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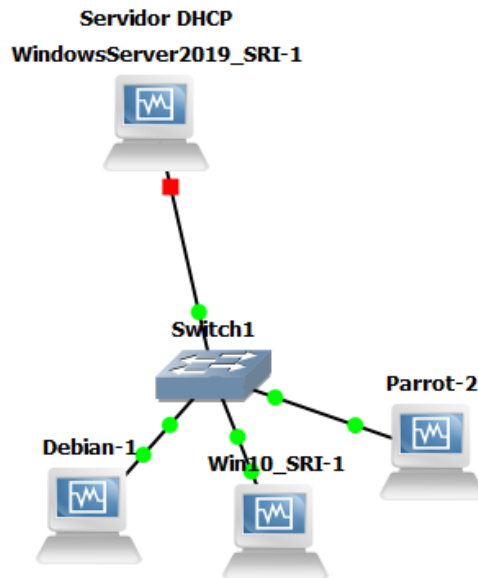
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Ejercicio 1

a) Windows superambito

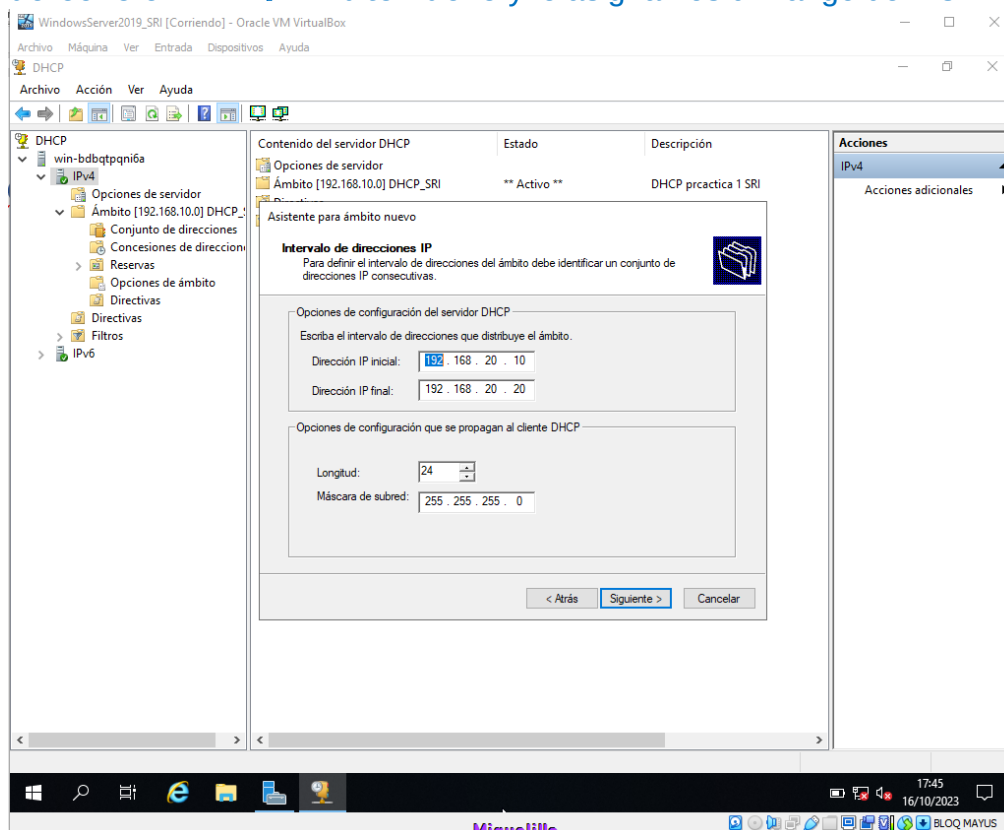
Solución:

Escenario

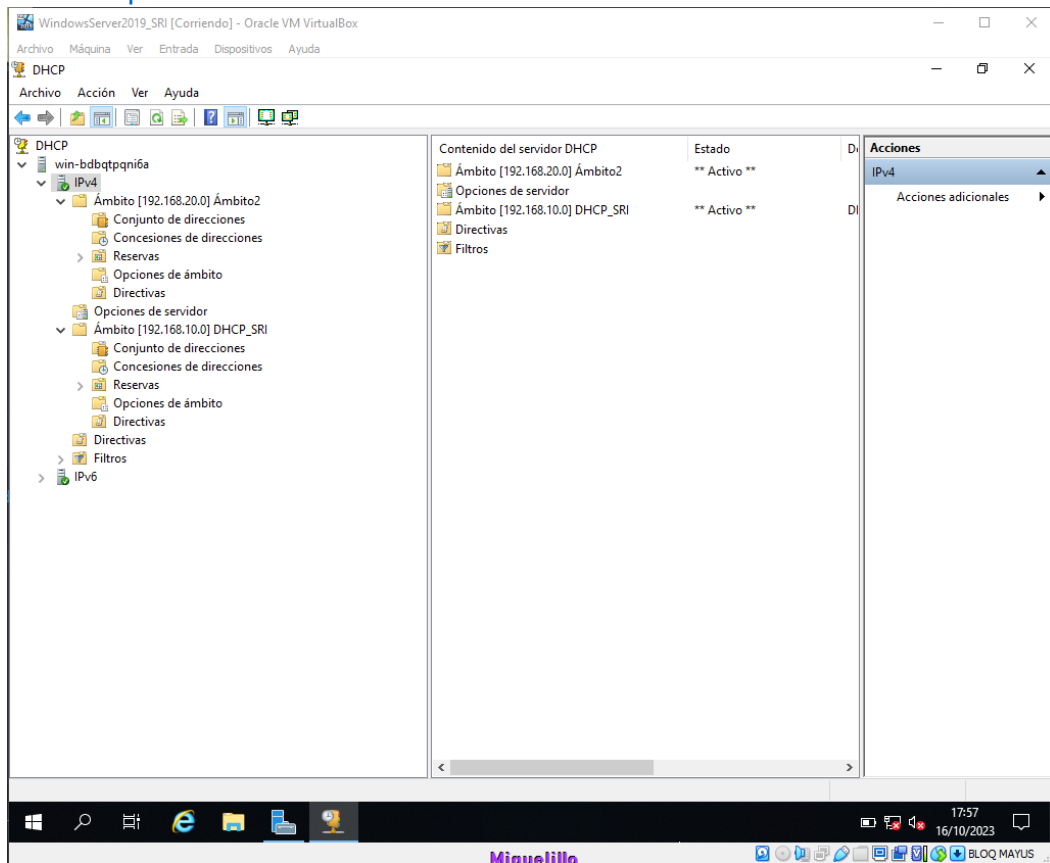


Miauelillo

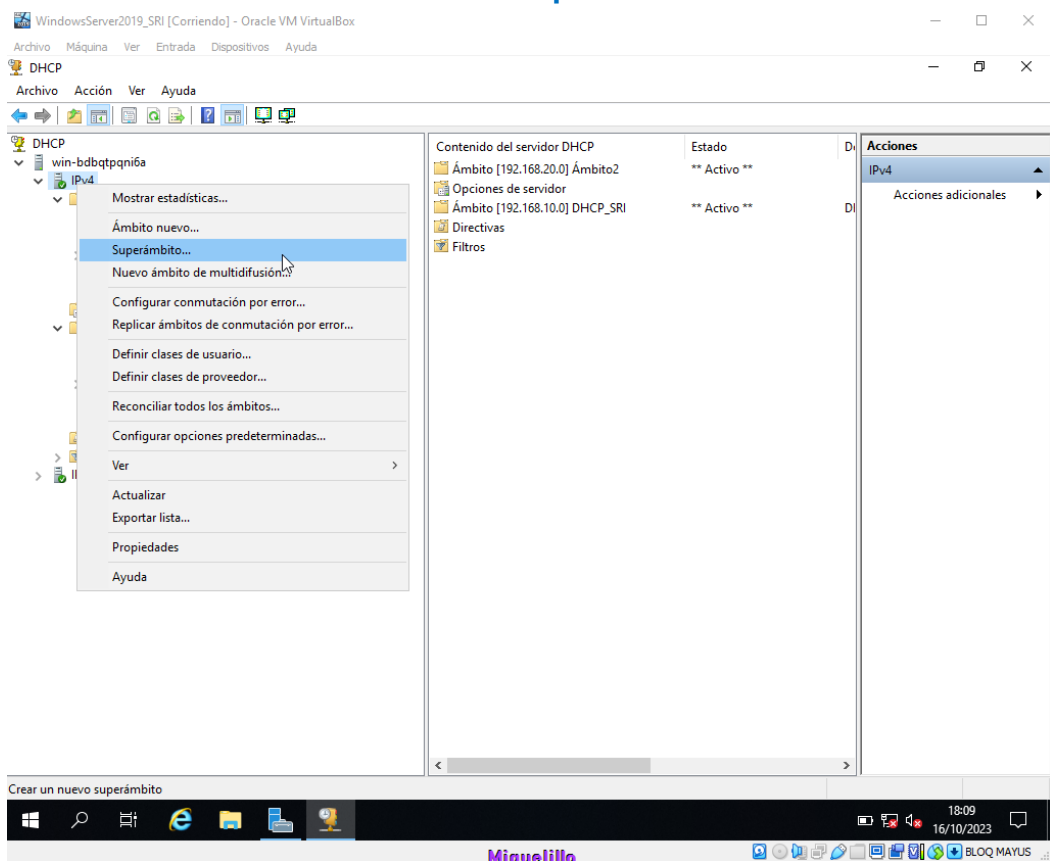
Vamos a **Administración del servidor** → **Herramientas** → **DHCP** → **Clic derecho en IPv4** → **Ámbito nuevo** y le asignamos un rango de IPs



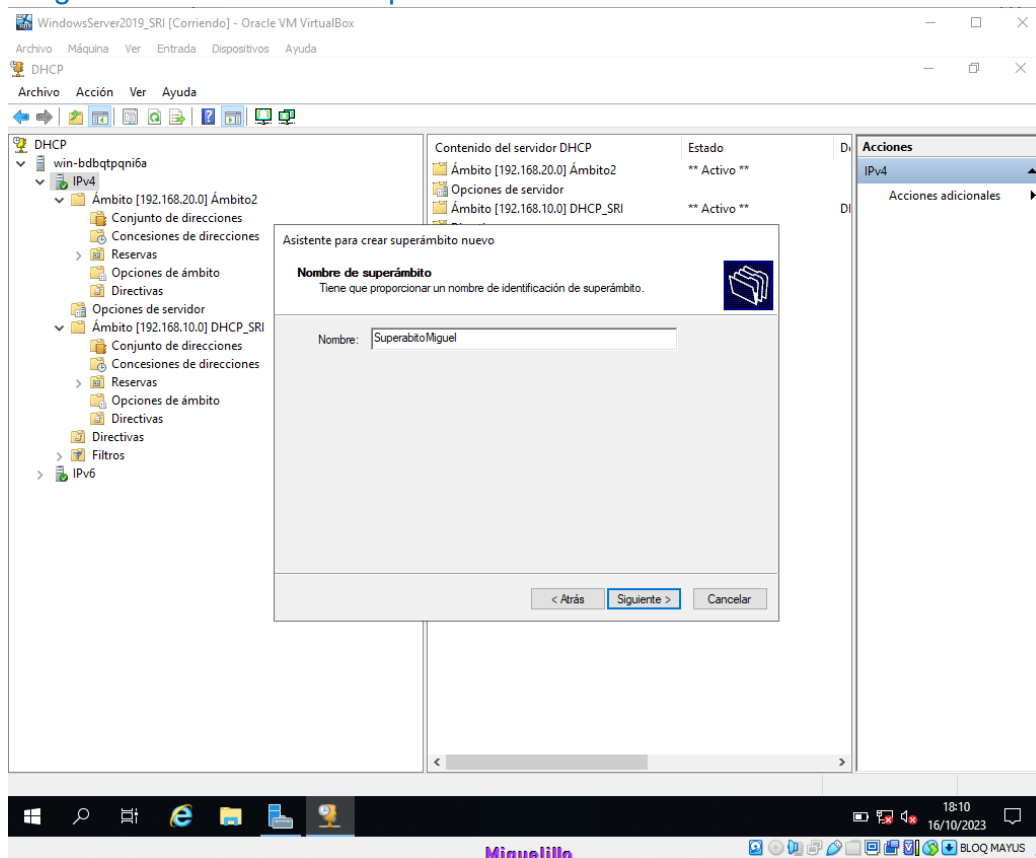
Vemos que tenemos dos ámbitos



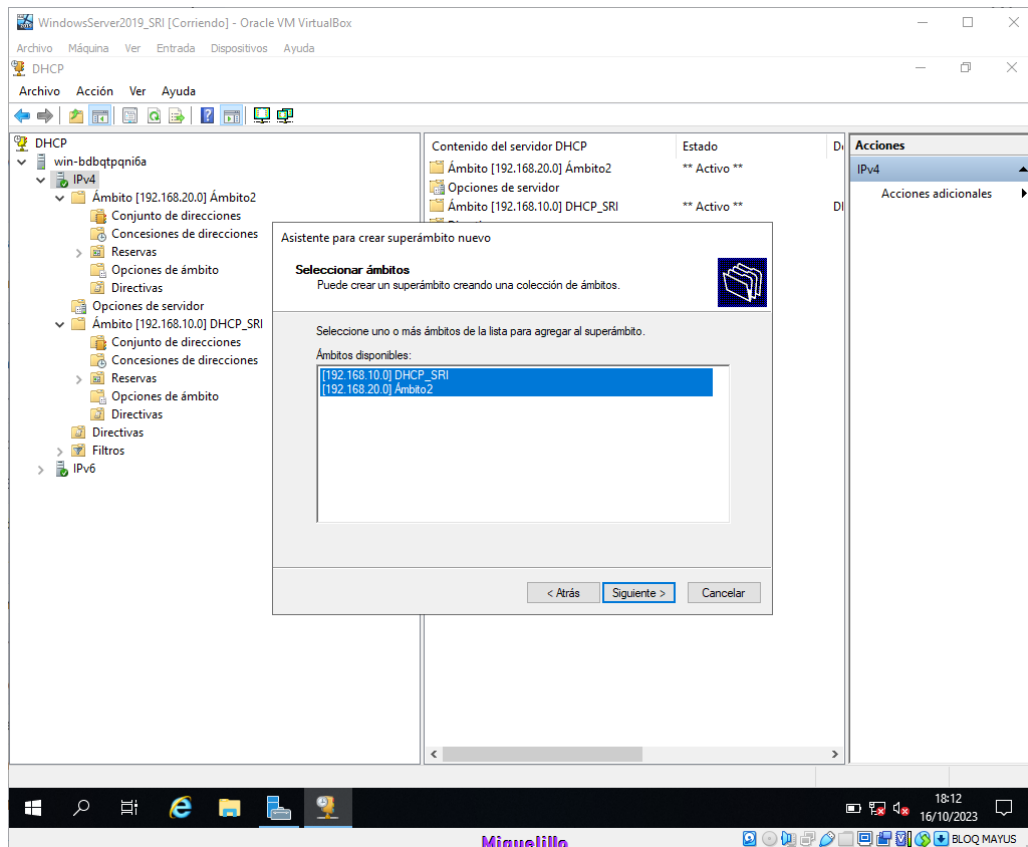
Seleccionamos clic derecho IPv4→Superámbito...



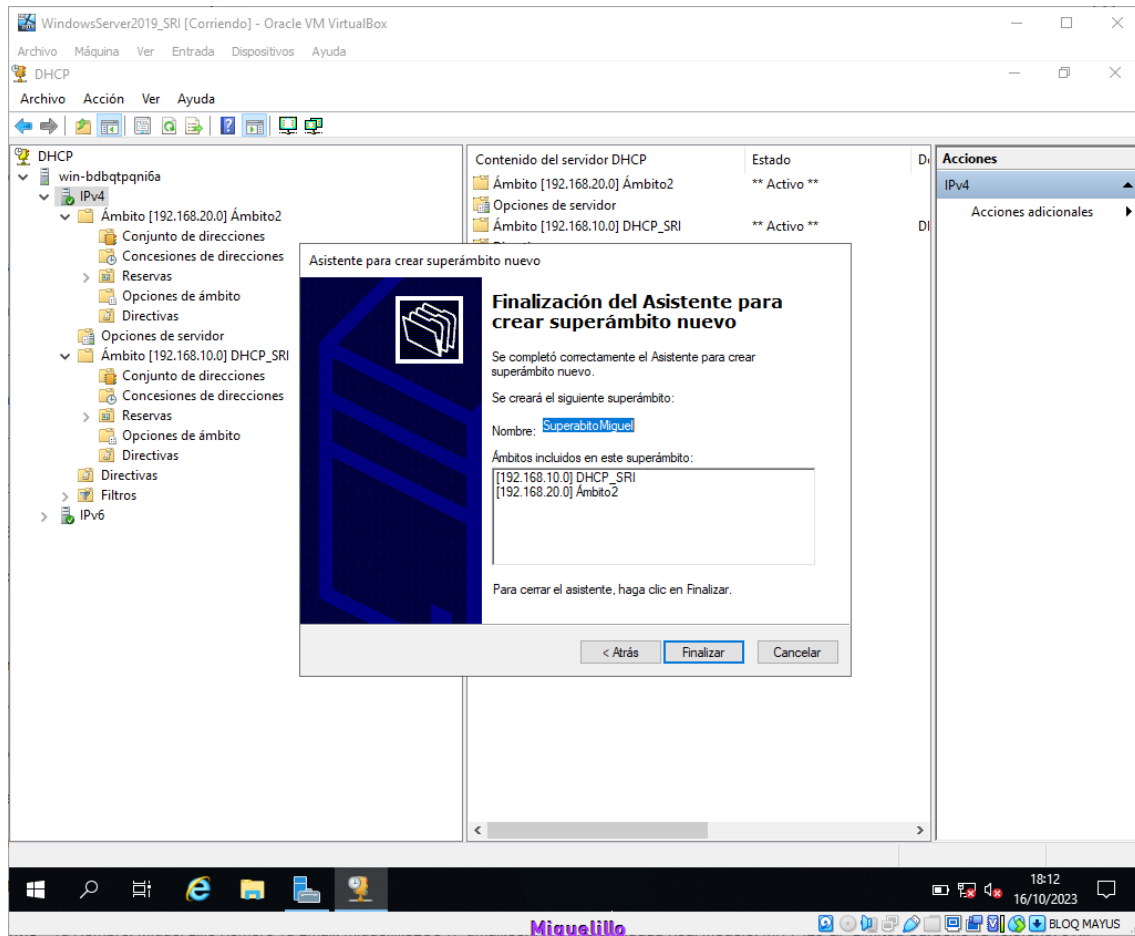
Asignamos el nombre a superabito



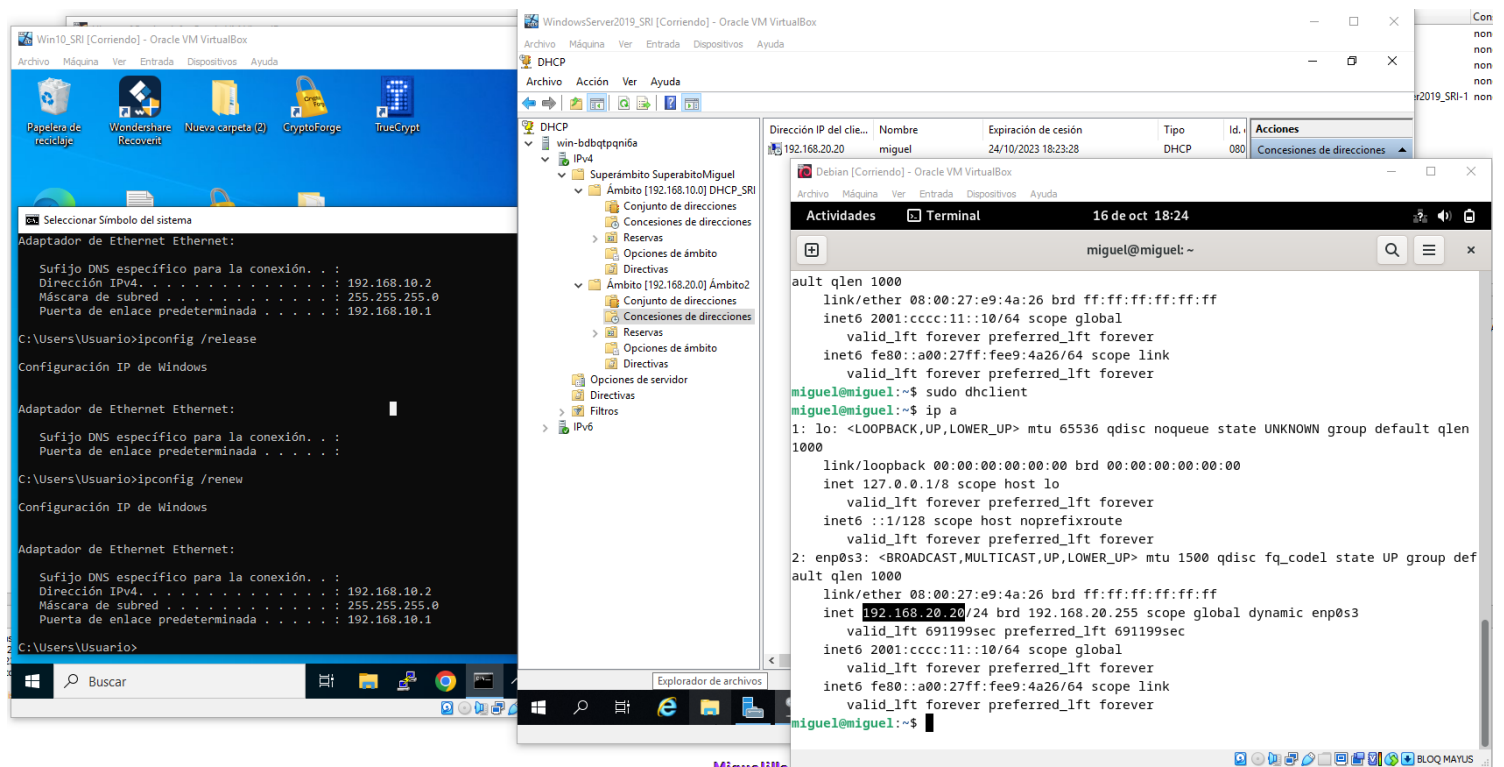
Seleccionamos los dos ámbitos



Finalizar



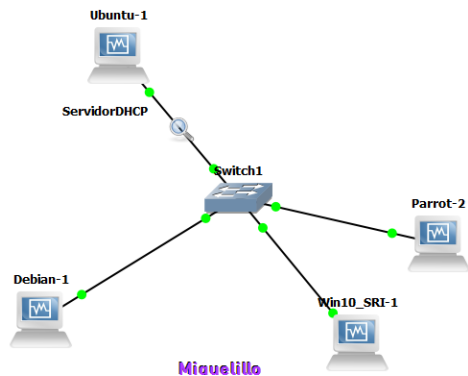
Comprobación nos da IP de los dos rangos



b) Linux superambito

Solución:

Escenario



Para crear un superambito en ubuntu editamos el archivo dhcp con `sudo nano /etc/dhcp/dhcpd.conf`

```

usuario@usuario-miguel-SRI: ~
usuario@usuario-miguel-SRI:~$ sudo nano /etc/dhcp/dhcpd.conf
[sudo] contraseña para usuario:
usuario@usuario-miguel-SRI:~$
  
```

Creamos un nuevo ámbito y lo englobamos todo dentro de `shared-network segunda-red {}`

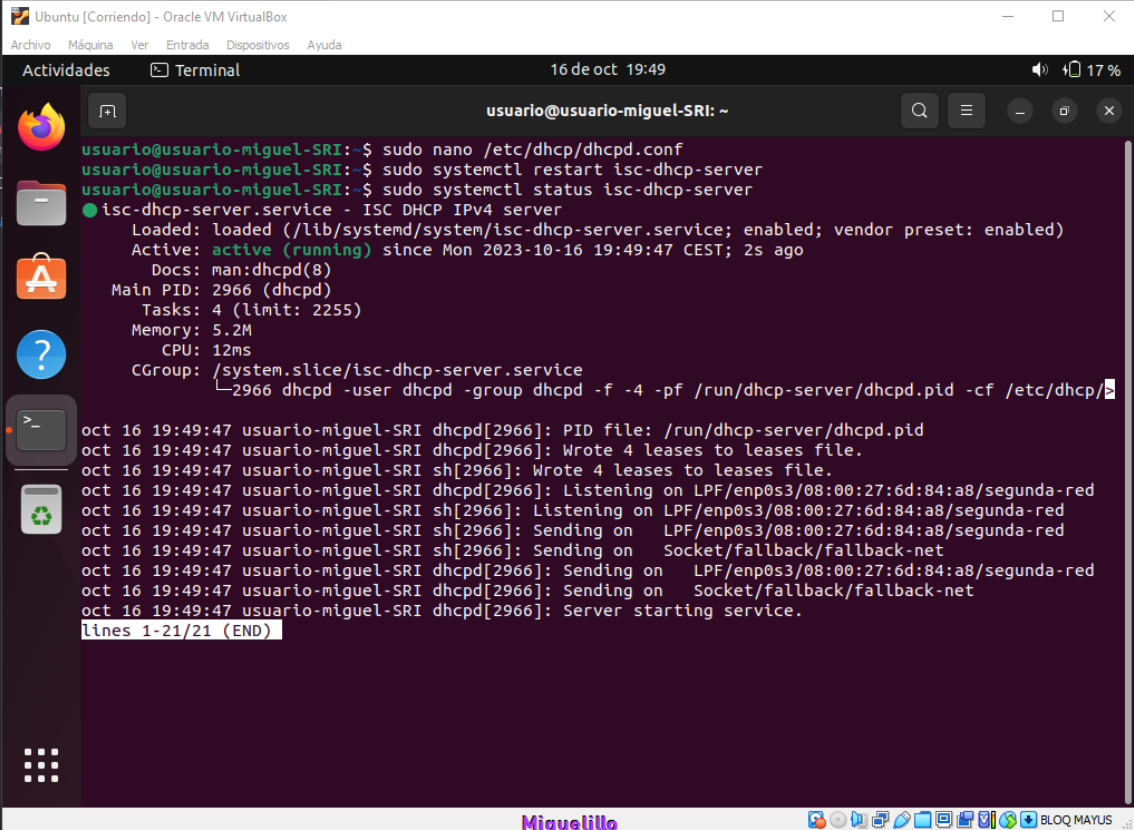
```

GNU nano 6.2 /etc/dhcp/dhcpd.conf
#
#Configuracion DHCP
shared-network segunda-red {
subnet 192.168.40.0 netmask 255.255.255.0 {
    range 192.168.40.50 192.168.40.51;
    option routers 192.168.40.1;
    option domain-name-servers 8.8.8.8;
}
subnet 192.168.50.0 netmask 255.255.255.0 {
    range 192.168.50.50 192.168.50.51;
    option routers 192.168.40.1;
    option domain-name-servers 8.8.8.8;
}
}
#
#
  
```

Reiniciamos y vemos el estado del servicio dhcp con

```
sudo systemctl restart isc-dhcp-server
```

```
sudo systemctl status isc-dhcp-server
```



The screenshot shows a terminal window titled 'usuario@usuario-miguel-SRI: ~' with a dark background. The user has executed the following commands:

```
usuario@usuario-miguel-SRI:~$ sudo nano /etc/dhcp/dhcpd.conf
usuario@usuario-miguel-SRI:~$ sudo systemctl restart isc-dhcp-server
usuario@usuario-miguel-SRI:~$ sudo systemctl status isc-dhcp-server
```

The output of the status command shows the service is active and running:

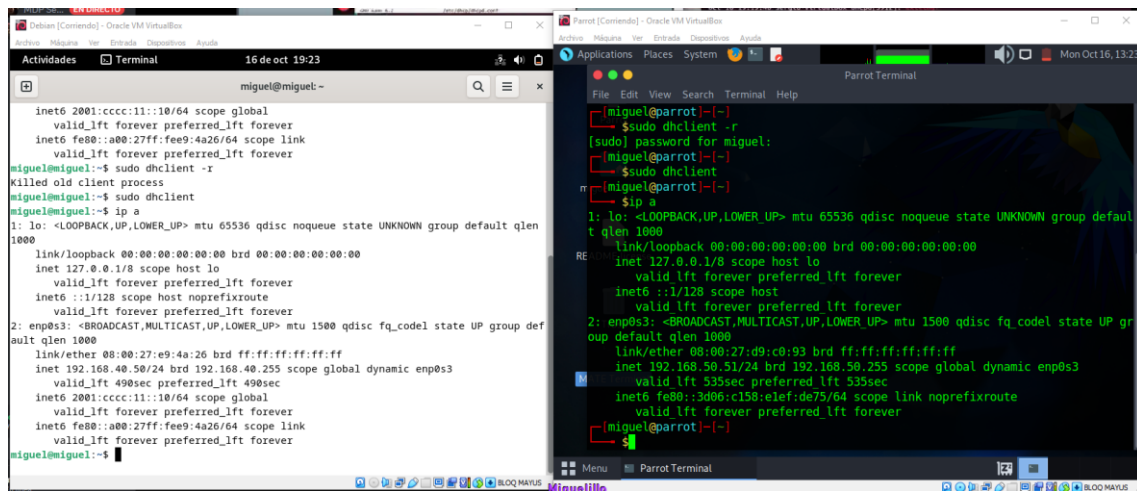
```
● isc-dhcp-server.service - ISC DHCP IPv4 server
   Loaded: loaded (/lib/systemd/system/isc-dhcp-server.service; enabled; vendor preset: enabled)
   Active: active (running) since Mon 2023-10-16 19:49:47 CEST; 2s ago
     Docs: man:dhcpd(8)
    Main PID: 2966 (dhcpd)
      Tasks: 4 (limit: 2255)
    Memory: 5.2M
       CPU: 12ms
    CGroup: /system.slice/isc-dhcp-server.service
            └─2966 dhcpd -user dhcpd -group dhcpd -f -4 -pf /run/dhcp-server/dhcpd.pid -cf /etc/dhcp/
```

Below this, a series of log messages from the dhcpd daemon are shown, indicating it has written leases, is listening on the network interface, and is sending packets to the fallback network.

```
oct 16 19:49:47 usuario-miguel-SRI dhcpd[2966]: PID file: /run/dhcp-server/dhcpd.pid
oct 16 19:49:47 usuario-miguel-SRI dhcpd[2966]: Wrote 4 leases to leases file.
oct 16 19:49:47 usuario-miguel-SRI sh[2966]: Wrote 4 leases to leases file.
oct 16 19:49:47 usuario-miguel-SRI dhcpd[2966]: Listening on LPF/enp0s3/08:00:27:6d:84:a8/segunda-red
oct 16 19:49:47 usuario-miguel-SRI sh[2966]: Listening on LPF/enp0s3/08:00:27:6d:84:a8/segunda-red
oct 16 19:49:47 usuario-miguel-SRI sh[2966]: Sending on LPF/enp0s3/08:00:27:6d:84:a8/segunda-red
oct 16 19:49:47 usuario-miguel-SRI sh[2966]: Sending on Socket/fallback/fallback-net
oct 16 19:49:47 usuario-miguel-SRI dhcpd[2966]: Sending on LPF/enp0s3/08:00:27:6d:84:a8/segunda-red
oct 16 19:49:47 usuario-miguel-SRI dhcpd[2966]: Sending on Socket/fallback/fallback-net
oct 16 19:49:47 usuario-miguel-SRI dhcpd[2966]: Server starting service.
```

The terminal window also shows the file manager icon on the left and the system clock at the bottom right indicating 17% battery.

Comprobación



Capturando desde - [Ubuntu-1 Ethernet0 to Switch1 Ethernet0]

Archivo Edición Visualización Ir Captura Analizar Estadísticas Telefonía Wireless Herramientas Ayuda

Aplique un filtro de visualización ... <Ctrl-/>

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000	192.168.40.50	8.8.8.8	DNS	81	Standard query 0xfab5 A 1
1005	345.274436	192.168.40.1	192.168.50.51	DHCP	342	DHCP ACK - Transacti
1004	345.265935	0.0.0.0	255.255.255.255	DHCP	342	DHCP Request - Transacti
1003	345.264884	192.168.40.1	192.168.50.51	DHCP	342	DHCP Offer - Transacti
1002	344.262271	0.0.0.0	255.255.255.255	DHCP	342	DHCP Discover - Transacti
926	318.250802	192.168.40.1	192.168.40.50	DHCP	342	DHCP ACK - Transacti
925	318.240175	192.168.40.50	192.168.40.1	DHCP	342	DHCP Request - Transacti
741	252.343720	192.168.40.1	192.168.50.50	DHCP	342	DHCP ACK - Transacti
740	252.333021	0.0.0.0	255.255.255.255	DHCP	332	DHCP Request - Transacti
199	90.843684	192.168.40.1	192.168.40.51	DHCP	342	DHCP ACK - Transacti
198	90.833637	0.0.0.0	255.255.255.255	DHCP	374	DHCP Request - Transacti
197	90.832066	192.168.40.1	192.168.40.51	DHCP	342	DHCP Offer - Transacti
196	90.831000	0.0.0.0	255.255.255.255	DHCP	348	DHCP Discover - Transacti
194	89.013357	192.168.40.51	192.168.40.1	DHCP	342	DHCP Release - Transacti
177	83.350547	192.168.40.1	192.168.40.50	DHCP	342	DHCP ACK - Transacti
176	83.337419	0.0.0.0	255.255.255.255	DHCP	342	DHCP Request - Transacti
175	83.333701	192.168.40.1	192.168.40.50	DHCP	342	DHCP Offer - Transacti

< >

> Frame 1005: 342 bytes on wire (2736 bits), 342 bytes captured (2736 bits) on interface 0

> Ethernet II, Src: PcsCompu_6d:84:a8 (08:00:27:6d:84:a8), Dst: 01:00:5e:10:c0:a8

> Internet Protocol Version 4, Src: 192.168.40.1, Destination: 192.168.50.51

> User Datagram Protocol, Src Port: 67, Dst Port: 68

> Dynamic Host Configuration Protocol (ACK)

0000 08 00 27 d9 c0 93 08 00 27 6d 84 a8 08 00 00 00

0010 01 48 00 00 00 00 00 11 5e 10 c0 a8 08 01 00 00

0020 32 33 00 43 00 44 01 34 49 07 02 01 06 00 00 00

0030 6c 13 00 00 00 00 00 00 00 00 c0 a8 32 33 00 00

0040 28 01 00 00 00 00 08 00 27 d9 c0 93 00 00 00 00

0050 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

0060 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

0070 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

0080 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

0090 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

00a0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

00b0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

00c0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

00d0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

00e0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

00f0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

0100 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

0110 00 00 00 00 00 00 63 82 53 63 35 01 05 36 00 00

0120 a8 28 01 33 04 00 00 02 58 01 04 ff ff ff ff 00 00

0130 04 c0 a8 28 01 0f 0b 65 78 61 6d 70 6c 65 2d 00 00

< >

Preparado para cargar o capturar

Paquetes: 1698 · Mostrado: 1698 (100.0%) Perfil: Default