## On verifie la version

```
root@angel:/home/tukur# cat /etc/debian_version
10.3
root@angel:/home/tukur#
```

## On verifie linterface

```
root@angel:/home/tukur# systemctl get-default
graphical.target
root@angel:/home/tukur#
```

## On change le nom de la machine puis on redemarre

root@angel:/home/tukur# nano /etc/hostname

# On ajoute l'adresse est le la masque du inet loopback en suit on ajoute auto enp0s3 0 eth0 cela dépend de notre machine

root@angel:/home/tukur# nano /etc/network/interfaces

```
# This file describes the network interfaces available on your system
# and how to activate them. For more information, see interfaces(5).

source /etc/network/interfaces.d/*

# The loopback network interface
auto lo
iface lo inet loopback
adsress 127.0.0.1
netmask 255.0.0.0

auto enp0s3
iface enp0s3 inet static
address 172.16.20.12
netmask 255.255.255.0
```

On redemarre le le reseau ensuite on lactive

```
root@angel:/home/tukur# systemctl restart networking
root@angel:/home/tukur# systemctl enable networking
Synchronizing state of networking.service with SysV service script with /lib/sys
temd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable networking
root@angel:/home/tukur#
```

### on actualise le sisteme

```
root@angel:/home/tukur# sudo apt-get update
```

# on telecharge le DHCP car cest un service qui ne vient pas par default

root@angel:/home/tukur# sudo apt-get install isc-dhcp-server

## On verifie le telechargement

# Maintenat on doit se deplacer dans ce fichier por mettre notre adresse notre mask ainsi que le beau...

root@angel:/home/tukur# nano /etc/dhcp/dhcpd.conf

## On se deplace jusqua la lignne 50 et on suprime les dieses

```
# A slightly different configuration for an internal subnet.
subnet 172.16.20.0 netmask 255.255.255.0 {
  range 172.16.20.20 172.16.20.50;
  option domain-name-servers 172.16.20.12;
  option domain-name "telecom.net";
  option routers 172.16.20.254;
  default-lease-time 86400;
  max-lease-time 172800;
}
```

## Désactivations du pare-feu

```
root@angel:/home/tukur# sudo iptables -F
root@angel:/home/tukur# |
```

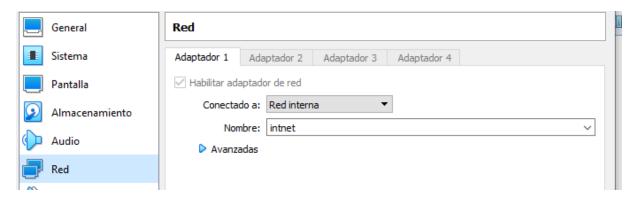
# Redémarrage et activation du service

root@angel:/home/tukur# systemctl restart isc-dhcp-server.service
Job for isc-dhcp-server.service failed because the control process exited with e
rror code.
See "systemctl status isc-dhcp-server.service" and "journalctl -xe" for details.
root@angel:/home/tukur# systemctl enable isc-dhcp-server.service
isc-dhcp-server.service is not a native service, redirecting to systemd-sysv-ins
tall.
Executing: /lib/systemd/systemd-sysv-install enable isc-dhcp-server
root@angel:/home/tukur#

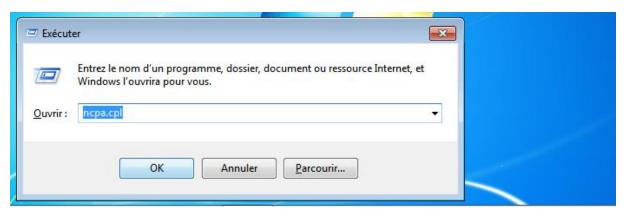
### Test

#### Windows 7

### On met lordinateur sur reseau interne

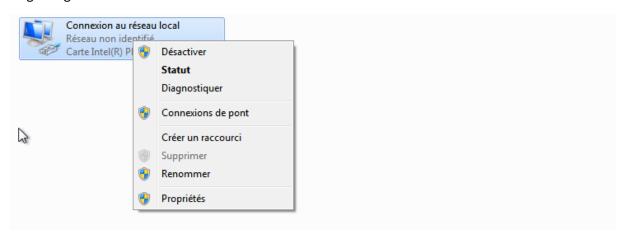


# Windows + R puis ncpa.cpl



Clique droit puis proprietes

#### Ondo Bavegue Angel Ango



## Double clic sur Ipv4

Cette connexion utilise les éléments suivants :

Client pour les réseaux Microsoft

Planificateur de paquets QoS

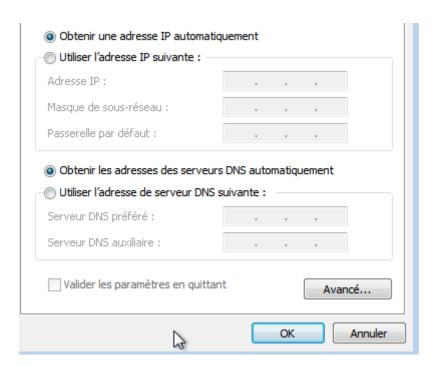
Partage de fichiers et imprimantes Réseaux Microsoft

Protocole Internet version 6 (TCP/IPv6)

Protocole Internet version 4 (TCP/IPv4)

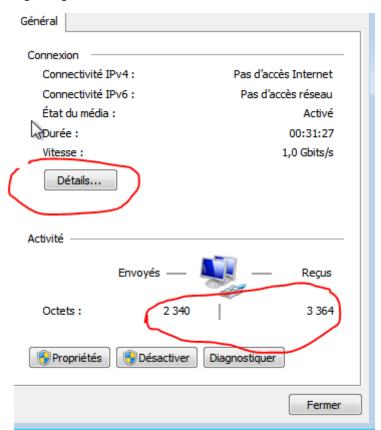
Priote E/S Mappage de découverte de couche liaison

Répondeur de découverte de couche de liaison

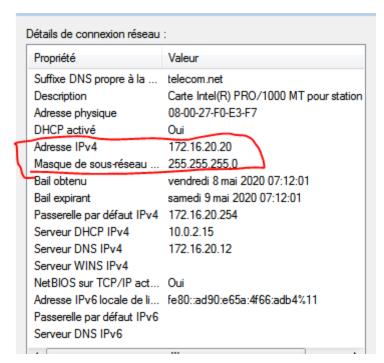


On met automatique puis on met ok

#### Ondo Bavegue Angel Ango



# On met detail pour verifier



On constate que les adresses on été donnes correctement

On fait un IPCONFIG

#### PUIS UN IPCONFIG /ALL

### UN IPCONFIG/RELEASE

#### ON FAIT UN PIG VERS LE SERVEUR

```
Microsoft Windows [version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. Tous droits réservés.

C:\Users\Tukur\ping 172.16.20.12

Envoi d'une requête 'Ping' 172.16.20.12 avec 32 octets de données :
Réponse de 172.16.20.12 : octets=32 temps<1ms TTL=64
Réponse de 172.16.20.12 : octets=32 temps=1 ms TTL=64

Statistiques Ping pour 172.16.20.12:
    Paquets : envoyés = 4, reçus = 4, perdus = 0 (perte 0%),
Durée approximative des boucles en millisecondes :
    Minimum = 0ms, Maximum = 1ms, Moyenne = 0ms
```

### **UN PING VERS LE CLIENT**

```
C:\Users\Tukur>ping 172.16.20.20

Envoi d'une requête 'Ping' 172.16.20.20 avec 32 octets de données :
Réponse de 172.16.20.20 : octets=32 temps<1ms TTL=128

Statistiques Ping pour 172.16.20.20:
    Paquets : envoyés = 4, reçus = 4, perdus = 0 (perte 0%),
Durée approximative des boucles en millisecondes :
    Minimum = 0ms, Maximum = 0ms, Moyenne = 0ms
```

#### TEST SUR UBUNT

```
tukur@tukur-VirtualBox:~$ su
Password:
ifconfroot@tukur-VirtualBox:/home/tukur# ifconfig enp0s3
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 172.16.20.22 netmask 255.255.255.0 broadcast 172.16.20.255
    inet6 fe80::a00:27ff:fee1:c105 prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:e1:c1:05 txqueuelen 1000 (Ethernet)
    RX packets 1453 bytes 89430 (89.4 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 1555 bytes 119397 (119.3 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

root@tukur-VirtualBox:/home/tukur#
```

#### PING VERS LE SERVEUR

```
root@tukur-VirtualBox:/home/tukur# ping 172.16.20.12
PING 172.16.20.12 (172.16.20.12) 56(84) bytes of data.
64 bytes from 172.16.20.12: icmp_seq=1 ttl=64 time=0.373 ms
64 bytes from 172.16.20.12: icmp_seq=2 ttl=64 time=0.374 ms
64 bytes from 172.16.20.12: icmp_seq=3 ttl=64 time=0.368 ms
64 bytes from 172.16.20.12: icmp_seq=4 ttl=64 time=0.370 ms
64 bytes from 172.16.20.12: icmp_seq=5 ttl=64 time=1.49 ms
64 bytes from 172.16.20.12: icmp_seq=6 ttl=64 time=0.606 ms
64 bytes from 172.16.20.12: icmp seq=7 ttl=64 time=0.361 ms
64 bytes from 172.16.20.12: icmp_seq=8 ttl=64 time=0.553 ms
64 bytes from 172.16.20.12: icmp_seq=9 ttl=64 time=0.498 ms
64 bytes from 172.16.20.12: icmp seq=10 ttl=64 time=9.34 ms
^C
--- 172.16.20.12 ping statistics ---
10 packets transmitted, 10 received, 0% packet loss, time 9164ms
rtt min/avg/max/mdev = 0.361/1.433/9.346/2.657 ms
```

### PING DU SERVEUR VERS CLIENT

```
root@angel:/home/tukur# ping 172.16.20.22
PING 172.16.20.22 (172.16.20.22) 56(84) bytes of data.
64 bytes from 172.16.20.22: icmp_seq=1 ttl=64 time=0.579 ms
64 bytes from 172.16.20.22: icmp_seq=2 ttl=64 time=0.395 ms
64 bytes from 172.16.20.22: icmp_seq=3 ttl=64 time=0.531 ms
64 bytes from 172.16.20.22: icmp_seq=4 ttl=64 time=0.393 ms
64 bytes from 172.16.20.22: icmp_seq=5 ttl=64 time=2.16 ms
64 bytes from 172.16.20.22: icmp_seq=5 ttl=64 time=0.418 ms
64 bytes from 172.16.20.22: icmp_seq=6 ttl=64 time=0.418 ms
65 c
66 packets transmitted, 6 received, 0% packet loss, time 109ms
67 rtt min/avg/max/mdev = 0.393/0.745/2.155/0.634 ms
```