

## **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
```