

## Jalon 6 : Configuration DHCP

Le but de ce jalon est de configurer le serveur DHCP sur les routeurs cisco et de tester les différents bails DHCP sur le réseau du Magasin. La procédure est la même pour le ShowRoom.

Voici la configuration DHCP sur le routeur CE1

```
ip dhcp pool vlan10
network 130.2.10.0 255.255.255.0
domain-name beerock.com
default-router 130.2.10.254
!
ip dhcp pool vlan20
network 130.2.20.0 255.255.255.0
domain-name beerock.com
default-router 130.2.20.254
!
ip dhcp pool vlan30
network 130.2.30.0 255.255.255.0
default-router 130.2.30.254
domain-name beerock.com
!
ip dhcp pool vlan40
network 130.2.40.0 255.255.255.0
domain-name beerock.com
default-router 130.2.40.254
!
```

Afin de vérifier que le serveur DHCP sur le routeur fonctionne, nous avons effectué des demande DHCP sur les clients (PC) **dhclient -v**

```
DHCP OFFER of 130.2.20.2 from 130.2.20.254
DHCP REQUEST for 130.2.20.2 on eth0 to 255.255.255.255 port 67
DHCP ACK of 130.2.20.2 from 130.2.20.254
bound to 130.2.20.2 -- renewal in 37356 seconds.
root@rt:~# ping 130.2.10.2
PING 130.2.10.2 (130.2.10.2) 56(84) bytes of data.
64 bytes from 130.2.10.2: icmp_seq=1 ttl=63 time=0.590 ms
64 bytes from 130.2.10.2: icmp_seq=2 ttl=63 time=0.570 ms
64 bytes from 130.2.10.2: icmp_seq=3 ttl=63 time=0.547 ms
^C
--- 130.2.10.2 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 46ms
rtt min/avg/max/mdev = 0.547/0.569/0.590/0.017 ms
```

Figure 1 : baux DHCP sur le PC direction

```
DHCPDISCOVER on eth0 to 255.255.255.255 port 67 interval 17
DHCPOFFER of 130.2.20.2 from 130.2.20.254
DHCPREQUEST for 130.2.20.2 on eth0 to 255.255.255.255 port 67
DHCPACK of 130.2.20.2 from 130.2.20.254
bound to 130.2.20.2 -- renewal in 37356 seconds.
root@rt:~#
```

*Figure 2 : baux DHCP sur le PC Ventes*

Suite à la configuration des VLANs, et à ce serveur DHCP, les deux PCs se situant dans des vlans différents peuvent communiquer :

```
DHCPACK of 130.2.10.2 from 130.2.10.254
bound to 130.2.10.2 -- renewal in 35308 seconds.
root@rt:~# ping 130.2.20.2
PING 130.2.20.2 (130.2.20.2) 56(84) bytes of data.
64 bytes from 130.2.20.2: icmp_seq=1 ttl=63 time=0.609 ms
64 bytes from 130.2.20.2: icmp_seq=2 ttl=63 time=0.549 ms
64 bytes from 130.2.20.2: icmp_seq=3 ttl=63 time=0.547 ms
64 bytes from 130.2.20.2: icmp_seq=4 ttl=63 time=0.530 ms
64 bytes from 130.2.20.2: icmp_seq=5 ttl=63 time=0.544 ms
^C
--- 130.2.20.2 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 63ms
rtt min/avg/max/mdev = 0.530/0.555/0.609/0.040 ms
```

*Figure 3 : PC vlan direction et vlan vente communiquant.*