

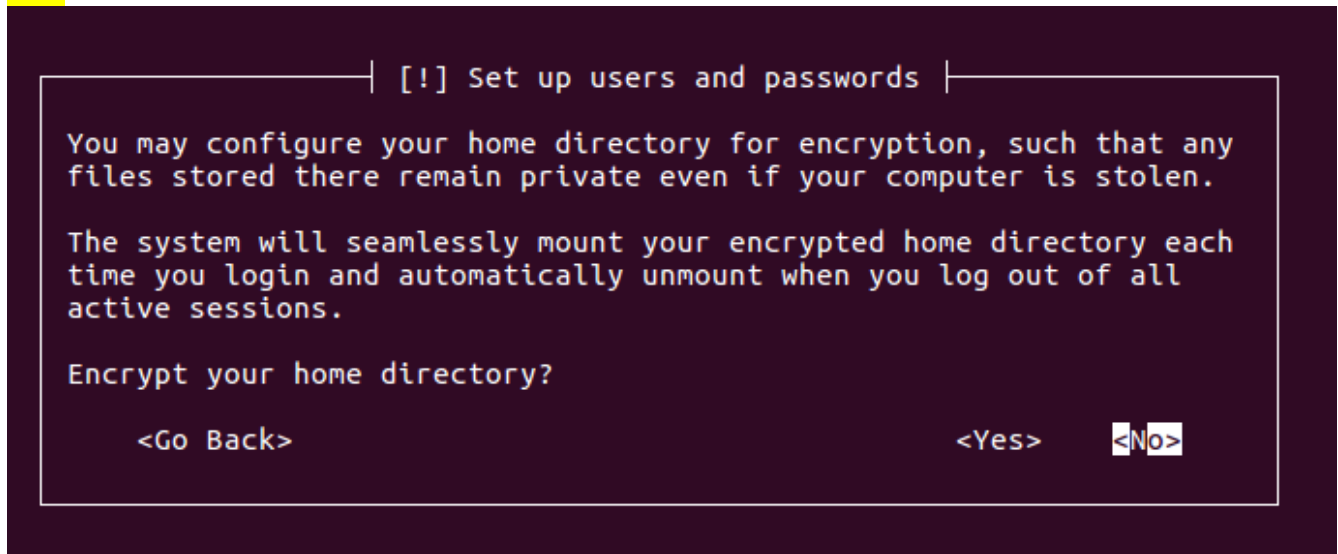
Navigate to the directory: openpilotricardo/tools/emu and run install_ubuntu_ARM.sh:

```
cd openpilotricardo/tools/emu
./install_ubuntu_ARM.sh
```

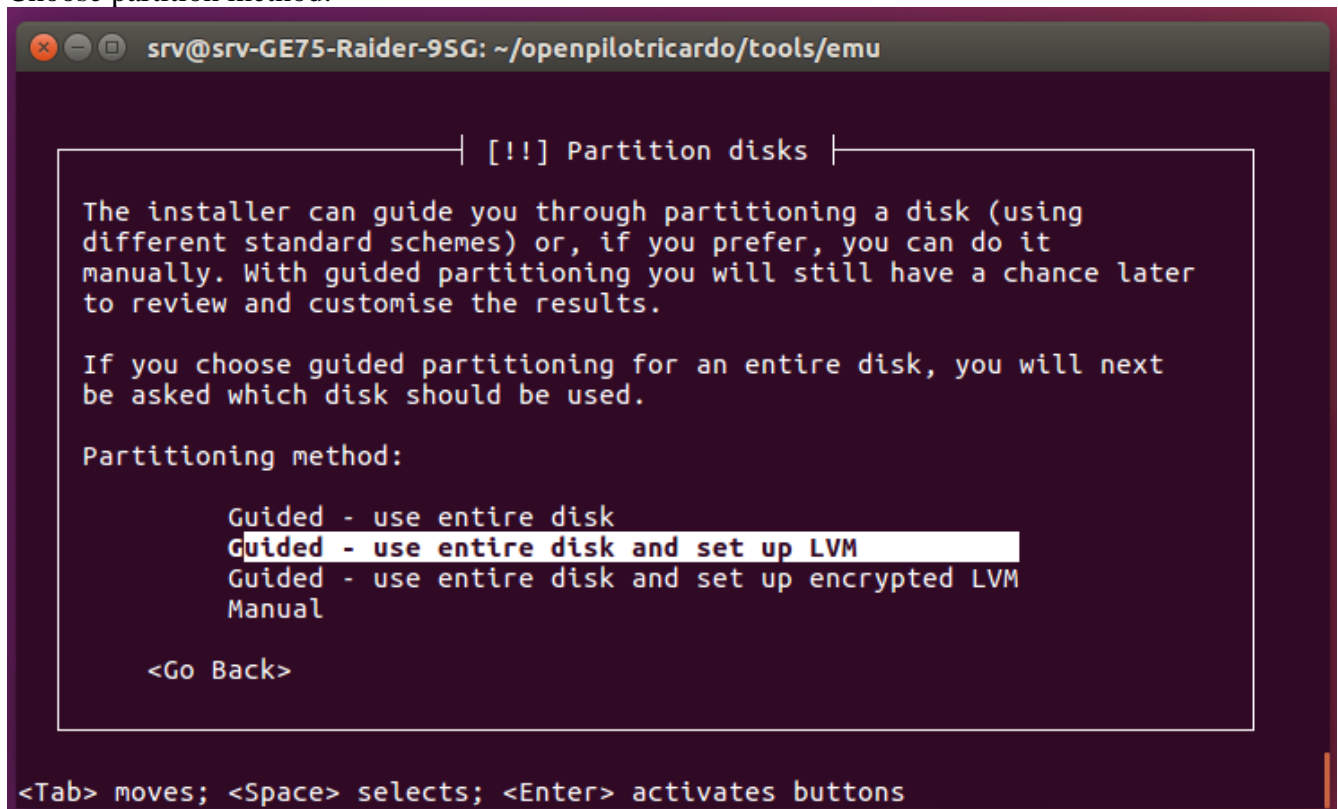
Follow the instructions in the wizard for basic setup: Language, Time Zone etc.

Encrypt your home directory?

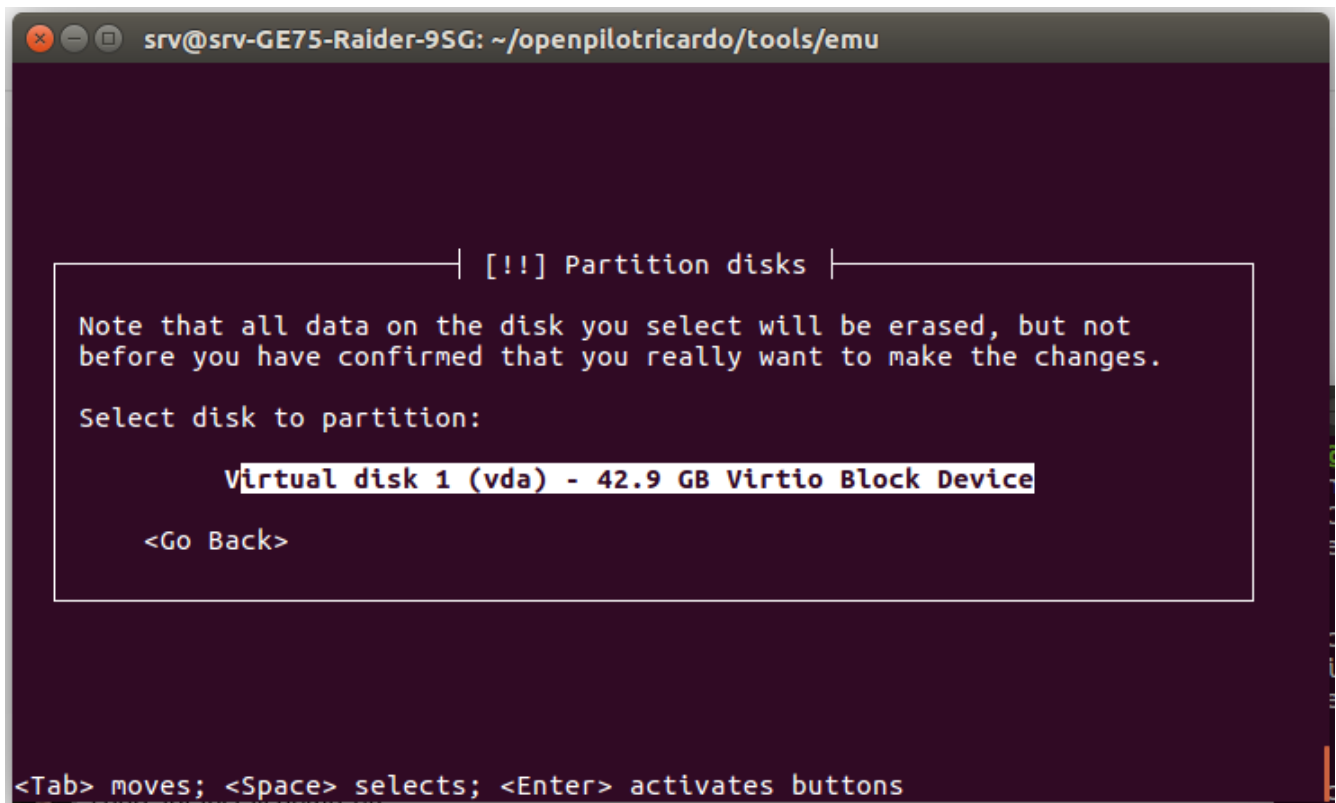
NO!



Choose partition method:

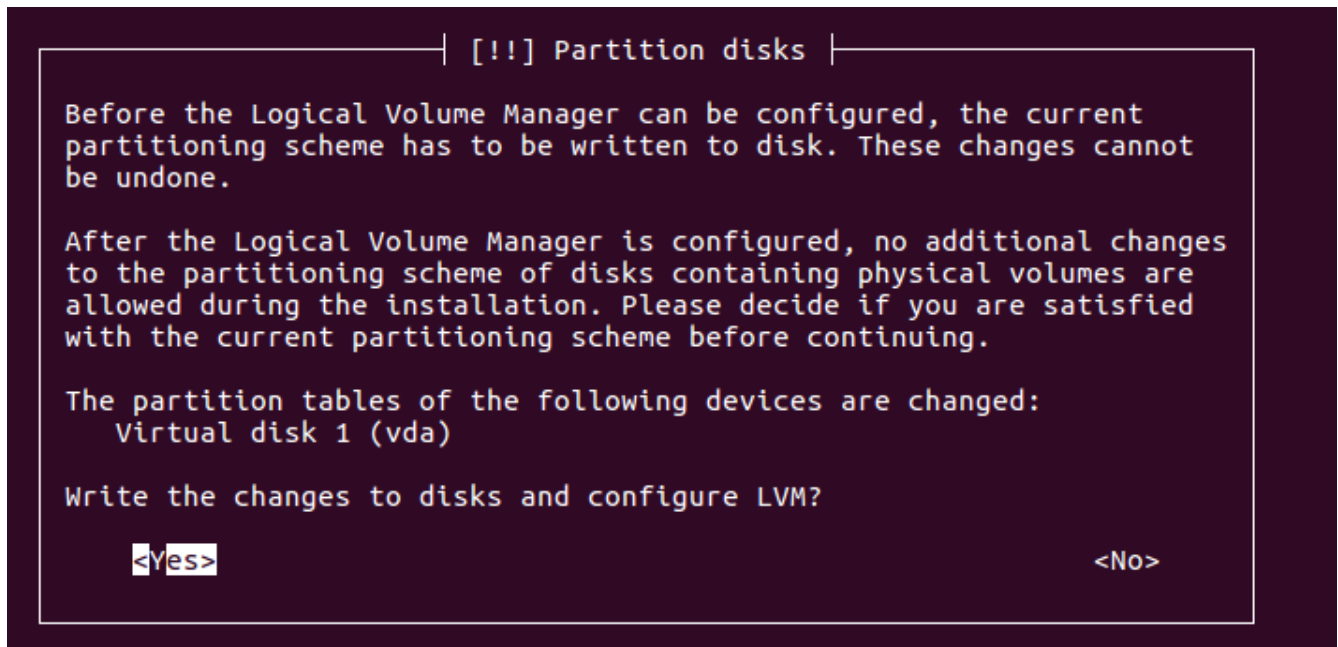


Select disk to partition:



Write the changes to disks and configure LVM?

YES!



Partition size:

| [!] Partition disks |

You may use the whole volume group for guided partitioning, or part of it. If you use only part of it, or if you add more disks later, then you will be able to grow logical volumes later using the LVM tools, so using a smaller part of the volume group at installation time may offer more flexibility.

The minimum size of the selected partitioning recipe is 1.9 GB (or 4%); please note that the packages you choose to install may require more space than this. The maximum available size is 41.6 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.

41.6 GB _____

<Go Back>

<Continue>

Write changes to disks?

YES!

| [!!] Partition disks |

If you continue, the changes listed below will be written to the disks. Otherwise, you will be able to make further changes manually.

The partition tables of the following devices are changed:

- LVM VG ubuntuTEST-vg, LV root
- LVM VG ubuntuTEST-vg, LV swap_1
- Virtual disk 1 (vda)

The following partitions are going to be formatted:

- LVM VG ubuntuTEST-vg, LV root as ext4
- LVM VG ubuntuTEST-vg, LV swap_1 as swap
- partition #1 of Virtual disk 1 (vda) as ESP
- partition #2 of Virtual disk 1 (vda) as ext2

Write the changes to disks?

<Yes>

<No>

Configure package manager:

Leave this section blank and **CONTINUE!**

[!] Configure the package manager

If you need to use a HTTP proxy to access the outside world, enter the proxy information here. Otherwise, leave this blank.

The proxy information should be given in the standard form of "http://[[user][:pass]@]host[:port]/".

HTTP proxy information (blank for none):

<Go Back>

<Continue>

Configuring Taskel:

How do you want to manage upgrades on this system?

No automatic updates

[!] Configuring taskel

Applying updates on a frequent basis is an important part of keeping your system secure.

By default, updates need to be applied manually using package management tools. Alternatively, you can choose to have this system automatically download and install security updates, or you can choose to manage this system over the web as part of a group of systems using Canonical's Landscape service.

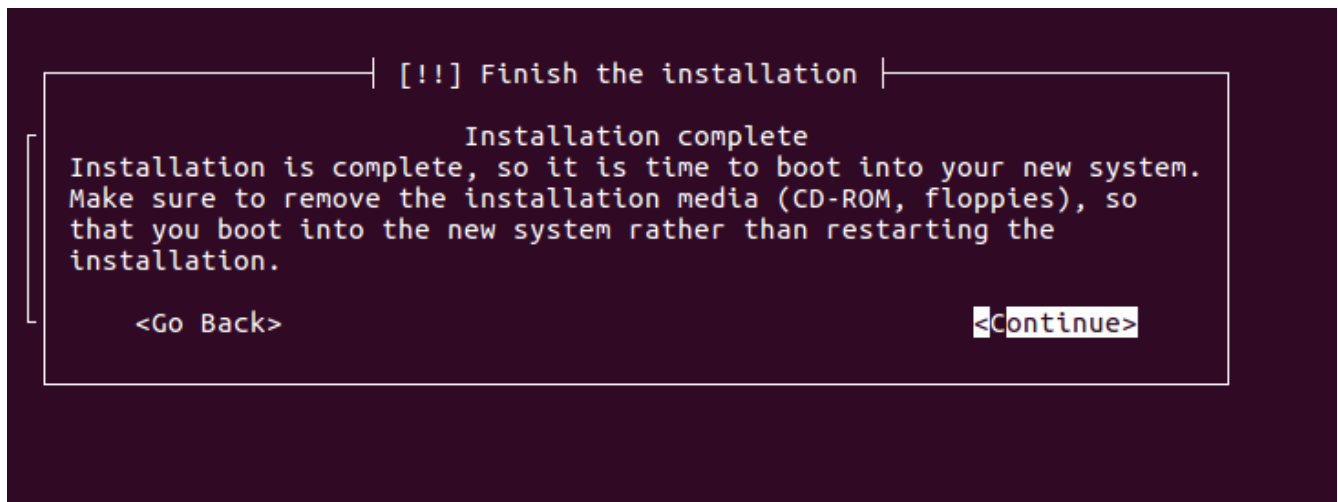
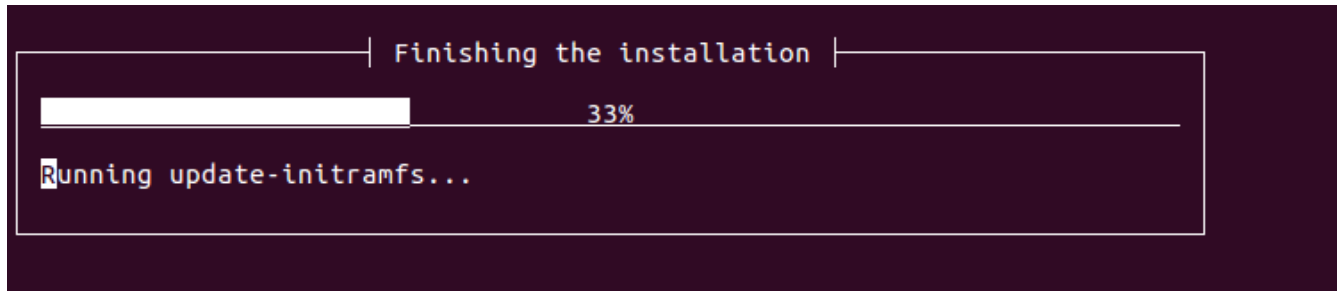
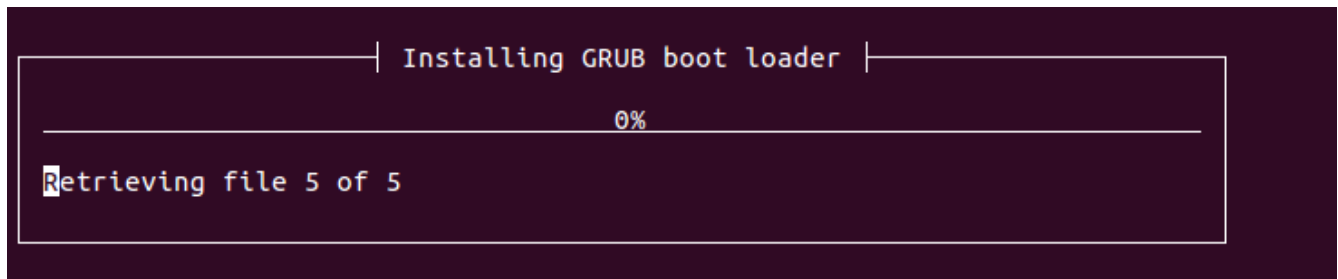
How do you want to manage upgrades on this system?

No automatic updates

Install security updates automatically

Manage system with Landscape

Series of installation pages you will see:



After successful installation, you will see the option to log-in:

```
Starting Permit User Sessions...
[ OK ] Started Permit User Sessions.
Starting Hold until boot process finishes up...
Starting Terminate Plymouth Boot Screen...
[ OK ] Started Hold until boot process finishes up.
[ OK ] Started Terminate Plymouth Boot Screen.
[ OK ] Started LSB: Set the CPU Frequency Scaling governor to "ondem
[ OK ] Started Getty on tty1.
[ OK ] Started Serial Getty on ttyAMA0.
[ OK ] Reached target Login Prompts.
Starting Set console scheme...
[ OK ] Started Set console scheme.
[ OK ] Started LSB: daemon to balance interrupts for SMP systems.
[ OK ] Started LSB: automatic crash report generation.
[ OK ] Reached target Multi-User System.
[ OK ] Reached target Graphical Interface.
Starting Update UTMP about System Runlevel Changes...
[ OK ] Started Update UTMP about System Runlevel Changes.

Ubuntu 16.04.6 LTS ubuntuTEST ttyAMA0

ubuntuTEST login: █
```

After successful login, you should be able to see a similar page:

```
srv@srv-GE75-Raider-9SG: ~/openpilotricardo/tools/emu
Password:
Welcome to Ubuntu 16.04.6 LTS (GNU/Linux 4.4.0-142-generic aarch64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

159 packages can be updated.
110 updates are security updates.

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

srv@ubuntutestarm:~$ ls
```

Shutdown QEMU by running “`sudo shutdown -h now`”