Note that the IP is reversed and has the \texttt{in-addr.arpa.}

100.217.38.144, \texttt{in-addr.arpa.}

If reverse DNS is used, the special DNS name is:

For example, \texttt{144.38.217.100} should match \texttt{mail.desk.example.com}.

Branch of the tree:

The same DNS hierarchically is used, with a special host name.

\texttt{Reverse DNS.} \rightarrow \texttt{Reverse DNS.}

Sometimes systems need to translate IP addresses to

\texttt{System Administration}

\underline{Reverse DNS}
extra work, since we don't each control "5G"
Reverse DNS in our program requires a little.

higher level Authoritative Server.
Reverse DNS also requires delegation from a
like other zones in the system.
Reverse DNS requires Authoritative Servers, just
System Administration.
System Administration

Reverse DNS

Example

Domain: dsc.fau.net
IP Range: 144.38.217.96-127 196-127.217.38.144.in-addr.arpa

Authoritative IPs: 144.38.217.98 (master)
144.38.217.99 (slave)

Registrar: larsen@dixie.edu

<table>
<thead>
<tr>
<th>Host names</th>
<th>IPS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ns1</td>
<td>98</td>
</tr>
<tr>
<td>ns2</td>
<td>99</td>
</tr>
<tr>
<td>mail</td>
<td>100</td>
</tr>
<tr>
<td>www</td>
<td>161</td>
</tr>
</tbody>
</table>
5. Test, Test, Test!

4. Configure registrar to delegate to authoritative servers.

3. Configure one or more authoritative slave.

2. Configure one authoritative master.

1. Checkout IPs from system.

Setup Steps

Reverse DNS System Administration
System Administration

Reverse DNS

Authoritative Master Setup

1- Install bind9 (if needed).
2- Configure named.conf.local with authoritative zone record.
3- Create zone file.
4- Restart named.
5- Check syslog for errors.
6- Test server for responses.
7- Fix errors, until correct.
1. Install binding (if needed)

2. Configure named.conf. Local with authoritative

3. Restart named.

4. Check syshog for errors.

5. Check maile syshog for errors.

6. Test system for responses.

7. Fix errors, until correct.

Reverse DNS

System Administration

Adminstration
5 - Correct errors, until works as expected.
4 - Test delegation
3 - Send information to registrar.
2 - Collect name of reverse DNS zone.
1 - Collect hostnames of all authoritative servers.

Registrar Delegation Setup

Reverse DNS System Administration