**Installing Cobbler:**

Automate and Manage Systems Installation with Cobbler

<https://www.ibm.com/developerworks/library/l-cobbler/>

How to configure PXE boot server in Linux using Red Hat 6

<http://www.golinuxhub.com/2014/08/how-to-configure-pxe-boot-server-in.html>

**Install software:**

yum install epel-release

yum -y install cobbler fence-agents dnsmasq syslinux pykickstart xinetd

**Starting and enabling Cobbler:**

systemctl start cobblerd ; systemctl enable cobblerd

systemctl start httpd ; systemctl enable httpd

**Either disable or reduce security setting for selinux:**

setenforce 0

sed s/SELINUX=enforcing/SELINUX=permissive /etc/selinux/config

**Configure firewall:**

firewall-cmd --add-port=80/tcp --permanent  
firewall-cmd --add-port=443/tcp --permanent  
firewall-cmd --add-service=dhcp --permanent  
firewall-cmd --add-port=69/tcp --permanent  
firewall-cmd --add-port=69/udp --permanent  
firewall-cmd --add-port=4011/udp --permanent  
firewall-cmd --reload

**Configuration:**

**Encrypted password:**

openssl passwd -1

**In /etc/cobber/settings set:**

default\_password\_crypted: "Output from openssl -1"

manage\_dhcp: 1

manage\_dns: 1

manage\_tftpd: 1

restart\_dhcp: 1

pxe\_just\_once: 1

next\_server: “this host’s ip address”

server: “this host’s ip address”

**In /etc/cobbler/modules.conf set:**

[dns]

module = manage\_dnsmasq

[dhcp]

module = manage\_dnsmasq

[tftpd]

module = manage\_in\_tftpd

**/etc/cobbler/dnmasq.template:**

#--------------------------------------------------------------------------------

# Cobbler generated configuration file for dnsmasq

# $date

#

# resolve.conf .. ?

#no-poll

#enable-dbus

read-ethers

addn-hosts = /var/lib/cobbler/cobbler\_hosts

dhcp-range=172.16.9.194,172.16.9.200,255.255.240.0,1h

dhcp-ignore=tag:!known

dhcp-option=66,$next\_server

dhcp-lease-max=1000

dhcp-authoritative

dhcp-boot=pxelinux.0

dhcp-boot=net:normalarch,pxelinux.0

dhcp-boot=net:ia64,$elilo

$insert\_cobbler\_system\_definitions

#------------------------------------------------------------

**Restart Cobbler:**

systemctl restart cobblerd

cobbler sync

systemctl restart xinetd

**Create your first install media:**

Download an installation ISO. This is the same ISO that was used to create the USB sticks.

mkdir -p /var/lib/cobbler/isos

cd /var/lib/cobbler/isos

curl -o CentOS7-x86\_64-Everything.iso\

<http://192.168.133.60/software/isos/CentOS-7-x86_64-Everything-1708.iso>

mkdir /mnt/iso

mount -o loop /var/lib/cobbler/isos/CentOS7-x86\_64-Everything.iso /mnt/iso

cobbler import --arch=x86\_64 --path=/mnt/iso --name=CentOS7