Objective:

- Participants should be able to create a reverse zone for their 192.168.x.0/24 and create the corresponding PTR records for it.
- Secondary name server should be configured to get the copy of that reverse zone.
- Familiarization with classless reverse dns by configuring your primary name server (192.168.x.1) for /24 and your secondary for /26 assignment.
- 1. Create a reverse zone for your 192.168.x.0/24 ip block under /var/named/master. Create the corresponding PTR record based on the A records of your forward zone. Update your named.conf for this reverse zone and make sure zone transfer happens between master & slave. Use dig to test your name servers if you're getting the correct A record or PTR record from both name servers.
- a) Configure the /24 reverse zone in named.conf of master and slave name server.

b) Configure the /24 reverse zone file in master name server. No need to create this in the slave since it will load the zone file from the master.

- 2. Configure your master name server for classless reverse delegation. Let's assume you're assigning 2 \times /26 from your ip block 192.168.x.0/24 thus
- 192.168.x.0/26 (192.168.x.0 192.168.x.63) You're currently using this so no need to delegate. 192.168.x.64/26 (192.168.x.64- 192.168.x.127)- for customer 1
- 3. Update your existing 192.168.x.0/24 reverse zone to include delegation of /26 subdomain for your customer. The pc on your right will act as your customer so they will configure /26 zone. This should be done in the master name server. You should use the CNAME and glue records to accomplish the classless delegation.

b) Create the /26 zone file in the customer name server

```
$ORIGIN 64-127.x.168.192.in-addr.arpa.
     SOA ns2.pcx.net. root.pcx.net. (
                        20040218
                        1h
                        30m
                        1w
                        24h
           NS
                  ns2.pcx.net.
65
           PTR
                  www.pcx.net.
66
           PTR
                  ftp.pcx.net.
67
           PTR
                  mail.pcx.net.
```

5. use dig to check if delegation works.

ex:

- % dig @server -x 192.168.x.x #dig will look for PTR record.
- % dig @server hostname.domain-name.net #dig will look for A record.