

Cloning a Linux Machine from Backups

The procedure below details how to clone a Linux machine from backups taken with the “dump” utility.

1. Boot from CD/DVD into “Rescue” mode

2. Use fdisk to create partitions

- One Linux partition for /boot
- One Linux LVM partition (type 8e) for everything else

3. Create a Physical Volume on the LVM partition

```
lvm pvcreate /dev/sda3
```

4. Create Volume Group

```
lvm vgcreate -s 32768k VolGroup00 /dev/sda3
```

5. Create Logical Volumes

```
lvm lvcreate -L <size> -n LogVol00 VolGroup00
```

```
lvm lvcreate -L <size> -n LogVol01 VolGroup00
```

```
:  
:
```

```
lvm lvcreate -l 100%FREE -n LogVol0n VolGroup00 (to use all remaining space)
```

6. Create boot partition

```
mke2fs -j -L"/boot" /dev/sda2
```

7. Create other partitions

```
mke2fs -j /dev/VolGroup00/LogVolxx
```

8. Create swap partition

```
mkswap /dev/VolGroup00/LogVolss
```

9. Reduce interval between filesystem checks (optional)

```
tunefs -c 1 /dev/sda2
```

```
tunefs -c 5 /dev/VolGroup00/LogVolxx
```

10. Mount each volume in turn and restore onto it

```
mkdir /new
mount /dev/VolGroup00/LogVol00 /new
cd /new
restore rf <root-dump-image>
mount /dev/sda2 /new/boot
cd /new/boot
restore rf <boot-dump-image>
...etc
```

11. Install grub boot loader

```
ln -s /new/sbin/grub /sbin (if /sbin/grub doesn't exist in the Rescue image you are running)
/new/sbin/grub-install --root-directory=/new /dev/sda
```

12. Fix MAC addresses in /new/etc/sysconfig/networks-scripts/ifcfg-ethx

13. Check /new/etc/fstab to make sure that the mount points are all correct

This is necessary if the newly-created mount points don't exactly match the mount points from the original machine