## Setting up a domain

In this exercise, you will register a new domain, *something*.taller.nsrc.org. You will create master nameservice on your own machine, and someone else will be your slave.

Firstly, note that each machine in the classroom has been given a working DNS name: pcX.taller.nsrc.org. Configure your server with its real name: e.g. for pc23

```
# hostname pc23.taller.nsrc.org
# vi /etc/sysconfig/network
NETWORKING=yes
HOSTNAME=pc23.taller.nsrc.org
# vi /etc/hosts
...
192.188.58.87 pc23.taller.nsrc.org
```

(You should see the new name at the login screen on the console)

## Exercise

- 1. Choose a new domain: \_\_\_\_\_\_.taller.nsrc.org
- 2. Create the directories you will need:

```
# mkdir /var/named/m
# mkdir /var/named/s
```

- 3. Find someone who will agree to be slave for your domain. You must choose someone on a DIFFERENT table to you. (Remember RFC2182: secondaries must be on remote networks). You can have more than one slave if you wish.
- 4. Create your zone file in /var/named/m/xxxxxx.taller.nsrc.org (where xxxxxx is your own domain)

```
$TTL 10m
                SOA
                         pcXX.taller.nsrc.org. your.email.address. (
                                 2004030500 ; Serial
                                 10m ; Refresh
10m ; Retry
                                 10m
                                 4w ; Expire 10m ) ; Negative
                         pcXX.taller.nsrc.org. ; master
        TN
               NS
                        pcYY.taller.nsrc.org. ; slave
        IN
                NS
                         192.188.58.xx
www
                                                ; your own IP
```

(Note that we have chosen purposely low values for TTL, refresh, retry. For a production domain you would use higher values, e.g. \$TTL 1d)

- 5. Edit /etc/named.conf to configure your machine as master (see slides for information how to do this)
- 6. Check that your zone file is valid and load it:

```
# named-checkzone xxxxxx.taller.nsrc.org /var/named/m/xxxxxx.taller.nsrc.org
If there are any errors, correct them
# rndc reload
# tail /var/log/messages
If there are any errors, correct them
```

- 7. Get your slaves to configure themselves. If you are slave for someone else, check that there are no errors when you do rndc reload.
- 8. Check that you and your slaves are giving authoritative answers:

```
# dig @192.188.58.xx xxxxxx.taller.nsrc.org. soa
# dig @192.188.58.yy xxxxxx.taller.nsrc.org. soa
Check that you get an AA (authoritative answer) from both, and that
the serial numbers match
```

9. Now you are ready to request delegation. Bring the following form to the classroom

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## instructor:

Domain name:	taller.nsrc.org
Master nameserver:	pctaller.nsrc.org
Slave nameserver:	pctaller.nsrc.org
Slave nameserver:	<pre>pctaller.nsrc.org (optional)</pre>
Slave nameserver:	pc .taller.nsrc.org (optional)

- 10. You will not get delegation until the instructor has checked:
  - Your nameservers are all authoritative for your domain
  - They all have the same SOA serial number
  - The NS records within the zone match the list of servers you are requesting delegation for
  - The slave(s) are not on the same desk as you
- 11. Once you have delegation, try to resolve www.xxxxxx.taller.nsrc.org:
  - On your own machine
  - On someone else's machine (who is not slave for you)
  - On a machine elsewhere on the Internet, if you have access to one
- 12. Add a new entry to your zone file. Remember to update the serial number. Check that your slaves have updated. Try resolving this new name from elsewhere.

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