DHCP 3

Zulema Romero

Curs: 24-25

Copiar la estructura de sota, tantes vegades com sigui necessari

Realitza i entrega una captura de la nova configuració.

```
1 11:23:35 zeus dhcpd[1398]: PID file: /run/dhcp-server/dhcpd.pid
1 11:23:35 zeus sh[1398]: PID file: /run/dhcp-server/dhcpd.pid
1 11:23:35 zeus dhcpd[1398]: Wrote O deleted host decls to leases file.
1 11:23:35 zeus dhcpd[1398]: Wrote O new dynamic host decls to leases file.
Oct
      1 11:23:35 zeus
Oct
                                  [1398]: Wrote O leases to leases file.
[1398]: Multiple interfaces match the same subnet: enpOs8 enpOs9
      1 11:23:35 zeus
1 11:23:35 zeus
Oct
Oct
      1 11:23:35 zeus
Oct
                                  [1398]: Multiple interfaces match the same shared network: enp0s8 enp0s9
                                  [1398]: Multiple interfaces match the same subnet: enp0s8 enp0s9 [1398]: Multiple interfaces match the same shared network: enp0s8 [1398]: Multiple interfaces match the same subnet: enp0s8 enp0s9
      1 11:23:35 zeus
Oct
      1 11:23:35
Oct
                    zeus
                                            Multiple interfaces match the same shared network: enp0s8 enp0s9
      1 11:23:35 zeus
Oct
Oct
      1 11:23:35 zeus
                                  [1398]:
                                            Multiple interfaces match the same shared network: enp0s8 enp0s9
                                  [1398]: Listening on LPF/enp0s9/08:00:27:28:f8:ff/192.168.30.0/24
[1398]: Sending on LPF/enp0s9/08:00:27:28:f8:ff/192.168.30.0/24
Oct
      1 11:23:35 zeus
      1 11:23:35 zeus
Oct
                                            Listening on LPF/enp0s8/08:00:27:9e:82:06/192.168.30.0/24
Oct
      1 11:23:35 zeus
                                  [1398]:
                                  [1398]: Sending on
[1398]: Sending on
[1398]: Server star
      1 11:23:35 zeus
                                                             LPF/enp0s8/08:00:27:9e:82:06/192.168.30.0/24
Oct
                                                              Socket/fallback/fallback-net
Oct
      1 11:23:35 zeus
      1 11:23:35 zeus
1 11:23:40 zeus
                                            Server starting service.
Oct
                                  [1398]: DHCPDISCOVER from 08:00:27:9e:82:06 via enp0s8
Oct
                                  [1398]: DHCPDISCOVER from 08:00:27:28:f8:ff via enp0s9
[1398]: DHCPOFFER on 192.168.30.100 to 08:00:27:9e:82:06 (zeus) via enp0s8
      1 11:23:40 zeus
Oct
      1 11:23:41 zeus
Oct
      1 11:23:41 zeus
                                  [1398]: DHCPREQUEST for 192.168.30.100 (192.168.30.1) from 08:00:27:9e:82:
Oct
06 (zeus) via enpOs8
      1 11:23:41 zeus
1 11:23:41 zeus
Oct
                                  [1398]: DHCPACK on 192.168.30.100 to 08:00:27:9e:82:06 (zeus) via enp0s8
                                  [1398]: DHCPOFFER on 192.168.30.101 to 08:00:27:28:f8:ff (zeus) via enpos
Oct.
     1 11:23:41 zeus
Oct
                                  [1398]: DHCPREQUEST for 192.168.30.101 (192.168.30.2) from 08:00:27:28:f8:
ff (zeus) via enpOs9
     1 11:23:41 zeus
                                  [1398]: DHCPACK on 192.168.30.101 to 08:00:27:28:f8:ff (zeus) via enp0s9
Oct
      1 11:24:06 zeus
                                  [1398]: DHCPDISCOVER from 08:00:27:28:f8:ff (zeus) via enp0s9
Oct
      1 11:24:06 zeus
1 11:24:11 zeus
                                  [1398]: DHCPOFFER on 192.168.30.101 to 08:00:27:28:f8:ff (zeus) via enpOs9
Oct
                                  [1398]: DHCPDISCOVER from 08:00:27:e3:7e:fa via enp0s8
[1398]: DHCPOFFER on 192.168.30.102 to 08:00:27:e3:7e:fa (ubuntuserver) vi
Oct
     1 11:24:12 zeus
Oct
a enpOs8
                                 [1398]: DHCPREQUEST for 192.168.30.102 (192.168.30.1) from 08:00:27:e3:7e:
Oct 1 11:24:12 zeus
fa (ubuntuserver) via enp0s8
                                 d[1398]: DHCPACK on 192.168.30.102 to 08:00:27:e3:7e:fa (ubuntuserver) via
Oct 1 11:24:12 zeus
enp0s8
    oct 01 11:25:01 romeroz@zeus:/etc/dhcp$ _
```

valid_lft 3394sec preferred_lft 3394sec
inet6 fe80::a00:27ff:fee3:7efa/64 scope link
 valid_lft forever preferred_lft forever
oct 01 13:27:38 romeroz@ubuntuserver:~\$ _

DHCP 3

Zulema Romero

Curs: 24-25

Realitza i entrega una captura on comproves la IP que reben PC1 i PC2.

```
ipmar oct 01 13:27:49 romeroz@ubuntuserver:~$ 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: enpOs3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1
    link/ether 08:00:27:75:86:4b brd ff:ff:ff:ff:ff
inet 192.168.30.102/24 metric 100 brd 192.168.30.255 scope global dynamic enp0s3
       valid_lft 3575sec preferred_lft 3575sec
    inet6 fe80::a00:27ff:fe75:864b/64 scope link
       valid_lft forever preferred_lft forever
 mar oct 01 13:27:50 romeroz@ubuntuserver:~$
    oct 01 13:27:36 romeroz@ubuntuserver:~$ 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
     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: enpOs3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1
     link/ether 08:00:27:e3:7e:fa brd ff:ff:ff:ff:ff
     inet 192.168.30.102/24 metric 100 brd 192.168.30.255 scope global dynamic enp0s3
```



DHCP 3 Zulem

Zulema Romero Curs: 24-25

Realitza una captura on mostris la instal·lació del daemon NTP a Zeus i a Artemis.

mar oct 01 12:11:5	51 romeroz@zeus:	/\$	ntı	pq -p)				
remote	refid	st	t ı	when	poll	reach	delay	offset	jitter
0.ubuntu.pool.n .	 .POOL.	16	p		64	0	0.000	+0.000	0.001
1.ubuntu.pool.n .							0.000	+0.000	0.001
2.ubuntu.pool.n .							0.000	+0.000	0.001
3.ubuntu.pool.n .	.POOL.	16	р			0	0.000	+0.000	0.001
ntp.ubuntu.com .	.POOL.	16	р		64	0	0.000	+0.000	0.001
+60.poo190-68-20 1	193.190.230.65	2	u	3	64	3	22.935	+7.280	9.819
-time.cloudflare 1	10.89.8.6	3	u	7	64	3	12.502	+1.949	11.594
#82.223.203.159 5	5.250.191.170	3	u	9	64	3	46.832	+8.284	7.251
#tick.espanix.ne .	.GNSS.	1	u	12	64		25.708	+3.949	12.683
<pre>*tock.espanix.ne .</pre>	.GNSS.	1	u	13	64	3	33.641	+5.297	8.522
#178.215.228.24 1	189.97.54.122	2	u	15	64	3	73.210	-18.946	32.585
-cf393dbc-c70f-4 1	150.214.5.121	2	u	13	64	3	12.676	+2.307	11.419
-any.time.nl 3				10	64	3	23.558	+0.888	13.653
-ip212-227-232-4 7				16	64	3	46.962	+9.315	6.883
+time.cloudflare 1	10.89.8.6	3	u	14	64	3	131.145	+61.878	49.081
-ntp1.adora.code 1	17.253.108.125	2	u	12	64	3	97.946	+35.599	17.964
#sarah.vandalswe 1	185.248.189.10	2	u	13	64	3	104.496	+29.438	16.485
−eu−es1−new.clou 8	32.67.62.62	2	u	14	64	3	104.526	+34.992	18.697
alphyn.canonica 1	132.163.96.1	2	u	20	64	3	312.847	-103.03	118.258
185.125.190.56				16	64	3	153.239	+62.440	44.917
-185.198.109.227 1				79	64		35.214		
#89.140.186.3 (d 1				79	64	2	47.570	+18.959	1.806
mar oct 01 12:12:2	20 romeroz@zeus:	/\$	_						

DHCP 3

Zulema Romero

Curs: 24-25

Realitza una captura on mostris els canvis a la configuració de Zeus.

```
default-lease-time 3600;
    max_lease_time 7200;
    failover peer "dhcp-failover";
}

subnet 192.168.40.0 netmask 225.255.255.0 {
    option domain-name-servers 192.168.40.50, 192.168.40.51;
    range 192.168.40.100 192.168.40.250;
    option domain-name "romero-alegria.test";
    option subnet-mask 255.255.255.0;
    option routers 172.30.1.1;
    default-lease-time 3600;
    max_lease-time 7200;
    failover peer "dhcp-failover";
}

failover peer "dhcp-failover" {
    primary;
    address 192.168.30.50;
    peer address 192.168.30.51;
    port 647;
    pax_-response-delay 60;
    max_-unacked_updates 10;
    load balance max seconds 3;
    mclt 3600;
    split 128;
}
```



DHCP 3 Zule

Zulema Romero

Curs: 24-25

Realitza una captura on mostris que el servidor DHCP s'està executant a Artemis.

```
mar oct 01 12:37:41 romeroz@zeus:~$ sudo systemctl status isc-dhcp-server

• isc-dhcp-server.service – ISC DHCP IPv4 server
Loaded: loaded (/lib/systemd/system/isc-dhcp-server.service; enabled; vendor preset: enabled)
Active: active (running) since Tue 2024–10–01 12:37:41 UTC; 5s ago
Docs: man:dhcpd(8)
Main PID: 976 (dhcpd)
Tasks: 4 (limit: 2219)
Memory: 4.8M
CPU: 6ms
CGroup: /system.slice/isc-dhcp-server.service
L976 dhcpd -user dhcpd -group dhcpd -f -4 -pf /run/dhcp-server/dhcpd.pid -cf /etc/dhc
```

Realitza una captura on mostris la configuració de failover a Zeus.

Institut Antoni Ballester Sistemes Microinformàtics i Xarxes.

M7 - Serveis de Xarxa

```
# A slightly different configuration for an internal subnet.
failover peer "dhcp–failover" {
     primary;
     address 192.168.30.50;
     port 647;
     peer address 192.168.30.51;
     peer port 647;
     max-unacked-updates 10;
     max-response-delay 30;
    mclt 1800;
     split 128;
shared–network "red–compartida" {
subnet 192.168.30.0 netmask 255.255.255.0 {
option broadcast–address 192.168.30.255;
          option routers 172.30.1.1;
          option domain-name-servers 192.168.30.50, 192.168.30.51;
          pool {
              failover peer "dhcp–failover";
max–lease–time 3600;
              range 192.168.30.100 192.168.30.250;
     subnet 192.168.40.0 netmask 255.255.255.0 {
         option broadcast-address 192.168.40.255; option routers 172.30.1.1;
          option domain-name-servers 192.168.40.50, 192.168.40.51;
          pool {
              failover peer "dhcp–failover";
max–lease–time 3600;
              range 192.168.40.100 192.168.40.51;
 ar oct 01 15:57:42romeroz@zeus:/etc/dhcp$ _
```

M7 - Serveis de Xarxa

Realitza una captura on mostris la configuració de failover a Artemis.

```
# A slightly different configuration for an internal subnet.
failover peer "dhcp–failover" {
     secondary;
     address 192.168.30.51;
port 647;
     peer address 192.168.30.50;
     peer port 647;
     max-unacked-updates 10;
     max-response-delay 30;
shared–network "red–compartida" {
subnet 192.168.30.0 netmask 255.255.255.0 {
          option broadcast-address 192.168.30.255; option routers 172.30.1.1;
          option domain-name-servers 192.168.30.50, 192.168.30.51;
          pool {
               failover peer "dhcp–failover";
max–lease–time 3600;
range 192.168.30.100 192.168.30.250;
     subnet 192.168.40.0 netmask 255.255.255.0 {
   option broadcast-address 192.168.40.255;
         option routers 172.30.1.1;
         option domain-name-servers 192.168.40.50, 192.168.40.51;
         pool {
              failover peer "dhcp–failover";
max–lease–time 3600;
              range 192.168.40.100 192.168.40.250;
 mar oct 01 16:00:40 romeroz@zeus:/etc/dhcp$
```

DHCP 3

Zulema Romero

Curs: 24-25

Realitza una captura on mostris que el failover funciona.

```
cltt 2 2024/10/01 11:23:41;
binding state free;
  hardware ethernet 08:00:27:9e:82:06;
lease 192.168.30.102 {
  starts 2 2024/10/01 12:26:34;
ends 2 2024/10/01 13:26:34;
  tstp 2 2024/10/01 13:26:34;
cltt 2 2024/10/01 12:26:34;
  binding state free;
  hardware ethernet 08:00:27:75:86:4b;
uid "\377\3424?>\000\002\000\000\253\021\011\356\036B\212v\021X";
lease 192.168.30.101 {
 starts 2 2024/10/01 11:25:10;
ends 3 2024/10/02 11:25:10;
tstp 3 2024/10/02 11:25:10;
  cltt 2 2024/10/01 11:25:10;
  binding state abandoned;
next binding state free;
  rewind binding state free;
ailover peer "dhcp–failover" state {
  my state recover at 2 2024/10/01 15:57:08;
partner state unknown–state at 2 2024/10/01 15:57:08;
  mclt 0;
server-duid "\000\001\000\001.\205\200\200\010\000'\236\202\006";
failover peer "dhcp-failover" state {
my state recover at 2 2024/10/01 15:57:08;
partner state unknown–state at 2 2024/10/01 15:57:08;
  mclt 0;
 ar oct 01 16:08:40romeroz@zeus:/etc/dhcp$ _
```