**PXE Server**

yum install dhcp tftp tftp-server syslinux vsftpd xinetd

vi /etc/dhcp/dhcpd.conf -->

ddns-update-style interim;

ignore client-updates;

authoritative;

allow booting;

allow bootp;

allow unknown-clients;

# internal subnet for my DHCP Server

subnet 192.168.16.0 netmask 255.255.255.0 {

range 192.168.16.50 192.168.16.100;

option domain-name-servers 192.168.16.132;

option domain-name "pxe.example.com";

option routers 192.168.16.132;

option broadcast-address 192.168.16.255;

default-lease-time 600;

max-lease-time 7200;

# IP of PXE Server

next-server 192.168.16.132;

filename "pxelinux.0";

}

vi /etc/xinetd.d/tftp -->

service tftp

{

socket\_type = dgram

protocol = udp

wait = yes

user = root

server = /usr/sbin/in.tftpd

server\_args = -s /var/lib/tftpboot

disable = no

per\_source = 11

cps = 100 2

flags = IPv4

}

cp -v /usr/share/syslinux/pxelinux.0 /var/lib/tftpboot

cp -v /usr/share/syslinux/menu.c32 /var/lib/tftpboot

cp -v /usr/share/syslinux/memdisk /var/lib/tftpboot

cp -v /usr/share/syslinux/mboot.c32 /var/lib/tftpboot

cp -v /usr/share/syslinux/chain.c32 /var/lib/tftpboot

mkdir /var/lib/tftpboot/pxelinux.cfg

mkdir /var/lib/tftpboot/networkboot

mount -o loop CentOS-7-x86\_64-DVD-1511.iso /mnt/

cd /mnt/

cp -av \* /var/ftp/pub/

cp images/pxeboot/vmlinuz /var/lib/tftpboot/networkboot/

cp images/pxeboot/initrd.img /var/lib/tftpboot/networkboot/

vi /var/lib/tftpboot/pxelinux.cfg/default -->

default menu.c32

prompt 0

timeout 30

MENU TITLE LinuxYoav PXE Menu

LABEL centos7\_x64

MENU LABEL CentOS 7\_X64

KERNEL /networkboot/vmlinuz

APPEND initrd=/networkboot/initrd.img inst.repo=ftp://192.168.16.132/pub

systemctl start/enable xinetd

systemctl start/enable dhcpd.service

systemctl start/enable vsftpd

setsebool -P allow\_ftpd\_full\_access 1

firewall-cmd --add-service=ftp --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

<https://www.linuxtechi.com/configure-pxe-installation-server-centos-7/>

label knoppix  
MENU LABEL knoppix  
kernel /netboot/knoppix/knoppix-kernel  
append nfsdir=172.20.30.1:/knoppix nodhcp lang=us ramdisk\_size=100000 init=/etc/init apm=power-off nomce vga=791 xmodule=fbdev initrd=/netboot/knoppix/knoppix-miniroot.gz BOOT\_IMAGE=knoppix

Please note that if you want your Knoppix to boot into runlevel 2 then you have to change vga=791 to vga=normal 2