

Settingan DNS pada debian 9.5

1. Cek ip address dengan perintah **ip a**

```
niko@niko: ~  
root@niko:/home/niko# ip a  
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1  
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00  
    inet 127.0.0.1/8 scope host lo  
        valid_lft forever preferred_lft forever  
    inet6 ::1/128 scope host  
        valid_lft forever preferred_lft forever  
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000  
    link/ether 08:00:27:ff:50:c8 brd ff:ff:ff:ff:ff:ff  
    inet 12.12.12.120/24 brd 12.12.12.255 scope global enp0s3  
        valid_lft forever preferred_lft forever  
    inet6 fe80::a00:27ff:feff:50c8/64 scope link  
        valid_lft forever preferred_lft forever  
root@niko:/home/niko#
```

2. # nano /etc/apt/sources.list

Tambahkan beberapa baris alamat repository berikut kedalam file sources.list :

```
deb http://deb.debian.org/debian stretch main
```

```
deb-src http://deb.debian.org/debian stretch main
```

```
niko@niko: ~  
GNU nano 2.7.4 File: /etc/apt/sources.list  
#  
# deb cdrom:[Debian GNU/Linux 9.5.0 _Stretch_ - Official i386 DVD Binary-1 2018]$  
deb cdrom:[Debian GNU/Linux 9.5.0 _Stretch_ - Official i386 DVD Binary-1 201807]$  
deb http://security.debian.org/debian-security stretch/updates main contrib  
deb-src http://security.debian.org/debian-security stretch/updates main contrib  
# stretch-updates, previously known as 'volatile'  
# A network mirror was not selected during install. The following entries  
# are provided as examples, but you should amend them as appropriate  
# for your mirror of choice.  
#  
# deb http://deb.debian.org/debian/ stretch-updates main contrib  
# deb-src http://deb.debian.org/debian/ stretch-updates main contrib  
deb http://deb.debian.org/debian/ stretch main  
deb-src http://deb.debian.org/debian/ stretch main  
[ Read 20 lines ]  
^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify ^C Cur Pos  
^X Exit ^R Read File ^\ Replace ^U Uncut Text ^T To Spell ^_ Go To Line
```

apt-get update

3. apt-get install net-tools
4. Ifconfig

```
root@niko:/home/niko# ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 12.12.12.120 netmask 255.255.255.0 broadcast 12.12.12.255
    inet6 fe80::a00:27ff:feff:50c8 prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:ff:50:c8 txqueuelen 1000 (Ethernet)
    RX packets 270 bytes 24162 (23.5 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 244 bytes 34095 (33.2 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1 (Local Loopback)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 0 bytes 0 (0.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

root@niko:/home/niko#
```

5. root@niko:/home/niko# apt-get install bind9

```
root@niko:/etc/bind# apt-get install bind9
Reading package lists... Done
Building dependency tree
Reading state information... Done
bind9 is already the newest version (1:9.10.3.dfsg.P4-12.3+deb9u4).
0 upgraded, 0 newly installed, 0 to remove and 22 not upgraded.
root@niko:/etc/bind#
```

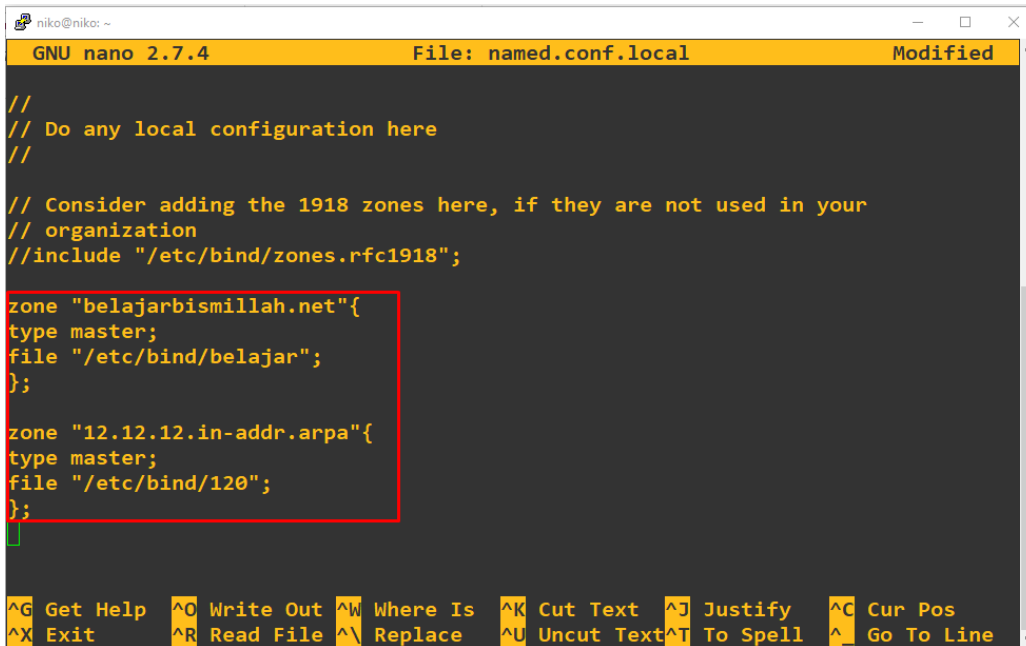
6. Pindah ke direktori bind : cd /etc/bind

```
niko@niko: ~
root@niko:/etc/bind# ls
bind.keys  db.127  db.empty  db.root  named.conf.default-zones  named.conf.op
db.0      db.255  db.local  named.conf  named.conf.local  rndc.key
root@niko:/etc/bind#
```

7. Masukkan nama zone yang diinginkan :

```
zone "belajarbismillah.net"{
type master;
file "/etc/bind/belajar";
};
```

```
zone "12.12.12.in-addr.arpa"{
type master;
file "/etc/bind/120";
};
```



The screenshot shows a terminal window with the nano editor open to the file named.conf.local. The editor's status bar at the top indicates 'GNU nano 2.7.4', 'File: named.conf.local', and 'Modified'. The main content area shows the following configuration:

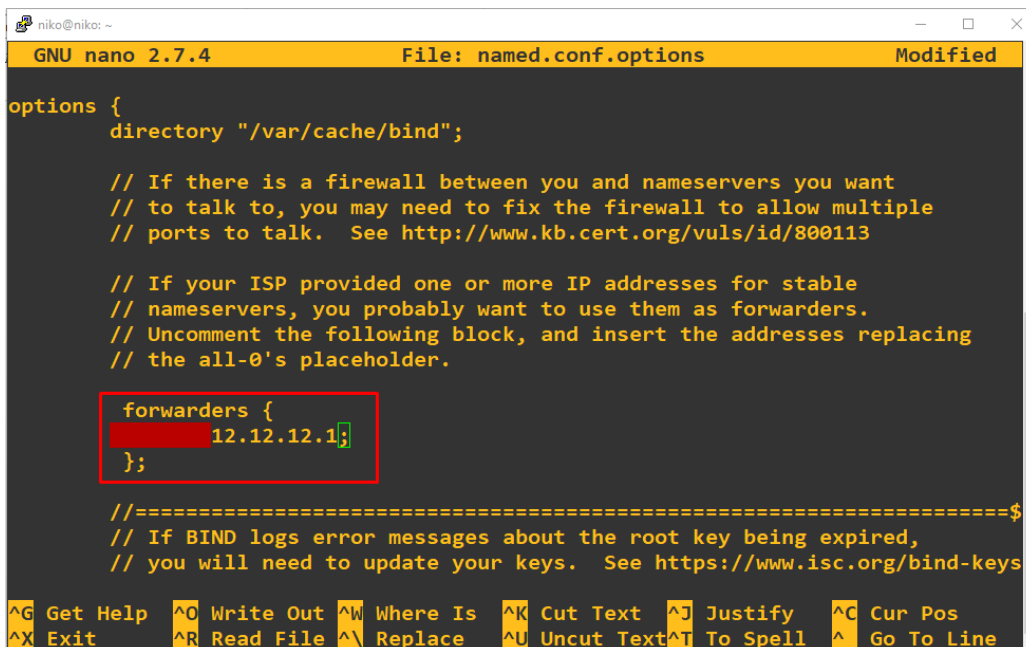
```
//
// Do any local configuration here
//
// Consider adding the 1918 zones here, if they are not used in your
// organization
//include "/etc/bind/zones.rfc1918";

zone "belajarbismillah.net"{
type master;
file "/etc/bind/belajar";
};

zone "12.12.12.in-addr.arpa"{
type master;
file "/etc/bind/120";
};
```

The configuration for the "12.12.12.in-addr.arpa" zone is highlighted with a red box. The bottom status bar of the nano editor shows various keyboard shortcuts: ^G Get Help, ^O Write Out, ^W Where Is, ^K Cut Text, ^J Justify, ^C Cur Pos, ^X Exit, ^R Read File, ^\ Replace, ^U Uncut Text, ^T To Spell, and ^_ Go To Line.

8. root@niko:/etc/bind# **nano named.conf.options**



The screenshot shows a terminal window with the nano editor open to the file named.conf.options. The editor's status bar at the top indicates 'GNU nano 2.7.4', 'File: named.conf.options', and 'Modified'. The main content area shows the following configuration:

```
options {
    directory "/var/cache/bind";

    // If there is a firewall between you and nameservers you want
    // to talk to, you may need to fix the firewall to allow multiple
    // ports to talk.  See http://www.kb.cert.org/vuls/id/800113

    // If your ISP provided one or more IP addresses for stable
    // nameservers, you probably want to use them as forwarders.
    // Uncomment the following block, and insert the addresses replacing
    // the all-0's placeholder.

    forwarders {
        12.12.12.1;
    };

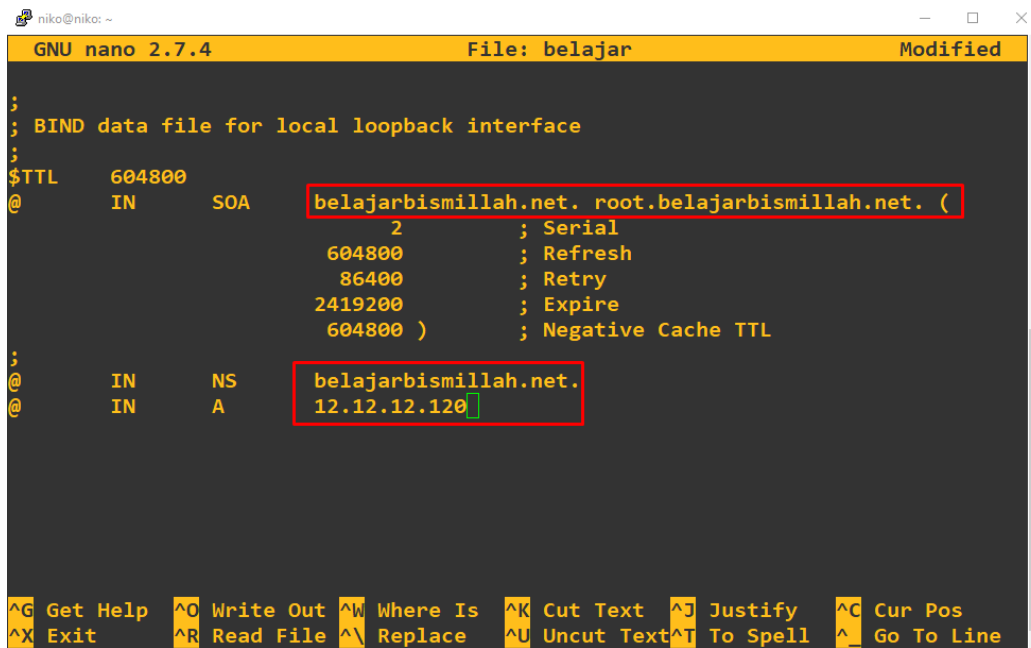
    //=====
    // If BIND logs error messages about the root key being expired,
    // you will need to update your keys.  See https://www.isc.org/bind-keys
```

The configuration for the forwarders block is highlighted with a red box. The bottom status bar of the nano editor shows various keyboard shortcuts: ^G Get Help, ^O Write Out, ^W Where Is, ^K Cut Text, ^J Justify, ^C Cur Pos, ^X Exit, ^R Read File, ^\ Replace, ^U Uncut Text, ^T To Spell, and ^_ Go To Line.

9. root@niko:/etc/bind# **cp db.local belajar**

10. root@niko:/etc/bind# **nano belajar**

ctrl w trus ctrl r ganti localhost menjadi nama domain



```
GNU nano 2.7.4 File: belajar Modified
;
; BIND data file for local loopback interface
;
$TTL 604800
@ IN SOA belajarbismillah.net. root.belajarbismillah.net. (
                2 ; Serial
                604800 ; Refresh
                86400 ; Retry
                2419200 ; Expire
                604800 ) ; Negative Cache TTL
;
@ IN NS belajarbismillah.net.
@ IN A 12.12.12.120
```

11. root@niko:/etc/bind# **cp db.127 120**

12. root@niko:/etc/bind# **nano 120**

```
niko@niko: ~
GNU nano 2.7.4 File: 120 Modified
;
; BIND reverse data file for local loopback interface
;
$TTL 604800
@ IN SOA belajarbismillah.net. root.belajarbismillah.net. (
    1 ; Serial
    604800 ; Refresh
    86400 ; Retry
    2419200 ; Expire
    604800 ) ; Negative Cache TTL
;
@ IN NS belajarbismillah.net.
120 IN PTR belajarbismillah.net.

[ Replaced 4 occurrences ]
^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify ^C Cur Pos
^X Exit ^R Read File ^\ Replace ^U Uncut Text ^T To Spell ^_ Go To Line
```

13. root@niko:/etc/bind# **nano /etc/resolv.conf**

```
niko@niko: ~
GNU nano 2.7.4 File: /etc/resolv.conf
search belajarbismillah.net
nameserver 12.12.12.120
```

14. Restart bind9

```
root@niko:/etc/bind# /etc/init.d/bind9 restart
[ ok ] Restarting bind9 (via systemctl): bind9.service.
root@niko:/etc/bind#
```

```
root@niko:/etc/bind# /etc/init.d/bind9 restart
[ ok ] Restarting bind9 (via systemctl): bind9.service.
root@niko:/etc/bind# ^C
root@niko:/etc/bind#
```

15. Bila diuji dengan dig dan nslookup tidak ada

```
root@niko:/etc/bind# apt-get install dnsutils
```

16. Pengujian nslookup

```
niko@niko: ~  
root@niko:/etc/bind# nslookup 12.12.12.120  
Server:          12.12.12.120  
Address:         12.12.12.120#53  
  
120.12.12.12.in-addr.arpa      name = belajarbismillah.net.  
  
root@niko:/etc/bind#
```

17. Pengujian dig

```
root@niko:/etc/bind# dig belajarbismillah.net  
  
; <<>> DiG 9.10.3-P4-Debian <<>> belajarbismillah.net  
;; global options: +cmd  
;; Got answer:  
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 21594  
;; flags: qr aa rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 1, ADDITIONAL: 1  
  
;; OPT PSEUDOSECTION:  
; EDNS: version: 0, flags:; udp: 4096  
;; QUESTION SECTION:  
; belajarbismillah.net.      IN      A  
  
;; ANSWER SECTION:  
belajarbismillah.net.      604800 IN      A      12.12.12.120  
  
;; AUTHORITY SECTION:  
belajarbismillah.net.      604800 IN      NS      belajarbismillah.net.  
  
;; Query time: 0 msec  
;; SERVER: 12.12.12.120#53(12.12.12.120)
```

Selesai