



Exercise 6.1: Configure Caching DNS

NOTE: Before starting this lab, make sure your system time is correct.

Install the BIND nameserver daemon.

Solution 6.1

1. Install the **bind** package.

- For **Ubuntu**

```
# apt-get install bind9
```

- For **CentOS**

```
# yum install bind
```

- For **OpenSUSE**

```
# zypper install bind
```

2. Change the configuration to allow remote access.

- For **CentOS** and **OpenSUSE**:

Edit the file `/etc/named.conf` and add or edit the file to contain this line inside the options block:

```
listen-on port 53 { any; };  
allow-query { any; };
```

- For **OpenSUSE** only:

Create an empty include file which is expected

```
# touch /etc/named.conf.include
```

- For **Ubuntu**:

Edit the file `/etc/bind/named.conf.options` and add or edit the file to contain these lines inside the options block:

```
listen-on port 53 { any; };  
allow-query { any; };  
recursion yes;
```

3. Start the daemon

- For **CentOS7** and **OpenSUSE Tumbleweed**:

```
# systemctl restart named.service
```

- For **Ubuntu 15.04**:

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

4. Test the recursive query against your nameserver.

```
$ dig @localhost google.com
```

You should see a proper authoritative answer.