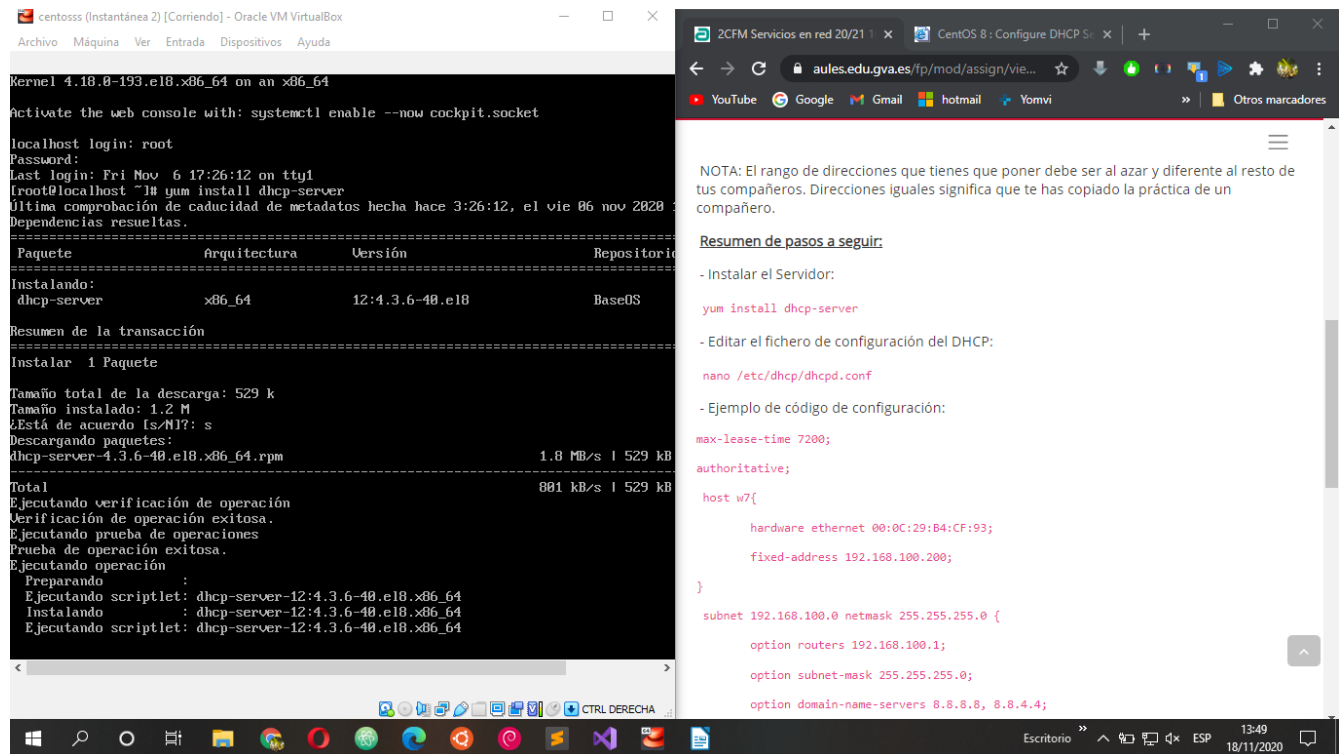


Paso 1: Instalación del servidor DHCP



The screenshot shows a CentOS 8 terminal window on the left and a web browser on the right. The terminal displays the installation of the DHCP server using yum. The web browser shows a page with instructions for configuring the DHCP server.

Terminal Output:

```
Kernel 4.18.0-193.el8.x86_64 on an x86_64
Activate the web console with: systemctl enable --now cockpit.socket

localhost login: root
Password:
Last login: Fri Nov 6 17:26:12 on tty1
[root@localhost ~]# yum install dhcp-server
Ultima comprobación de caducidad de metadatos hecha hace 3:26:12, el vie 06 nov 2020
Dependencias resueltas.
=====
Paquete      Arquitectura  Versión      Repositorio
=====
Instalando:
dhcp-server  x86_64        12:4.3.6-40.el8  BaseOS
=====
Resumen de la transacción
=====
Instalar 1 Paquete
=====
Tamaño total de la descarga: 529 k
Tamaño instalado: 1.2 M
¿Está de acuerdo [s/N]? s
Descargando paquetes:
dhcp-server-4.3.6-40.el8.x86_64.rpm                1.8 MB/s | 529 kB
Total                                               801 kB/s | 529 kB
Ejecutando verificación de operación
Verificación de operación exitosa.
Ejecutando prueba de operaciones
Prueba de operación exitosa.
Ejecutando operación
Preparando
Ejecutando scriptlet: dhcp-server-12:4.3.6-40.el8.x86_64
Instalando
Ejecutando scriptlet: dhcp-server-12:4.3.6-40.el8.x86_64
```

Web Browser Content:

NOTA: El rango de direcciones que tienes que poner debe ser al azar y diferente al resto de tus compañeros. Direcciones iguales significa que te has copiado la práctica de un compañero.

Resumen de pasos a seguir:

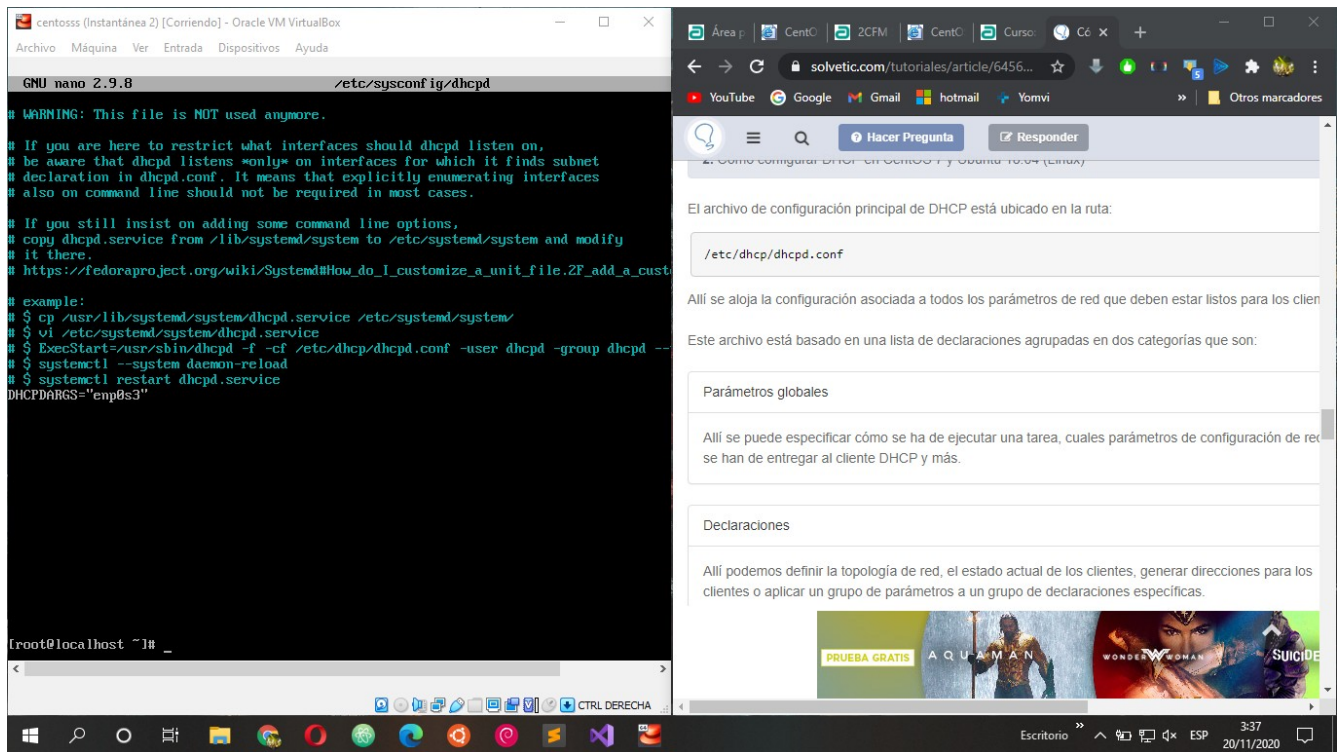
- Instalar el Servidor:
`yum install dhcp-server`
- Editar el fichero de configuración del DHCP:
`nano /etc/dhcp/dhcpd.conf`
- Ejemplo de código de configuración:

```
max-lease-time 7200;
authoritative;

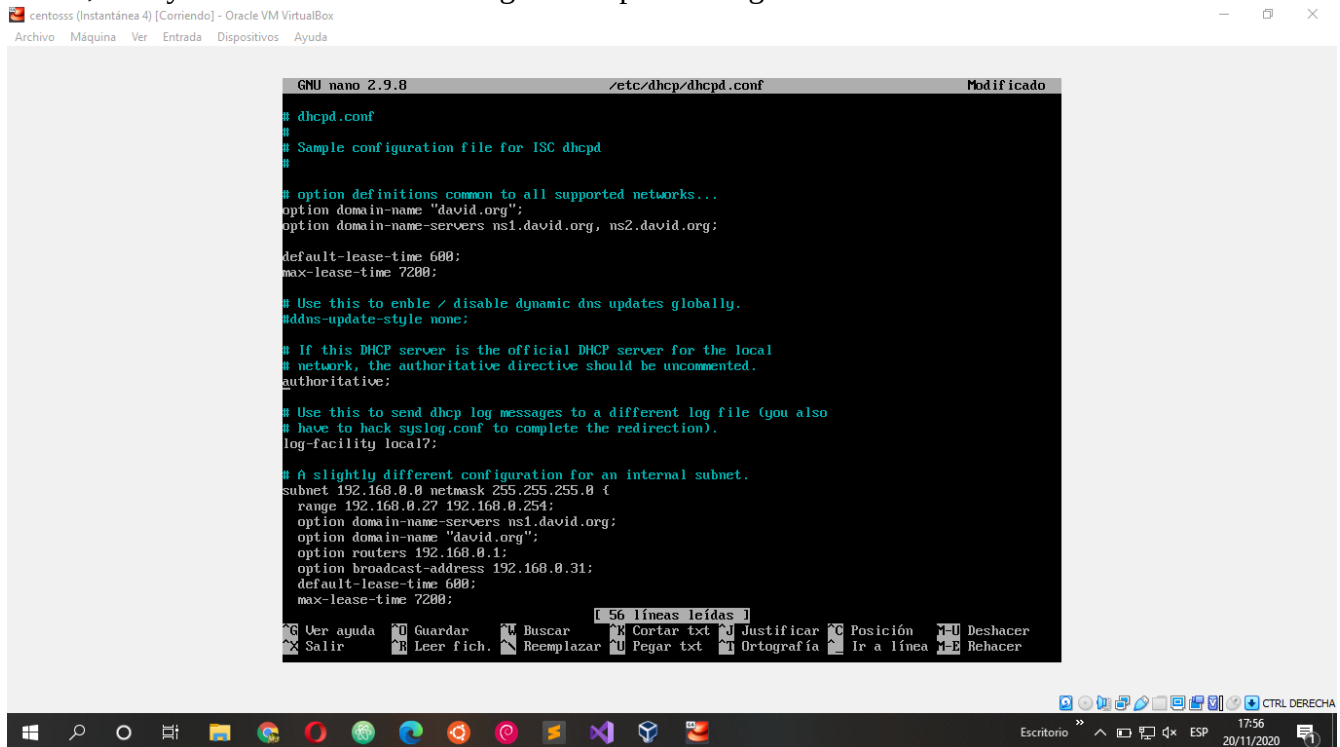
host w7{
    hardware ethernet 00:0C:29:B4:CF:93;
    fixed-address 192.168.100.200;

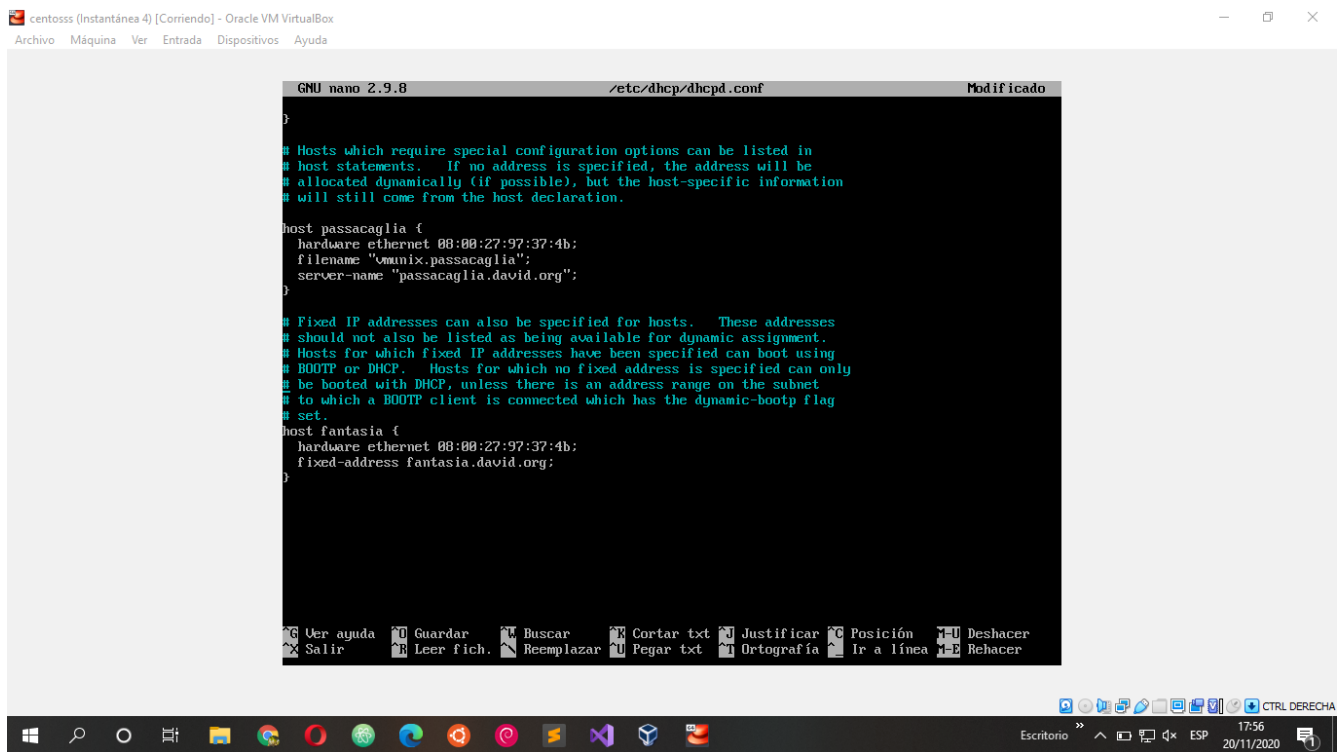
    subnet 192.168.100.0 netmask 255.255.255.0 {
        option routers 192.168.100.1;
        option subnet-mask 255.255.255.0;
        option domain-name-servers 8.8.8.8, 8.8.4.4;
    }
}
```

Paso 2: Una vez que se complete la instalación, configure la interfaz en la que desea que el daemon DHCP sirva las solicitudes en el archivo de configuración `/etc/default/isc-dhcp-server` o `/etc/sysconfig/dhcpd`.



Ahora, abra y edite el archivo de configuración para configurar su servidor DHCP.





```
GNU nano 2.9.8 /etc/dhcp/dhcpd.conf Modificado
}

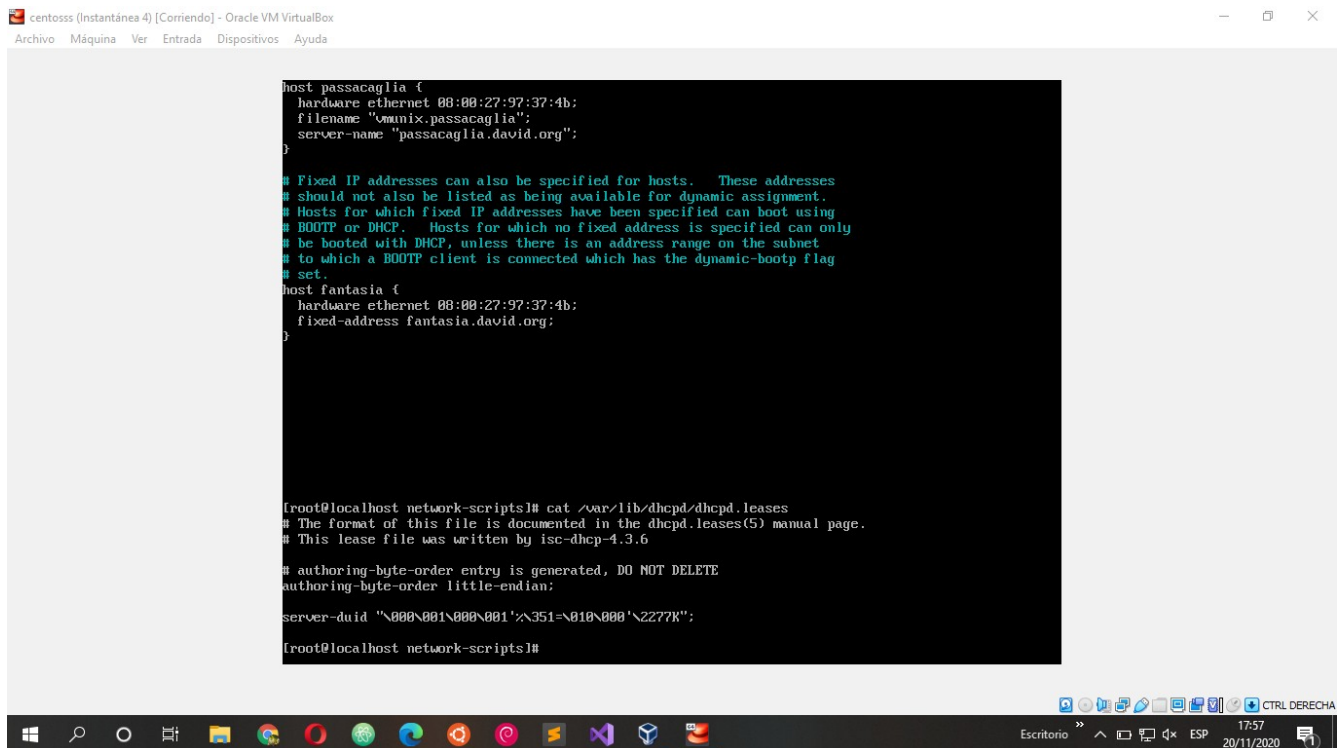
# Hosts which require special configuration options can be listed in
# host statements.  If no address is specified, the address will be
# allocated dynamically (if possible), but the host-specific information
# will still come from the host declaration.

host passacaglia {
    hardware ethernet 08:00:27:97:37:4b;
    filename "vmunix.passacaglia";
    server-name "passacaglia.david.org";
}

# Fixed IP addresses can also be specified for hosts.  These addresses
# should not also be listed as being available for dynamic assignment.
# Hosts for which fixed IP addresses have been specified can boot using
# BOOTP or DHCP.  Hosts for which no fixed address is specified can only
# be booted with DHCP, unless there is an address range on the subnet
# to which a BOOTP client is connected which has the dynamic-bootp flag
# set.
host fantasia {
    hardware ethernet 08:00:27:97:37:4b;
    fixed-address fantasia.david.org;
}

Ver ayuda  Guardar  Buscar  Cortar txt  Justificar  Posición  Deshacer
Salir  Leer fich.  Reemplazar  Pegar txt  Ortografía  Ir a línea  Rehacer
```

Ahora que ha configurado su demonio del servidor DHCP , debe iniciar el servicio por el tiempo medio y habilitarlo para que se inicie automáticamente desde el próximo inicio del sistema, y verificar si está funcionando correctamente usando los siguientes comandos.



```
host passacaglia {
    hardware ethernet 08:00:27:97:37:4b;
    filename "vmunix.passacaglia";
    server-name "passacaglia.david.org";
}

# Fixed IP addresses can also be specified for hosts.  These addresses
# should not also be listed as being available for dynamic assignment.
# Hosts for which fixed IP addresses have been specified can boot using
# BOOTP or DHCP.  Hosts for which no fixed address is specified can only
# be booted with DHCP, unless there is an address range on the subnet
# to which a BOOTP client is connected which has the dynamic-bootp flag
# set.
host fantasia {
    hardware ethernet 08:00:27:97:37:4b;
    fixed-address fantasia.david.org;
}

[root@localhost network-scripts]# cat /var/lib/dhcpd/dhcpd.leases
# The format of this file is documented in the dhcpd.leases(5) manual page.
# This lease file was written by isc-dhcp-4.3.6

# authoring-byte-order entry is generated, DO NOT DELETE
authoring-byte-order little-endian;

server-uid "\000\001\000\001'\x351-\010\000'\x2277K";

[root@localhost network-scripts]#
```

A continuación, permita las solicitudes al demonio DHCP en Firewall, que escucha en el puerto 67/UDP , al ejecutar.

```
centos8 (Instantánea 4) [Corriendo] - Oracle VM VirtualBox
Archivo  Máquina  Ver  Entrada  Dispositivos  Ayuda

[root@localhost network-scripts]# cat /var/lib/dhcpd/dhcpd.leases
# The format of this file is documented in the dhcpd.leases(5) manual page.
# This lease file was written by isc-dhcp-4.3.6

# authoring-byte-order entry is generated, DO NOT DELETE
authoring-byte-order little-endian;

server-uid "\000\001\000\001'\x351-\010\000'\x2277K";

[root@localhost network-scripts]# systemctl start dhcpd
[root@localhost network-scripts]# systemctl status dhcpd
● dhcpd.service - DHCPv4 Server Daemon
   Loaded: loaded (/usr/lib/systemd/system/dhcpd.service; enabled; vendor preset: disabled)
   Active: active (running) since Fri 2020-10-23 15:19:25 EDT; 28min ago
     Docs: man:dhcpd(8)
           man:dhcpd.conf(5)
   Main PID: 23889 (dhcpd)
   Status: "Dispatching packets..."
     Tasks: 1 (limit: 23961)
    Memory: 5.3M
   CGroup: /system.slice/dhcpd.service
           └─23889 /usr/sbin/dhcpd -f -cf /etc/dhcp/dhcpd.conf -user dhcpd -group dhcpd --no-pid en

oct 23 15:19:13 localhost.localdomain dhcpd[23889]: Wrote 0 class decls to leases file.
oct 23 15:19:13 localhost.localdomain dhcpd[23889]: Wrote 0 deleted host decls to leases file.
oct 23 15:19:13 localhost.localdomain dhcpd[23889]: Wrote 0 new dynamic host decls to leases file.
oct 23 15:19:13 localhost.localdomain dhcpd[23889]: Wrote 0 leases to leases file.
oct 23 15:19:25 localhost.localdomain dhcpd[23889]: Listening on LPF/emp0s3/08:00:27:97:37:4b/192.1
oct 23 15:19:25 localhost.localdomain dhcpd[23889]: Sending on LPF/emp0s3/08:00:27:97:37:4b/192.1
oct 23 15:19:25 localhost.localdomain dhcpd[23889]: Sending on Socket/fallback/fallback-net
oct 23 15:19:25 localhost.localdomain dhcpd[23889]: Server starting service.
oct 23 15:19:25 localhost.localdomain systemd[1]: Started DHCPv4 Server Daemon.
oct 23 15:27:09 localhost.localdomain dhcpd[23889]: DHCPREQUEST for 192.168.0.112 from 08:00:27:97:3
lines 1-22/22 (END)
```

```
centos8 (Instantánea 4) [Corriendo] - Oracle VM VirtualBox
Archivo  Máquina  Ver  Entrada  Dispositivos  Ayuda

Docs: man:dhcpd(8)
      man:dhcpd.conf(5)
Main PID: 23889 (dhcpd)
Status: "Dispatching packets..."
Tasks: 1 (limit: 23961)
Memory: 5.3M
CGroup: /system.slice/dhcpd.service
        └─23889 /usr/sbin/dhcpd -f -cf /etc/dhcp/dhcpd.conf -user dhcpd -group dhcpd --no-pid en

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oct 23 15:19:13 localhost.localdomain dhcpd[23889]: Wrote 0 deleted host decls to leases file.
oct 23 15:19:13 localhost.localdomain dhcpd[23889]: Wrote 0 new dynamic host decls to leases file.
oct 23 15:19:13 localhost.localdomain dhcpd[23889]: Wrote 0 leases to leases file.
oct 23 15:19:25 localhost.localdomain dhcpd[23889]: Listening on LPF/emp0s3/08:00:27:97:37:4b/192.1
oct 23 15:19:25 localhost.localdomain dhcpd[23889]: Sending on LPF/emp0s3/08:00:27:97:37:4b/192.1
oct 23 15:19:25 localhost.localdomain dhcpd[23889]: Sending on Socket/fallback/fallback-net
oct 23 15:19:25 localhost.localdomain dhcpd[23889]: Server starting service.
oct 23 15:19:25 localhost.localdomain systemd[1]: Started DHCPv4 Server Daemon.
oct 23 15:27:09 localhost.localdomain dhcpd[23889]: DHCPREQUEST for 192.168.0.112 from 08:00:27:97:3

[32]• Detenido          systemctl status dhcpd
[root@localhost network-scripts]# systemctl enable --now dhcpd
[root@localhost network-scripts]# firewall-cmd --add-service=dhcp --permanent
Warning: ALREADY_ENABLED: dhcp
success
[root@localhost network-scripts]# firewall-cmd --reload
success
[root@localhost network-scripts]# cat /var/lib/dhcpd/dhcpd.leases
# The format of this file is documented in the dhcpd.leases(5) manual page.
# This lease file was written by isc-dhcp-4.3.6

# authoring-byte-order entry is generated, DO NOT DELETE
authoring-byte-order little-endian;

server-uid "\000\001\000\001'\x351-\010\000'\x2277K";

[root@localhost network-scripts]# _
```

```
[root@localhost network-scripts]# cat /var/lib/dhcpd/dhcpd.leases
# The format of this file is documented in the dhcpd.leases(5) manual page.
# This lease file was written by isc-dhcp-4.3.6

# authoring-byte-order entry is generated, DO NOT DELETE
authoring-byte-order little-endian;

server-uid "\000\001\000\001'\^351=\010\000'\2277K";

[root@localhost network-scripts]# _
```