

```
#####
/etc/named.conf

//
// named.conf
//
// Provided by Red Hat bind package to configure the ISC BIND named(8)
DNS
// server as a caching only nameserver (as a localhost DNS resolver
only).
//
// See /usr/share/doc/bind*/sample/ for example named configuration
files.
//

options {
    listen-on port 53 { 127.0.0.1; 100.64.11.2; };
    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; 10.21.32.0/24; 100.64.11.0/24; };
    allow-recursion { localhost; 10.21.32.0/24; 100.64.11.0/24; };

    /*
        - If you are building an AUTHORITATIVE DNS server, do NOT
enable recursion.
        - If you are building a RECURSIVE (caching) DNS server, you
need to enable
            recursion.
        - If your recursive DNS server has a public IP address, you
MUST enable access
            control to limit queries to your legitimate users. Failing
to do so will
            cause your server to become part of large scale DNS
amplification
            attacks. Implementing BCP38 within your network would
greatly
            reduce such attack surface
    */
    recursion yes;

    dnssec-validation yes;

    managed-keys-directory "/var/named/dynamic";
    geoip-directory "/usr/share/GeoIP";
```

```
pid-file "/run/named/named.pid";
session-keyfile "/run/named/session.key";

/* https://fedoraproject.org/wiki/Changes/CryptoPolicy */
include "/etc/crypto-policies/back-ends/bind.config";
};

logging {
    channel default_debug {
        file "data/named.run";
        severity dynamic;
    };
};

zone "." IN {
    type hint;
    file "named.ca";
};

zone "dundermifflin.com" IN {
    type master;
    file "dundermifflin.com.zone";
    allow-query { any; };
    allow-transfer { none; };
};

zone "11.64.100.in-addr.arpa" IN {
    type master;
    file "11.64.100.in-addr.arpa.zone";
    allow-query { any; };
    allow-transfer { none; };
};

zone "32.21.10.in-addr.arpa" IN {
    type master;
    file "32.21.10.in-addr.arpa.zone";
    allow-query { any; };
    allow-transfer { none; };
};

include "/etc/named.rfc1912.zones";
include "/etc/named.root.key";

#####
/var/named/11.64.100.in-addr.arpa.zone

$TTL 1h
@ IN SOA dns0.dundermifflin.com oldo5582.dundermifflin.com (
```

```
2023041501;
1d      ;
1h      ;
7d      ;
1h )    ;

IN      NS      dns0.dundermifflin.com.

1       IN      PTR      dmz.dundermifflin.com.
2       IN      PTR      dns0.dundermifflin.com.
3       IN      PTR      web0.dundermifflin.com.
4       IN      PTR      web1.dundermifflin.com.
6       IN      PTR      dns1.dundermifflin.com.
```

#####

/var/named/32.21.10.in-addr.arpa.zone

```
$TTL 1h
@ IN SOA dns0.dundermifflin.com oldo5582.dundermifflin.com (
2023041501;
1d      ;
1h      ;
7d      ;
1h )    ;

IN      NS      dns0.dundermifflin.com.

1       IN      PTR      lan.dundermifflin.com.
2       IN      PTR      nfs.dundermifflin.com.
```

#####

/var/named/dundermifflin.com.zone

```
$TTL 1h
@ IN SOA dns0.dundermifflin.com oldo5582.dundermifflin.com (
2023041501;
1d      ;
1h      ;
7d      ;
1h )    ;

IN NS
dns0.dundermifflin.com.

$ORIGIN dundermifflin.com.
router                      IN A      100.64.0.11
dmz                         IN A      100.64.11.1
```

dns0		IN A	100.64.11.2
web0		IN A	100.64.11.3
web1		IN A	100.64.11.4
lan		IN A	10.21.32.1
nfs		IN A	10.21.32.2
dns1		IN A	100.64.11.6
machinea	7d	IN CNAME	
router.dundermifflin.com.			
machineb	7d	IN CNAME	
dns0.dundermifflin.com.			
machinec	7d	IN CNAME	
web0.dundermifflin.com.			
machined	7d	IN CNAME	
web1.dundermifflin.com.			
machinee	7d	IN CNAME	
nfs.dundermifflin.com.			
machinef	7d	IN CNAME	
dns1.dundermifflin.com.			
@	5m	IN CNAME	
web0.dundermifflin.com.			
www	5m	IN CNAME	
web0.dundermifflin.com.			
www1	5m	IN CNAME	
web1.dundermifflin.com.			
dns	5m	IN CNAME	
dns0.dundermifflin.com.			
files	7d	IN CNAME	
nfs.dundermifflin.com.			

#####

this took a while. 6-7 hours? pain. not sure I got the recursion right.