## **NIS Server Configuration**

- Install the portmap and ypserv RPMs
- Set the NIS domain name
  - Run nisdomainname mydomain
  - In /etc/sysconfig/network insert the line:

NISDOMAIN=mydomain

 In /var/yp/securenets, specify the networks that may use your server:

```
• 255.255.255.255 127.0.0.1
255.255.255.0 192.168.0.0
```

Start ypserv



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Whether installing a master server or a slave server, the initial configuration steps for a NIS server will be similar. Before starting, make sure that the portmap and ypserv packages are already installed on the machine.

Choose an arbitrary string for your NIS domain name. This does not need to be the same as your DNS domain name, and some system administrators feel that it is a good idea not to make them the same for security reasons. (Any client that can communicate with your server and knows its NIS domain name can bind to it and get full access to the NIS directory.) Set this by running **nisdomainname your-domain-name** as root. To make sure this happens at boot, add the line NISDOMAIN=your-domain-name to /etc/sysconfig/network.

To limit which clients can communicate with your server, create a /var/yp/securenets file. Each line in this file should be a netmask and network number for networks that contain NIS clients:

255.255.255.255 127.0.0.1 255.255.255.0 192.168.0.0

Finally, make sure ypserv is running:

chkconfig ypserv on service ypserv start

## **Configuring a Master Server**

 To share only user, group, and host name information, edit /var/yp/Makefile

all: passwd group hosts netid

• Build the NIS maps from local files by using the Makefile:

/usr/lib/yp/ypinit -m

- Start yppasswdd to allow password updates
  - Clients use yppasswd to change the NIS password



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Many simple NIS configurations only share passwd, shadow, group, and host information. There are a multitude of other resources that may be shared, but they are often not needed by clients. A Makefile in /var/yp/ controls how NIS maps are built from local files. You can limit which NIS maps are built by editing the all target:

all: passwd group hosts netid

While editing this Makefile, there are additional variables (or *macros*) that may need to be set:

NOPUSH=true MERGE\_PASSWD=true MERGE\_GROUP=false

NOPUSH should be set to true if you have no slave servers. If you have slave servers, it should be set to false. MERGE\_PASSWD should be set to true if you want to merge password hashes from /etc/shadow into the NIS passwd map. MERGE\_GROUP should be set to true if you want to merge group password hashes from /etc/gshadow into the NIS group map.

Once /var/yp/Makefile has been edited, build the NIS maps by running /usr/lib/yp/ypinit -m as root on the master server. This will store the NIS maps as Berkeley DB files in /var/yp/domainname. Note that this command is not in your path: it only needs to be run once to initialize the master or slave server.

If you want to allow users to change NIS passwords, start rpc.yppasswdd:

chkconfig yppasswdd on service yppasswdd start

Clients can then use **yppasswd** to change their NIS passwords.