

# Instalación de servicio DHCP en Ubuntu



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# Planificación de nuestra red

- Máscara de red: 255.255.255.0
- Dirección de Broadcast: 192.168.7.255
- Gateway: 192.168.7.1
- Rango de direcciones por DHCP: 192.168.7.160 al 192.168.7.170
- Dirección de red de nuestro servidor DHCP: 192.168.7.157
- IP reservada: 192.168.7.158 con dirección MAC 08-00-27-B5-DA-88 y 192.168.7.159 con dirección MAC B8-EE-65-08-39-3B
- Servidores DNS: Se utilizara la configuración por defecto del archivo `/etc/resolv.conf` donde diga nameserver



# Instalación y configuración de servicio DHCP

- Primero nos aseguramos de que el servidor tiene una IP fija.

comando

```
sudo nano /etc/network/interfaces _
```

```
iface eth0 inet static
    address 192.168.7.157
    netmask 255.255.255.0
    gateway 192.168.7.1
    dns-nameservers 8.8.8.8
```



# Instalación de servicio DHCP

comando

```
sudo apt-get install dhcp3-server
```

- Aceptamos la instalación del servicio

```
¿Desea continuar [S/n]?
```



# Configuración de interfaz de red que vamos a usar

comando

```
sudo nano /etc/default/isc-dhcp-server_
```



# Configuración de interfaz de red que vamos a usar

INTERFACES=""

```
# Defaults for dhcp initscript
# sourced by /etc/init.d/dhcp
# installed at /etc/default/isc-dhcp-server by the maintainer scripts
#
# This is a POSIX shell fragment
#
# On what interfaces should the DHCP server (dhcpd) serve DHCP requests?
#   Separate multiple interfaces with spaces, e.g. "eth0 eth1".
INTERFACES=""
```



# Configuración de interfaz de red que vamos a usar

`INTERFACES="eth0"`

```
# Defaults for dhcp initscript
# sourced by /etc/init.d/dhcp
# installed at /etc/default/isc-dhcp-server by the maintainer scripts
#
# This is a POSIX shell fragment
#
# On what interfaces should the DHCP server (dhcpd) serve DHCP requests?
#   Separate multiple interfaces with spaces, e.g. "eth0 eth1".
INTERFACES="eth0"
```



# Archivo de configuración dhcpd.config

comando

```
sudo nano /etc/dhcp/dhcpd.conf
```





# Archivo de configuración dhcpd.config

```
#subnet 10.5.5.0 netmask 255.255.255.224 {
#   range 10.5.5.26 10.5.5.30;
#   option domain-name-servers ns1.internal.example.org;
#   option domain-name "internal.example.org";
#   option routers 10.5.5.1;
#   option broadcast-address 10.5.5.31;
#   default-lease-time 600;
#   max-lease-time 7200;
#}

# 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 0:0:c0:5d:bd:95;
#   filename "vmunix.passacaglia";
#   server-name "toccata.fugue.com";
#}

# 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
```



# Archivo de configuración dhcpd.config

```
subnet 192.168.7.0 netmask 255.255.255.0 {
    range 192.168.7.210 192.168.7.220;
    option domain-name-servers 192.168.7.221;
    option domain-name "dauiddemaya.local";
    option routers 192.168.7.222;
    option broadcast-address 192.168.7.255;
    default-lease-time 600;
    max-lease-time 7200;
}

# 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 pc01 {
    hardware ethernet 0:0:c0:5d:bd:95;
    fixed-address 192.168.7.158;
}

host pc02 {
    hardware ethernet 08:00:27:B5:DA:88;
    fixed-address 192.168.7.159;
}
```



# Archivo de configuración dhcpd.config tiempo de concesión ilimitado

```
subnet 192.168.7.0 netmask 255.255.255.0 {
    range 192.168.7.210 192.168.7.220;
    option domain-name-servers 192.168.7.221;
    option domain-name dauiddemaya.local;
    option routers 192.168.7.222;
    option broadcast-address 192.168.7.255;
    default-lease-time -1;
    max-lease-time -1;
}

# 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 pc01 {
    hardware ethernet 0:0:c0:5d:bd:95;
    fixed-address 192.168.7.158;
}
host pc02 {
    hardware ethernet 08:00:27:B5:DA:88;
    fixed-address 192.168.7.159;
}
```



# Reiniciar el servicio de DHCP

comando

```
sudo /etc/init.d/isc-dhcp-server start
```

