

# DNS

[linux](#), [tcpip](#), [dns](#)

## related

- [DNS y funcionamiento](#)
- [dnsmasq](#)
- [bind9](#)
- [127.0.0.1 VS 127.0.1.1](#)
- <https://www.dns0.eu/>
- <https://one.one.one.one/>

## direct

- esbrinar qui gestiona les dades de xarxa (netplan)
- aplicar els canvis (networkmanager en desktops)

## DNS populars

- Cloudflare DNS (1.1.1.1, 1.0.0.1)
- OpenDNS (208.67.222.222, 208.67.220.220)
- Google Public DNS (8.8.8.8, 8.8.4.4)

## configuració DNS

- interfície de xarxa:

```
ip a
ifconfig -a
```

## search

Search domain means the domain that will be automatically appended when you only use the hostname for a particular host or computer. This is basically used in a local network.

[/etc/network/interfaces](#)

```
dns-search xyz.com ##If you put this into /etc/network/interfaces<code>
<code>properties>search xyz.com ##If you put this into
/etc/resolvconf/resolv.conf.d/base|head|tail
```

```
host test
test.xyz.com has address 192.168.1.5
```

```
nslookup test
Server:      192.168.1.11
```

```
Address: 192.168.1.11#53
```

```
Name: test.xyz.com
```

```
Address: 192.168.1.5
```

/via: <https://askubuntu.com/questions/584054/how-do-i-configure-the-search-domain-correctly>

## resolv.conf

- /etc/resolv.conf es symlink de fichero generado dinámicamente
- /etc/resolvconf/resolv.conf.d/head añade al principio de /etc/resolv.conf
- se gestiona a través de **systemd-resolved** → /etc/systemd/resolved.conf
- /etc/systemctl/resolved.conf
- /etc/resolv.conf
  - no recomanat, sobreescrit per NetworkManager
  - nameserver 8.8.8.8
  - nameserver 8.8.4.4

```
nameserver 8.8.8.8
nameserver 8.8.4.4
```

- /etc/hosts:

```
78.47.249.138 wiki.fidmag.org
```

- resolvectl status

- llistat DNS:

```
resolvectl --list
```

- actualitzar canvis pendents:

```
resolvectl --enable-updates
```

- interfície responet:

```
resolvectl -i
```

- update files:

```
resolvectl -u
```

## netplan (servers)

- identificar el netplan fet servir:

```
cat /etc/netplan/01-network-manager-all.yaml
```

- NetworkManager

```
# Let NetworkManager manage all devices on this system
network:
  version: 2
```

```
renderer: NetworkManager
```

- DHCP

```
network:
  version: 2
  ethernets:
    eth0:
      dhcp4: true
      nameservers:
        addresses: [8.8.8.8, 8.8.4.4]
```

- IP-fija

```
network:
  version: 2
  ethernets:
    eth0:
      dhcp4: false
      addresses: [192.168.1.10/24]
      gateway4: 192.168.1.1
      nameservers:
        addresses: [208.67.222.222, 208.67.220.220]
```

- aplicar:

```
sudo netplan apply
sudo netplan generate # si problemas y repetir apply
```

## NetworkManager

- Interfície gràfica
- després d'aplicar canvis, reiniciar o:

```
sudo systemctl restart NetworkManager
```

## nmcli

- nmcli

- nmcli connection show

- nmcli device show eno1

## comandos (OLD)

- NO:

```
systemctl status systemd-resolved.service
```

- clear DNS debian:

```
sudo systemd-resolve --flush-caches
```

- full config?:

```
systemd-analyze cat-config systemd/resolved.conf
```

From:

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