Install and Configure NIS server (Master Server)

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Requirements
- System with internet access and needs to be connected to LAN
- CentOS8 Stream
- Know your Network (192.168.1.8)

Steps for installation of NIS server

1. Install the related software packages

```
[root@osboxes yum.repos.d]# sudo yum update -y
CentOS Linux 8 - AppStream                          3.3 MB/s | 8.4 MB     00:02
CentOS Linux 8 - BaseOS                             3.0 MB/s | 4.6 MB     00:01
CentOS Linux 8 - Extras                              52 kB/s |  10 kB     00:00
Dependencies resolved.
=================================================================================
 Package                        Arch    Version                    Repo      Size
=================================================================================
Installing:
 kernel                         x86_64 4.18.0-348.7.1.el8_5  baseos     7.0 M
Upgrading:
 accountsservice                x86_64 0.6.55-2.el8_5.2           appstream 139 k
 accountsservice-libs           x86_64 0.6.55-2.el8_5.2           appstream  96 k
```

```
[root@osboxes yum.repos.d]# dnf -y install ypserv rpcbind
Last metadata expiration check: 0:08:16 ago on Wed 02 Oct 2024 03:40:42 AM EDT.
Package rpcbind-1.2.5-8.el8.x86_64 is already installed.
Dependencies resolved.
=================================================================================
 Package          Arch      Version                      Repository     Size
=================================================================================
Installing:
 ypserv           x86_64    4.0-6.20170331git5bfba76.el8    appstream     171 k
Installing dependencies:
 make             x86_64    1:4.2.1-10.el8                  baseos        498 k
 tokyocabinet     x86_64    1.4.48-10.el8                   appstream     486 k

Transaction Summary
=================================================================================
Install  3 Packages
```

2. Set your domain name

```
[root@osboxes yum.repos.d]# ypdomainname chetan
```

3. Make the domain permanent such that if you reboot your system the domain remains valid.

```
[root@osboxes ~]# gedit /etc/sysconfig/network
```
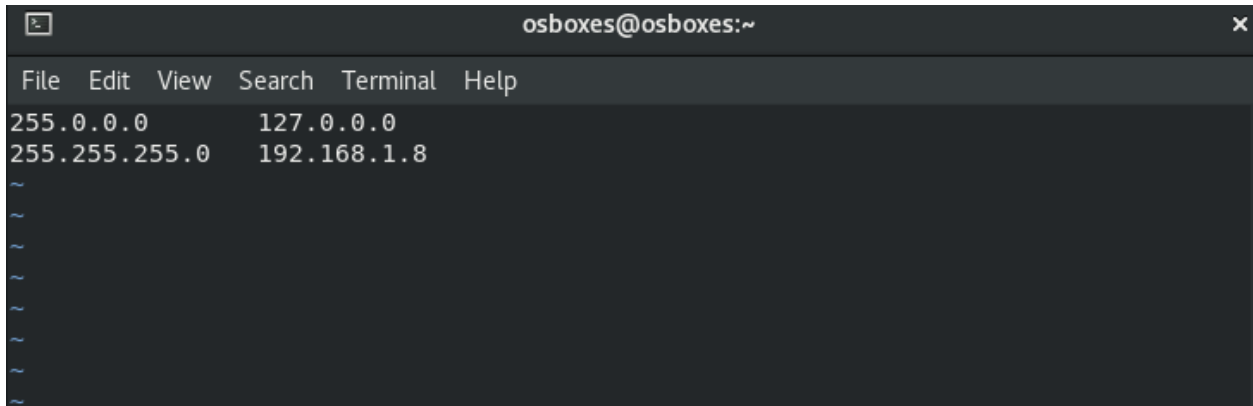
| Open ▼ | 🖳 | network /etc/sysconfig | Save | ≡ | ✕ |

```
# Created by anaconda

NISDOMAIN=chetan
```

4. Run this command and add the address to that file and save it by :wq

```
[root@osboxes ~]# vi /var/yp/securenets
[root@osboxes ~]# vi /var/yp/securenets
```
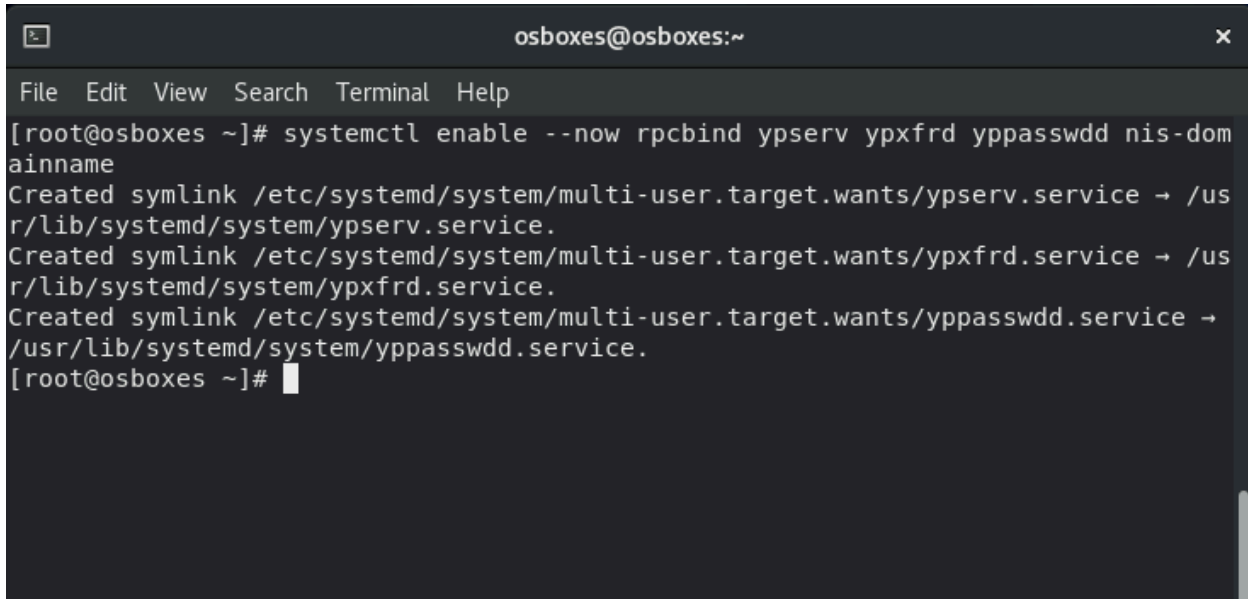
osboxes@osboxes:~   ✕
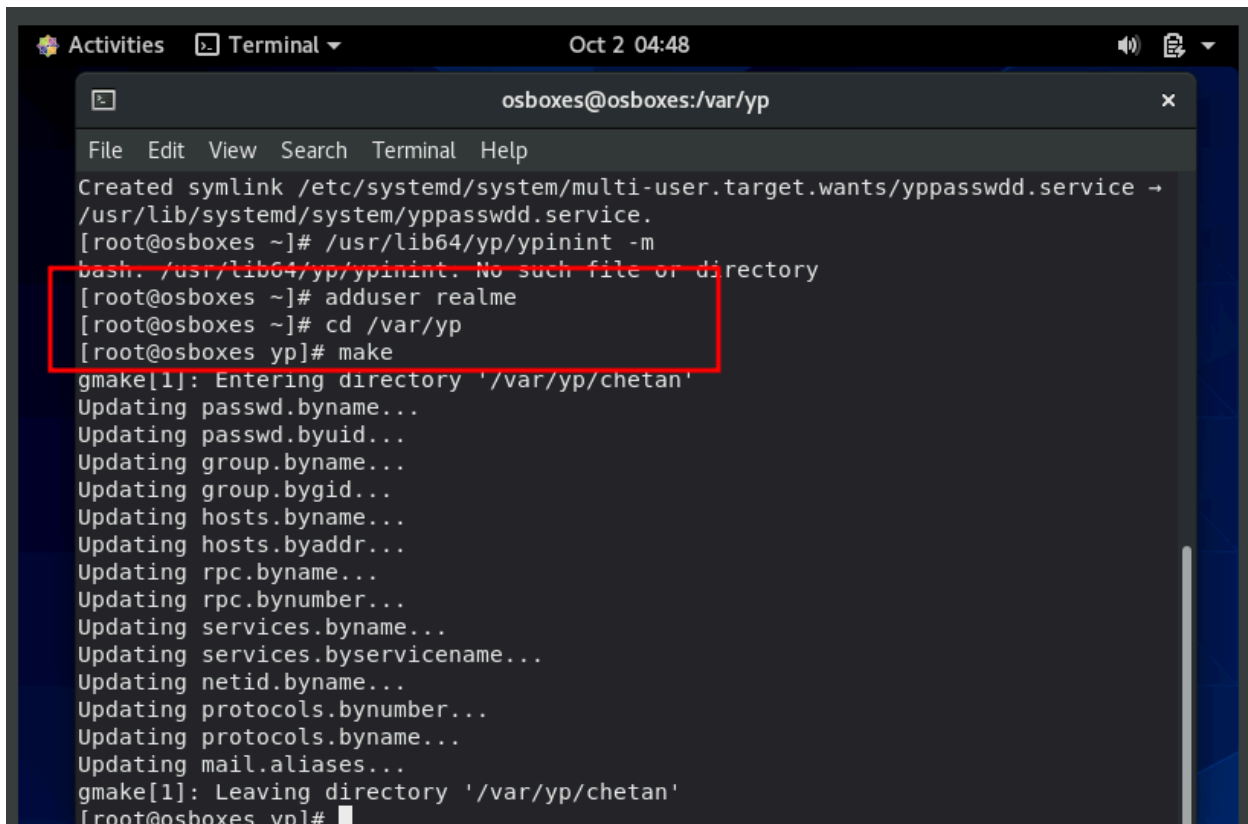
File Edit View Search Terminal Help

```
255.0.0.0        127.0.0.0
255.255.255.0    192.168.1.8
~
~
~
~
~
~
~
~
```

5. To start the NIS related services run this command


```
[root@osboxes ~]# systemctl enable --now rpcbind ypserv ypxfrd yppasswdd nis-dom
ainname
Created symlink /etc/systemd/system/multi-user.target.wants/ypserv.service → /us
r/lib/systemd/system/ypserv.service.
Created symlink /etc/systemd/system/multi-user.target.wants/ypxfrd.service → /us
r/lib/systemd/system/ypxfrd.service.
Created symlink /etc/systemd/system/multi-user.target.wants/yppasswdd.service →
/usr/lib/systemd/system/yppasswdd.service.
[root@osboxes ~]#
```

6.Initialize NIS server as Master server and update NIS database
Add some user and rebuild your NIS database


```
Created symlink /etc/systemd/system/multi-user.target.wants/yppasswdd.service →
/usr/lib/systemd/system/yppasswdd.service.
[root@osboxes ~]# /usr/lib64/yp/ypinint -m
bash: /usr/lib64/yp/ypinint: No such file or directory
[root@osboxes ~]# adduser realme
[root@osboxes ~]# cd /var/yp
[root@osboxes yp]# make
gmake[1]: Entering directory '/var/yp/chetan'
Updating passwd.byname...
Updating passwd.byuid...
Updating group.byname...
Updating group.bygid...
Updating hosts.byname...
Updating hosts.byaddr...
Updating rpc.byname...
Updating rpc.bynumber...
Updating services.byname...
Updating services.byservicename...
Updating netid.byname...
Updating protocols.bynumber...
Updating protocols.byname...
Updating mail.aliases...
gmake[1]: Leaving directory '/var/yp/chetan'
[root@osboxes yp]#
```

7. Disable firewall and don not enforce Selinux policy

```
[root@osboxes yp]# systemctl stop firewalld
[root@osboxes yp]# systemctl disable firewalld
Removed /etc/systemd/system/multi-user.target.wants/firewalld.service.
Removed /etc/systemd/system/dbus-org.fedoraproject.FirewallD1.service.
[root@osboxes yp]#
```