TUGAS DAY 7

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)

AAAA

::1

- 2. Zona Reverse (Translate IP ke Domain)
- 3. Zona Forward (Translate Domain ke IP)
- Contoh disini akan membuat dns atasnama.com dengan Record ns1, ns2, @, mail, www dan subdomain.
- Update Dependensi
 [[muhammad_aulia_rahman68@instance-1 ~]\$ sudo yum update -y
- Install Package Bind9 Beserta Tools nya.
 Anda narus login sebagai root agar bisa menjalankan perintan ini.
 [[muhammad_aulia_rahman68@instance-1 ~]\$ sudo yum install -y bind bind-chroot bind-libs bind-utils caching-nameserver
 - Mengaktifkan Package bind9 Start service (Pastikan bind sudah running)

 [[root@instance-1 muhammad_aulia_rahman68]# systemctl start named

 [[root@instance-1 muhammad_aulia_rahman68]# systemctl status named

 named.service Berkeley Internet Name Domain (DNS)

 Loaded: loaded (/usr/lib/systemd/system/named.service; disabled; vendor preset: disabled)

 Active: active (running) since Rab 2020-06-24 11:36:13 UTC; 15s ago

 Process: 14897 ExecStart=/usr/sbin/named -u named -c \${NAMEDCONF} \$OPTIONS (code=exited, status=0/SUCCESS)

 Process: 14895 ExecStartPre=/bin/bash -c if [! "\$DISABLE_ZONE_CHECKING" == "yes"]; then /usr/sbin/named-cr; fi (code=exited, status=0/SUCCESS)

 Main PID: 14899 (named)

 CGroup: /system.slice/named.service

 L14899 /usr/sbin/named -u named -c /etc/named.conf
- 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.
- Secara Default Service Bind berada di /var/named nanti disini akan di cp sebagai default konfigurasi dengan file named.localhost.

• 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

```
• Membuat Transisi Zona Forward.zone
```

```
$TTL
        86400
        ΙN
                          atasnama.com. root.atasname.com.(
                 SOA
                 2008111914
                                  ;Serial
                 3600
                                  ;Refresh
                 1800
                                  ;Retry
                 604800
                                  ;Expire
                 86400
                                  ;Minimum TTL
)
                         NS
(a
                 ΙN
                                  ns1.atasnama.com.
                 ΙN
                         NS
                                  ns2.atasnama.com.
(a
                 ΙN
                                  10.170.0.2
                         Α
                 ΙN
                         Α
                                  10.170.0.2
ns1
ns2
                 ΙN
                                  10.170.0.2
                         Α
                 ΙN
                                  mail.atasnama.com.
mail
                 ΙN
                                  10.170.0.2
www
                 ΙN
                         CNAME
                                  atasnama.com.
                 ΙN
subdomain1
                                  10.170.0.2
```

• Membuat Transisi Zona Reverse.zone

```
$TTL 86400
@ IN SOA atasnama.com. root.atasnama.com. (
```

2018100902 ;Serial 3600 ;Refresh 1800 ;Retry 604800 ;Expire 86400 ;Minimum TTL

ΙN NS ns1.atasnama.com. @ ΙN NS ns2.atasnama.com. œ ΙN Α 10.170.0.2 @ ΙN Α 10.170.0.2 ns1

Α ns2 ΙN 10.170.0.2 ΙN MX 10 mail.atasnama.com. (a mail ΙN Α 10.170.0.2 CNAME www ΙN atasnama.com. subdomain1 ΙN 10.170.0.2 2 ΙN PTR ns1.atasnama.com. 2 TΝ PTR ns2.atasnama.com.

2 IN PTR www.atasnama.com. 2 IN PTR mail.atasnama.com.

• 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

success

```
[[root@instance-1 named]# netstat -nltup
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address
                                          Foreign Address
                                                                State
                                                                            PID/Program nam
                0 127.0.0.1:53
                                                                LISTEN
                                                                            14899/named
tcp
          a
                                         0.0.0.0:*
          0
                0 0.0.0.0:22
                                          0.0.0.0:*
                                                                LISTEN
                                                                            1784/sshd
tcp
                0 127.0.0.1:953
                                         0.0.0.0:*
                                                                LISTEN
                                                                            14899/named
tcp
tcp
          0
                0 127.0.0.1:25
                                         0.0.0.0:*
                                                                LISTEN
                                                                            1150/master
tcp6
          0
                0 :::80
0 ::1:53
                                         :::*
                                                                LISTEN
                                                                            1127/httpd
tcp6
                                                                LISTEN
          0
                                         :::*
                                                                            14899/named
                0 :::21
0 :::22
0 ::1:953
tcp6
          0
                                                                LISTEN
                                                                            15012/vsftpd
                                         :::*
tcp6
          0
                                                                LISTEN
                                                                            1784/sshd
                                         :::*
tcp6
          0
                                         :::*
                                                                LISTEN
                                                                            14899/named
               0 ::1:25
0 127.0.0.1:53
0 0.0.0.0:68
          0
tcp6
                                         :::*
                                                                LISTEN
                                                                            1150/master
          0
                                                                            14899/named
                                         0.0.0.0:*
udp
udp
          0
                                         0.0.0.0:*
                                                                            600/dhclient
                0 127.0.0.1:323
udp
                                         0.0.0.0:*
                                                                            432/chronyd
udp6
          Ø
                0 ::1:53
                                                                            14899/named
                                         :::*
              0 ::1:323
          0
                                                                            432/chronyd
udp6
[[root@instance-1 named]# firewall-cmd --permanent --add-port=53/tcp
[[root@instance-1 named]# firewall-cmd --permanent --add-port=53/udp
```

 Menambahkan Ip local di resolv.conf nameserver 10.170.0.2

[[root@instance-1 named]# firewall-cmd --reload

• 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 atasnama.com
[root@instance-1 named]# ping atasnama.com
 PING atasnama.com (10.170.0.2) 56(84) bytes of data.
 64 bytes from atasnama.com (10.170.0.2): icmp_seq=1 ttl=64 time=0.045 ms
 64 bytes from atasnama.com (10.170.0.2): icmp_seq=2 ttl=64 time=0.068 ms
 64 bytes from atasnama.com (10.170.0.2): icmp_seq=3 ttl=64 time=0.101 ms
 64 bytes from atasnama.com (10.170.0.2): icmp_seq=4 ttl=64 time=0.104 ms