

Systemd-resolved

Systemd-resolved provides resolver services for Domain Name System (DNS).

Status

To check the DNS currently in use by systemd-resolved, run `resolvectl status`.

```
# resolvectl status
-----
Global
    Protocols: +LLMNR +mDNS -DNSOverTLS DNSSEC=no/unsupported
    resolv.conf mode: stub

Link 2 (eth0)
    Current Scopes: DNS LLMNR/IPv4 LLMNR/IPv6
    Protocols: +DefaultRoute +LLMNR -mDNS -DNSOverTLS
    DNSSEC=no/unsupported
    Current DNS Server: fd4a:66:67:a::1
    DNS Servers: fd4a:66:67:a::1
-----
```

Query

```
# resolvectl query www.oscardegroot.nl
-----
www.oscardegroot.nl: 2001:1c00:2e16:720a:2ff:b1ff:feaa:1202 -- link: eth0
                    84.31.73.82 -- link: eth0
                    (oscardegroot.nl)

-- Information acquired via protocol DNS in 3.5ms.
-- Data is authenticated: no; Data was acquired via local or encrypted
transport: no
-- Data from: network
-----
```

Configure

Supporting `/etc/resolv.conf`

To provide domain name resolution for software that reads `/etc/resolv.conf` directly, such as web

browsers, systemd-resolved has four different modes for handling the file—stub, static, uplink and foreign. They are described in systemd-resolved(8). The recommended mode, is the stub mode which uses /run/systemd/resolve/stub-resolv.conf. /run/systemd/resolve/stub-resolv.conf contains the local stub 127.0.0.53 as the only DNS server and a list of search domains. This is the recommended mode of operation that propagates the systemd-resolved managed configuration to all clients.

```
# ls -al resolv.conf

lrwxrwxrwx 1 root root 37 aug 13 07:27 resolv.conf ->
/run/systemd/resolve/stub-resolv.conf

# cat /run/systemd/resolve/stub-resolv.conf

nameserver 127.0.0.53
options edns0 trust-ad
search .
```

Automatically

systemd-resolved will work out of the box with a network manager using /etc/resolv.conf. No particular configuration is required since systemd-resolved will be detected by following the /etc/resolv.conf symlink.

Manually

The resolver can be configured by editing /etc/systemd/resolved.conf and/or drop-in .conf files in /etc/systemd/resolved.conf.d/

Links

- <https://wiki.archlinux.org/title/systemd-resolved>

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Last update: **2023/08/15 14:31**

