



Mount and repair a KVM / Xen virtual guest image file

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Pegasi Knowledge

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Mount and repair a KVM / Xen virtual guest image file

Once upon a time there was a very old and grumpy server with ancient virtual guests. So it came to be that a major power failure occurred rendering one of the guests useless. Logs told me that it might be due to problems with file systems so here is how to mount and fsck them.

Firstly check the first available loopback device

```
losetup -f
```

Use the device shown by this command to set up the device

```
losetup /dev/loop0 <image>  
kpartx -av /dev/loop0
```

Observe with fdisk

```
fdisk -l /dev/loop0
```

Identify the file system on each partition

```
file -Ls /dev/mapper/loop0p1
```

Repair with the tool appropriate to the file system type

```
fsck.ext4 /dev/mapper/loop0p1
```