

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

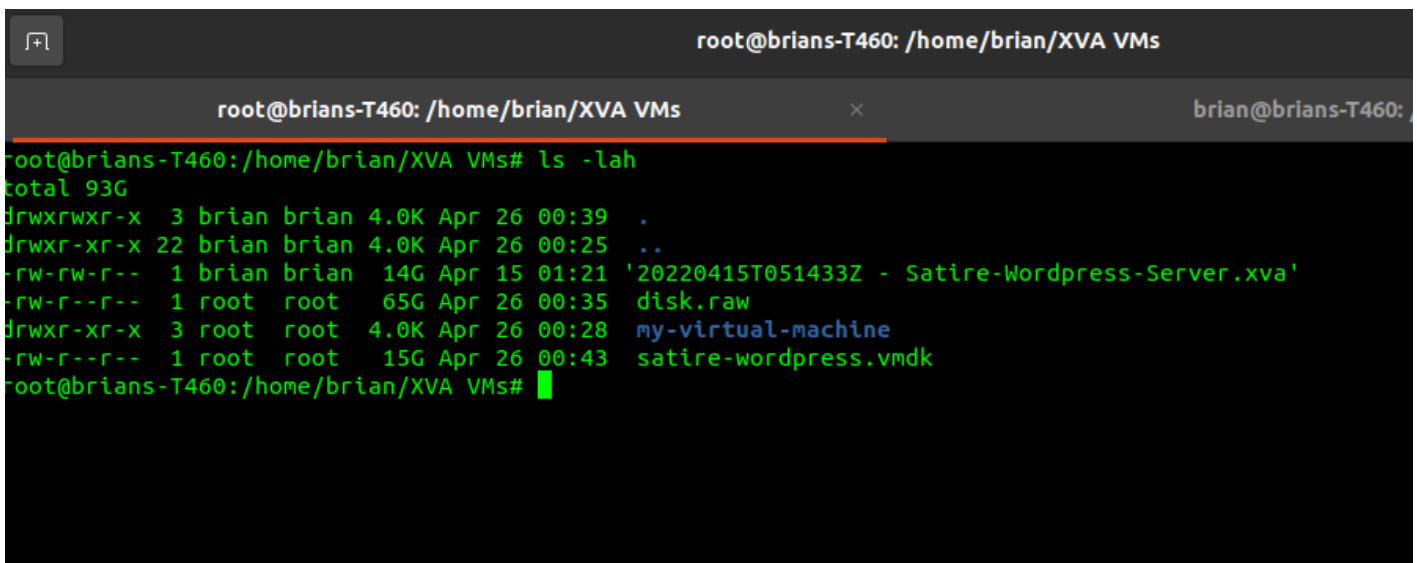
- 2.1 Extract the XVA File to Raw Disk

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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

A terminal window screenshot showing a directory listing. The terminal title is 'root@brians-T460: /home/brian/XVA VMs'. The command 'ls -lah' has been executed, showing the following output:

```
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
```

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

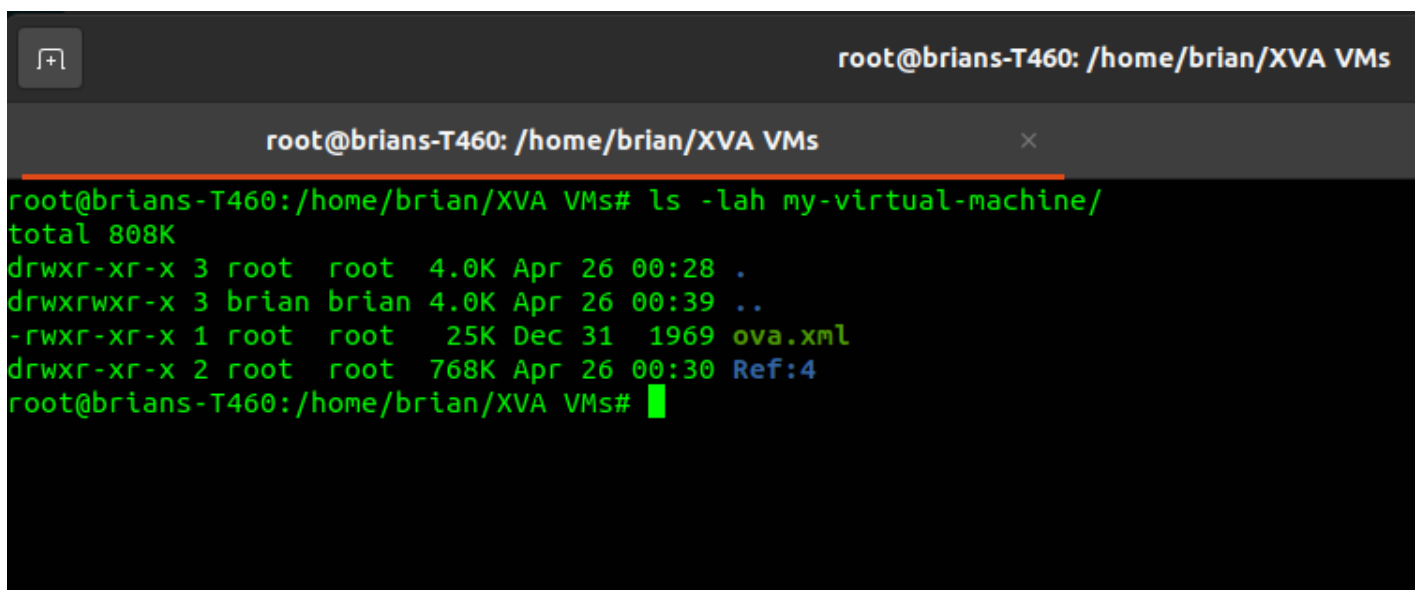
- `mkdir my-virtual-machine`
- `tar -xf my-virtual-machine.xva -C my-virtual-machine`

- `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 titled 'root@brians-T460: /home/brian/XVA VMs' showing the command 'ls -lah my-virtual-machine/' and its output. The output lists the directory contents with permissions, owner, size, date, and filename. The 'Ref:4' entry is highlighted in blue.

```
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.