

How To install Clonezilla On Server

Purpose

This document is a guide for how to install Clonezilla on Server

Audience

This document is applicable for Baobab Health Trust staff (Operations Department)

Installing Clonezilla On Server

The process described below assumes that the server to carry clonezilla has access to the Internet during the whole of the process.

It also assumes the server is on the IP Address of 192.168.5.200. If what is described in this document, then please do make changes to suit your system configuration.

I am also using nano as my text editor, but you can use any text editor e.g. vim, vi ...

1. Install TFTP server

This is the application/server that enables the J2s or any other computer to be able to boot from the server.

Option A

sudo apt-get install tftpd-hpa sudo start tftpd-hpa

Ensure /var/lib/tftpboot exists. If it does not: mkdir -p /var/lib/tftpboot Ensure that the values in /etc/defaults/tftpd-hpa match.

NOTE: if you are using the latest ubuntu/ubuntu server you should have the file /etc/default/tftpd-hpa, looking like this:

else, Ensure that the values in /etc/default/tftpd.conf match. Make sure that that the line which says "use daemon is changed fro "no" to "yes" and make

sure that the last parameter in the 'OPTIONS' string points



to a usable location on your file system. It's going to store the boot files needed by PXE and by default this points to '/var/lib/tftpboot'"

2. Install DHCP server

This application makes the server to give DHCP (Dynamic Host Configuration Protocol) to the clients/ IP addresses to the clients and the additional parameters enable the client to get DHCP service at boot up.

Alternative A

sudo apt-get install dhcp3-server sudo vim /etc/dhcp3/dhcpd.conf

Add something similar to the following...

```
File Edit View Terminal Help

default-lease-time 86400;
max-lease-time 604800;
authoritative;

subnet 192.168.5.0 netmask 255.255.255.0 {
    range 192.168.5.100 192.168.5.150;
    filename "pxelinux.0";
    next-server 192.168.5.200;
    option subnet-mask 255.255.255.0;
    option broadcast-address 192.168.5.255;
    option routers 192.168.5.200;

Baobab Intern.}
```

*** After editing the file should look like this image

sudo service dhcp3-server start

Note: **** The next-server option needs to be the IP of the TFTP server. Everything else should be self explanatory.

Alternative B:

*** NOTE: If you already have dnsmasq installed (which our servers already have and use it as a dhcp server for the J2s), you may skip steps one and two straight to step three

- sudo apt-get install dnsmasq
- 2. sudo apt-get install dnsmasq-base
- 3. sudo nano /etc/dnsmasq.conf

Next add these four lines to the bottom of the file, changing the IP addresses to suit your network's configuration:

dhcp-range=192.168.5.100 192.168.198.150,12h (mostly this line is available if the server was already configured)

dhcp-boot=pxelinux.0,192.168.5.200 dhcp-option=3,192.168.5.200 dhcp-option=6,192.168.5.200

3. Install syslinux if it is not already (it should be). Copy over pxelinux.0 into the appropriate location.

- 1. sudo apt-get install syslinux
- 2. sudo cp /usr/lib/syslinux/pxelinux.0 /var/lib/tftpboot

4. Copy Clonezilla files to /var/lib/tftpboot

Once you have tftpd-hpa running on the server, it will look for the Linux image to load and this section will tell it what Linux (i.e. will be clonezilla, just to be configured).

This can be done in two ways.

Option A:

This is assuming that you have a Clonezilla live ISO Image.

In this case I will using clonezilla-live-1.2.6-59-i686.iso and I will be mounting it in /mnt

- 1. sudo mount -o loop /path/to/ clonezilla-live-1.2.6-59-i686.iso /mnt/
- 2. cd /mnt (or to any directory where you mounted the ISO)
- 3. sudo cp live/vmlinuz /var/lib/tftpboot/
- 4. sudo cp live/initrd.img /var/lib/tftpboot/
- 5. sudo cp live/filesystem.squashfs /var/lib/tftpboot/
- 6. cd /var/lib/tftpboot
- 7. sudo touch boot.txt
- 8. sudo mkdir pxelinux.cfg
- 9. sudo touch pxelinux.cfg/default

Option B

If you have all of these files stored somewhere you can copy them to the right directories. Or you can copy them from an already set up server and paste them in /var/lib/tftpboot directory You can get all of these files on cottonwood from their respective copy-to directories.

**** Your tree should end up looking something like this in the end:



5. Create configurations

For the boot .txt you can find it on cottonwood /var/lib/tftpboot/ and then copy it to the server being configure d's /var/lib/tftpboot

And finally the pxe config...

sudo nano pxelinux.cfg/default

Looked something like this:

DISPLAY boot.txt

DEFAULT clonezilla

LABEL clonezilla

kernel vmlinuz

append initrd=initrd.img boot=live edd=off union=aufs noswap noprompt vga=788 nomodeset nosplash netboot=nfsetch=tftp://192.168.5.201/filesystem.squashfs

LABEL clonezilla_safe

kernel vmlinuz

append initrd=initrd.img boot=live edd=off union=aufs noswap noprompt vga=normal nomodeset nosplash dnetboot=nfs fetch=tftp://192.168.5.201/filesystem.squashfs

***** Please note that the IP address should be the IP of the TFTP server *****

REBOOT THE SERVER AND ALL IS SET