

# Re: BIND Configuration

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  - *Date:* Thu, 28 Jun 2007 23:17:59 -0700
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On Thu, Jun 28, 2007 at 11:01:00PM -0700, Minseok Choi wrote:

Yes, dns-server itself seems to work very well. when I query some public domains – google.com, yahoo.com –, the result is fine. but when I put zone files to /etc/namedb/named.conf, the domain is not resolved.

One more thing, /etc/resolv.conf is changed whenever the server reboot because the server get dynamic IP from ISP.

Okay, so your FreeBSD box is also acting as a router.

You should therefore set up BIND/named locally, and tell dhclient (or whatever you're using to fetch an IP address from your ISP) to **\*\*not\*\*** modify resolv.conf. Make note of what those nameserver IPs are though, you'll need them below.

Pick a "fake domain" for yourself (such as home.lan or something that won't be used on the Internet; a fake TLD is the way to go).

Make sure your machine name is set in rc.conf to a FQDN, such as myboxname.home.lan. You can set this without rebooting by doing (as root) "hostname myboxname.home.lan".

Next, you should go into /etc/namedb and run "sh make-localhost" as root. If you've done this in the past, you should do a rm /etc/namedb/master/localhost-v6.rev /etc/namedb/master/localhost.rev first.

In your named.conf, you'll claim to be authoritative for home.lan and declare it as such via a zone "home.lan" { } container. See below.

Finally, you should declare a list of forwarders in options { } which your nameserver will forward all recursive DNS queries through (it will still answer for anything it claims to be authoritative for, such as home.lan). DO NOT use "forward only".

Example (taken from my own setup at home, where 192.168.1.51 \*is not\*

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a router, but if it was, I'd tell dhclient or whatever \*not\* to modify resolv.conf :-) ):

/etc/rc.conf

```
=====
hostname="icarus.home.lan"
ifconfig_nve0="inet 192.168.1.51 netmask 255.255.255.0"
defaultrouter="192.168.1.1"
```

/etc/hosts

```
=====
127.0.0.1 localhost localhost.home.lan
192.168.1.51 icarus.home.lan icarus
```

/etc/resolv.conf

```
=====
search home.lan
nameserver 127.0.0.1
```

/etc/namedb/namedb.conf

```
=====
options {
/* Some stuff removed from here; doesn't apply to you :) */
forwarders {
206.13.28.12;
206.13.29.12;
};
};
zone "home.lan" {
type master;
file "master/zone.home.lan";
};
zone "1.168.192.in-addr.arpa" {
type master;
file "master/zone.192.168.1";
};
};
```

/etc/namedb/master/zone.home.lan

```
=====
$TTL 3600

@ IN SOA icarus.home.lan. root.icarus.home.lan. (
2007052501 ; Serial
3600 ; Refresh
900 ; Retry
3600000 ; Expire
3600 ) ; Minimum

IN NS icarus.home.lan.
IN MX 10 icarus.home.lan.
```

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icarus IN A 192.168.1.51

/etc/namedb/master/zone.192.168.1

=====  
\$TTL 3600

@ IN SOA icarus.home.lan. root.icarus.home.lan. (  
2005122608 ; Serial  
3600 ; Refresh  
900 ; Retry  
3600000 ; Expire  
3600 ) ; Minimum

IN NS icarus.home.lan.  
51 IN PTR icarus.home.lan.

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