6.4. LABS



## Exercise 6.2: Create an authoritative forward zone for the <code>example.com</code> domain with the following settings

- 30 second TTL
- www.example.com has the address 192.168.111.45 and the IPv6 address fe80::22c9:d0ff:1ecd:c0ef
- foo.example.com has the address 192.168.121.11
- bar.example.com has a CNAME pointing to www.example.com
- host1.example.com through host100.example.com have the addresses 10.20.45.1 through 10.20.45.100

## Solution 6.2

- 1. Create an entry in the named.conf file for your new zone.
  - For OpenSUSE or CentOS:

Edit the file /etc/named.conf Add a stanza like this:

```
zone "example.com." IN {
  type master;
  file "example.com.zone";
}:
```

• For **Ubuntu**:

Edit the file /etc/bind/named.conf.local Add a stanza like this:

```
zone "example.com." IN {
  type master;
  file "/etc/bind/example.com.zone";
}:
```

- 2. Create a new zone file for the example.com domain.
  - For CentOS put your zone files in the directory /var/named/.
  - For **OpenSUSE** put your zone files in the directory <a href="https://var/lib/named/">var/lib/named/</a>.
  - For **Ubuntu** put your zone files in the directory /etc/bind/.

```
$TTL 30
@ IN SOA localhost. admin.example.com. (
2012092901; serial YYYYMMDDRR format
          ; refresh
1H
           ; retry
2H
          ; expire
1M)
           ; neg ttl
                 IN NS localhost.;
www.example.com. IN A 192.168.111.45
www.example.com. IN AAAA fe80::22c9:d0ff:1ecd:c0ef
foo.example.com. IN A 192.168.121.11
bar.example.com. IN CNAME www.example.com.
;generate one hundred entries host1 thru host100
$GENERATE 1-100 host$.example.com. IN A 10.20.45.$
```



- 3. Test your configuration with named-checkzone or named-checkconf -z
- 4. Restart the **named** daemon

```
# systemctl restart named
```

NOTE: the command for **Ubuntu** is:

```
# systemctl restart bind9.service
```

5. Test your new DNS entries.

```
$ dig @localhost -t A www.example.com
$ dig @localhost -t AAAA www.example.com
$ dig @localhost -t A foo.example.com
$ dig @localhost -t CNAME bar.example.com
$ dig @localhost -t A host7.example.com
$ dig @localhost -t A host37.example.com
```

