

[replace group28 with your group no]

#### A. Install BIND:

---

```
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 "group28.com.bd" {
    type master;
    file "/etc/bind/db.group28.com.bd";
```

```
};
```

```
save and exit
```

```
now create a new zone file for group28.com.bd
```

```
vi db.group28.com.bd
```

```
add the following config
```

```
$TTL 1d
```

```
@ SOA ns.group28.com.bd. email.group28.com.bd. (
    2017052101 ;serial no.
    30m ;refresh
    15m ;retry
    1d ;expire
    30m ;negative cache ttl
)
```

```
IN NS ns.group28.com.bd.
```

```
ns IN A 192.168.128.1
```

```
www IN A 192.168.128.1
```

```
www IN AAAA 2001:db8:1001::128
```

```
mail01 IN A 192.168.128.200
```

```
mail02 IN A 192.168.128.201
```

```
group28.com.bd. MX 10 mail01.group28.com.bd.
```

```
group28.com.bd. MX 20 mail02.group28.com.bd.
```

```
group28.com.bd. IN TXT "groupXX Authoritative DNS
Server"
```

```
~
```

```
save and exit
```

```
now restart/reload bind service
```

```
/etc/init.d/bind9 restart
```

```
test the dns
```

```
dig @localhost www.group28.com.bd
```

C. Install lab db.root

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Now we replace global db.root file with lab db.root file:

```
mv db.root db.root.back  
wget 192.168.30.254/dns/db.root
```

Disable DNSSEC validation

```
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.group10.com.bd
```