

# DNS

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

## related

- [DNS y funcionamiento](#)
- [dnsmasq](#)
- [bind9](#)
- <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
```

## 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/systemct/resolved.conf`
- `/etc/resolv.conf`
  - no recomanat, sobreescrit per NetworkManager

```
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 responnent:

```
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
```

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