

NewWorld SA

Recette - Services DHCP

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1. Service DHCP Lardier

Le client se trouve dans le VLAN 10 - Direction

Test de la demande d'adresse IP avec les deux serveur allumés :

```
Killed old client process
Internet Systems Consortium DHCP Client 4.4.1
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For info, please visit https://www.isc.org/software/dhcp/

Listening on LPF/enp0s3/08:00:27:39:53:a7
Sending on LPF/enp0s3/08:00:27:39:53:a7
Sending on Socket/fallback
DHCPRELEASE of 10.14.10.1 on enp0s3 to 192.168.14.107 port 67
Internet Systems Consortium DHCP Client 4.4.1
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For info, please visit https://www.isc.org/software/dhcp/

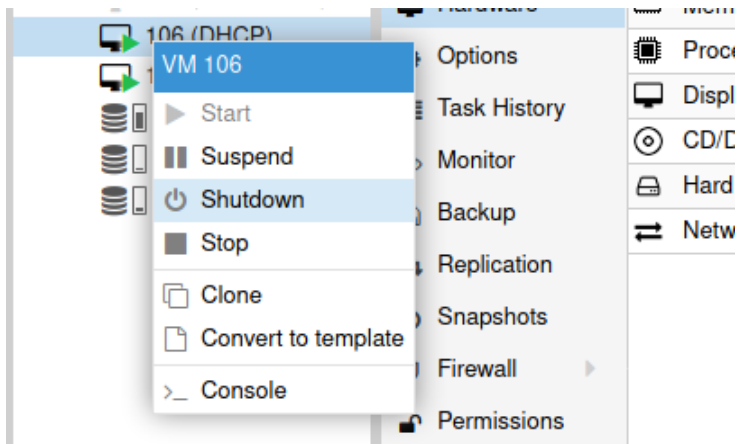
Listening on LPF/enp0s3/08:00:27:39:53:a7
Sending on LPF/enp0s3/08:00:27:39:53:a7
Sending on Socket/fallback
DHCPDISCOVER on enp0s3 to 255.255.255.255 port 67 interval 5
DHCPDISCOVER on enp0s3 to 255.255.255.255 port 67 interval 11
DHCPOFFER of 10.14.10.1 from 10.14.10.254
DHCPREQUEST for 10.14.10.1 on enp0s3 to 255.255.255.255 port 67
DHCPACK of 10.14.10.1 from 10.14.10.254
bound to 10.14.10.1 -- renewal in 1457 seconds.
```

Le client reçoit son adresse IP

Logs du côté du serveur MASTER (/var/log/syslog)

```
Oct 21 10:35:57 DHCP dhcpcd[1035]: DHCPDISCOVER from 08:00:27:39:53:a7
via 10.14.10.254
Oct 21 10:35:58 DHCP dhcpcd[1035]: DHCPOFFER on 10.14.10.1 to
08:00:27:39:53:a7 (debian) via 10.14.10.254
Oct 21 10:35:58 DHCP dhcpcd[1035]: DHCPREQUEST for 10.14.10.1
(192.168.14.106) from 08:00:27:39:53:a7 (debian) via 10.14.10.254
Oct 21 10:35:58 DHCP dhcpcd[1035]: DHCPACK on 10.14.10.1 to
08:00:27:39:53:a7 (debian) via 10.14.10.254
```

Maintenant, on éteint le serveur MASTER :



Constatation de la prise de relais du serveur SLAVE (/var/log/syslog)

```
Oct 21 10:39:45 DHCP2 dhcpd[3450]: peer DHCP-NWSA: disconnected
Oct 21 10:39:45 DHCP2 dhcpd[3450]: failover peer DHCP-NWSA: I move from
normal to communications-interrupted
```

Demande d'adresse IP sur le Client :

```
Killed old client process
Internet Systems Consortium DHCP Client 4.4.1
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For info, please visit https://www.isc.org/software/dhcp/

Listening on LPF/enp0s3/08:00:27:39:53:a7
Sending on   LPF/enp0s3/08:00:27:39:53:a7
Sending on   Socket/fallback
DHCPRELEASE of 10.14.10.1 on enp0s3 to 192.168.14.106 port 67
Internet Systems Consortium DHCP Client 4.4.1
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For info, please visit https://www.isc.org/software/dhcp/

Listening on LPF/enp0s3/08:00:27:39:53:a7
Sending on   LPF/enp0s3/08:00:27:39:53:a7
Sending on   Socket/fallback
DHCPDISCOVER on enp0s3 to 255.255.255.255 port 67 interval 6
DHCPDISCOVER on enp0s3 to 255.255.255.255 port 67 interval 15
DHCPOFFER of 10.14.10.1 from 10.14.10.254
DHCPREQUEST for 10.14.10.1 on enp0s3 to 255.255.255.255 port 67
DHCPACK of 10.14.10.1 from 10.14.10.254
bound to 10.14.10.1 -- renewal in 10733 seconds.
```

Le client reçoit son IP comme prévu par le serveur SLAVE

Logs du côté du serveur SLAVE (/var/log/syslog)

```
Oct 21 10:41:28 DHCP2 dhcpd[3450]: DHCPDISCOVER from 08:00:27:39:53:a7
via 10.14.10.254
Oct 21 10:41:29 DHCP2 dhcpd[3450]: DHCPOFFER on 10.14.10.1 to
08:00:27:39:53:a7 (debian) via 10.14.10.254
Oct 21 10:41:29 DHCP2 dhcpd[3450]: DHCPREQUEST for 10.14.10.1
(192.168.14.107) from 08:00:27:39:53:a7 (debian) via 10.14.10.254
Oct 21 10:41:30 DHCP2 dhcpd[3450]: DHCPACK on 10.14.10.1 to
08:00:27:39:53:a7 (debian) via 10.14.10.254
Oct 21 10:41:30 DHCP2 dhcpd[3450]: reuse_lease: lease age 1 (secs) under
25% threshold, reply with unaltered, existing lease for 10.14.10.1
Oct 21 10:41:30 DHCP2 dhcpd[3450]: DHCPREQUEST for 10.14.10.1
(192.168.14.107) from 08:00:27:39:53:a7 (debian) via 10.14.10.254
Oct 21 10:41:30 DHCP2 dhcpd[3450]: DHCPACK on 10.14.10.1 to
08:00:27:39:53:a7 (debian) via 10.14.10.254
```

2. Service DHCP Sisteron

Demande de configuration ip :

```
DHCPDISCOVER on enp0s3 to 255.255.255.255 port 67 interval 12
DHCPOFFER of 10.14.40.2 from 10.14.40.254
DHCPREQUEST for 10.14.40.2 on enp0s3 to 255.255.255.255 port 67
DHCPACK of 10.14.40.2 from 10.14.40.254
bound to 10.14.40.2 -- renewal in 36396 seconds.
```

Etat de configuration ip:

```
enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast
state UP group default qlen 1000
    link/ether 08:00:27:b1:9c:6f brd ff:ff:ff:ff:ff:ff
    inet 10.14.40.2/24 brd 10.14.40.255 scope global dynamic enp0s3
```

Etat des ip attribué sur le routeur :

show ip dhcp binding

```
Bindings from all pools not associated with VRF:
IP address          Client-ID/
                    Hardware address/
10.14.40.2          ff27.b19c.6f00.0100.
                    0128.fff6.3608.0027.
                    b19c.6f
                    Lease expiration
                    Type
                    Automatic
```