

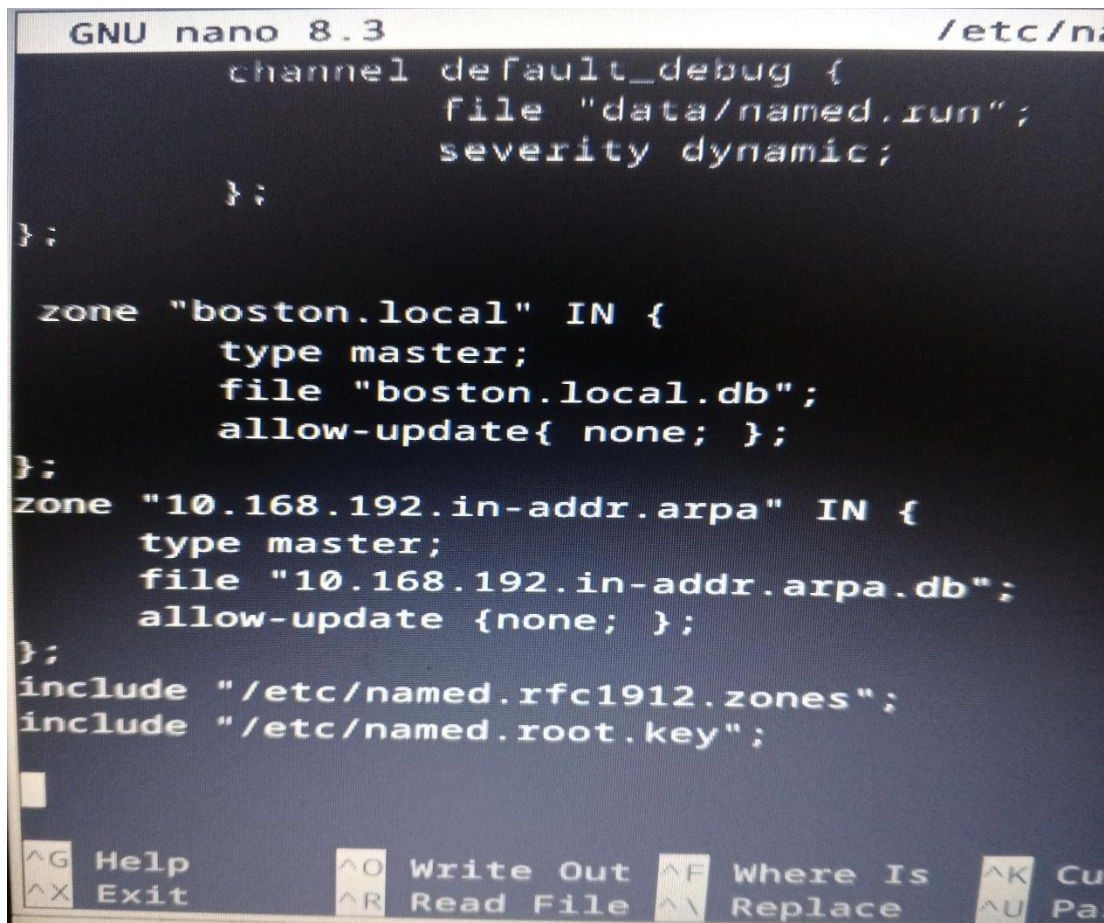
2. Domain Name System (DNS)

Installation

sudo dnf install bind bind-utils -y

Zone Configuration

Add a local zone



```
GNU nano 8.3 /etc/named.conf
    channel default_debug {
        file "data/named.run";
        severity dynamic;
    };
};

zone "boston.local" IN {
    type master;
    file "boston.local.db";
    allow-update{ none; };
};
zone "10.168.192.in-addr.arpa" IN {
    type master;
    file "10.168.192.in-addr.arpa.db";
    allow-update {none; };
};
include "/etc/named.rfc1912.zones";
include "/etc/named.root.key";

^G Help      ^O Write Out ^F Where Is  ^K Cu
^X Exit      ^R Read File ^\ Replace   ^U Pa
```

ctrl + x

enter

ctrl + o

Start service

sudo systemctl enable --now named

Check if its active

Sudo systemctl enable --now named

```
File Machine View Input Device Help
Applications terminal - boston@localhost...
Terminal - boston@localhost:~
File Edit View Terminal Tabs Help
• named.service - Berkeley Internet Name Domain (DNS)
  Loaded: loaded (/usr/lib/systemd/system/named.service; enabled; preset: disabled)
  Drop-In: /usr/lib/systemd/system/service.d
           └─10-timeout-abort.conf
  Active: active (running) since Mon 2025-10-27 11:53:43 EAT; 4h 53min ago
  Invocation: 8194e8e737994798882ebfb296c50be8
  Main PID: 1013 (named)
  Tasks: 5 (limit: 2289)
  Memory: 44.8M (peak: 47.5M)
  CPU: 542ms
  CGroup: /system.slice/named.service
           └─1013 /usr/sbin/named -u named -c /etc/named.conf

Oct 27 12:47:22 localhost.localdomain named[1013]: all zones loaded
Oct 27 12:47:22 localhost.localdomain named[1013]: running
Oct 27 12:47:32 localhost.localdomain named[1013]: managed-keys-zone: Unable to load key material
Oct 27 12:47:32 localhost.localdomain named[1013]: resolver priming query complete
Oct 27 13:47:42 localhost.localdomain named[1013]: managed-keys-zone: Unable to load key material
Oct 27 13:47:42 localhost.localdomain named[1013]: resolver priming query complete
Oct 27 14:47:52 localhost.localdomain named[1013]: managed-keys-zone: Unable to load key material
Oct 27 14:47:52 localhost.localdomain named[1013]: resolver priming query complete
Oct 27 15:48:02 localhost.localdomain named[1013]: managed-keys-zone: Unable to load key material
Oct 27 15:48:02 localhost.localdomain named[1013]: resolver priming query complete
lines 1-23
```