WORKSHOP ADMINISTRASI JARINGAN

PERTEMUAN 2 MINGGU 2

Dns bind9 dan dnsmasq



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TEKNIK INFORMATIKA

POLITEKNIK ELEKTRONIKA NEGERI SURABAYA

PENS PSDKU SUMENEP

D3 TEKNIK INFORMATIKA

BIND9

1. Langkah pertama adalah mengupdate Debian, dengan menegtik apt update setelah itu apt upgrade

```
vrayoga@vrayoga:~$ su - root
Password:
root@vrayoga:~# apt update
Hit:1 http://security.debian.org/debian-security bookworm-security InRelease
Hit:2 http://deb.debian.org/debian bookworm InRelease
Hit:3 http://deb.debian.org/debian bookworm-updates InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
All packages are up to date.
root@vrayoga:~# apt upgrade
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Calculating upgrade... Done
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
root@vrayoga:~# SS
```

2. Setelah itu kita download bind9 juga

```
root@vrayoga:~# apt install bind9 bind9-utils bind9-doc dnsutils
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Suggested packages:
 bind-doc resolvconf ufw
The following NEW packages will be installed:
 bind9 bind9-doc bind9-utils dnsutils
0 upgraded, 4 newly installed, 0 to remove and 0 not upgraded.
Need to get 4,611 kB of archives.
After this operation, 9,962 kB of additional disk space will be used.
Get:1 http://security.debian.org/debian-security bookworm-security/main amd64 bind9-util
s amd64 1:9.18.24-1 [408 kB]
Get:2 http://security.debian.org/debian-security bookworm-security/main amd64 bind9 amd6
4 1:9.18.24-1 [496 kB]
Gat.3 http://security_dehian_org/dehian_security_hookworm_security/main_amd6/ hind0_doc
```

3. Setelah mendownload mari kita liat versi bind9 dengan menuliskan named -v

```
root@vrayoga:~# named -v
BIND 9.18.24-1-Debian (Extended Support Version) <id:>
root@vrayoga:~#
```

4. Lalu kita cek file environment,karena di usr/bin tidak ada hasil path maka kita akan tambahkan

```
root@vrayoga:~# echo $PATH
/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin
root@vrayoga:~# █
```

5. Untuk menambahkan folder path kita masuk ke nano /etc/ profile,lalu akan muncul seperti ini.lalu kalian scroll ke bawah dan tambahkan path seperti ini.

Ini kode untuk masuk ke folder profile

```
                                     vrayoga@vrayoga: ~
 GNU nano 7.2
                                        /etc/profile *
     . /etc/bash.bashrc
   fi
 else
   if [ "$(id -u)" -eq 0 ]; then
     PS1='# '
     PS1='$ '
   fi
fi
if [ -d /etc/profile.d ]; then
 for i in /etc/profile.d/*.sh; do
   if [ -r $i ]; then
     . $i
   fi
 done
 unset i
export PATH=/usr/sbin:$PATH
```

untuk menyimpan ctrl + x dan keluar y

```
export PATH=/usr/sbin:$PATH
Save modified buffer?
Y Yes
N No ^C Cancel
```

6. Untuk aktivasi perubahan profile

```
root@vrayoga:~# source /etc/profile
```

7. Lalu kita liat variable pathnya,hasilnya seperti ini

```
root@vrayoga:~# echo $PATH
/usr/sbin:/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/bin
root@vrayoga:~#
```

8. Kita masuk kedalam bind lalu kita liat apa saja didalam bind tersebut.

```
root@vrayoga:~# cd /etc/bind
root@vrayoga:/etc/bind# ls
bind.keys db.255 named.conf named.conf.options
db.0 db.empty named.conf.default-zones rndc.key
db.127 db.local named.conf.local zones.rfc1918
root@vrayoga:/etc/bind#
```

9. Copy db.local menjadi db.ns1.yoga.edu. File db.local adalah file untuk forward mapping ,lalu Copy db.127 menjadi db.rev.ns1.yoga.edu. File db.127 adalah file untuk reverse mapping

```
root@vrayoga:/etc/bind# cp db.127 db.rev.ns1.yoga.edu
root@vrayoga:/etc/bind# cp db.127 db.rev.ns1.yoga.edu
root@vrayoga:/etc/bind#
```

10. Lalu copy juga Copy file named.conf.local menjadi named.conf.local.orig,setelah itu kita akan melihat semua file hasil copy an tersebut.kita lakukan pengcopyan apabila error kita sudah punya backupan

```
root@vrayoga:/etc/bind# cp named.conf.local named.conf.orig
root@vrayoga:/etc/bind# ls
bind.keys db.255 db.ns1.yoga.edu named.conf.default-zones named.conf.orig
db.0 db.empty db.rev.ns1.yoga.edu named.conf.local rndc.key
db.127 db.local named.conf named.conf.options zones.rfc1918
root@vrayoga:/etc/bind#
```

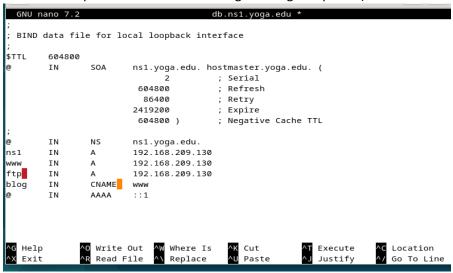
11. Lalu kita cek ip kita dengan mnegetik ip addr

```
root@vrayoga:/etc/bind# ip addr
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 noprefixroute
       valid_lft forever preferred_lft forever
2: ens33: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group defau
lt qlen 1000
    link/ether 00:0c:29:89:56:e2 brd ff:ff:ff:ff:ff
    altname enp2s1
    inet 192.168.209.130/24 brd 192.168.209.255 scope global dynamic noprefixroute ens33
       valid_lft 1248sec preferred_lft 1248sec
    inet6 fe80::20c:29ff:fe89:56e2/64 scope link noprefixroute
       valid_lft forever preferred_lft forever
root@vrayoga:/etc/bind#
```

12. Lalu kita konfigurasi named.conf dengan cara mengetik seperti berikut

valıd_itt torever preterred_itt torever root@vrayoga:/etc/bind# nano named.conf.local 13. Setelah itu kita isi dalam named.conf seperti ini.setelah seperti ini kita tekan ctrl + x lalu save

14. Setelah itu kita masuk kedalam isi rev yoga edu,dengan mengetik nano db.ns1.yoga.edu.Untuk didalamnya kita kasih seperti ini(untuk menulis ip setiap computer berbeda harap cek terlebih dahulu dengan mengetik ip addr)



15. Setelah itu kita masuk kedalam folder rev yoga edu

```
root@vrayoga:/etc/bind# nano db.rev.@s1.yoga.edu
 GNU nano 7.2
                                db.ns1.yoga.edu *
; BIND data file for local loopback interface
$TTL
       604800
       ΙN
               SOA
                      ns1.yoga.edu. hostmaster.yoga.edu. (
                           2 ; Serial
                       604800
                                    ; Refresh
                       86400
                                    ; Retry
                      2419200
                                    ; Expire
                       604800 )
                                    ; Negative Cache TTL
       IN
                      ns1.yoga.edu.
                      192.168.209.130
ns1
       IN
              Α
                      192.168.209.130
       ΙN
www
              Α
ftp
                      192.168.209.131
       ΙN
              Α
blog
              CNAME
       ΙN
                      WWW
       ΙN
              AAAA
                      ::1
```

16. Setelah itu kita liat konfigurasi hasilnya, jika seperti gambar dibawah maka berhasil

```
root@vrayoga:/etc/bind# named-checkconf
root@vrayoga:/etc/bind# named-checkzone yoga.edu /etc/bind/db.ns1.yoga.edu
zone yoga.edu/IN: loaded serial 2
OK
root@vrayoga:/etc/bind# named-checkzone yoga.edu /etc/bind/db.rev.ns1.yoga.edu
zone yoga.edu/IN: loaded serial 1
OK
root@vrayoga:/etc/bind#
```

17. Lalu masuk kedalam nano /etc/resolv.conf.lalu edit dalamnya seperti ini(untuk bagian nameserver menyesuaikan dengan computer kalian)



18. Lalu kita restart bind terlebih dahulu

```
root@vrayoga:/etc/bind# nano /etc/lesolv.com
root@vrayoga:/etc/bind# systemctl restart bind9
root@vrayoga:/etc/bind# sys
```

19. Jika mengalami error seperti ini

```
root@vrayoga:/etc/bind# systemctl status bind9
  named.service - BIND Domain Name Server
     Loaded: loaded (/lib/systemd/system/named.service; enabled; preset: enable
     Active: active (running) since Mon 2024-03-04 17:32:49 WIB; 14s ago
      Docs: man:named(8)
   Main PID: 3656 (named)
     Status: "running
      Tasks: 6 (limit: 4590)
     Memory: 47.0M
        CPU: 70ms
     CGroup: /system.slice/named.service

□3656 /usr/sbin/named -f -u bind
Mar 04 17:32:49 vrayoga named[3656]: network unreachable resolving './DNSKEY/IN
Mar 04 17:32:49 vrayoga named[3656]: network unreachable resolving './NS/IN':
Mar 04 17:32:49 vrayoga named[3656]: network unreachable resolving './DNSKEY/IN
Mar 04 17:32:49 vrayoga named[3656]: network unreachable resolving
                                                                      './NS/IN':
Mar 04 17:32:49 vravoga named[3656]: network unreachable resolving
                                                                     './DNSKEY/IN
Mar 04 17:32:49 vrayoga named[3656]: network unreachable resolving
                                                                      './NS/TN':
Mar 04 17:32:49 vrayoga named[3656]: network unreachable resolving './DNSKEY/I
```

Kalian cukup masuk kedalam

root@vrayoga:/etc/bind# nano /etc/default/named

Ubah settingan yang awalnya no menjadi yes.dan dibagian option tambahkan -4,lalu save seperti biasa

```
# run resolvconf?
RESOLVCONF=yes
# startup options for the server
OPTIONS="-4 -u bind"
```

20. Lalu coba restart lalu jalankan jika berhasil tampilan akan seperti ini.untuk restart tekan tombol systemctl restart bind9,sedangkan untuk tes konfigurasi dns systemctl status bind9

```
root@vrayoga:/etc/bind# systemctl status bind9
  named.service - BIND Domain Name Server
     Loaded: loaded (/lib/systemd/system/named.service; enabled; preset: enabled)
     Active: active (running) since Sat 2024-03-02 23:53:21 WIB; 4s ago
      Docs: man:named(8)
   Main PID: 3872 (named)
     Status: "running"
     Tasks: 6 (limit: 2252)
     Memory: 46.7M
       CPU: 79ms
     CGroup: /system.slice/named.service
             └─3872 /usr/sbin/named -f -4 -u bind
Mar 02 23:53:21 vrayoga named[3872]: zone 220.168.192.in-addr.arpa/IN: loaded serial 1
Mar 02 23:53:21 vrayoga named[3872]: all zones loaded
Mar 02 23:53:21 vrayoga named[3872]: running
Mar 02 23:53:21 vrayoga systemd[1]: Started named.service - BIND Domain Name Server.
Mar 02 23:53:21 vrayoga named[3872]: managed-keys-zone: Key 20326 for zone . is now tru
Mar 02 23:53:21 vrayoga named[3872]: resolver priming query complete: success
Mar 02 23:53:21 vrayoga named[3872]: checkhints: b.root-servers.net/A (170.247.170.2) m
Mar 02 23:53:21 vrayoga named[3872]: checkhints: b.root-servers.net/A (199.9.14.201) ex
Mar 02 23:53:21 vrayoga named[3872]: checkhints: b.root-servers.net/AAAA (2801:1b8:10::
Mar 02 23:53:21 vrayoga named[3872]: checkhints: b.root-servers.net/AAAA (2001:500:200
lines 1-22/22 (END)
```

21. Lalu kita cek nslookup kita hasilnya seperti berikut

```
\oplus
                                vrayoga@vrayoga: ~
^с
root@vrayoga:/etc/bind# nslookup ns1.yoga.edu
Server: 192.168.209.130
Address:
              192.168.209.130#53
Name: ns1.yoga.edu
Address: 192.168.209.130
root@vrayoga:/etc/bind# nslookup ftp.yoga.edu
          192.168.209.130
Address:
              192.168.209.130#53
Name: ftp.yoga.edu
Address: 192.168.209.131
root@vrayoga:/etc/bind# nslookup blog.yoga.edu
Server: 192.168.209.130
Address:
              192.168.209.130#53
blog.yoga.edu canonical name = www.yoga.edu.
Name: www.yoga.edu
Address: 192.168.209.130
root@vrayoga:/etc/bind# dig www.yoga.edu
; <<>> DiG 9.18.24-1-Debian <<>> www.yoga.edu
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 54526
;; flags: qr aa rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1
;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
; COOKIE: f2552fe5f4a9a0ff0100000065e5ab00cf9dcb7d38ec8441 (good)
;; QUESTION SECTION:
;www.yoga.edu.
                               IN
;; ANSWER SECTION:
www.yoga.edu.
                       604800 IN A 192.168.209.130
;; Query time: 0 msec
;; SERVER: 192.168.209.130#53(192.168.209.130) (UDP)
;; WHEN: Mon Mar 04 18:05:36 WIB 2024
;; MSG SIZE rcvd: 85
```

root@vrayoga:/etc/bind# ss -nlptu grep 53						
1 131	("named" mid 3					
· ·	("named",pid=3					
872, fd=32))						
udp UNCONN 0 0 192.168.209.130:53 0.0.0.0:* users:((("named",pid=3					
872,fd=31))						
udp UNCONN 0 0 127.0.0.1:53 0.0.0.0:* users:((("named",pid=3					
872, fd=26))	· · · · · · · · · · · · · · · · · · ·					
	"named",pid=3					
872, fd=25))	namea ,pia-5					
	/ Il avvahat da aman					
	("avahi-daemon					
",pid=519,fd=12))						
udp UNCONN 0 0 [::]:5353 [::]:* users:((("avahi-daemon					
",pid=519,fd=13))						
tcp LISTEN 0 5 127.0.0.1:953 0.0.0.0:* users:((("named",pid=3					
872,fd=35))						
tcp LISTEN 0 5 127.0.0.1:953 0.0.0.0:* users:(("named",pid=3					
872, fd=24))	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
	["named",pid=3					
	named ,pid-5					
872, fd=34))						
· ·	("named",pid=3					
872, fd=33))						
tcp LISTEN 0 10 127.0.0.1:53 0.0.0.0:* users:((("named",pid=3					
872, fd=29))						

DNSMASQ

- 1. Pertama kita stop terlebih dahulu bind9 jika kalian tidak keluar dari terminal root@vrayoga:/etc/bind# systemctl stop bind9
- 2. Pertama masuk nano /etc/resolv.conf lalu ubah domain seperti semula agar bisa terkoneksi ke dalam internet

```
GNU nano 7.2 /etc/resolv.conf *

# Generated by NetworkManager
search localdomain
#search yoga.edu
nameserver 192.168.209.2
#nameserver 192.168.209.130
```

3. Setelah itu kita keluar dari etc lalu kita melakukan instalasi dnsmaq

```
root@vrayoga:/etc# cd
root@vrayoga:~# apt update
Hit:1 http://deb.debian.org/debian bookworm InRelease
Hit:2 http://security.debian.org/debian-security bookworm-security InRelease
Hit:3 http://deb.debian.org/debian bookworm-updates InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
All packages are up to date.
root@vrayoga:~# apt install dnsmaq
```

Untuk instalasi dnsmasq typo ini yang benar

```
root@vrayoga:~# apt install dnsmasq
Reading package lists... Done
Building dependency tree... Done
```

4. Jika tampilan seperti ini tampilan dnsmasq,maka dns tersebut berhasil hidup

```
root@vrayoga:~# systemctl status dnsmasq
 dnsmasg.service - dnsmasg - A lightweight DHCP and caching DNS server
     Loaded: loaded (/lib/systemd/system/dnsmasq.service; enabled; preset: enabled)
     Active: active (running) since Sun 2024-03-03 00:14:52 WIB; 9s ago
    Process: 4579 ExecStartPre=/etc/init.d/dnsmasq checkconfig (code=exited, status=0/SUCCESS)
    Process: 4587 ExecStart=/etc/init.d/dnsmasq systemd-exec (code=exited, status=0/SUCCESS)
    Process: 4598 ExecStartPost=/etc/init.d/dnsmasq systemd-start-resolvconf (code=exited, sta
   Main PID: 4597 (dnsmasq)
     Tasks: 1 (limit: 2252)
     Memory: 2.4M
        CPU: 60ms
     CGroup: /system.slice/dnsmasq.service
             └─4597 /usr/sbin/dnsmasq -x /run/dnsmasq/dnsmasq.pid -u dnsmasq -7 /etc/dnsmasq.d
Mar 03 00:14:52 vrayoga systemd[1]: Starting dnsmasq.service - dnsmasq - A lightweight DHCP an
Mar 03 00:14:52 vrayoga dnsmasq[4597]: started, version 2.89 cachesize 150
Mar 03 00:14:52 vrayoga dnsmasq[4597]: DNS service limited to local subnets
Mar 03 00:14:52 vrayoga dnsmasq[4597]: compile time options: IPv6 GNU-getopt DBus no-UBus i18n
Mar 03 00:14:52 vrayoga dnsmasq[4597]: reading /etc/resolv.conf
Mar 03 00:14:52 vrayoga dnsmasq[4597]: using nameserver 192.168.209.2#53
Mar 03 00:14:52 vrayoga dnsmasq[4597]: read /etc/hosts - 8 names
Mar 03 00:14:52 vrayoga systemd[1]: Started dnsmasq.service - dnsmasq - A lightweight DHCP and
lines 1-21/21 (END)
```

5. Setelah berhasil copy agar ada backupan bila terjadi error.lalu hasilnya seperti ini jika berhasil

```
root@vrayoga:~# cp /etc/dnsmasq.conf /etc/dnsmasq.conf.oriq
```

6. Lanjut kita edit dnsmasq nya,dengan masuk menggunakan nano /etc/dnsmasq.conf.lalu untuk mencari agar kalian tidak report report scroll pencet ctrl+ w,fungsinya mempercepat pencarian

```
GNU nano /.2
                                        /etc/ansmasq.cont
# Listen on this specific port instead of the standard DNS port
# (53). Setting this to zero completely disables DNS function,
# leaving only DHCP and/or TFTP.
#port=5353
port=53
# The following two options make you a better netizen, since they
# tell dnsmasq to filter out queries which the public DNS cannot
# answer, and which load the servers (especially the root servers)
# unnecessarily. If you have a dial-on-demand link they also stop
# these requests from bringing up the link unnecessarily.
# Never forward plain names (without a dot or domain part)
domain-needed
# Never forward addresses in the non-routed address spaces.
bogus-priv
# Uncomment these to enable DNSSEC validation and caching:
 (Requires dnsmasq to be built with DNSSEC option.)
```

```
# then the MAC address, the IP address and finally the hostname
# if there is one.
#dhcp-script=/bin/echo

# Set the cachesize here.
#cache-size=150
cache-size=1000

# If you want to disable negative caching, uncomment this.
#no-negcache
```

```
GNU nano 7.2
                                        /etc/dnsmasq.conf
# and this sets the source (ie local) address used to talk to
# 10.1.2.3 to 192.168.1.1 port 55 (there must be an interface with that
# IP on the machine, obviously).
# server=10.1.2.3@192.168.1.1#55
# If you want dnsmasq to change uid and gid to something other
# than the default, edit the following lines.
#user=
#group=
# If you want dnsmasq to listen for DHCP and DNS requests only on
# specified interfaces (and the loopback) give the name of the
# interface (eg eth0) here.
# Repeat the line for more than one interface.
#interface=
# Or you can specify which interface _not_ to listen on
#except-interface=
# Or which to listen on by address (remember to include 127.0.0.1 if
# you use this.)
listen-address=127.0.0.1,192.168.209.130
```

7. Lalu kita setting host server

```
root@vrayoga: " nano /etc/ansmasq.com
root@vrayoga:~# nano /etc/hosts
```

```
\oplus
                                         vrayoga@vrayoga: ~
GNU nano 7.2
                                              /etc/hosts *
127.0.0.1
                localhost
127.0.1.1
               vrayoga.vrayoga.net
                                        vrayoga
192.168.209.130 yoga.edu
192.168.209.130 www.yoga.edu
192.168.209.130 ns1.yoga.edu
192.168.209.130 blog.yoga.edu
192.168.209.131 ftp.yoga.edu
# The following lines are desirable for IPv6 capable hosts
       localhost ip6-localhost ip6-loopback
::1
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters
```

8. Lalu kita masuk lagi kedalam resolv.conf,lalu ubah

root@vrayoga:~# nano /etc/resolv.conf



9. Setelah itu kita restart dnsmasq nya,lalu kita testing dnsmasq nya

```
root@vrayoga:~# nano /etc/resorv.com
root@vrayoga:~# systemctl restart dnsmasq
root@vrayoga:~# dnsmasq --test
dnsmasq: syntax check OK.
root@vrayoga:~#
```

10. Setelah itu kita jalankan dengan ketik seperti dibawah

```
root@vrayoga:~# systemctl restart dnsmasq
root@vrayoga:~# systemctl status dnsmasq

    dnsmasq.service - dnsmasq - A lightweight DHCP and caching DNS server

     Loaded: loaded (/lib/systemd/system/dnsmasq.service; enabled; preset: enabled)
     Active: active (running) since Sun 2024-03-03 00:41:33 WIB; 10s ago
    Process: 4700 ExecStartPre=/etc/init.d/dnsmasq checkconfig (code=exited, status=0/SUCCESS)
    Process: 4708 ExecStart=/etc/init.d/dnsmasq systemd-exec (code=exited, status=0/SUCCESS)
    Process: 4717 ExecStartPost=/etc/init.d/dnsmasq systemd-start-resolvconf (code=exited, sta
   Main PID: 4716 (dnsmasq)
     Tasks: 1 (limit: 2252)
     Memory: 812.0K
       CPU: 54ms
     CGroup: /system.slice/dnsmasq.service
             └─4716 /usr/sbin/dnsmasq -x /run/dnsmasq/dnsmasq.pid -u dnsmasq -7 /etc/dnsmasq.d>
Mar 03 00:41:33 vrayoqa systemd[1]: Starting dnsmasq.service - dnsmasq - A lightweight DHCP an
Mar 03 00:41:33 vrayoga dnsmasq[4716]: started, version 2.89 cachesize 1000
Mar 03 00:41:33 vrayoga dnsmasq[4716]: compile time options: IPv6 GNU-getopt DBus no-UBus i18n
Mar 03 00:41:33 vrayoga dnsmasq[4716]: reading /etc/resolv.conf
Mar 03 00:41:33 vrayoga dnsmasq[4716]: ignoring nameserver 192.168.209.130 - local interface
Mar 03 00:41:33 vrayoga dnsmasq[4716]: read /etc/hosts - 13 names
Mar 03 00:41:33 vrayoga systemd[1]: Started dnsmasq.service - dnsmasq - A lightweight DHCP and
lines 1-20/20 (END)
```

11. Cek port dns 53

```
root@vrayoga:~# ss -an | grep LISTEN
      LISTEN 0
                   32
                                                            0.0.0.0:53
                                                                                      0.0.0
  tcp
  .0:*
  tcp LISTEN 0
                   32
                                                              [::]:53
                                                                                         [:
 :]:*
  tcp LISTEN 0
                    128
                                                              [::1]:631
                                                                                         [:
  :]:*
 root@vrayoga:~#
```

12. Tes nslookup

```
root@vrayoga:/etc/bind# nslookup ns1.yoga.edu
Server: 192.168.209.130
Address: 192.168.209.130#53

Name: ns1.yoga.edu
Address: 192.168.209.130

root@vrayoga:/etc/bind# nslookup www.yoga.edu
Server: 192.168.209.130
Address: 192.168.209.130

Name: www.yoga.edu
Address: 192.168.209.130

root@vrayoga:/etc/bind# nslookup ftp.yoga.edu
Server: 192.168.209.130

root@vrayoga:/etc/bind# nslookup ftp.yoga.edu
Server: 192.168.209.130

Address: 192.168.209.130

Name: ftp.yoga.edu
Address: 192.168.209.131
```

Tes dig

```
root@vrayoga:/etc/bind# dig ns1.yoga.edu
; <<>> DiG 9.18.24-1-Debian <<>> ns1.yoga.edu
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 49423
;; flags: qr aa rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1
;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 4096
;; QUESTION SECTION:
;ns1.yoga.edu.
;; ANSWER SECTION:
ns1.yoga.edu.
                       0
                               IN A 192.168.209.130
;; Query time: 0 msec
;; SERVER: 192.168.209.130#53(192.168.209.130) (UDP)
;; WHEN: Mon Mar 04 18:19:30 WIB 2024
;; MSG SIZE rcvd: 57
root@vrayoga:/etc/bind#
```