

```
joe@dhcp-it3110:/etc/dhcp$ echo "First to update the dhcpd.conf file"
```

```
First to update the dhcpd.conf file
```

```
joe@dhcp-it3110:/etc/dhcp$
```

```
# If this DHCP server is the official DHCP server for the local
# network, the authoritative directive should be uncommented.
authoritative;
```

```
# Use this to send dhcp log messages to a different log file (you also
# have to hack syslog.conf to complete the redirection).
log-facility local7;
```

```
# No service will be given on this subnet, but declaring it helps the
# DHCP server to understand the network topology.
```

```
subnet 144.38.193.192 netmask 255.255.255.192 {
  range 144.38.193.220 144.38.193.230;
  option subnet-mask 255.255.255.192;
  option routers 144.38.193.193;
```

```
#added these two options
#instruct the machine to load this file
filename "pxelinux.0";
# from this server
next-server 144.38.193.210;
```

```
}
```

```
joe@dhcp-it3110:/etc/dhcp$ sudo service isc-dhcp-server restart
```

```
joe@dhcp-it3110:~$ echo "Install tftp somewhere. Doesn't have to be same machine as dhcp"  
Install tftp somewhere. Doesn't have to be same machine as dhcp  
joe@dhcp-it3110:~$ sudo apt install inetutils-inetd tftpd-hpa
```

```
joe@dhcp-it3110:~$ echo "Configure tftpd to start automatically"
```

```
Configure tftpd to start automatically
```

```
joe@dhcp-it3110:~$ sudo vi /etc/default/tftpd-hpa 
```

```
# /etc/default/tftpd-hpa
```

```
RUN_DAEMON="yes"
```

```
OPTIONS="ls -s /var/lib/tftpboot"
```

```
TFTP_USERNAME="tftp"
```

```
TFTP_DIRECTORY="/var/lib/tftpboot"
```

```
TFTP_ADDRESS=":69"
```

```
TFTP_OPTIONS="--secure"
```

```
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```

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```

```
"/etc/default/tftpd-hpa" 8 lines, 176 characters
```

```
joe@dhcp-it3110:~$ echo "Configure tftpd to start automatically"
```

```
Configure tftpd to start automatically
```

```
joe@dhcp-it3110:~$ sudo vi /etc/default/tftpd-hpa
```

```
joe@dhcp-it3110:~$ sudo /etc/init.d/tftpd-hpa restart
```

```
[ ok ] Restarting tftpd-hpa (via systemctl): tftpd-hpa.service.
```

```
joe@dhcp-it3110:~$
```



```
joe@dhcp-it3110:~$ netstat -atu
```

```
Active Internet connections (servers and established)
```

Proto	Recv-Q	Send-Q	Local Address	Foreign Address	State
tcp	0	0	localhost:domain	0.0.0.0:*	LISTEN
tcp	0	0	0.0.0.0:ssh	0.0.0.0:*	LISTEN
tcp	0	256	dhcp-it3110:ssh	yavin.cs.dixie.ed:38458	ESTABLISHED
tcp6	0	0	:::ssh	:::*	LISTEN
udp	0	0	localhost:domain	0.0.0.0:*	
udp	0	0	0.0.0.0:bootps	0.0.0.0:*	
udp	0	0	0.0.0.0:tftp	0.0.0.0:*	
udp	0	0	0.0.0.0:51424	0.0.0.0:*	
udp6	0	0	:::tftp	:::*	
udp6	0	0	:::2806	:::*	

```
joe@dhcp-it3110:~$
```



```
joe@dhcp-it3110:/var/lib/tftpboot$ echo "going to put netboot files in this dir"  
going to put netboot files in this dir  
joe@dhcp-it3110:/var/lib/tftpboot$ █
```



netboot ubuntu



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cdimage.ubuntu.com › netboot ▾

Ubuntu Netboot Images - Ubuntu CDImage

Ubuntu Netboot Images. **Netboot** images of **Ubuntu** are available for the following releases:

Ubuntu 12.04 LTS (Precise Pangolin) · **Ubuntu** 14.04 LTS (Trusty ...

Ubuntu 18.04 LTS (Bionic · **Ubuntu** 16.04 LTS (Xenial Xerus) · **Precise** Pangolin

help.ubuntu.com › community › Installation › Netboot ▾

Installation/Netboot - Community Help Wiki - Ubuntu ...

Mar 23, 2014 - NOTE: Both **netboot** and installation from CD, of any release greater than 6.06, will fail on many SPARC machines with the message "Fast Data ...

wiki.ubuntu.com › UEFI › PXE-netboot-install ▾

UEFI/PXE-netboot-install - Ubuntu Wiki

Sep 23, 2016 - UEFI PXE **netboot** / install procedure. Method developed by Will Tinsdeall <will.tinsdeall+opensource@mercianlabels.com>. Original article by ...

cdimage.ubuntu.com › netboot ▾

Ubuntu 18.04 LTS (Bionic Beaver) Netboot - Ubuntu CDImage

Ubuntu 18.04 LTS (Bionic Beaver) **Netboot**. For advice on using **netboot** images, see the installation guide. These are generally aimed at experienced users with ...

Ubuntu Netboot Images

Netboot images of Ubuntu are available for the following releases:

- [Ubuntu 12.04 LTS \(Precise Pangolin\)](#)
- [Ubuntu 14.04 LTS \(Trusty Tahr\)](#)
- [Ubuntu 16.04 LTS \(Xenial Xerus\)](#)
- [Ubuntu 18.04 LTS \(Bionic Beaver\)](#)
- [Ubuntu 19.04 \(Disco Dingo\)](#)
- [Ubuntu 19.10 \(Eoan Ermine\)](#)

ubuntu[®]

Ubuntu 19.10 (Eoan Ermine) Netboot

For advice on using netboot images, see the [installation guide](#). These are generally aimed at experienced users with special requirements.

Select an architecture

Netboot images are available for the following architectures:

- [amd64](#) - For 64-bit Intel/AMD (x86_64)
- [i386](#) - For 32-bit Intel/AMD (x86)
- [arm64](#) - For 64-bit ARM (ARMv8)
- [armhf](#) ([generic](#), [generic-lpae](#)) - For 32-bit ARM (ARMv7)
- [ppc64el](#) - For Little-Endian PowerPC (POWER8)
- [s390x](#) - For IBM System z



Index of /ubuntu/dists/eoan/main/installer-amd64/current/images/netboot

<u>Name</u>	<u>Last modified</u>	<u>Size</u>
Parent Directory		-
boot.img.gz	2019-10-12 03:53	58M
ldlinux.c32	2019-10-12 03:53	116K
mini.iso	2019-10-12 03:53	73M
netboot.tar.gz	2019-10-12 03:53	58M
pxelinux.0	2019-10-12 03:53	41K
pxelinux.cfg/	2019-10-12 03:53	-
ubuntu-installer/	2019-10-12 03:53	-
xen/	2019-10-12 03:53	-

Apache/2.4.18 (Ubuntu) Server at archive.ubuntu.com Port 80

```
joe@dhcp-it3110: /var/lib/tftpboot$ ls
```

```
netboot.tar.gz
```

```
joe@dhcp-it3110: /var/lib/tftpboot$ █
```



```
joe@dhcp-it3110:/var/lib/tftpboot$ echo "untar extract"
```

```
untar extract
```

```
joe@dhcp-it3110:/var/lib/tftpboot$ sudo tar -xvzf netboot.tar.gz
```

```
drwxrwxr-x root/root          0 2019-10-11 19:13 ./
lrwxrwxrwx root/root          0 2019-10-11 19:13 ./pxelinux.cfg -> ubuntu-installer/amd64/pxelinux
x.cfg
lrwxrwxrwx root/root          0 2019-10-11 19:13 ./ldlinux.c32 -> ubuntu-installer/amd64/boot-scr
eens/ldlinux.c32
lrwxrwxrwx root/root          0 2019-10-11 19:13 ./pxelinux.0 -> ubuntu-installer/amd64/pxelinux.
0
drwxrwxr-x root/root          0 2019-10-11 19:13 ./ubuntu-installer/
drwxrwxr-x root/root          0 2019-10-11 19:13 ./ubuntu-installer/amd64/
-rw-rw-r-- root/root 51142296 2019-10-11 19:13 ./ubuntu-installer/amd64/initrd.gz
drwxrwxr-x root/root          0 2019-10-11 19:13 ./ubuntu-installer/amd64/pxelinux.cfg/
lrwxrwxrwx root/root          0 2019-10-11 19:13 ./ubuntu-installer/amd64/pxelinux.cfg/default ->
../boot-screens/syslinux.cfg
drwxrwxr-x root/root          0 2019-10-11 19:13 ./ubuntu-installer/amd64/boot-screens/
-rw-rw-r-- root/root          689 2019-10-11 19:13 ./ubuntu-installer/amd64/boot-screens/menu.cfg
-rw-rw-r-- root/root          417 2019-10-11 19:13 ./ubuntu-installer/amd64/boot-screens/f4.txt
-rw-rw-r-- root/root          125 2019-10-11 19:13 ./ubuntu-installer/amd64/boot-screens/exithelp.c
fg
-rw-r--r-- root/root       119220 2019-10-11 19:13 ./ubuntu-installer/amd64/boot-screens/ldlinux.c3
2
-rw-rw-r-- root/root          916 2019-10-11 19:13 ./ubuntu-installer/amd64/boot-screens/f7.txt
```

```
joe@dhcp-it3110:/var/lib/tftpboot$ ls
```

```
ldlinux.c32 netboot.tar.gz pxelinux.0 pxelinux.cfg ubuntu-installer version.info
```

```
joe@dhcp-it3110:/var/lib/tftpboot$ echo "pxelinux.0 is the file that dhcp will tell clients to boot"
```

```
pxelinux.0 is the file that dhcp will tell clients to boot
```

```
joe@dhcp-it3110:/var/lib/tftpboot$
```

```
joe@dhcp-it3110:~$ echo "now netboot a client"
```

```
now netboot a client
```

```
joe@dhcp-it3110:~$ 3~~~~
```