

Kelompok 3 INF B :

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DNS Server Pada Ubuntu Server 18.04

Install DNS Server

```
root@userver:/home/serversv# apt install bind9
Reading package lists... Done
Building dependency tree
Reading state information... Done
bind9 is already the newest version (1:9.11.3+dfsg-1ubuntu1.18).
0 upgraded, 0 newly installed, 0 to remove and 147 not upgraded.
root@userver:/home/serversv#
```

Jika Status Firewall pada server aktif, maka silahkan Allow pada port 54 sebagai berikut

```
root@userver:/home/serversv# apt install bind9
Reading package lists... Done
Building dependency tree
Reading state information... Done
bind9 is already the newest version (1:9.11.3+dfsg-1ubuntu1.18).
0 upgraded, 0 newly installed, 0 to remove and 147 not upgraded.
root@userver:/home/serversv# ufw allow 53
Rule added
Rule added (v6)
root@userver:/home/serversv# _
```

Konfigurasi IP Static, Resolv.conf dan hosts seperti berikut

```
GNU nano 2.9.3 /etc/netplan/50-cloud-init.yaml Modified
network:
  ethernets:
    enp0s3:
      addresses: [172.22.14.173]
      gateway4: 172.22.14.254
      nameservers:
        search: [kelompok4.com]
        addresses: [172.22.14.173, 172.22.14.254]
      dhcp: no
      optional: true
  version: 2
```

Konfigurasi resolv.conf

```
GNU nano 2.9.3 /etc/resolv.conf

# This file is managed by man:systemd-resolved(8). Do not edit.
#
# This is a dynamic resolv.conf file for connecting local clients to the
# internal DNS stub resolver of systemd-resolved. This file lists all
# configured search domains.
#
# Run "systemd-resolve --status" to see details about the uplink DNS servers
# currently in use.
#
# Third party programs must not access this file directly, but only through the
# symlink at /etc/resolv.conf. To manage man:resolv.conf(5) in a different way,
# replace this symlink by a static file or a different symlink.
#
# See man:systemd-resolved.service(8) for details about the supported modes of
# operation for /etc/resolv.conf.

nameserver 172.22.14.173
search kelompok4.com
```

Konfigurasi Hosts

```
GNU nano 2.9.3 /etc/hosts

127.0.0.1 localhost.localdomain localhost
::1 localhost6.localdomain6 localhost6
172.22.14.173 kelompok4.com

# The following lines are desirable for IPv6 capable hosts
::1 localhost ip6-localhost ip6-loopback
fe00::0 ip6-localnet
ff00::0 ip6-mcastprefix
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters
```

Konfigurasi DNS Server

```
root@userver:/etc/bind# cd /etc/bind/
root@userver:/etc/bind# cp db.127 db.website1
root@userver:/etc/bind# cp db.127 db.web
root@userver:/etc/bind#
```

Edit file named.conf.local seperti dibawah ini

```
GNU nano 2.9.3          named.conf.local          Modified
//
// 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 "kelompok4.com" IN {
    type master;
    file "/etc/bind/db.website1";
};

zone "14.22.172.in-addr.arpa" {
    type master;
    file "/etc/bind/db.web";_
};
```

Edit File db.website1

```
GNU nano 2.9.3          db.website1          Modified
;
; BIND reverse data file for local loopback interface
;
$TTL      604800
@         IN      SOA      ns.kelompok4.com. root.kelompok4.com. (
                                1          ; Serial
                                604800     ; Refresh
                                86400      ; Retry
                                2419200    ; Expire
                                604800 )   ; Negative Cache TTL
;
@         IN      NS       ns.kelompok4.com.
@         IN      A        172.22.14.173
@         IN      MX       10      mail.kelompok4.com.
ns        IN      A        172.22.14.173
www       IN      CNAME    ns
mail      IN      A        172.22.14.173
```

```
GNU nano 2.9.3                                db.web                                Modified
;
; BIND reverse data file for local loopback interface
;
$TTL      604800
@         IN      SOA      ns.kelompok4.com. root.kelompok4.com. (
                        1          ; Serial
                        604800     ; Refresh
                        86400      ; Retry
                        2419200    ; Expire
                        604800 )   ; Negative Cache TTL
;
@         IN      NS       ns.kelompok4.com.
1         IN      PTR      ns.kelompok4.com.
1         IN      PTR      www.kelompok4.com
1         IN      PTR      mail.kelompok4.com_
```

```
GNU nano 2.9.3                                db.web                                Modified
;
; BIND reverse data file for local loopback interface
;
$TTL      604800
@         IN      SOA      ns.kelompok4.com. root.kelompok4.com. (
                        1          ; Serial
                        604800     ; Refresh
                        86400      ; Retry
                        2419200    ; Expire
                        604800 )   ; Negative Cache TTL
;
@         IN      NS       ns.kelompok4.com.
1         IN      PTR      ns.kelompok4.com.
1         IN      PTR      www.kelompok4.com
1         IN      PTR      mail.kelompok4.com
```

```
;
; BIND reverse data file for local loopback interface
;
$TTL      604800
@         IN      SOA      ns.kelompok4.com. root.kelompok4.com. (
                        1          ; Serial
                        604800     ; Refresh
                        86400      ; Retry
                        2419200    ; Expire
                        604800 )   ; Negative Cache TTL
;
@         IN      NS       ns.kelompok4.com.
1         IN      PTR      ns.kelompok4.com.
1         IN      PTR      www.kelompok4.com
1         IN      PTR      mail.kelompok4.com
```

Restart Service Bind9 agar seluruh konfigurasi diatas dapat berjalan, dan untuk pengetesan, jalankan perintah nslookup

```
root@ais:/etc/bind# nslookup kelompok6_me
Server:      10.5.8.183
Address:     10.5.8.183#53

Name:   kelompok6_me
Address: 10.5.8.183

root@ais:/etc/bind#
```

REFERENSI

Modul Sistem Operasi