

Lab exercises 6 - TSIG

Objective:

Be able to secure zone transfer between master & slave name server using TSIG keys.

1. All the master server will derive a key using "dnssec-keygen" statement

```
% dnssec-keygen -a HMAC-MD5 -b 128 -n HOST ns1-ns2.pcX.net
```

where: x is your pc number.

2. Send the key off-band to your slave name server administrator so they could configure their slave name server to use the key.
3. Update master & slave named.conf with this key. It is recommended to put it in a separate file and use the "include" statement in named.conf to specify this key.
4. Run both master & slave name server and see if zone transfer happen. Zone transfer could also be tested using dig command, try using it with a key

example: without the key which is expected to fail..

```
%dig @server domain axfr
```

example: with a key

```
%dig @server domain axfr -y ns1-ns2.pcX.net:lksdjfq38475-qejflavna==
```

5. If the time difference between master & slave is more than 3 minutes zone transfer will fail even if you have the correct key.