**Domain:** dsutux.us

**Authoritative Servers:**
- 144.38.214.2 (master)
- 144.38.214.3 (slave)

**Registrar:** godaddy.com

<table>
<thead>
<tr>
<th>Hostnames</th>
<th>IPs</th>
</tr>
</thead>
<tbody>
<tr>
<td>ns1</td>
<td>144.38.214.2</td>
</tr>
<tr>
<td>ns2</td>
<td>144.38.214.3</td>
</tr>
<tr>
<td>mail</td>
<td>144.38.214.5</td>
</tr>
<tr>
<td>www</td>
<td>144.38.214.6</td>
</tr>
</tbody>
</table>
System Administration

DNS Example

Setup Steps

1- Purchase domain from registrar.
2- Configure one authoritative master.  [test it!]
3- Configure one or more authoritative slaves.  [test them!]
4- Configure registrar to delegate to authoritative servers.  [test it!]
5- Test, Test, Test!
**System Administration**

**Authoritative Master Setup**

1. Install `bind9`.
2. Configure `/etc/bind/named.conf.local` to be authoritative master.
3. Create zone file in `/etc/bind`.
4. Restart `named`.
5. Check `/var/log/syslog` for errors.
6. Test server for responses.
7. Fix errors until correct.

**DNS Example**
System Administration

Authoritative Slave Setup

1- Install bind9.

2- Configure /etc/bind/named.conf.local to be authoritative slave.

3- Restart named.

4- Check /var/log/syslog for errors, transfer of zone file.

5- Check /var/log/syslog on master for errors, transfers of zone file.

6- Test server for responses.

7- Fix errors until correct.
System Administration

DNS Example

Registrar Delegation Setup

1- Add host entries for each authoritative server.
   e.g. nsl.dsufux.us \rightarrow 144.38.214.2

2- Set nameservers.
   - Specific nameservers for your domain
   - Add all authoritative servers by name.

3- Test

4- Correct errors until works as desired.