Bind 9 adalah suatu domain name service untuk merubah atau translate alamat ip ke alamat yang mudah di ingat oleh pengguna misal contoh kasus di sini;

- Pertama-tama setelah semua dependensi di install dengan bind9 lalu berikut ini file yang akan di konfigurasi
 - 1. Named.conf (Untuk Ridirect DNS)
 - 2. Zona Reverse (Translate IP ke Domain)
 - 3. Zona Forward (Translate Domain ke IP)
- Contoh disini akan membuat dns dumbways.com dengan Record ns1, ns2, @, mail, www dan subdomain.
- Install Dependensi

```
[ubuntu@ip-172-31-21-134:~$ sudo apt-get install apache2 -y
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
    apache2-bin apache2-data apache2-utils libapr1 libaprutil1 libaprutil1-dbd-sqlite3 libaprutil1-ldap liblua5.2-0 ssl-cert
Suggested packages:
    www-browser apache2-doc apache2-suexec-pristine | apache2-suexec-custom openssl-blacklist
The following NEW packages will be installed:
    apache2 apache2-bin apache2-data apache2-utils libapr1 libaprutil1 libaprutil1-dbd-sqlite3 libaprutil1-ldap liblua5.2-0 ssl-cert
0 upgraded, 10 newly installed, 0 to remove and 0 not upgraded.
Need to get 1729 kB of archives.
After this operation, 6985 kB of additional disk space will be used.
Get: http://ap-southeast-1.ec2.archive.ubuntu.com/ubuntu bionic/main amd64 libaprutil1 amd64 1.6.1-2 [90.9 kB]
Get: http://ap-southeast-1.ec2.archive.ubuntu.com/ubuntu bionic/main amd64 libaprutil1 amd64 1.6.1-2 [84.4 kB]
Get:3 http://ap-southeast-1.ec2.archive.ubuntu.com/ubuntu bionic/main amd64 libaprutil1-dbd-sqlite3 amd64 1.6.1-2 [10.6 kB]
Get:4 http://ap-southeast-1.ec2.archive.ubuntu.com/ubuntu bionic/main amd64 libaprutil1-ldap amd64 1.6.1-2 [8764 B]
Get:5 http://ap-southeast-1.ec2.archive.ubuntu.com/ubuntu bionic-main amd64 libaprutil1-ldap amd64 1.6.1-2 [8764 B]
Get:6 http://ap-southeast-1.ec2.archive.ubuntu.com/ubuntu bionic-updates/main amd64 apache2-bin amd64 2.4.29-lubuntu4.14 [83.9 kB]
Get:7 http://ap-southeast-1.ec2.archive.ubuntu.com/ubuntu bionic-updates/main amd64 apache2-utils amd64 2.4.29-lubuntu4.14 [80 kB]
Get:9 http://ap-southeast-1.ec2.archive.ubuntu.com/ubuntu bionic/main amd64 apache2-data all 2.4.29-lubuntu4.14 [80 kB]
Get:9 http://ap-southeast-1.ec2.archive.ubuntu.com/ubuntu bionic/main amd64 ssl-cert all 1.0.39 [17.0 kB]
Fetched 1729 kB in 1s (3233 kB/s)
```

Install Package Bind9 Beserta Tools nya.

```
ubuntu@ip-172-31-21-134:~$ sudo apt install bind9 bind9utils bind9-doc
```

Mengaktifkan Package bind9 Start service (Pastikan bind sudah running)

 Di sini agar permanen kita buat syslink apabila server mati atau restart conf masih dapat reload/running.

```
[root@instance-1 muhammad_aulia_rahman68]# systemctl enable named
Created symlink from /etc/systemd/system/named.service to /usr/lib/systemd/system/named.service.
```

 Secara Default Service Bind berada di /var/named nanti disini akan di cp sebagai default konfigurasi dengan file named.localhost.

```
z namea namea
                              o Jun
[[root@instance-1 named]# cat named.localhost
$TTL 1D
        IN SOA @ rname.invalid. (
                                         0
                                               ; serial
                                         1D
                                                ; refresh
                                                ; retry
                                         1H
                                         1W
                                                ; expire
                                        3H )
                                                ; minimum
        NS
                127.0.0.1
        Α
        AAAA
                ::1
```

• Untuk konfigurasi service bind berada /etc/named.conf dengan konfigurasi default seperti ini.

- 1. Listen-on port disini menerangkan IP dengan jenis ipv4 yang akan di ubah disini masih localhost.
- 2. Listen-on-v6 port disini menerangkan ipv6 yang di rubah
- Kita rubah Listen IPV4 menjadi all Ip dan IPV6 disable karena tidak di pakai.

Membuat Zona Forward & Reverse

```
Dumbysways.xyz
   zone
            type master;
            file "/etc/named/forward.zone";
   };
   zone "0.170.10.in-addr.arpa" {
            type master;
            file "/etc/named/reverse.zone";
   };
  Membuat Transisi Zona Forward.zone
   $TTL
            86400
                                                    Dumbysways.xyz
                           Dumbysways.xyz
            ΙN
                    SOA
   (a
                                             root.
                    2008111914
                                     ;Serial
                    3600
                                     ;Refresh
                    1800
                                     ;Retry
                    604800
                                     ;Expire
                                     ;Minimum TTL
                    86400
   )
                                             Dumbysways.xyz
                            NS
                    ΙN
   (a
                                     ns1.
                    ΙN
                            NS
                                     ns2.
   @
                    ΙN
                             Α
                                     10.170.0.2
   @
                    ΙN
                                     10.170.0.2
   ns1
                             Α
                                     10.170.0.2
  Membuat Transisi Zona Reverse.zone
   $TTL 86400
                                                      Dumbysways.xyz
                             Dumbysways.xyz
                     SOA
            ΙN
   a
                              2018100902
                                                 ;Serial
                              3600
                                                 ;Refresh
                              1800
                                                 ;Retry
                              604800
                                                 ;Expire
                              86400
                                                 ;Minimum TTL
                     ΙN
                              NS
   @
                                          Dumbysways.xyz
                     ΙN
                              NS
   @
                                       10.170.0.2
   @
                     ΙN
                              Α
   ns1
                     ΙN
                                       10.170.0.2
                              Α
                     ΙN
                                       10.170.0.2
   ns2
                              Α
• Check Konfig named.conf
  [[root@instance-1 named]# named-checkconf /etc/named.conf
   [root@instance-1 named]#
```

• Check Konfig Revese & forward dan restart service bind

```
[[root@instance-1 named]# sudo systemctl start named [[root@instance-1 named]# sudo systemctl enable named [root@instance-1 named]# ■
```

Buka Port firewall

[[root@instance-1 named]# netstat -nltup

```
Active Internet connections (only servers)
                                                                       State
                                     0.0.0.0:*
Proto Recv-Q Send-Q Local Address
                                               Foreign Address
                                                                                      PID/Program nam
                                                                        LISTEN
                 0 127.0.0.1:53
tcp
                0 127.0.0.1:53

0 0.0.0.0:22

0 127.0.0.1:953

0 127.0.0.1:25

0 :::80

0 ::1:53

0 :::21

0 :::22

0 ::1:953

0 ::1:25

0 127.0.0.1:53

0 0.0.0:68

0 127.0.0.1:323

0 ::1:53
                                                                                      14899/named
          0
                                                                         LISTEN
                                               0.0.0.0:*
                                                                                      1784/sshd
tcp
tcp
           0
                                               0.0.0.0:*
                                                                         LISTEN
                                                                                       14899/named
          0
                                              0.0.0.0:*
                                                                         LISTEN
                                                                                      1150/master
tcp
          0
tcp6
                                              :::*
                                                                         LISTEN
                                                                                      1127/httpd
           0
                                                                         LISTEN
tcp6
                                               :::*
                                                                                       14899/named
           0
                                                                         LISTEN
                                                                                      15012/vsftnd
tcp6
                                               :::*
          0
tcp6
                                              :::*
                                                                         LISTEN
                                                                                      1784/sshd
tcp6
           0
                                                                         LISTEN
                                                                                       14899/named
                                               :::*
          0
tcp6
                                               :::*
                                                                         LISTEN
                                                                                      1150/master
udp
          0
                                              0.0.0.0:*
                                                                                      14899/named
          0
udp
                                               0.0.0.0:*
                                                                                       600/dhclient
                                              0.0.0.0:*
udp
                                                                                       432/chronyd
udp6
                                               :::*
                                                                                       14899/named
udp6
        0 0::1:323
                                                                                       432/chronvd
                                               :::*
```

uupo 0 0 1.1.323

```
[[root@instance-1 named]# firewall-cmd --permanent --add-port=53/tcp
success
[[root@instance-1 named]# firewall-cmd --permanent --add-port=53/udp
success
[[root@instance-1 named]# firewall-cmd --reload
```

 Menambahkan Ip local di resolv.conf nameserver 10.170.0.2

Restart Network check semua conf

```
[root@instance-1 named]# systemctl restart network
[root@instance-1 named]# named-checkzone forward.zone /etc/named/forward.zone
zone forward.zone/IN: loaded serial 2008111914

OK
[root@instance-1 named]# named-checkzone reverse.zone /etc/named/reverse.zone
zone reverse.zone/IN: loaded serial 2018100902

OK
```

Cek apakah sudah propagantion dns dumbways-aulia.xyz

