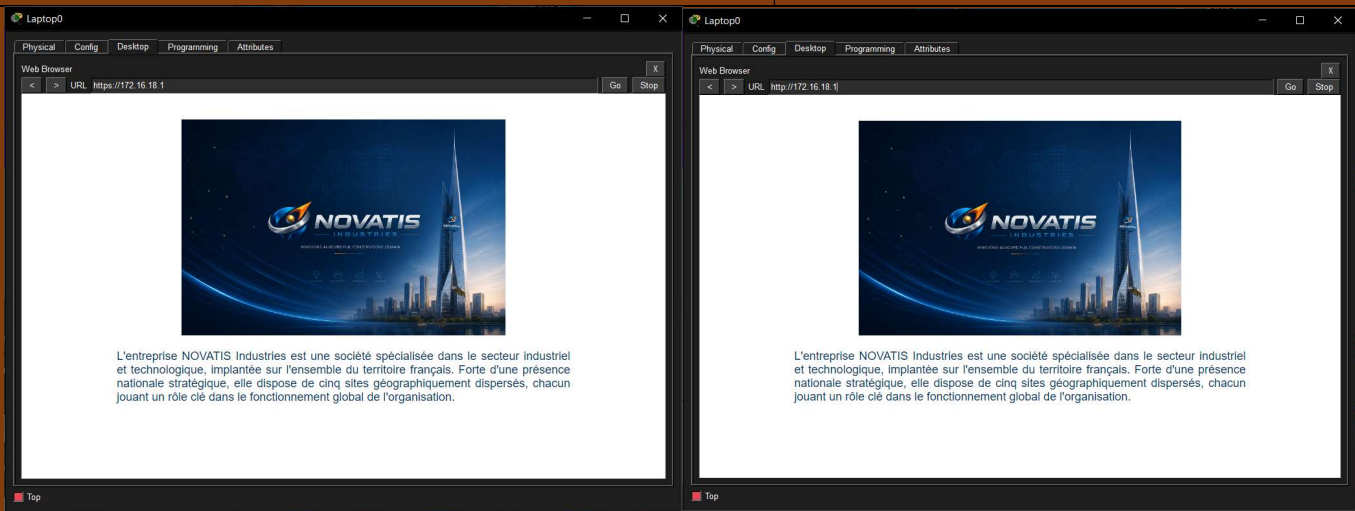
Le paquet est envoyé depuis le poste jusqu'au Switch Cœur. Le Switch Cœur transmet le paquet au moyen de sa route par défaut au Routeur-PareFeu. Ensuite le Routeur-PareFeu lui envoie le paquet au ServeurWeb, le serveur Web lui répond. La réponse est envoyée au RouteurPareFeu. L'ACL pour les paquets entrant venant de la source (SRV-WEB) s'applique aux paquets et les rejette et retourne vers le Serveur. Donc le client ne reçoit jamais la réponse.



Travail 3 : Le serveur Web de la DMZ doit être joignable depuis Internet, mais uniquement en HTTP et HTTPS.

PC CLIENT – RESEAU DOMESTIQUE

SRV-WEB - DMZ



Accès au site en HTTP/HTTPS.

Laptop0

Physical Config Desktop Programming Attributes

Command Prompt

```
Pinging 192.168.2.253 with 32 bytes of data:
Reply from 192.168.2.253: bytes=32 time=16ms TTL=254
Reply from 192.168.2.253: bytes=32 time=9ms TTL=254
Reply from 192.168.2.253: bytes=32 time=10ms TTL=254
Reply from 192.168.2.253: bytes=32 time=9ms TTL=254

Ping statistics for 192.168.2.253:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 9ms, Maximum = 16ms, Average = 11ms

C:\>ping 192.168.2.253

Pinging 192.168.2.253 with 32 bytes of data:
Reply from 192.168.2.253: bytes=32 time=22ms TTL=254
Reply from 192.168.2.253: bytes=32 time=11ms TTL=254
Reply from 192.168.2.253: bytes=32 time=15ms TTL=254
Reply from 192.168.2.253: bytes=32 time=13ms TTL=254

Ping statistics for 192.168.2.253:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 11ms, Maximum = 22ms, Average = 15ms

C:\>ping 172.16.18.1

Pinging 172.16.18.1 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 172.16.18.1:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>
```

Top

Travail 5 : Seul le PC-IT du siège de Paris doit pouvoir ouvrir une session d'administration avec le protocole SSH à distance sur le routeur pare-feu lui-même. Toute autre machine, interne comme externe, est refusée.

PC IT – SITE PARIS

SSH admin 192.168.10.29



PC-IT

Physical Config Desktop Programming Attributes

Command Prompt

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

FastEthernet0 Connection: (default port)

    Connection-specific DNS Suffix...:
    Link-local IPv6 Address . . . . .: FE80::290:21FF:FE2D:B616
    IPv6 Address . . . . .: ::
    IPv4 Address . . . . .: 192.168.10.36
    Subnet Mask . . . . .: 255.255.255.224
    Default Gateway . . . . .: ::
                                192.168.10.62

Bluetooth Connection:

    Connection-specific DNS Suffix...:
    Link-local IPv6 Address . . . . .: ::
    IPv6 Address . . . . .: ::
    IPv4 Address . . . . .: 0.0.0.0
    Subnet Mask . . . . .: 0.0.0.0
    Default Gateway . . . . .: ::
                                0.0.0.0

C:\>ssh -l admin 192.168.10.29

Password:
% Login invalid

Password:

RouteurPareFeu>
```

Top



```
PC-PDG
Physical Config Desktop Programming Attributes
Command Prompt
Cisco Packet Tracer PC Command Line 1.0
C:\>ipconfig

FastEthernet0 Connection: (default port)

    Connection-specific DNS Suffix...:
    Link-local IPv6 Address...: FE80::230:F2FF:FE6C:2572
    IPv6 Address...: ::
    IPv4 Address...: 192.168.10.35
    Subnet Mask...: 255.255.255.224
    Default Gateway...: ::
                        192.168.10.62

Bluetooth Connection:

    Connection-specific DNS Suffix...:
    Link-local IPv6 Address...: ::
    IPv6 Address...: ::
    IPv4 Address...: 0.0.0.0
    Subnet Mask...: 0.0.0.0
    Default Gateway...: ::
                        0.0.0.0

C:\>ssh -l admin 192.168.10.29

% Connection refused by remote host
C:\>
```

Validation complète le filtrage par adresse source marche parfaitement même avec un poste avec un hôte dans le même sous réseau.



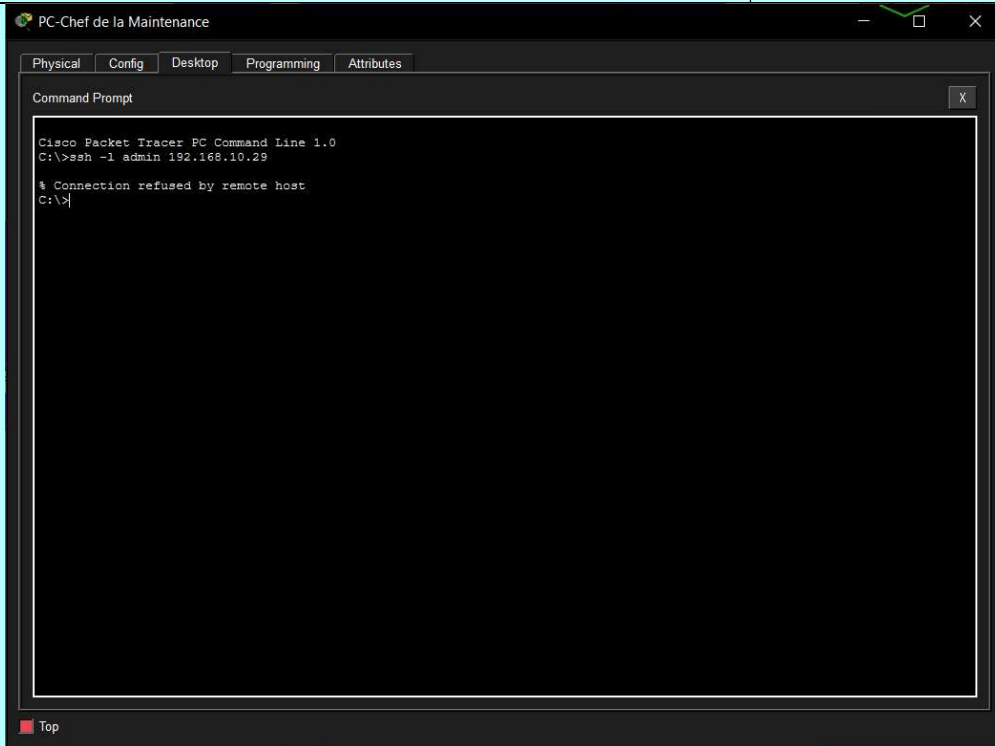
```
PC-Chef de Production
Physical Config Desktop Programming Attributes
Command Prompt
Cisco Packet Tracer PC Command Line 1.0
C:\>ssh -l admin 192.168.10.29

% Connection refused by remote host
C:\>
```

Accès refusé !

PC Chef de Maintenance – SITE HAVRE

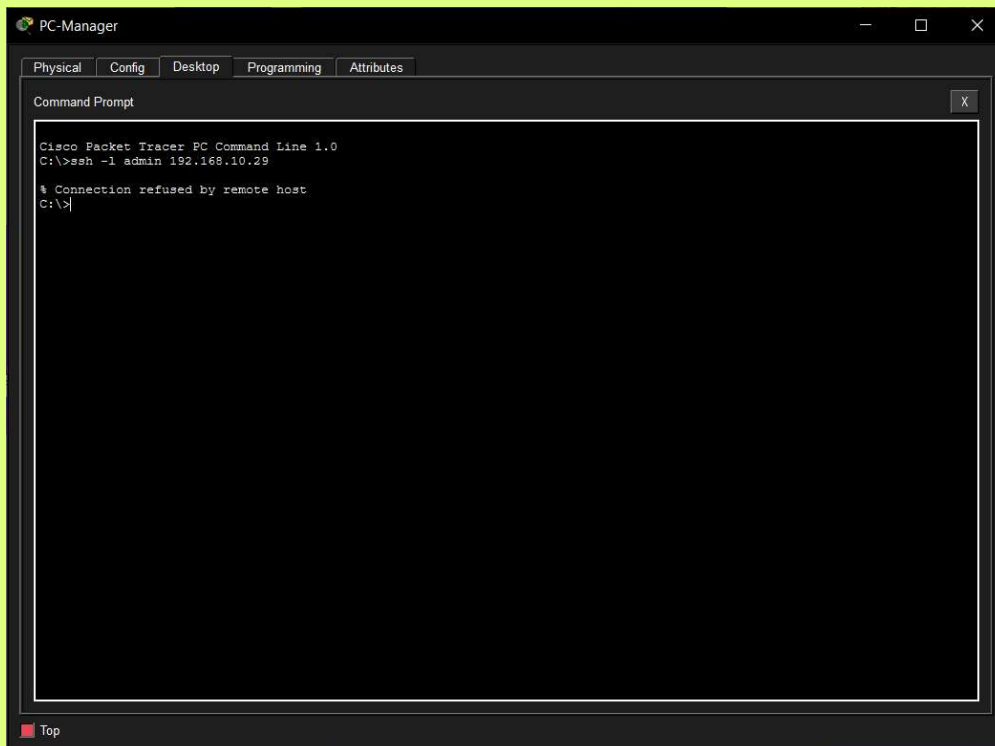
SSH admin 192.168.10.29



Accès refusé !

PC Manager – SITE HAVRE

SSH admin 192.168.10.29

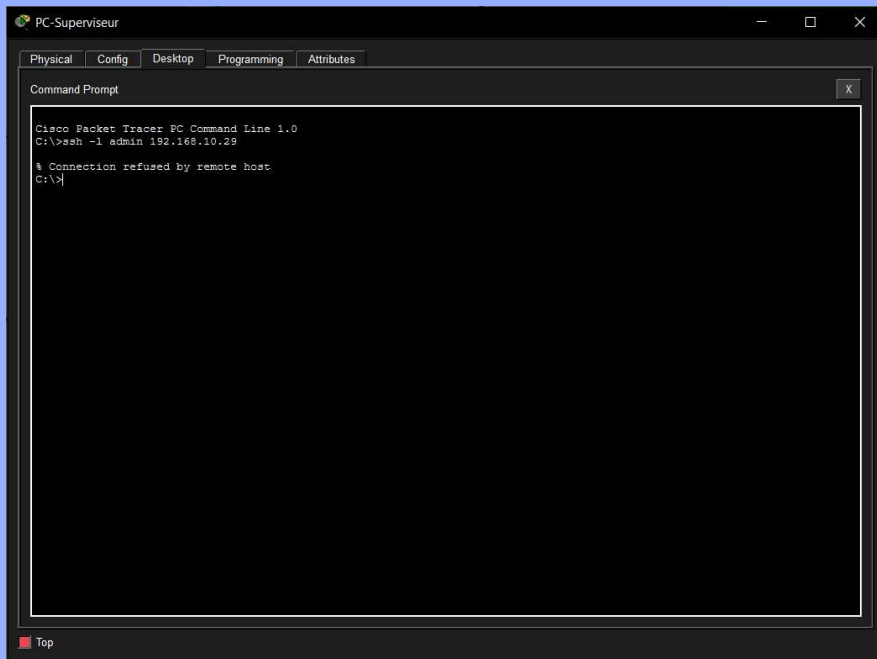


Accès refusé !



PROJET PERSONNEL – Théo BRETON

RAPPORT DE TESTS : **PROJET N°11 : MISE EN PLACE D'UNE INFRASTRUCTURE RESEAU MULTI-SITES SECURISEE ET INTERCONNECTEE**



```
PC-Superviseur
Physical Config Desktop Programming Attributes
Command Prompt
Cisco Packet Tracer PC Command Line 1.0
C:\>ssh -l admin 192.168.10.29
% Connection refused by remote host.
C:\>
```

Accès refusé !