Install and Configure an Authoritative DNS server for the domain "Chetan.in"

```
www.chetan.in A 192.168.1.15
mail.chetan.in A 192.168.1.16
ns.chetan.in A 192.168.1.17
```

1. Install the bin software from internet by writing the command

```
[root@Chetan ~]# dnf -y install bind
Updating Subscription Management repositories.
Unable to read consumer identity

This system is not registered with an entitlement server. You can use "rhc" or "subscription-manager" to register.

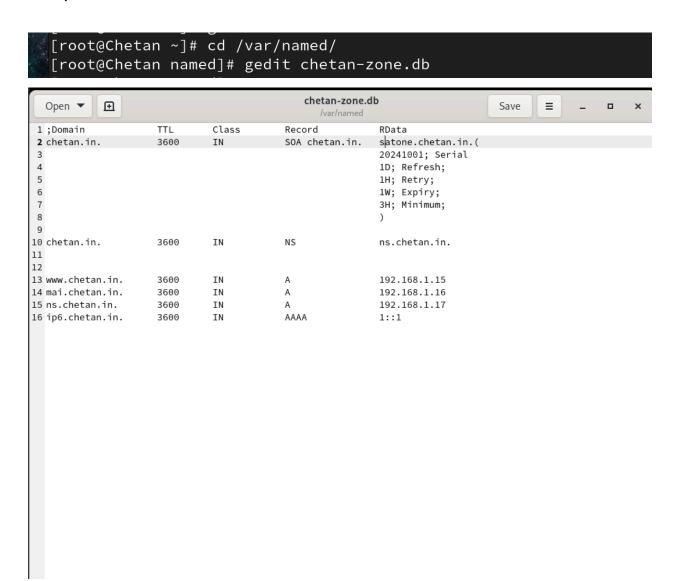
Last metadata expiration check: 0:39:04 ago on Wednesday 02 Octobe r 2024 10:39:27 AM.
Package bind-32:9.16.23-24.el9.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
[root@Chetan ~]#
```

2. Configure Bind and add this file in gedit

```
[root@Chetan ~]# gedit /etc/named.conf
```

```
45 logging {
46 ch
     channel default_debug {
          file "data/named.run";
47
48
                 severity dynamic;
49
          };
50 };
52 zone "." IN {
53
54
          type hint;
           file "named.ca";
55 };
56
57 zone "chetan.in" IN{
58 type master;
59
         file "chetan-zone.db";
60 };
61
62 include "/etc/named.rfc1912.zones";
63 include "/etc/named.root.key";
                                                             C ▼ Tab Width: 8 ▼ Ln 61, Col 1 ▼ INS
```

3. Open this file and add then save it.



4. Write this command and it will check the file , if it does not had error It say OK

```
[root@Chetan named]# named-checkconf /etc/named.conf
[root@Chetan named]# named-checkzone chetan.in /var/named/chetan-zone.db
zone chetan.in/IN: loaded serial 20241001
OK
```

5. By writing this command it will restart the named service and the status will show it is active

```
⊕
                           root@Chetan:/var/named — systemctl status named
[root@Chetan named]# systemctl restart named
[root@Chetan named]# systemctl status named
named.service - Berkeley Internet Name Domain (DNS)
     Loaded: loaded (/usr/lib/systemd/system/named.service; disabled; pr>
     Active: active (running) since Wed 2024-10-02 12:21:53 IST; 10s ago
    Process: 3785 ExecStartPre=/bin/bash -c if [ ! "$DISABLE_ZONE_CHECKI
    Process: 3787 ExecStart=/usr/sbin/named -u named -c ${NAMEDCONF} $OP>
   Main PID: 3789 (named)
      Tasks: 20 (limit: 23032)
     Memory: 46.9M
        CPU: 296ms
     CGroup: /system.slice/named.service
              └─3789 /usr/sbin/named -u named -c /etc/named.conf
Oct 02 12:21:53 Chetan named[3789]: zone localhost.localdomain/IN: loade>
Oct 02 12:21:53 Chetan named[3789]: zone 1.0.0.127.in-addr.arpa/IN: load>
Oct 02 12:21:53 Chetan named[3789]: zone chetan.in/IN: loaded serial 202
Oct 02 12:21:53 Chetan named[3789]: zone chetan.in/IN: sending notifies
Oct 02 12:21:53    Chetan named[3789]: zone 1.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0>
```

6. After connecting to the DNS of Windows it is showing In windows the server and IP address.

```
C:\Users\cheta>nslookup
Default Server: UnKnown
Address: 192.168.1.14
> ip
Server: UnKnown
Address: 192.168.1.14
DNS request timed out.
     timeout was 2 seconds.
DNS request timed out.
timeout was 2 seconds.
*** Request to UnKnown timed-out
> www.chetan.in
Server: UnKnown
Address: 192.168.1.14
Name: www.chetan.in
Address: 192.168.1.14
 > mai.chetan.in
Server: UnKnown
Address: 192.168.1.14
Name: mai.chetan.in
Address: 192.168.1.15
 > ns.chetan.in
Server: UnKnown
Address: 192.168.1.14
Name: ns.chetan.in
Address: 192.168.1.16
```