

## Born2beroot Part 1: VirtualBox & VirtualMachine

- Introduction to virtualization
- Create first machine in VirtualBox
- Set up own operating system while implementing strict rules.
- Submit a signature.txt file at the root of my repository - paste in it the signature of my machine's virtual disk.

Hostname: **evong42**

Host/Root password: **Lev2020**

New User: **Evangelene**

New User ID\*: **evong**

Password: **Cayo#5782#**

Encryption passphrase: **Asher#5782**

### \* A note to users of this guide:

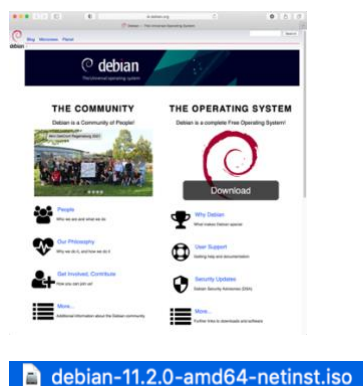
Take note that in all print screens, User ID **evong22** have been replaced with **evong** since subject paper requested use of intra login as user.

This [video](#) helps with Step 1 & 2:

1. Download and install [VirtualBox](#)  
- Follow Downloads/OS X hosts

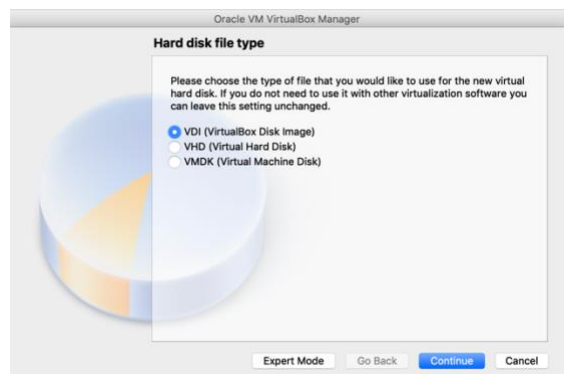
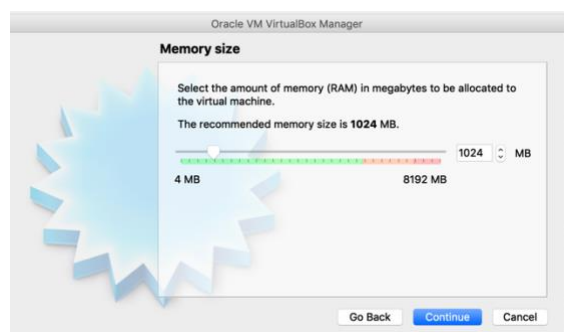
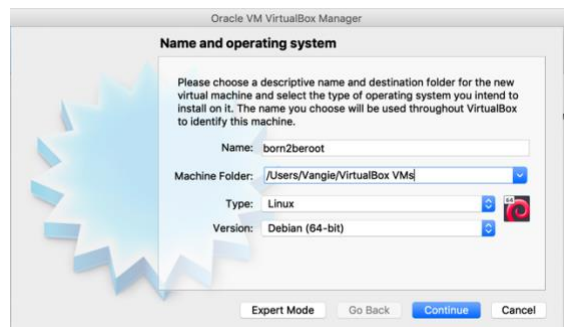


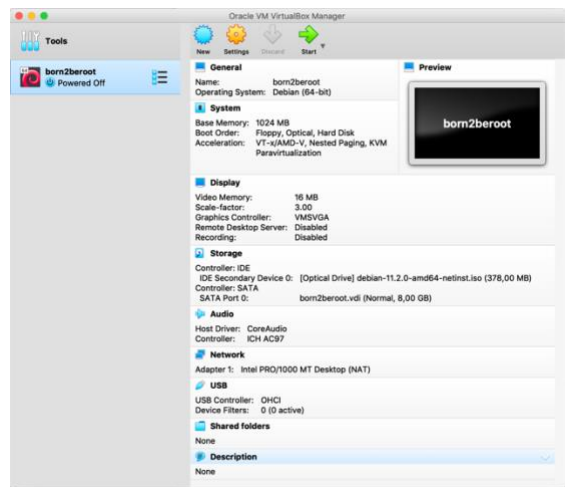
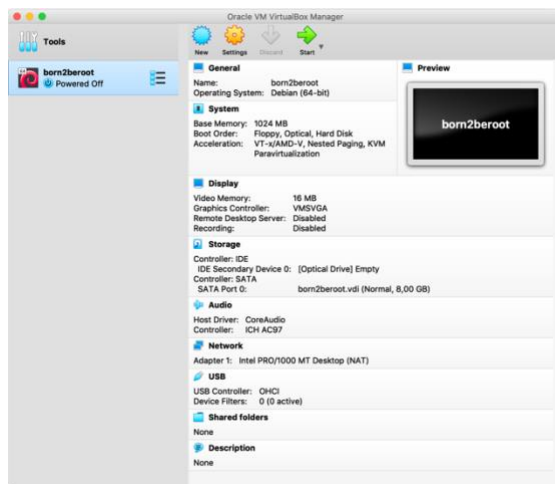
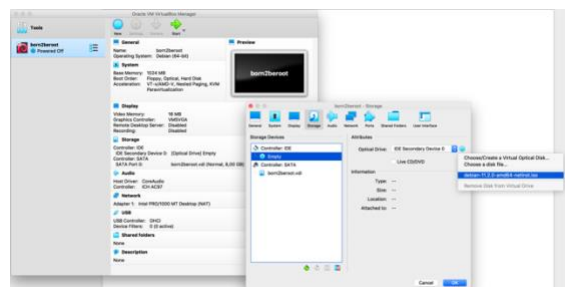
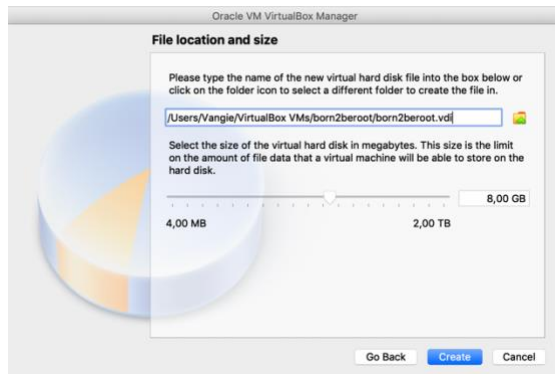
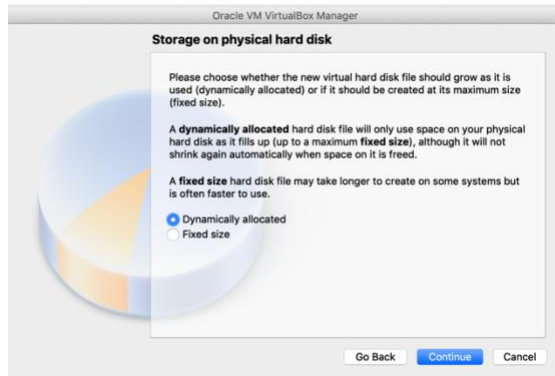
2. Download [Debian OS](#)



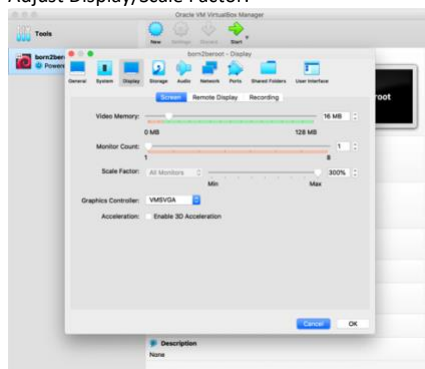
This [video](#) helps with step 3:

### 3. Virtual Machine installation





Adjust Display/Scale Factor:

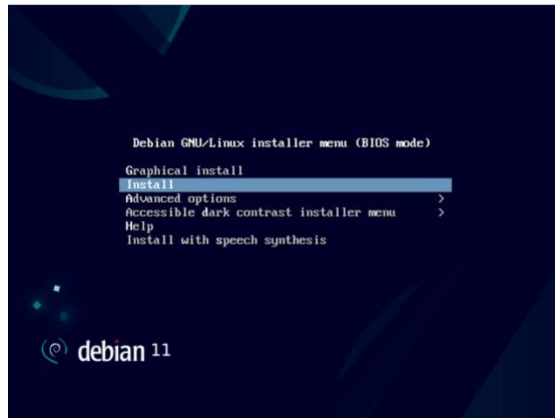


Link Optical Drive to VM/Storage/IDE Controller:

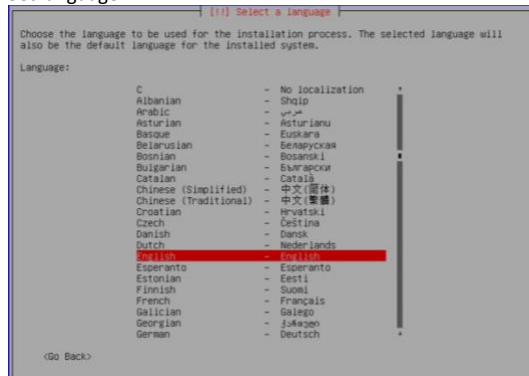
debian-11.2.0-amd64-netinst.iso

Install Debian OS:

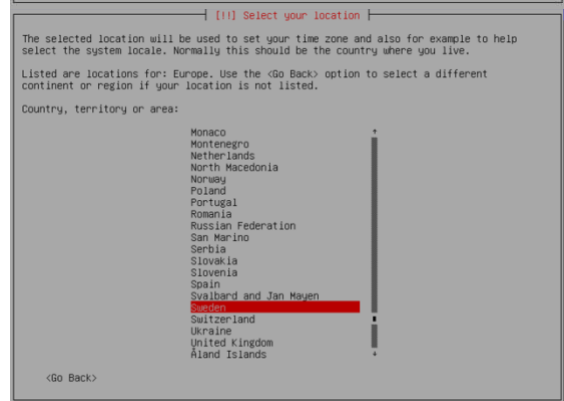
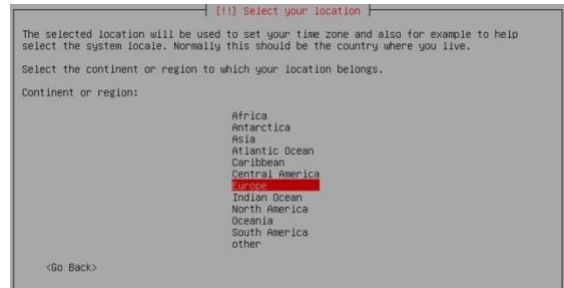
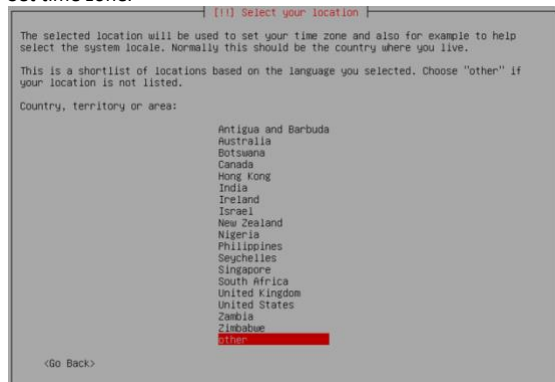




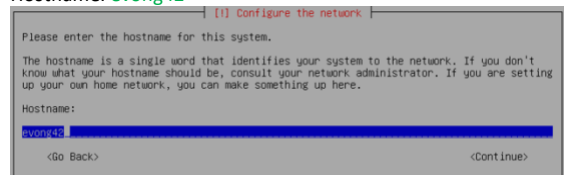
Set language:



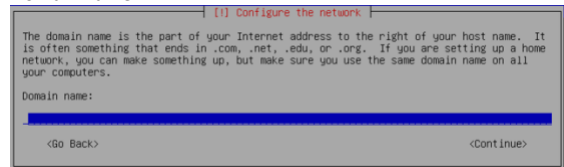
Set time zone:



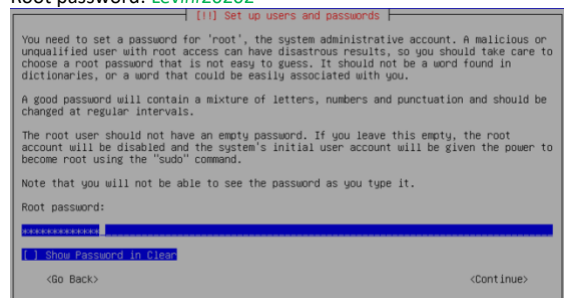
Hostname: evong42



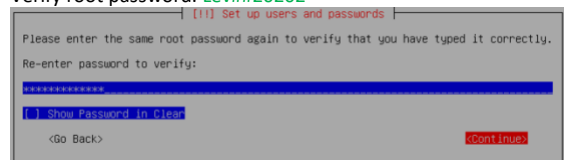
Domain name:



Root password: Lev##20202



Verify root password: Lev##20202



Full name for the new user: **Evangelene**

[[1]] Set up users and passwords

A user account will be created for you to use instead of the root account for non-administrative activities.

Please enter the real name of this user. This information will be used for instance as default origin for emails sent by this user as well as any program which displays or uses the user's real name. Your full name is a reasonable choice.

Full name for the new user:

**Evangelene**

<Go Back> <Continue>

Username for your account: **evong**

[[1]] Set up users and passwords

Select a username for the new account. Your first name is a reasonable choice. The username should start with a lower-case letter, which can be followed by any combination of numbers and more lower-case letters.

Username for your account:

**evong**

<Go Back> <Continue>

Password: **Cayo##5782**

[[1]] Set up users and passwords

A good password will contain a mixture of letters, numbers and punctuation and should be changed at regular intervals.

Choose a password for the new user:

**Cayo##5782**

☐ Show Password in Clear

<Go Back> <Continue>

Verify user password: **Cayo##5782**

[[1]] Set up users and passwords

Please enter the same user password again to verify you have typed it correctly.

Re-enter password to verify:

**Cayo##5782**

☐ Show Password in Clear

<Go Back> <Continue>

Partitioning disk:

[[1]] Partition disks

The installer can guide you through partitioning a disk (using different standard schemes) or, if you prefer, you can do it manually. With guided partitioning you will still have a chance later to review and customise the results.

If you choose guided partitioning for an entire disk, you will next be asked which disk should be used.

Partitioning method:

- Guided - use entire disk
- Guided - use entire disk and set up LVM
- Guided - use entire disk and set up encrypted LVM
- Manual**

<Go Back>

[[1]] Partition disks

This is an overview of your currently configured partitions and mount points. Select a partition to modify its settings (file system, mount point, etc.), a free space to create partitions, or a device to initialize its partition table.

- Guided partitioning
- Configure SCSI volumes
- SCSI3 (0,0,0) (sda) - 8.6 GB ATA VBOX HARDISK**
- Undo changes to partitions
- Finish partitioning and write changes to disk

<Go Back>

[[1]] Partition disks

You have selected an entire device to partition. If you proceed with creating a new partition table on the device, then all current partitions will be removed.

Note that you will be able to undo this operation later if you wish.

Create new empty partition table on this device?

<Go Back> **Yes** <No>

Set up #1 Primary partition:

[[1]] Partition disks

This is an overview of your currently configured partitions and mount points. Select a partition to modify its settings (file system, mount point, etc.), a free space to create partitions, or a device to initialize its partition table.

- Guided partitioning
- Configure software RAID
- Configure the Logical Volume Manager
- Configure encrypted volumes
- Configure SCSI volumes
- SCSI3 (0,0,0) (sda) - 8.6 GB ATA VBOX HARDISK**
- dpv1p01 8.6 GB FREE SPACE**
- Undo changes to partitions
- Finish partitioning and write changes to disk

<Go Back>

[[1]] Partition disks

How to use this free space:

- Create a new partition**
- Automatically partition the free space
- Show Cylinder/Head/Sector information

<Go Back>

[[1]] Partition disks

The maximum size for this partition is 8.6 GB.

Hint: "max" can be used as a shortcut to specify the maximum size, or enter a percentage (e.g. "20%") to use that percentage of the maximum size.

New partition size:

**100%**

<Go Back> <Continue>

[[1]] Partition disks

Type for the new partition:

- Primary**
- Logical

<Go Back>

[[1]] Partition disks

Please choose whether you want the new partition to be created at the beginning or at the end of the available space.

Location for the new partition:

- Beginning**
- End

<Go Back>

[[1]] Partition disks

You are editing partition #1 of SCSI3 (0,0,0) (sda). No existing file system was detected in this partition.

Partition settings:

Use as:	Ext4 journaling file system
<b>Mount point:</b>	<b>/boot</b>
Mount options:	defaults
Label:	none
Reserved blocks:	5%
Typical usage:	standard
Bootable flag:	off

Delete the partition  
Done setting up the partition

<Go Back>

[[1]] Partition disks

Mount point for this partition:

- / - the root file system
- /boot - static files of the boot loader**
- /home - user home directories
- /tmp - temporary files
- /usr - static data
- /var - variable data
- /srv - data for services provided by this system
- /opt - add-on application software packages
- /usr/local - local hierarchy

Enter manually  
Do not mount it

<Go Back>

[[1]] Partition disks

You are editing partition #1 of SCSI3 (0,0,0) (sda). No existing file system was detected in this partition.

Partition settings:

Use as:	Ext4 journaling file system
Mount point:	/boot
Mount options:	defaults
Label:	none
Reserved blocks:	5%
Typical usage:	standard
Bootable flag:	off

Delete the partition  
**Done setting up the partition**

<Go Back>

## Set up #5 Logical partition:

[!!] Partition disks

This is an overview of your currently configured partitions and mount points. Select a partition to modify its settings (file system, mount point, etc.), a free space to create partitions, or a device to initialize its partition table.

Guided partitioning  
Configure software RAID  
Configure the Logical Volume Manager  
Configure encrypted volumes  
Configure iSCSI volumes

SCSI3 (0,0,0) (sda) - 8.6 GB ATA VBOX HARDISK

#1	primary	499.1 MB	f	ext4	/boot
pr1/sg1		8.1 GB		FREE SPACE	

Undo changes to partitions  
Finish partitioning and write changes to disk

<Go Back>

[!!] Partition disks

How to use this free space:

Create a new partition  
Automatically partition the free space  
Show Cylinder/Head/Sector information

<Go Back>

[!!] Partition disks

The maximum size for this partition is 8.1 GB.

Hint: "max" can be used as a shortcut to specify the maximum size, or enter a percentage (e.g. "20%") to use that percentage of the maximum size.

New partition size:

max

<Go Back> <Continue>

[!!] Partition disks

Type for the new partition:

Primary  
Logical

<Go Back>

[!!] Partition disks

You are editing partition #5 of SCSI3 (0,0,0) (sda). No existing file system was detected in this partition.

Partition settings:

Use as: Ext4 journaling file system

Mount point: /home

Mount options: defaults

Label: none

Reserved blocks: 5%

Typical usage: standard

Bootable flag: off

Delete the partition  
Done setting up the partition

<Go Back>

[!!] Partition disks

Mount point for this partition:

/ - the root file system  
/boot - static files of the boot loader  
/home - user home directories  
/tmp - temporary files  
/usr - static data  
/var - variable data  
/srv - data for services provided by this system  
/opt - add-on application software packages  
/usr/local - local hierarchy  
Enter manually  
Do not mount it

<Go Back>

[!!] Partition disks

You are editing partition #5 of SCSI3 (0,0,0) (sda). No existing file system was detected in this partition.

Partition settings:

Use as: Ext4 journaling file system

Mount point: none

Mount options: defaults

Label: none

Reserved blocks: 5%

Typical usage: standard

Bootable flag: off

Delete the partition  
Done setting up the partition

<Go Back>

## Encrypt #5 Logical partition:

[!!] Partition disks

This is an overview of your currently configured partitions and mount points. Select a partition to modify its settings (file system, mount point, etc.), a free space to create partitions, or a device to initialize its partition table.

Guided partitioning  
Configure software RAID  
Configure the Logical Volume Manager  
Create encrypted volumes  
Configure iSCSI volumes

SCSI3 (0,0,0) (sda) - 8.6 GB ATA VBOX HARDISK

#1	primary	499.1 MB	f	ext4	/boot
#5	logical	8.1 GB	f	ext4	

Undo changes to partitions  
Finish partitioning and write changes to disk

<Go Back>

[!!] Partition disks

Before encrypted volumes can be configured, the current partitioning scheme has to be written to disk. These changes cannot be undone.

After the encrypted volumes have been configured, no additional changes to the partitions on the disks containing encrypted volumes are allowed. Please decide if you are satisfied with the current partitioning scheme for these disks before continuing.

The partition tables of the following devices are changed:

SCSI3 (0,0,0) (sda)

The following partitions are going to be formatted:

partition #1 of SCSI3 (0,0,0) (sda) as ext4  
partition #5 of SCSI3 (0,0,0) (sda) as ext4

Write the changes to disk and configure encrypted volumes?

Yes <No>

[!!] Partition disks

This menu allows you to configure encrypted volumes.

Encryption configuration actions

Create encrypted volumes  
Finish

<Go Back>

[!!] Partition disks

Please select the devices to be encrypted.

You can select one or more devices.

Devices to encrypt:

[ ] /dev/sda1 (499MB; ext4)  
[\*] /dev/sda5 (8087MB; ext4)

<Go Back> <Continue>

[!!] Partition disks

You are editing partition #5 of SCSI3 (0,0,0) (sda). No existing file system was detected in this partition.

Partition settings:

Use as: physical volume for encryption

Encryption method: Device-mapper (dm-crypt)

Encryption: aes

Mount point: none

Mount options: defaults

Key size: 256

IV algorithm: xts-plain64

Encryption key: Passphrase

Erase data: yes

Bootable flag: off

Erase data on this partition  
Delete the partition  
Done setting up the partition

<Go Back>

[!!] Partition disks

This menu allows you to configure encrypted volumes.

Encryption configuration actions

Create encrypted volumes  
Finish

<Go Back>



**[!!] Partition disks**

The data on SCSI3 (0,0,0), partition #5 (sda) will be overwritten with random data. It can no longer be recovered after this step has completed. This is the last opportunity to abort the erase.

Really erase the data on SCSI3 (0,0,0), partition #5 (sda)?

<Go Back> **Yes** <No>

---

**[!!] Partition disks**

Erasing data on SCSI3 (0,0,0), partition #5 (sda)

10%

The installer is now overwriting SCSI3 (0,0,0), partition #5 (sda) with random data to prevent meta-information leaks from the encrypted volume. This step may be skipped by cancelling this action, albeit at the expense of a slight reduction of the quality of the encryption.

**Cancel**

Encryption passphrase: **Asher#5782**

**[!!] Partition disks**

You need to choose a passphrase to encrypt SCSI3 (0,0,0), partition #5 (sda).

The overall strength of the encryption depends strongly on this passphrase, so you should take care to choose a passphrase that is not easy to guess. It should not be a word or sentence found in dictionaries, or a phrase that could be easily associated with you.

A good passphrase will contain a mixture of letters, numbers and punctuation. Passphrases are recommended to have a length of 20 or more characters.

Encryption passphrase:

\*\*\*\*\*

**Show Password in Clear**

<Go Back> **Continue**

**[!!] Partition disks**

Please enter the same passphrase again to verify that you have typed it correctly.

Re-enter passphrase to verify:

\*\*\*\*\*

**Show Password in Clear**

<Go Back> **Continue**

Configure Logical Volume Manager:

**[!!] Partition disks**

This is an overview of your currently configured partitions and mount points. Select a partition to modify its settings (file system, mount point, etc.), a free space to create partitions, or a device to initialize its partition table.

Guided partitioning  
Configure software RAID  
**Configure the Logical Volume Manager**  
Configure encrypted volumes  
Configure iSCSI volumes

Encrypted volume (sda5\_crypt) - 8.1 GB Linux device-mapper (crypt)  
#1 8.1 GB F ext4  
SCSI3 (0,0,0) (sda) - 8.6 GB ATA VBOX HARDDISK  
#1 primary 499.1 MB F ext4 /boot  
#5 logical 8.1 GB K crypto (sda5\_crypt)

Undo changes to partitions  
Finish partitioning and write changes to disk

<Go Back>

**[!!] Partition disks**

Before the Logical Volume Manager can be configured, the current partitioning scheme has to be written to disk. These changes cannot be undone.

After the Logical Volume Manager is configured, no additional changes to the partitioning scheme of disks containing physical volumes are allowed during the installation. Please decide if you are satisfied with the current partitioning scheme before continuing.

The partition tables of the following devices are changed:  
Encrypted volume (sda5\_crypt)

The following partitions are going to be formatted:  
Encrypted volume (sda5\_crypt) as ext4

Write the changes to disks and configure LVM?

**Yes** <No>

**[!!] Partition disks**

Summary of current LVM configuration:

Free Physical Volumes: 0  
Used Physical Volumes: 0  
Volume Groups: 0  
Logical Volumes: 0

LVM configuration action:

Display configuration details  
**Create volume group**  
Finish

<Go Back>

Volume group name: LVMGroup

**[!!] Partition disks**

Please enter the name you would like to use for the new volume group.

Volume group name:

**LVMGroup**

<Go Back> **Continue**

**[!!] Partition disks**

Please select the devices for the new volume group.

You can select one or more devices.

Devices for the new volume group:

☒ /dev/mapper/sda5\_crypt (8070MB; ext4)  
☐ /dev/sda1 (499MB; ext4)

<Go Back> **Continue**

Logical volume name/size: root/2G

**[!!] Partition disks**

Summary of current LVM configuration:

Free Physical Volumes: 0  
Used Physical Volumes: 1  
Volume Groups: 1  
Logical Volumes: 0

LVM configuration action:

Display configuration details  
Create volume group  
**Create logical volume**  
Delete volume group  
Extend volume group  
Finish

<Go Back>

**[!!] Partition disks**

Please select the volume group where the new logical volume should be created.

Volume group:

**LVMGroup (8069MB)**

<Go Back>

**[!!] Partition disks**

Please enter the name you would like to use for the new logical volume.

Logical volume name:

**root**

<Go Back> **Continue**

**[!!] Partition disks**

Please enter the size of the new logical volume. The size may be entered in the following formats: 10K (Kilobytes), 10M (Megabytes), 10G (Gigabytes), 10T (Terabytes). The default unit is Megabytes.

Logical volume size:

**2G**

<Go Back> **Continue**

Logical volume name/size: swap/1024M

[[!]] Partition disks

Summary of current LVM configuration:  
  
Free Physical Volumes: 0  
Used Physical Volumes: 1  
Volume Groups: 1  
Logical Volumes: 1  
  
LVM configuration action:  
  
Display configuration details  
Create volume group  
**Create logical volume**  
Delete logical volume  
Extend volume group  
Finish  
  
<Go Back>

[[!]] Partition disks

Please select the volume group where the new logical volume should be created.  
Volume group:  
**VMGroup (6073MB)**  
  
<Go Back>

[[!]] Partition disks

Please enter the name you would like to use for the new logical volume.  
Logical volume name:  
**swap**  
  
<Go Back> <Continue>

[[!]] Partition disks

Please enter the size of the new logical volume. The size may be entered in the following formats: 10K (Kilobytes), 10M (Megabytes), 10G (Gigabytes), 10T (Terabytes). The default unit is Megabytes.  
Logical volume size:  
**1024M**  
  
<Go Back> <Continue>

[[!]] Partition disks

Please enter the size of the new logical volume. The size may be entered in the following formats: 10K (Kilobytes), 10M (Megabytes), 10G (Gigabytes), 10T (Terabytes). The default unit is Megabytes.  
Logical volume size:  
**1G**  
  
<Go Back> <Continue>

Logical volume name/size: var/1G

[[!]] Partition disks

Summary of current LVM configuration:  
  
Free Physical Volumes: 0  
Used Physical Volumes: 1  
Volume Groups: 1  
Logical Volumes: 3  
  
LVM configuration action:  
  
Display configuration details  
Create volume group  
**Create logical volume**  
Delete logical volume  
Extend volume group  
Finish  
  
<Go Back>

[[!]] Partition disks

Please select the volume group where the new logical volume should be created.  
Volume group:  
**VMGroup (4051MB)**  
  
<Go Back>

[[!]] Partition disks

Please enter the name you would like to use for the new logical volume.  
Logical volume name:  
**var**  
  
<Go Back> <Continue>

[[!]] Partition disks

Please enter the size of the new logical volume. The size may be entered in the following formats: 10K (Kilobytes), 10M (Megabytes), 10G (Gigabytes), 10T (Terabytes). The default unit is Megabytes.  
Logical volume size:  
**1G**  
  
<Go Back> <Continue>

Logical volume name/size: home/1G

[[!]] Partition disks

Summary of current LVM configuration:  
  
Free Physical Volumes: 0  
Used Physical Volumes: 1  
Volume Groups: 1  
Logical Volumes: 2  
  
LVM configuration action:  
  
Display configuration details  
Create volume group  
**Create logical volume**  
Delete logical volume  
Extend volume group  
Finish  
  
<Go Back>

[[!]] Partition disks

Please select the volume group where the new logical volume should be created.  
Volume group:  
**VMGroup (5049MB)**  
  
<Go Back>

[[!]] Partition disks

Please enter the name you would like to use for the new logical volume.  
Logical volume name:  
**home**  
  
<Go Back> <Continue>

Logical volume name/size: srv/1G

[[!]] Partition disks

Summary of current LVM configuration:  
  
Free Physical Volumes: 0  
Used Physical Volumes: 1  
Volume Groups: 1  
Logical Volumes: 4  
  
LVM configuration action:  
  
Display configuration details  
Create volume group  
**Create logical volume**  
Delete logical volume  
Extend volume group  
Finish  
  
<Go Back>

[[!]] Partition disks

Please select the volume group where the new logical volume should be created.  
Volume group:  
**VMGroup (3053MB)**  
  
<Go Back>

Logical volume name/size: tmp/1G

Logical volume name/size: var-log/1056MB  
Here, type in only one dash '-' between var and log.  
Output will eventually show two dashes.

```

[!!] Partition disks

Summary of current LVM configuration:

Free Physical Volumes: 0
Used Physical Volumes: 1
Volume Groups: 1
Logical Volumes: 6

LVM configuration action:

Display configuration details
Create volume group
Create logical volume
Delete logical volume
Extend volume group
Finish

<Go Back>

[!!] Partition disks

Please select the volume group where the new logical volume should be created.

Volume group:
VGGroup (1056MB)

<Go Back>

[!!] Partition disks

Please enter the name you would like to use for the new logical volume.

Logical volume name:
var-log

<Go Back> <Continue>

[!!] Partition disks

Please enter the size of the new logical volume. The size may be entered in the following
formats: 10K (Kilobytes), 10M (Megabytes), 10G (Gigabytes), 10T (Terabytes). The default
unit is Megabytes.

Logical volume size:
1056MB

<Go Back> <Continue>

[!!] Partition disks

Summary of current LVM configuration:

Free Physical Volumes: 0
Used Physical Volumes: 1
Volume Groups: 1
Logical Volumes: 7

LVM configuration action:

Display configuration details
Create volume group
Delete logical volume
Extend volume group
Finish

<Go Back>

```



## Edit home partition

[[!]] Partition disks

This is an overview of your currently configured partitions and mount points. Select a partition to modify its settings (file system, mount point, etc.), a free space to create partitions, or a device to initialize its partition table.

Guided partitioning  
Configure software RAID  
Configure the Logical Volume Manager  
Configure encrypted volumes  
Configure iSCSI volumes

LVM VG LVMGroup, LV home - 998.2 MB Linux device-mapper (linear)  
#1 998.2 MB  
LVM VG LVMGroup, LV root - 2.0 GB Linux device-mapper (linear)  
#1 2.0 GB  
LVM VG LVMGroup, LV srv - 998.2 MB Linux device-mapper (linear)  
#1 998.2 MB  
LVM VG LVMGroup, LV swap - 1.0 GB Linux device-mapper (linear)  
#1 1.0 GB  
LVM VG LVMGroup, LV tmp - 998.2 MB Linux device-mapper (linear)  
#1 998.2 MB  
LVM VG LVMGroup, LV var - 998.2 MB Linux device-mapper (linear)  
#1 998.2 MB  
LVM VG LVMGroup, LV var-log - 1.1 GB Linux device-mapper (linear)  
#1 1.1 GB  
Encrypted volume (sda5.crypt) - 8.1 GB Linux device-mapper (crypt)  
#1 8.1 GB K lvm  
SCSI3 (0,0,0) (sda) - 8.6 GB ATA VBOX HARDISK  
#1 primary 499.1 MB F ext4 /boot

<Go Back>

[[!]] Partition disks

You are editing partition #1 of LVM VG LVMGroup, LV home. No existing file system was detected in this partition.

Partition settings:

Use as: do not use

Erase data on this partition  
Done setting up the partition

<Go Back>

[[!]] Partition disks

How to use this partition:

Ext4 journaling file system  
Ext3 journaling file system  
Ext2 file system  
btrfs journaling file system  
JFS journaling file system  
XFS journaling file system  
FAT16 file system  
FAT32 file system  
swap area  
physical volume for encryption  
do not use the partition

<Go Back>

[[!]] Partition disks

You are editing partition #1 of LVM VG LVMGroup, LV home. No existing file system was detected in this partition.

Partition settings:

Use as: Ext4 journaling file system  
Mount point: /home  
Mount options: defaults  
Label: none  
Reserved blocks: 5%  
Typical usage: standard

Erase data on this partition  
Done setting up the partition

<Go Back>

[[!]] Partition disks

Mount point for this partition:

/ - the root file system  
/boot - static files of the boot loader  
/home - user home directories  
/tmp - temporary files  
/usr - static data  
/var - variable data  
/srv - data for services provided by this system  
/opt - add-on application software packages  
/usr/local - local hierarchy  
Enter manually  
Do not mount it

<Go Back>

[[!]] Partition disks

You are editing partition #1 of LVM VG LVMGroup, LV home. No existing file system was detected in this partition.

Partition settings:

Use as: Ext4 journaling file system  
Mount point: /home  
Mount options: defaults  
Label: none  
Reserved blocks: 5%  
Typical usage: standard

Erase data on this partition  
Done setting up the partition

<Go Back>

## Edit root partition

[[!]] Partition disks

This is an overview of your currently configured partitions and mount points. Select a partition to modify its settings (file system, mount point, etc.), a free space to create partitions, or a device to initialize its partition table.

Guided partitioning  
Configure software RAID  
Configure the Logical Volume Manager  
Configure encrypted volumes  
Configure iSCSI volumes

LVM VG LVMGroup, LV home - 998.2 MB Linux device-mapper (linear)  
#1 998.2 MB f ext4 /home  
LVM VG LVMGroup, LV root - 2.0 GB Linux device-mapper (linear)  
#1 2.0 GB  
LVM VG LVMGroup, LV srv - 998.2 MB Linux device-mapper (linear)  
#1 998.2 MB  
LVM VG LVMGroup, LV swap - 1.0 GB Linux device-mapper (linear)  
#1 1.0 GB  
LVM VG LVMGroup, LV tmp - 998.2 MB Linux device-mapper (linear)  
#1 998.2 MB  
LVM VG LVMGroup, LV var - 998.2 MB Linux device-mapper (linear)  
#1 998.2 MB  
LVM VG LVMGroup, LV var-log - 1.1 GB Linux device-mapper (linear)  
#1 1.1 GB  
Encrypted volume (sda5.crypt) - 8.1 GB Linux device-mapper (crypt)  
#1 8.1 GB K lvm  
SCSI3 (0,0,0) (sda) - 8.6 GB ATA VBOX HARDISK  
#1 primary 499.1 MB F ext4 /boot

<Go Back>

[[!]] Partition disks

You are editing partition #1 of LVM VG LVMGroup, LV home. No existing file system was detected in this partition.

Partition settings:

Use as: do not use

Erase data on this partition  
Done setting up the partition

<Go Back>

[[!]] Partition disks

How to use this partition:

Ext4 journaling file system  
Ext3 journaling file system  
Ext2 file system  
btrfs journaling file system  
JFS journaling file system  
XFS journaling file system  
FAT16 file system  
FAT32 file system  
swap area  
physical volume for encryption  
do not use the partition

<Go Back>

[[!]] Partition disks

You are editing partition #1 of LVM VG LVMGroup, LV root. No existing file system was detected in this partition.

Partition settings:

Use as: Ext4 journaling file system  
Mount point: none  
Mount options: defaults  
Label: none  
Reserved blocks: 5%  
Typical usage: standard

Erase data on this partition  
Done setting up the partition

<Go Back>

### Edit srv partition

```

[!!!] Partition disks

How to use this partition:

Ext4 journaling file system
Ext3 journaling file system
Ext2 file system
btrfs journaling file system
JFS journaling file system
XFS journaling file system
FAT16 file system
FAT32 file system
swap area
physical volume for encryption
do not use the partition

<Go Back>

```

```
[*] Partition disks
```

You are editing partition #1 of LVM VG LVGroup, LV srv. No existing file system was detected in this partition.

Partition settings:

Use as:	Ext4 journaling file system
Mount point:	/srv
Mount options:	defaults
Label:	none
Reserved blocks:	5%
Typical usage:	standard
Erase data on this partition	
Done setting up the partition	

<Go Back>

### Edit swap partition

```
[>] Partition disks |
This is an overview of your currently configured partitions and mount points. Select a
partition to modify its settings (file system, mount point, etc.), a free space to create
partitions, or a device to initialize its partition table.

Guided partitioning
Configure software RAID
Configure the Logical Volume Manager
Configure encrypted volumes
Configure iSCSI volumes

LVM VG LVMGroup, LV home - 998.2 MB Linux device-mapper (linear)
#1 998.2 MB f ext4 /home
LVM VG LVMGroup, LV root - 2.0 GB Linux device-mapper (linear)
#1 2.0 GB f ext4 /
LVM VG LVMGroup, LV srv - 998.2 MB Linux device-mapper (linear)
#1 998.2 MB f ext4 /srv
LVM VG LVMGroup, LV swap - 1.0 GB Linux device-mapper (linear)
#1 1.0 GB
LVM VG LVMGroup, LV tmp - 998.2 MB Linux device-mapper (linear)
#1 998.2 MB
LVM VG LVMGroup, LV var - 998.2 MB Linux device-mapper (linear)
#1 998.2 MB
LVM VG LVMGroup, LV var-log - 1.1 GB Linux device-mapper (linear)
#1 1.1 GB
Encrypted volume (sda5_crypt) - 8.1 GB Linux device-mapper (crypt)
#1 8.1 GB K lvm
SCSI3 (0,0,0) (sda) - 8.6 GB ATA VBOX HARDDISK
#1 primary 499.1 MB F ext4 /boot

<Go Back>
```

```

[!!!] Partition disks

How to use this partition:

Ext4 journaling file system
Ext3 journaling file system
Ext2 file system
btrfs journaling file system
JFS journaling file system
XFS journaling file system
FAT16 file system
FAT32 file system
swap area
physical volume for encryption
do not use the partition

<Go Back>

```

```

[ ] [ ] Partition disks
You are editing partition #1 of LVM VG LVWGroup, LV swap. No existing file system was
detected in this partition.

Partition settings:

Use as: swap area

Erase data on this partition
Some setting up the partition

<Go Back>

```

## Edit tmp partition

[ #1 ] Partition disks

This is an overview of your currently configured partitions and mount points. Select a partition to modify its settings (file system, mount point, etc.), a free space to create partitions, or a device to initialize its partition table.

**Guided partitioning**

- Configure software RAID
- Configure the Logical Volume Manager
- Configure encrypted volumes
- Configure iSCSI volumes

```
LVM VG LVMGroup, LV home - 998.2 MB Linux device-mapper (linear)
#1    998.2 MB f ext4 /home
LVM VG LVMGroup, LV root - 2.0 GB Linux device-mapper (linear)
#1    2.0 GB f ext4 /
LVM VG LVMGroup, LV srv - 998.2 MB Linux device-mapper (linear)
#1    998.2 MB f ext4 /srv
LVM VG LVMGroup, LV swap - 1.0 GB Linux device-mapper (linear)
#1    1.0 GB f swap swap
LVM VG LVMGroup, LV tmp - 998.2 MB Linux device-mapper (linear)
#1    998.2 MB f ext4 /tmp
LVM VG LVMGroup, LV var - 998.2 MB Linux device-mapper (linear)
#1    998.2 MB
LVM VG LVMGroup, LV var-log - 1.1 GB Linux device-mapper (linear)
#1    1.1 GB
Encrypted volume (sdas5_crypt) - 8.1 GB Linux device-mapper (crypt)
#1    8.1 GB k lvm
SCSI3 (0,0,0) (sda) - 8.6 GB ATA VBOX HARDDISK
#1 primary 499.1 MB F ext4 /boot
```

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[ #1 ] Partition disks

You are editing partition #1 of LVM VG LVMGroup, LV tmp. No existing file system was detected in this partition.

Partition settings:

**Use as: OS root use**

Erase data on this partition  
Done setting up the partition

<Go Back>

How to use this partition:

- Ext4 journaling file system
- Ext3 journaling file system
- Ext2 file system
- btrfs journaling file system
- JFS journaling file system
- XFS journaling file system
- FAT16 file system
- FAT32 file system
- swap area
- physical volume for encryption
- do not use the partition

<Go Back>

```
[!!! Partition disks !!!]

You are editing partition #1 of LVM VG VGmGroup, LV tmp. No existing file system was
detected in this partition.

Partition settings:

Use as:                               Ext4 journaling file system

Mount point: none
Mount options: defaults
Label: none
Reserved blocks: 5%
Typical usage: standard

Erase data on this partition
Done setting up the partition

<Go Back>
```

```

[[!]] Partition disks

Mount point for this partition:

/ - the root file system
/boot - static files of the boot loader
/home - user home directories
/tmp - temporary files
/usr - static data
/var - variable data
/srv - data for services provided by this system
/opt - add-on application software packages
/usr/local - local hierarchy
Enter manually
Do not mount it

<Go Back>

```

```
[ !!] Partition disks
```

You are editing partition #1 of LVM VG LVWGroup, LV tmp. No existing file system was detected in this partition.

Partition settings:

Use as:	Ext4 journaling file system
Mount point:	/tmp
Mount options:	defaults
Label:	none
Reserved blocks:	5%
Typical usage:	standard

Erase data on this partition  
**Some editing on this partition**

<Go Back>

```

This is an overview of your currently configured partitions and mount points. Select a
partition to modify its settings (file system, mount point, etc.), a free space to create
partitions, or a device to initialize its partition table.

Guided partitioning
Configure software RAID
Configure the Logical Volume Manager
Configure encrypted volumes
Configure iSCSI volumes

LVM VG LVGroup, LV home - 998.2 MB Linux device-mapper (linear)
#1 998.2 MB /home ext4
LVM VG LVGroup, LV root - 2.0 GB Linux device-mapper (linear)
#1 2.0 GB / ext4
LVM VG LVGroup, LV srv - 998.2 MB Linux device-mapper (linear)
#1 998.2 MB /srv ext4
LVM VG LVGroup, LV swap - 1.0 GB Linux device-mapper (linear)
#1 1.0 GB /swap swap
LVM VG LVGroup, LV tmp - 998.2 MB Linux device-mapper (linear)
#1 998.2 MB /tmp tmp
LVM VG LVGroup, LV var - 998.2 MB Linux device-mapper (linear)
#1 998.2 MB /var ext4
LVM VG LVGroup, LV var-log - 1.1 GB Linux device-mapper (linear)
#1 1.1 GB /var/log ext4
Encrypted volume (sdas_crypt) - 8.1 GB Linux device-mapper (crypt)
#1 8.1 GB /live live
SCSI3 (0,0,0) (sda) - 8.5 GB ATA VBOX HARDDISK
#1 primary 499.1 MB F ext4 /boot

```

```

[ (11) Partition disks ]
You are editing partition #1 of LVM VG LVMSGroup, LV var. No existing file system was
detected in this partition.

Partition settings:

Use as: do not use

Erase data on this partition
Done setting up the partition

<Go Back>

```

## [[!]] Partition disks

How to use this partition:

**Ext4 journaling file system**

Ext3 journaling file system

Ext2 file system

btrfs journaling file system

JFS journaling file system

XFS journaling file system

FAT16 file system

FAT32 file system

swap area

physical volume for encryption

do not use the partition

<Go Back>

## [[!]] Partition disks

You are editing partition #1 of LVM VG LVMGroup, LV var. No existing file system was detected in this partition.

Partition settings:

Use as: Ext4 journaling file system

**Mount point: none**

Mount options: defaults

Label: none

Reserved blocks: 5%

Typical usage: standard

Erase data on this partition

Done setting up the partition

<Go Back>

## [[!]] Partition disks

Mount point for this partition:

/ - the root file system

/boot - static files of the boot loader

/home - user home directories

/tmp - temporary files

/usr - static data

**/var - variable data**

/srv - data for services provided by this system

/opt - add-on application software packages

/usr/local - local hierarchy

Enter manually

Do not mount it

<Go Back>

## [[!]] Partition disks

You are editing partition #1 of LVM VG LVMGroup, LV var. No existing file system was detected in this partition.

Partition settings:

Use as: Ext4 journaling file system

**Mount point: /var**

Mount options: defaults

Label: none

Reserved blocks: 5%

Typical usage: standard

Erase data on this partition

Done setting up the partition

<Go Back>

## Edit var-log partition

## [[!]] Partition disks

This is an overview of your currently configured partitions and mount points. Select a partition to modify its settings (file system, mount point, etc.), a free space to create partitions, or a device to initialize its partition table.

Guided partitioning  
Configure software RAID  
Configure the Logical Volume Manager  
Configure encrypted volumes  
Configure SCSI volumes

LVM VG LVMGroup, LV home - 998.2 MB Linux device-mapper (linear)

#1 998.2 MB f ext4 /home

LVM VG LVMGroup, LV root - 2.0 GB Linux device-mapper (linear)

#1 2.0 GB f ext4 /

LVM VG LVMGroup, LV srv - 998.2 MB Linux device-mapper (linear)

#1 998.2 MB f ext4 /srv

LVM VG LVMGroup, LV swap - 1.0 GB Linux device-mapper (linear)

#1 1.0 GB f swap swap

LVM VG LVMGroup, LV tmp - 998.2 MB Linux device-mapper (linear)

#1 998.2 MB f ext4 /tmp

LVM VG LVMGroup, LV var - 998.2 MB Linux device-mapper (linear)

#1 998.2 MB f ext4 /var

**LVM VG LVMGroup, LV var-log - 1.1 GB Linux device-mapper (linear)**

#1 1.1 GB f ext4 /var-log

Encrypted volume (sda5.crypt) - 8.1 GB Linux device-mapper (crypt)

#1 8.1 GB k lvm

SCSI3 (0,0,0) (sda) - 8.6 GB ATA VBOX HARDISK

#1 primary 499.1 MB F ext4 /boot

<Go Back>

## [[!]] Partition disks

You are editing partition #1 of LVM VG LVMGroup, LV var-log. No existing file system was detected in this partition.

Partition settings:

**Use as: do not use**

Erase data on this partition

Done setting up the partition

<Go Back>

## [[!]] Partition disks

How to use this partition:

**Ext4 journaling file system**

Ext3 journaling file system

Ext2 file system

btrfs journaling file system

JFS journaling file system

XFS journaling file system

FAT16 file system

FAT32 file system

swap area

physical volume for encryption

do not use the partition

<Go Back>

## [[!]] Partition disks

You are editing partition #1 of LVM VG LVMGroup, LV var-log. No existing file system was detected in this partition.

Partition settings:

Use as: Ext4 journaling file system

**Mount point: none**

Mount options: defaults

Label: none

Reserved blocks: 5%

Typical usage: standard

Erase data on this partition

Done setting up the partition

<Go Back>

## [[!]] Partition disks

Mount point for this partition:

/ - the root file system

/boot - static files of the boot loader

/home - user home directories

/tmp - temporary files

/usr - static data

/var - variable data

/srv - data for services provided by this system

/opt - add-on application software packages

/usr/local - local hierarchy

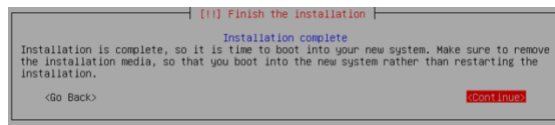
**Enter manually**

Do not mount it

<Go Back>

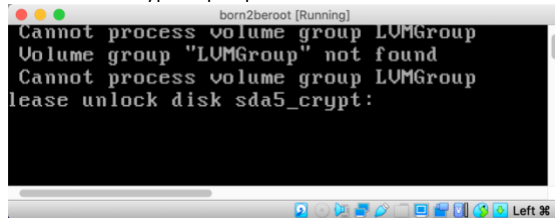
Running huw-detect...





After installation of OS:

- Enter encryption passphrase: **Asher#5782**

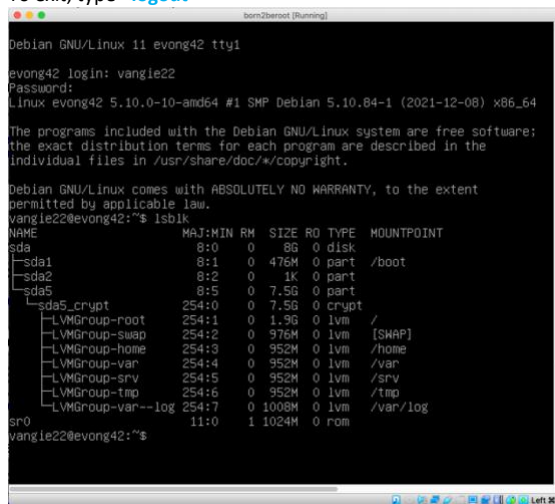


Log in as **<evong>**

Type **<lsblk>** to see the partition

(lsblk = list block devices)

To exit, type **<logout>**



After installing VirtualBox and VirtualMachine, use **Born2beroot Part 2** to configure the VirtualMachine.