

[replace groupN with your group no]

## A. Install BIND:

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-----

```
sudo su  
apt-get install bind9 bind9utils bind9-doc  
All the config files are under /etc/bind  
folder
```

Few important files:

```
named.conf  
named.conf.options  
named.conf.default-zones  
db.root
```

Check the bind/named version

```
named -V
```

With default installation BIND works as recursive DNS

server. Test it

```
dig apnic.net NS
```

```
dig +short conference.apnic.net
```

```
dig +short www.apnic.net AAAA
```

```
dig apnic.net MX
```

## B. Authoritative DNS Server:

-----  
-----

```
sudo su  
cd /etc/bind/  
vi named.conf.default-zones  
add the following config:  
zone "groupN.apnictraining.net" {  
    type master;  
    file "/etc/bind/
```

```
db.groupN.apnictraining.net";
};
save and exit
now create a new zone file for
groupN.apnictraining.net
vi db.groupN.apnictraining.net
add the following config
$TTL 1d
@ SOA ns.groupN.apnictraining.net.
email.groupN.apnictraining.net. (
    2017052101 ;serial no.
    30m ;refresh
    15m ;retry
    1d ;expire
    30m ;negative cache ttl
)
IN NS ns.groupN.apnictraining.net.

ns      IN      A       192.168.30.N
www     IN      A       192.168.30.N
www     IN      AAAA   2001:db8:1001::N
mail01  IN      A       192.168.30.1
mail02  IN      A       192.168.30.1
groupN.apnictraining.net. MX
mail01.groupN.apnictraining.net.
groupN.apnictraining.net. MX
mail02.groupN.apnictraining.net.

groupN.apnictraining.net. IN TXT "groupN
Authoritative DNS Server"
~
save and exit
```

```
now restart/reload bind service
/etc/init.d/bind9 restart
test the dns
dig @localhost www.groupN.apnictraining.net
```

```
vi /etc/bind/named.conf.options
put hash :
#dnssec-validation auto;
save and quit.
```

```
now restart/reload bind service
/etc/init.d/bind9 restart
test other domain
dig @localhost www.groupN.apnictraining.net
```