

Enabling DNSSEC validation with the root trust anchor in BIND

You need to log in to your resolver (cache) machine, i.e. for group 1, you would use `resolv.grp1.dns.nsrc.org`, as you did when you enabled recursion on that server.

1. Grab the root key

NOTE: This is only for the purpose of this lab - on the Internet, you would simply use "unbound-anchor" to download the real root.key, and set "auto-trust-anchor-file:" in `unbound.conf`, and let unbound update the key when necessary.

In this lab, ask your instructor if we are using the "RZM" or not.

With RZM

Go to <https://rzm.dnssek.org/>, and copy the trust-anchor statement (the ENTIRE line) from this page and paste it into a file, `/usr/local/etc/unbound/root.key`

Without RZM

Grab the key from the root server:

```
$ sudo scp sysadm@a.root-servers.net:root.key /tmp/root.key
```

(Alternatively, your instructor may have made the file available on the Web - ask him!)

View the contents of the key (`/tmp/root.key` or where you put it) and copy them.

Edit the `/etc/namedb/named.conf`, and paste the contents at the bottom of the file, in the following format:

```
trusted-keys {  
    // paste here the contents  
};
```

It should look something like this when done:

```
trusted-keys {  
    . 257 3 5 "AwEAAaGF0WNdnZ9krIIB0ZCgR7t6F5ikcKREeRkWQ0xZGIRYKq1hgwu9  
bd+yyg20+NPPfV1ThX5WD4/QJ/tgygLZKTjy3wYcSYBBwXPoTYY9/6lw  
ysD6GjXDHsYHwMWE6usxaEwJNAk3PfSy2q2ZN6LjcfcmZzKmB4saq1ph  
h6nDiYfUJFLzXPRQtW10isLxedCLYZ/I0Ujx2MJd+xmKJ93wt9Du799RF4I+9ZSYMZ+aIRt3LWuq/  
+g60Ipb4cqqtU15rnFYFpDmfq4QXf67tkvYk  
aCaxv0bpd5vj2E86V5HfAQmeaKPX9sGG80LD+GNI531680fZdHje58vZ sW765bV/iVk=";  
};
```

2. Restart the nameserver

```
# service named restart
```

3. Run a few queries:

```
$ dig @localhost +dnssec . SOA
$ dig @localhost +dnssec mytld. SOA
```

What do you notice ?

4. If you haven't already done so, you can go back to the DNS logging exercise, and enable logging on your RESOLV host, and look at the dnssec log file...