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Prenoms:Mohamed El Anewar Abiodoun Attanda

Travaux pratique N°2 configurations du service DNS sur un petit réseau

1- Définition de l'adresse IP 192.168.1.0/26

Cet IP étant une adresse de type c il faut donc déterminer le masque sous réseaux pour connaitre

L'adresse de diffusion.

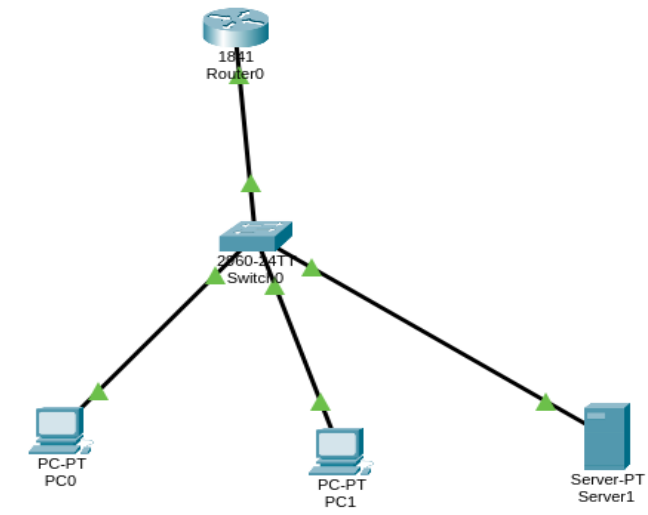
Le masque de sous réseaux est 255.255.255.192

L'adresse de diffusion est :192.168.1.63

Par conséquent la plage d'adresse pour le sous réseau est de 192.168.1.1 à 192.168.1.62

	Interface	Adresse IP	Masque	Passerelle
R1	F0/1	192.168.1.62	255.255.255.192	N/A
PC0	Carte	192.168.1.1	255.255.255.192	192.168.1.1
PC1	Carte	192.168.1.2	255.255.255.192	192.168.1.2
Serveur DNS	Carte	192.168.1.3	255.255.255.192	192.168.1.3

Topologie

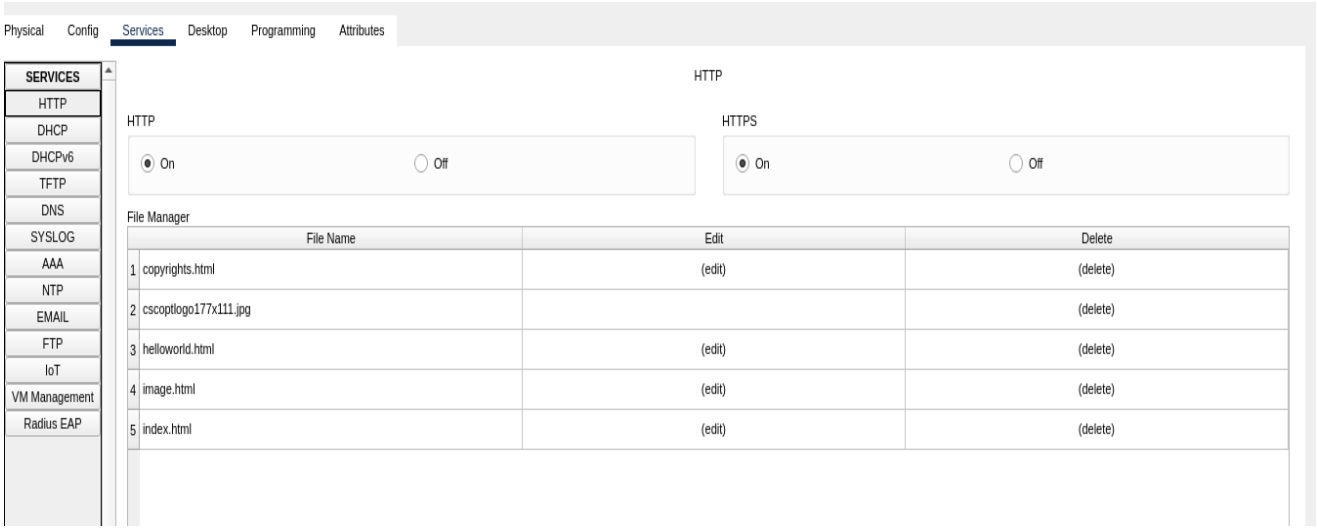


Etape 1 : Configuration de l’interface

IOS Command Line Interface

```
Cisco 1841 (revision 5.0) with 114688K/16384K bytes of memory.
Processor board ID FTX0947Z18E
M860 processor: part number 0, mask 49
2 FastEthernet/IEEE 802.3 interface(s)
191K bytes of NVRAM.
63488K bytes of ATA CompactFlash (Read/Write)
Cisco IOS Software, 1841 Software (C1841-ADVIPSERVICESK9-M), Version 12.4(15)T1, RELEASE SOFTWARE (fc2)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2007 by Cisco Systems, Inc.
Compiled Wed 18-Jul-07 04:52 by pt_team


         --- System Configuration Dialog ---

Would you like to enter the initial configuration dialog? [yes/no]:

Press RETURN to get started!



Router>enable
Router#configure terminale
                      ^
% Invalid input detected at '^' marker.

Router#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#interface fastEthernet0/0
Router(config-if)#ip address 192.168.1.62
% Incomplete command.
Router(config-if)#ip address 192.168.1.62 255.255.255.192
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
```

Etape 2 : Activation du protocole http



2. Explication du rôle du protocole http

HTTP est un protocole qui **permet de récupérer des ressources telles que des documents HTML**. Il est à la base de tout échange de données sur le Web. C'est un protocole de type client-serveur, ce qui signifie que les requêtes sont initiées par le destinataire (qui est généralement un navigateur web).

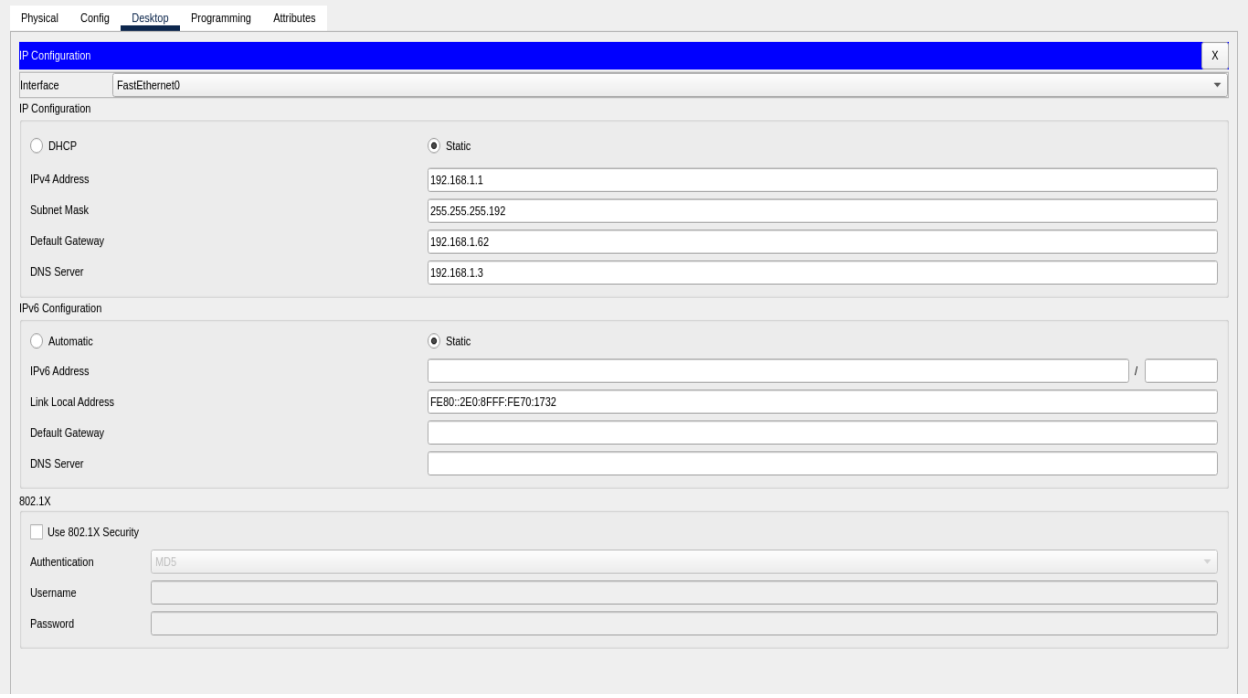
Etape 3 Configuration du service DNS

2 Explication du rôle du service DNS

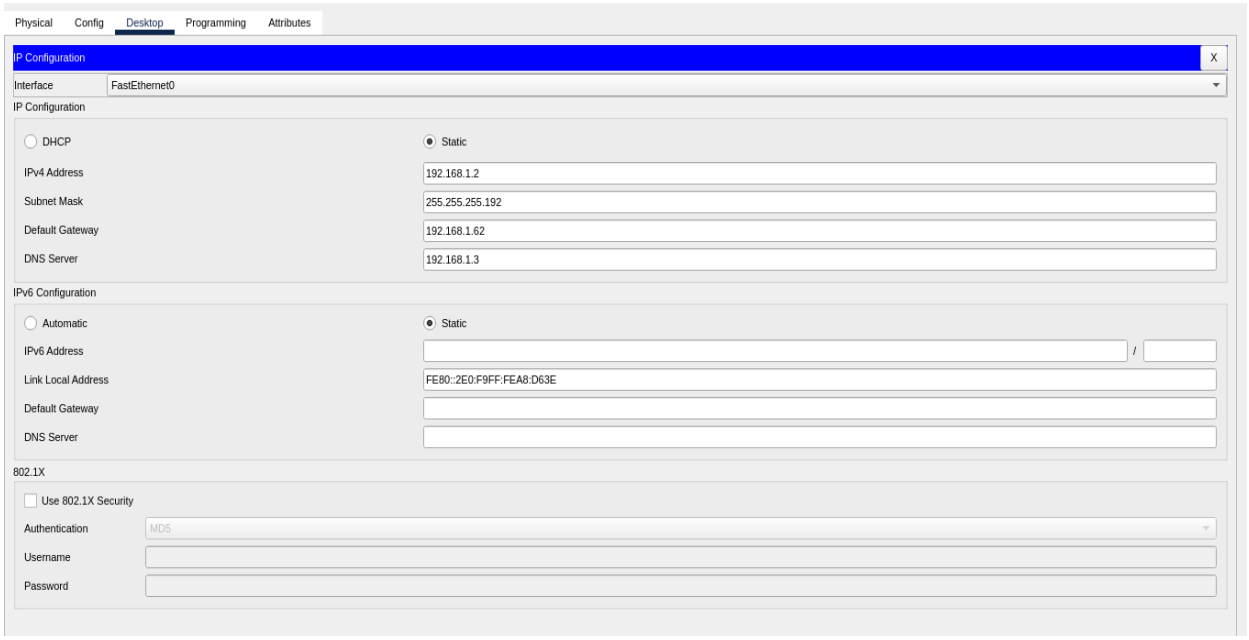
Les serveurs **DNS** traduisent des demandes de noms en adresses IP, en contrôlant à **quel** serveur un utilisateur final va se connecter quand il tapera un nom de domaine dans son navigateur.

Etape 4 configuration des PC

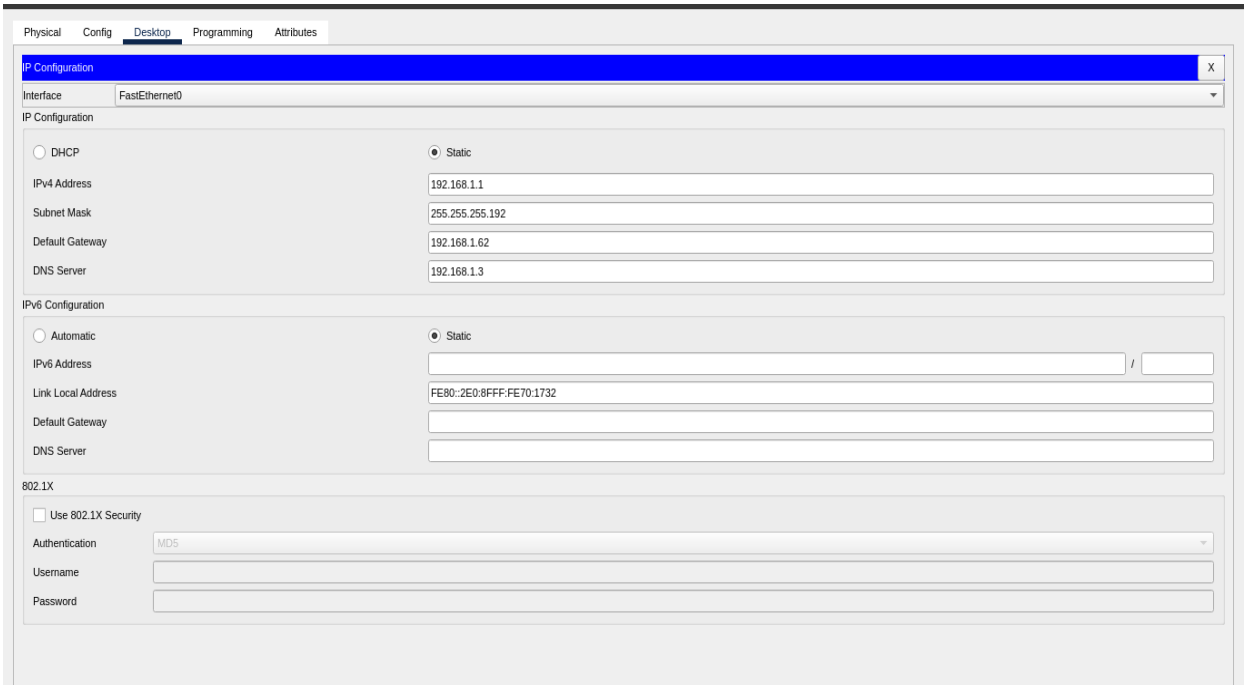
PC 0



PC 1

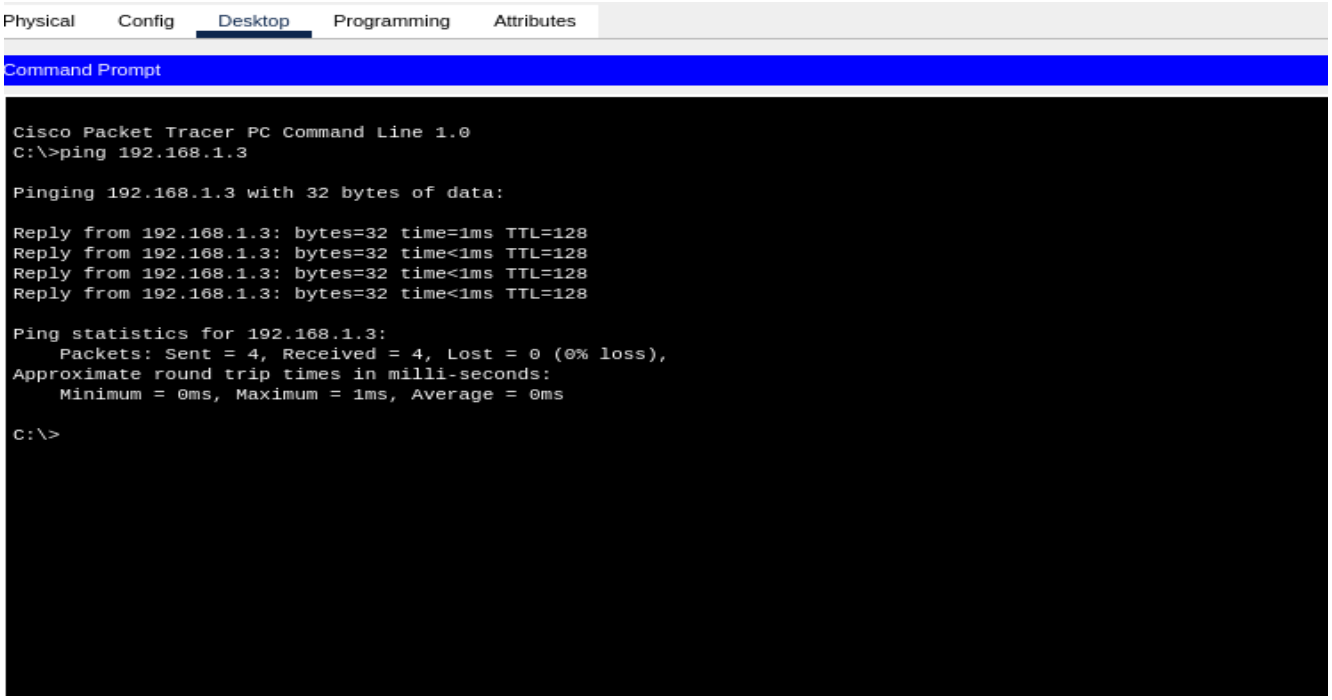

Physical
Config
Desktop
Programming
Attributes
IP Configuration
X
Interface
FastEthernet0
IP Configuration
DHCP
Static
IPv4 Address
192.168.1.2
Subnet Mask
255.255.255.192
Default Gateway
192.168.1.62
DNS Server
192.168.1.3
IPv6 Configuration
Automatic
Static
IPv6 Address
/
Link Local Address
FE80::2E0:F9FF:FEA8:D63E
Default Gateway
DNS Server
802.1X
Use 802.1X Security
Authentication
MD5
Username
Password

Etape 5 configuration du serveur

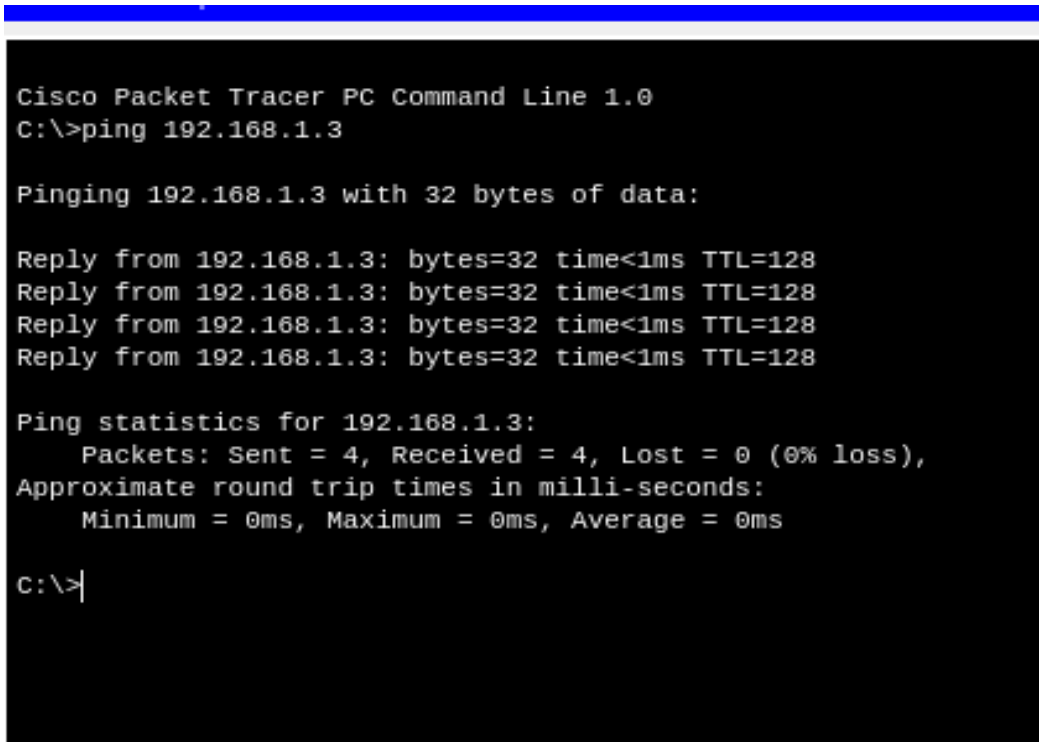


Etape 6: Test de connectivité et Service

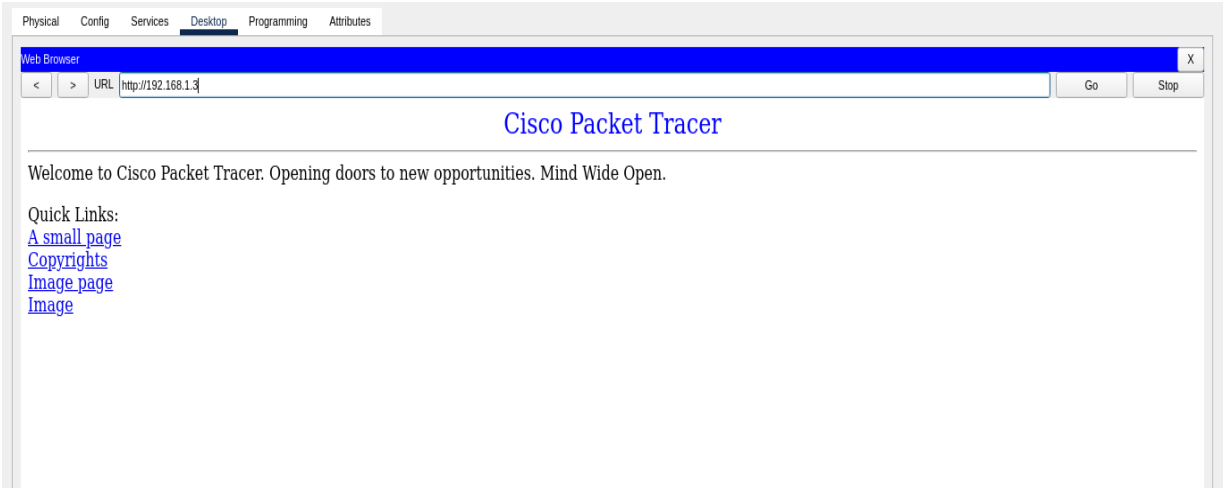
PC0

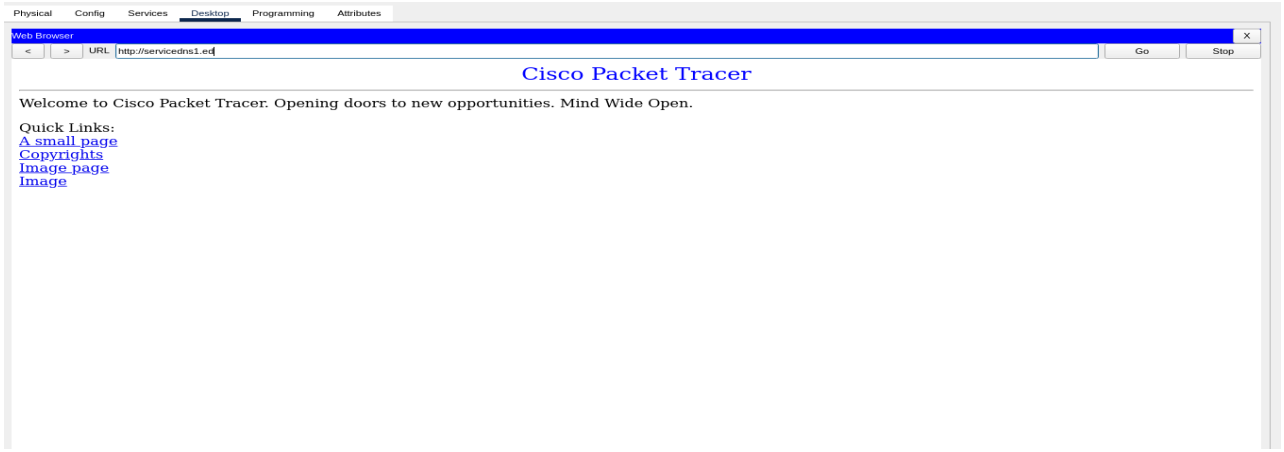

Physical
Config
Desktop
Programming
Attributes
Command Prompt
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.3
Pinging 192.168.1.3 with 32 bytes of data:
Reply from 192.168.1.3: bytes=32 time=1ms TTL=128
Reply from 192.168.1.3: bytes=32 time<1ms TTL=128
Reply from 192.168.1.3: bytes=32 time<1ms TTL=128
Reply from 192.168.1.3: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.1.3:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 1ms, Average = 0ms
C:\>

PC1


Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.3
Pinging 192.168.1.3 with 32 bytes of data:
Reply from 192.168.1.3: bytes=32 time<1ms TTL=128
Reply from 192.168.1.3: bytes=32 time<1ms TTL=128
Reply from 192.168.1.3: bytes=32 time<1ms TTL=128
Reply from 192.168.1.3: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.1.3:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>

TEST DE FONCTIONNEMENT DU DNS





Explication : En utilisant l'adresse ip du server DNS ou son nom de domaine dans les navigateurs du PC, on se rend compte que les deux renvoient la même chose

Partie 2 Wireshark