

## DHCP sous linux

### Préparation

- installation des packets

- Autoriser les port sur le firewall (si besoin)

### Configuration

- Configuration basique

- Ecoutes sur plusieurs interfaces (ou une interface spécifique)

- Ouvrir un terminal avec les log en continue

- Demarrer le serveur

# DHCP sous linux

## Préparation

### installation des packets

```
# Installe le server dhcp via apt
sudo apt-get install isc-dhcp-server
```

### Autoriser les port sur le firewall (si besoin)

```
# Autoriser les port 67 & 68 en /udp
(base) toor@debian:~$ sudo ufw allow 67/udp && sudo ufw allow 68/udp
Rule added
Rule added (v6)
Rule added
Rule added (v6)
# Vérifier que les règles ont bien été ajoutées
(base) toor@debian:~$ sudo ufw status numbered
Status: active
```

To	Action	From
---	-----	----
[ 1] 22/tcp	ALLOW IN	Anywhere
[ 2] 3389/tcp	ALLOW IN	Anywhere
[ 3] 53	ALLOW IN	Anywhere
[ 4] 80/tcp	ALLOW IN	Anywhere
[ 5] 67/udp	ALLOW IN	Anywhere
[ 6] 68/udp	ALLOW IN	Anywhere
[ 7] 22/tcp (v6)	ALLOW IN	Anywhere (v6)
[ 8] 3389/tcp (v6)	ALLOW IN	Anywhere (v6)
[ 9] 53 (v6)	ALLOW IN	Anywhere (v6)
[10] 80/tcp (v6)	ALLOW IN	Anywhere (v6)
[11] 67/udp (v6)	ALLOW IN	Anywhere (v6)
[12] 68/udp (v6)	ALLOW IN	Anywhere (v6)

## Configuration

## Configuration basique

```
# Editer le fichier dhcpd.conf
sudo nano /etc/dhcp/dhcpd.conf
```

```
/etc/default/dhcpd.conf
```

```
# dhcpd.conf
option domain-name "cossu.fr";
# Adress ip de votre serveur dns
option domain-name-servers 192.168.5.51, 192.168.5.43;

default-lease-time 600; # Temp des beau dhcp
max-lease-time 7200;
ddns-update-style none;

# Plage d'ip qui va être donné par le dhcp
subnet 192.168.5.0 netmask 255.255.255.0 {
    range 192.168.5.50 192.168.5.59;
    option routers 192.168.5.252;
}
```

## Ecoutes sur plusieurs interfaces (ou une interface spécifique)

```
# Lister vos interface réseau
ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group
default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: eno1: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP
group default qlen 1000
    link/ether 2c:41:38:a9:fb:ce brd ff:ff:ff:ff:ff:ff
    altname enp7s0
    inet 192.168.5.51/24 brd 192.168.5.255 scope global noprefixroute eno1
        valid_lft forever preferred_lft forever
    inet6 fe80::2e41:38ff:fea9:fbce/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
5: wlx9c3dcfca479d: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc mq state UP
group default qlen 1000
    link/ether 9c:3d:cf:ca:47:9d brd ff:ff:ff:ff:ff:ff
    inet 192.168.43.225/24 brd 192.168.43.255 scope global dynamic noprefixroute
    wlx9c3dcfca479d
        valid_lft 3006sec preferred_lft 3006sec
    inet6 fe80::8af0:eff5:d41:99da/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
```

```
# Editer les fichier /etc/default/isc-dhcp-server
sudo nano /etc/default/isc-dhcp-server
```

```
/etc/default/isc-dhcp-server
```

```
# Spécifier les interface
INTERFACESv4="eno1"
INTERFACESv6=""
```

## Ouvrir un terminal avec les log en continue

```
sudo tail -f /var/log/syslog
```

## Demarrer le serveur

```
# Redémarrer le services isc-dhcp-server
sudo service isc-dhcp-server restart
# Vérifier que le bon fonctionnement du serveur dhcp
(base) toor@debian:~$ sudo service isc-dhcp-server status
• isc-dhcp-server.service - LSB: DHCP server
   Loaded: loaded (/etc/init.d/isc-dhcp-server; generated)
   Active: active (running) since Fri 2021-11-12 16:33:20 CET; 34s ago
     Docs: man:systemd-sysv-generator(8)
   Process: 16883 ExecStart=/etc/init.d/isc-dhcp-server start (code=exited,
status=0/SUCCESS)
     Tasks: 4 (limit: 4549)
    Memory: 8.3M
       CPU: 66ms
    CGroup: /system.slice/isc-dhcp-server.service
            └─16899 /usr/sbin/dhcpd -4 -q -cf /etc/dhcp/dhcpd.conf eno1

nov. 12 16:33:18 debian systemd[1]: Starting LSB: DHCP server...
nov. 12 16:33:18 debian isc-dhcp-server[16883]: Launching IPv4 server only.
nov. 12 16:33:18 debian dhcpd[16899]: wrote 0 leases to leases file.
nov. 12 16:33:18 debian dhcpd[16899]: Server starting service.
nov. 12 16:33:20 debian isc-dhcp-server[16883]: Starting ISC DHCPv4 server:
dhcpd.
nov. 12 16:33:20 debian systemd[1]: Started LSB: DHCP server.
```