

# 1 Configuración de DHCP Server en Debian

## 1.1 Teoría de DHCP

### Servizo\_DHCP

#### 1.1.1 Instalación de DHCP3

- Atención si estamos trabajando en una red con VLAN y el servidor DHCP está fuera del alcance de nuestra VLAN, necesitaremos configurar en el switch que gestiona la VLAN un IP\_Helper para redireccionar las peticiones DHCP al servidor DHCP central.

- Instalar dhcp3-server:

```
# Para instalarlo:
apt-get install dhcp3-server

# Los ficheros de configuración se encuentran en:
/etc/dhcp3/ y /etc/default/isc-dhcp-server
```

- Editar el fichero /etc/default/isc-dhcp-server para indicar la interfaz de escucha del DHCP:

```
nano /etc/default/isc-dhcp-server

# 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"
```

- Ejemplo del fichero por defecto /etc/dhcp/dhcpd.conf:

```
#
# Sample configuration file for ISC dhcpd for Debian
#
#
# The ddns-updates-style parameter controls whether or not the server will
# attempt to do a DNS update when a lease is confirmed. We default to the
# ddns-update-style none;

# option definitions common to all supported networks...
option domain-name "example.org";
option domain-name-servers ns1.example.org, ns2.example.org;

default-lease-time 600;
max-lease-time 7200;

# If this DHCP server is the official DHCP server for the local
# network, the authoritative directive should be uncommented.
#authoritative;

# Use this to send dhcp log messages to a different log file (you also
# have to hack syslog.conf to complete the redirection).
log-facility local7;

# No service will be given on this subnet, but declaring it helps the
# DHCP server to understand the network topology.

#subnet 10.152.187.0 netmask 255.255.255.0 {
#}

# This is a very basic subnet declaration.
```

```

#subnet 10.254.239.0 netmask 255.255.255.224 {
#   range 10.254.239.10 10.254.239.20;
#   option routers rtr-239-0-1.example.org, rtr-239-0-2.example.org;
#}

# This declaration allows BOOTP clients to get dynamic addresses,
# which we dont really recommend.

#subnet 10.254.239.32 netmask 255.255.255.224 {
#   range dynamic-bootp 10.254.239.40 10.254.239.60;
#   option broadcast-address 10.254.239.31;
#   option routers rtr-239-32-1.example.org;
#}

# A slightly different configuration for an internal subnet.
#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
# 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 08:00:07:26:c0:a5;
#   fixed-address fantasia.fugue.com;
#}

# You can declare a class of clients and then do address allocation
# based on that.  The example below shows a case where all clients
# in a certain class get addresses on the 10.17.224/24 subnet, and all
# other clients get addresses on the 10.0.29/24 subnet.

#class "foo" {
#   match if substring (option vendor-class-identifier, 0, 4) = "SUNW";
#}

#shared-network 224-29 {
#   subnet 10.17.224.0 netmask 255.255.255.0 {
#       option routers rtr-224.example.org;
#   }
#   subnet 10.0.29.0 netmask 255.255.255.0 {
#       option routers rtr-29.example.org;
#   }
#   pool {
#       allow members of "foo";
#       range 10.17.224.10 10.17.224.250;
#   }
#   pool {
#       deny members of "foo";
#       range 10.0.29.10 10.0.29.230;
#   }
#}

```

- **Fichero de logs del dhcp server:**

Se encuentra en /var/log/syslog

- Para iniciar / parar el servicio DHCP:

```
service isc-dhcp-server start | stop | status
```

--Veiga 20:04 1 oct 2012 (CEST)