Configure DNS:

Packages Required: bind, bind-utils

Configuration File: /etc/named.conf ; /etc/named.rfc1912.zone ; /etc/resolv.conf

Port: 53

Service: named

Step1: Install bind, bind-utils packages

# yum install bind bind-utils

```
[root@server named]# yum install bind
CentOS Stream 9 - BaseOS                                       2.3 kB/s | 7.5 kB     00:03
CentOS Stream 9 - AppStream                                    2.6 kB/s | 7.7 kB     00:02
CentOS Stream 9 - Extras packages                              4.3 kB/s | 8.6 kB     00:01
Package bind-32:9.16.23-24.el9.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
```

Step-2: Change the hostname

# hostnamectl set-hostname server.com

```
[root@server /]# hostnamectl set-hostname server.com
[root@server /]# bash
[root@server /]# hostname
server.com
```

Step2: Modify named.conf file ## deleting unwanted entries in named.conf file

# vim /etc/named.conf

### delete from logging to root.key ( lastline)

Step3: Append /etc/named.rfc1912.zone with /etc/named.conf

# cat /etc/named.rfc1912.zones >> /etc/named.conf

```
[root@server named]# cat /etc/named.rfc1912.zones >> /etc/named.conf
```

Step4: Modify /etc/named.conf

# vim /etc/named.conf

```
options {
        listen-on port 53 { 127.0.0.1; 192.168.88.128; };
        listen-on-v6 port 53 { ::1; };
        directory       "/var/named";
        dump-file       "/var/named/data/cache_dump.db";
        statistics-file "/var/named/data/named_stats.txt";
        memstatistics-file "/var/named/data/named_mem_stats.txt";
        secroots-file   "/var/named/data/named.secroots";
        recursing-file  "/var/named/data/named.recursing";
        allow-query     { localhost; any; };
```

```
zone "server.com." IN {
        type master;
        file "forward_zone";
        allow-update {none; };
};
```

Step5: goto "/var/named" and create forward_zone file:

    # cd /var/named

    # cp named.localhost forward_zone

Step6: Change the ownership of forward_zone file to "named"

    # chown named:named forward_zone

```
-rw-r-----. 1 named named  242 Nov 20 11:25  forward_zone
```

Step7: Modify forward_zone file

    # vim forward_zone

```
$TTL 1D
@       IN SOA  server.com. rname.invalid. (
                                        677890  ; serial
                                        1D      ; refresh
                                        1H      ; retry
                                        1W      ; expire
                                        3H )    ; minimum
        NS      server.com.
server.com. IN  A       192.168.88.128
server1 IN      A       192.168.88.133
server2 IN      A       192.168.88.124
~
~
~
```

Step8: Update /etc/resolv.conf file

    # vi /etc/resolv.conf

```
# Generated by NetworkManager
search server.com.
nameserver 192.168.88.128
```

Step9: restart named service

# systemctl restart named

# systemctl enable named

Step10: Client side configuration, Update /etc/resolv.conf file

#vi /etc/resolv.conf

```
# Generated by NetworkManager
search server.com.
nameserver 192.168.88.128
```

# systemctl restart named (restart the services)

Validation:

**Server**

# host glotech.com

```
[root@server /]# host server.com
server.com has address 192.168.88.128
```

# nslookup glotech.com

```
[root@server /]# nslookup server.com
Server:         192.168.88.128
Address:        192.168.88.128#53

Name:   server.com
Address: 192.168.88.128
```

**Client**

# host glotech.com

```
[root@client /]# host server.com
server.com has address 192.168.88.128
```

# nslookup glotech.com

```
[root@client /]# nslookup server.com.
Server:         192.168.88.128
Address:        192.168.88.128#53

Name:   server.com
Address: 192.168.88.128
```