

Bind

Server

apt install bind9

Tip! Install the documentation:

apt install bind9-doc

xdg-open /usr/share/doc/bind9-doc/arm/index.html

Make sure /etc/bind/<FQDN>.db looks like this:

```
GNU nano 8.4 shenzen.worldskills.org.db
@      IN      SOA      orange-server.shenzen.worldskills.org. admin.shenzen.worldskills.org. (
                                2003080800
                                12h
                                15m
                                4d
                                2h
)

@      IN      NS      orange-server.shenzen.worldskills.org.
      IN      MX      10  mail.shenzen.worldskills.org.

shenzen-router      IN      A      10.1.100.1
orange-server       IN      A      10.1.10.10
green-client        IN      A      10.1.20.10
yellow-server-1     IN      A      10.1.30.11
yellow-server-2     IN      A      10.1.30.12
web                 IN      A      10.1.30.1
mail                IN      A      10.1.10.10
ldap                IN      A      10.1.10.10
```

And /etc/bind/<FQDN>.rev like this (for reverse lookup):

```
GNU nano 8.4 shenzen.worldskills.org.rev
@      IN      SOA      orange-server.shenzen.worldskills.org. admin.shenzen.worldskills.org. (
                                2003080800
                                12h
                                15m
                                4d
                                2h
)

@      IN      NS      orange-server.shenzen.worldskills.org.
      IN      MX      10  mail.shenzen.worldskills.org.

10.10  IN      PTR      orange-server.shenzen.worldskills.org.
1.20   IN      PTR      green-client.shenzen.worldskills.org.
11.30  IN      PTR      yellow-server-1.shenzen.worldskills.org.
12.30  IN      PTR      yellow-server-2.shenzen.worldskills.org.
1.30   IN      PTR      web.shenzen.worldskills.org.
1.100  IN      PTR      shenzen-router.shenzen.worldskills.org.
10.10  IN      PTR      mail.shenzen.worldskills.org.
10.10  IN      PTR      ldap.shenzen.worldskills.org.
```

And /etc/bind/named.conf.local like this (the following config also includes config for zone forwarding):

```

GNU nano 8.4
//
// Do any local configuration here
//
zone "shenzhen.worldskills.org" {
    type primary;
    allow-query { any; };
    file "/etc/bind/shenzhen.worldskills.org.db";
};

zone "1.10.in-addr.arpa" {
    type primary;
    file "/etc/bind/shenzhen.worldskills.org.rev";
};

zone "shanghai.worldskills.org" {
    type forward;
    forward only;
    forwarders { 10.101.1.2; };
};

zone "2.10.in-addr.arpa" {
    type forward;
    forward only;
    forwarders { 10.101.1.2; };
};

```

Once that is done:

`systemctl restart named`

If forwarding is needed this config also needs to be applied in `/etc/bind/named.conf.options`:

```

GNU nano 8.4
options {
    directory "/var/cache/bind";
    recursion yes;
    allow-recursion { any; };
    dnssec-validation no;
};

```

Client

Add “`dns-nameservers <IP>`” to relevant interface in `/etc/network/interfaces`

`apt install resolvconf`

`systemctl restart networking`