

DNS Exercise 1

1. Configure the caching nameserver and resolver on your workstation

If you haven't gotten around to doing it during the presentation, enable your caching nameserver and configure your resolver configuration:

a) edit the file `/etc/rc.conf` and add:

```
named_enable="YES"
```

b) start `named`, the name server process

```
/etc/rc.d/named start
```

c) test that resolution works with `dig`:

```
dig @127.0.0.1 www.afnog.org
```

d) if all works, change your `/etc/resolv.conf` file so that it now contains:

```
search isoc.ripe.net
nameserver 127.0.0.1
```

This will have the effect that you are now using your own nameserver to resolve queries on the Internet.

2. Test that DNS works

Ping other PCs in the room (`pcX.isoc.ripe.net`), where X is 1-9

If in doubt, read the ping manpage (`man ping`)

3. Issue DNS queries using 'dig'

3a. Run each command, look for the ANSWER section and write down the result. Make a note the TTL as well.

Repeat the command. Is the TTL the same?

Are the responses Authoritative?

RESULT 1	RESULT 2
-----	-----

```
# dig www.tiscali.co.uk. a
```

```
# dig ripe.net mx
```

```
# dig pcX.isoc.ripe.net any
```

You will see a bunch of interesting stuff. This will be explained during the DNSSEC section.