

# 2. Extracting the XVA to Raw Disk

In this Chapter, I will cover how to use `xva-img` to extract the disk from the XVA file to a raw disk which will later be converted to a VMDK

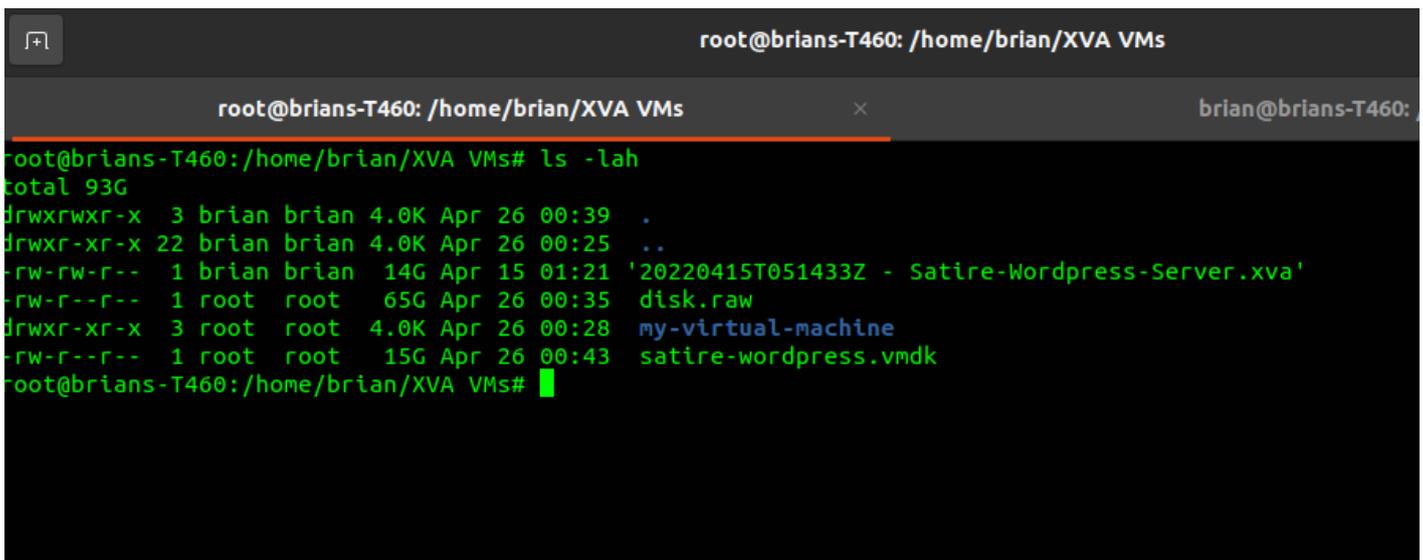
- [2.1 Extract the XVA File to Raw Disk](#)

# 2.1 Extract the XVA File to Raw Disk

**Objective:** Extract the disk from the from the XVA to a raw disk to be converted to VMDK.

**Step 1.** Navigate to a location that you would like to work from. In my scenario, I am working from my user's home directory in a folder name 'XVA VMs'

Belows is a screenshot of my working directory



```
root@brians-T460: /home/brian/XVA VMs
root@brians-T460: /home/brian/XVA VMs
root@brians-T460:/home/brian/XVA VMs# ls -lah
total 93G
drwxrwxr-x  3 brian brian 4.0K Apr 26 00:39 .
drwxr-xr-x 22 brian brian 4.0K Apr 26 00:25 ..
-rw-rw-r--  1 brian brian 14G Apr 15 01:21 '20220415T051433Z - Satire-Wordpress-Server.xva'
-rw-r--r--  1 root  root   65G Apr 26 00:35 disk.raw
drwxr-xr-x  3 root  root   4.0K Apr 26 00:28 my-virtual-machine
-rw-r--r--  1 root  root  15G Apr 26 00:43 satire-wordpress.vmdk
root@brians-T460:/home/brian/XVA VMs#
```

**Step 2.** Once inside the working directory, run the following commands as root

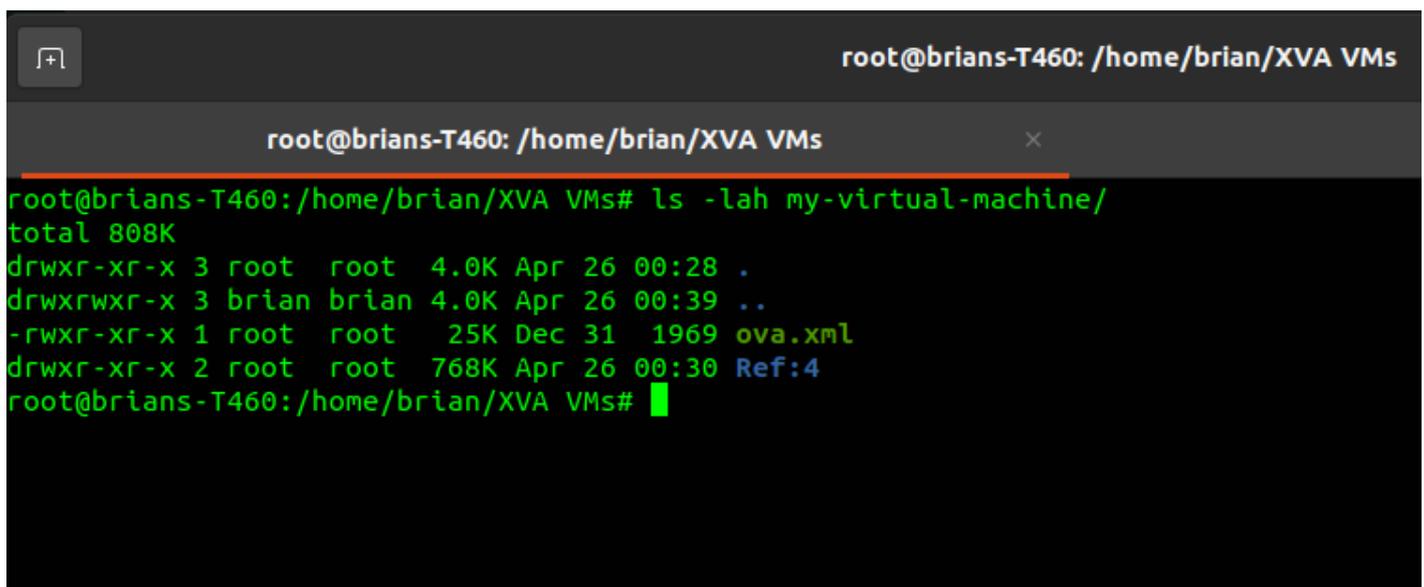
- `mkdir my-virtual-machine`
- `tar -xf my-virtual-machine.xva -C my-virtual-machine`

- `chmod -R 755 my-virtual-machine`

**Step 3.** Next we are going to export the Disk by utilizing `disk-export` command

```
xva-img -p disk-export my-virtual-machine/Ref\4/ disk.raw
```

The Ref: number may vary. The way to get the correct number is to run the `ls` command against the "my-virtual-machine" directory where the `ova.xml` and disk files are located. Reference the below screenshot.

A terminal window screenshot showing a directory listing for the 'my-virtual-machine' directory. The terminal prompt is 'root@brians-T460: /home/brian/XVA VMs'. The command executed is 'ls -lah my-virtual-machine/'. The output shows a total size of 808K and lists several files and directories: a '.' directory (4.0K), a '..' directory (4.0K), an 'ova.xml' file (25K, Dec 31 1969), and a 'Ref:4' directory (768K, Apr 26 00:30).

```
root@brians-T460: /home/brian/XVA VMs
root@brians-T460: /home/brian/XVA VMs
root@brians-T460:/home/brian/XVA VMs# ls -lah my-virtual-machine/
total 808K
drwxr-xr-x 3 root  root  4.0K Apr 26 00:28 .
drwxrwxr-x 3 brian brian 4.0K Apr 26 00:39 ..
-rwxr-xr-x 1 root  root   25K Dec 31  1969 ova.xml
drwxr-xr-x 2 root  root  768K Apr 26 00:30 Ref:4
root@brians-T460:/home/brian/XVA VMs#
```

## Extraction Process Complete

It will take a little bit of time to extract, but the `-p` command when exporting will show you the current progress. Once it completes, you will have a '`disk.raw`' file unless you decide to name it '`somethingelse.raw`'

This completes the extraction of the disk from the XVA file. You can now examine the disk raw or convert it to any other format such as qcow2 or vmdk.