

## Software richiesto

**HW: 2 nic device Sistema operativo:** Ubuntu server 17.10

```
apt install bash debootstrap schroot syslinux nfs-kernel-server tftpd-hpa  
xorriso pigz zfsutils-linux
```

**software facoltativo ma usato nel test**

```
apt install isc-dhcp-server
```

## DHCP

### Abilitare dhcpd su specifica scheda

Editare la riga in

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

```
INTERFACESv4="ens3"
```

### Configurazione dhcpd

editare il file `/etc/dhcp/dhcpd.conf` al termine `service isc-dhcp-service restart`

```
ddns-update-style none;  
authoritative;  
  
option domain-name          "livenet";  
option domain-name-servers  8.8.8.8;  
  
allow bootp;  
allow booting;  
  
option space PXE;  
# Code 1: Multicast IP address of bootfile  
option PXE.mtftp-ip code 1 = ip-address;  
# Code 2: UDP port that client should monitor for MTFTP responses  
option PXE.mtftp-cport code 2 = unsigned integer 16;  
# Code 3: UDP port that MTFTP servers are using to listen for MTFTP requests  
option PXE.mtftp-sport code 3 = unsigned integer 16;  
# Code 4: Number of secondes a client must listen for activity before trying  
#         to start a new MTFTP transfer  
option PXE.mtftp-tmout code 4 = unsigned integer 8;  
option PXE.mtftp-delay code 5 = unsigned integer 8;  
# Code 5: Number of secondes a client must listen before trying to restart
```

```
#      a MTFTP transfer
option PXE.discovery-control code 6 = unsigned integer 8;
option PXE.discovery-mcast-addr code 7 = ip-address;
set vendor-string = option vendor-class-identifier;

class "PXE" {
    match if substring(option vendor-class-identifier, 0, 9) = "PXEClient";
    option vendor-class-identifier "PXEClient";
    vendor-option-space PXE;
    option PXE.mtftp-ip 0.0.0.0;
}

class "Etherboot" {
    match if substring(option vendor-class-identifier, 0, 9) = "Etherboot";
    option vendor-class-identifier "Etherboot";
    vendor-option-space PXE;
    option PXE.mtftp-ip 0.0.0.0;
}

class "LIVENET" {
    match if (substring(option vendor-class-identifier,0,7) = "LIVENET") or
(substring(option vendor-class-identifier,0,9) = "PXEClient") or
(substring(option vendor-class-identifier,0,9) = "Etherboot");
    log ( info, "Packet from PXE or LIVENET client");
}

shared-network "clients" {
    subnet 10.1.22.0 netmask 255.255.255.0 {
        option subnet-mask 255.255.255.0;
        option routers 10.1.22.2;
        #default-lease-time 28800;
        #max-lease-time 86400;

        pool {
            # restringe il lease solo alla classe LIVENET
            allow members of "LIVENET";
            range 10.1.22.10 10.1.22.100;
            filename "/pxelinux.0";
            next-server 10.1.22.2;
        }
    }
}
```

From:

<https://wiki.csgalileo.org/> - **Galileo Labs**

Permanent link:

<https://wiki.csgalileo.org/projects/livenet/server?rev=1520893945>

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