

Magnesium-Server

bin noch mit der Einrichtung beschäftigt.

<hi #ffc90e>Hier soll definitiv die einzelnen Schritte beschrieben werden und was man anpassen/aufpassen muss. Muss nicht super detaiert sein, aber so, dass jemand "normales" es versteht. 😊 </hi>

Later on you would just have to copy the files from a gitea location

Installation of Debian (RAID1)

Go through the installer with your desired configuration until you get choose the installation disk. At some point you will be asked to choose login data etc., choose the following:

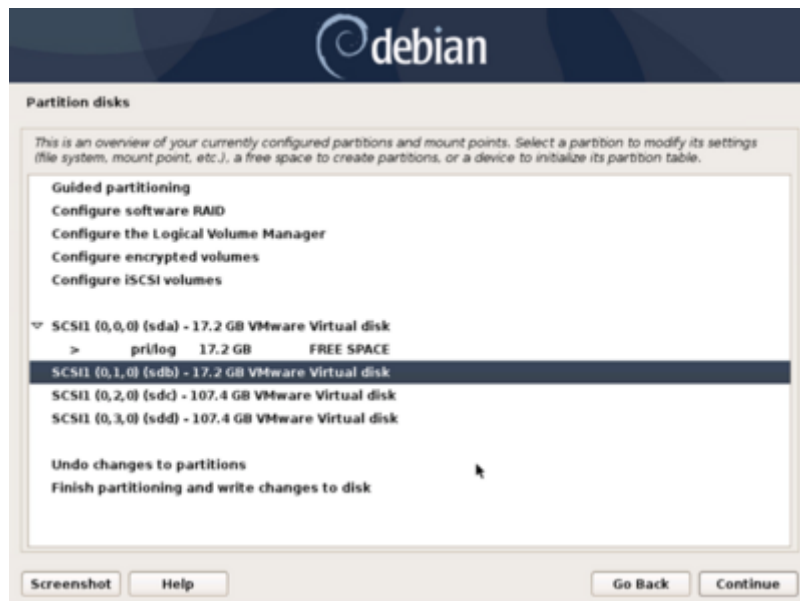
- login: magnesium
- password: ramsey
- name of the computer: thingol

Preparing our Drives

Choose to manually partition the disk.



Next choose the first of your future RAID Drives in the installer to create an empty partition. Repeat the process for the second drive.



Now choose to configure software RAID on the screen and confirm your two partitioned drives. The screen should look like this:



Continue and choose to create a **MD device**. Select **RAID** on the next screen. You will be asked for the following **drive configurations**:

- Number of active devices: 2
- Number of spare drives: 0
- Active drives: the two drives you partitioned earlier

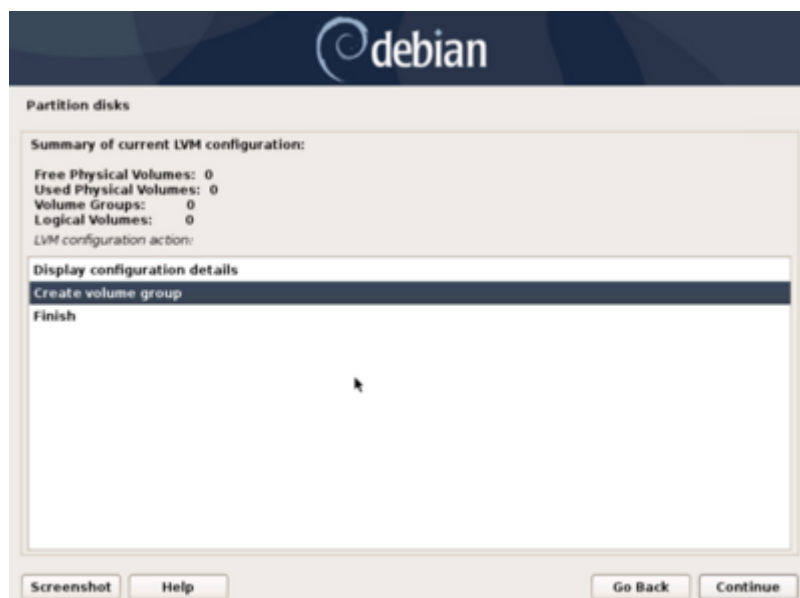
Confirm your configuration and finish disk partitioning.

LVM Configuration

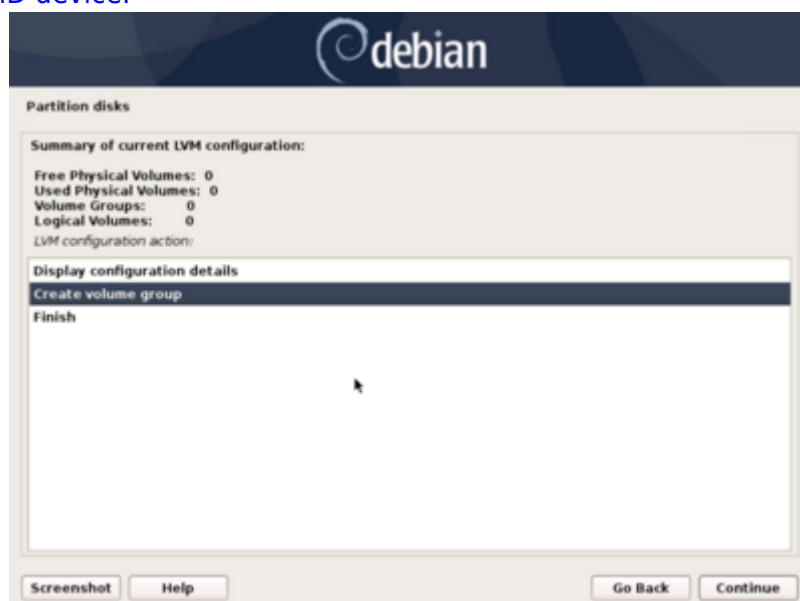
Next up we have to configure the Logical Volume Manager. For that select it from the menu and continue:



Select **yes**, when asked to keep the current partition layout and continue. Now we are creating a new **volume group**:



Choose a name for the volume group afterwards and continue. On the next screen you will select the previously created MD device.



Confirm to keep the partition layout afterwards. Next create the first logical volume and name it root.



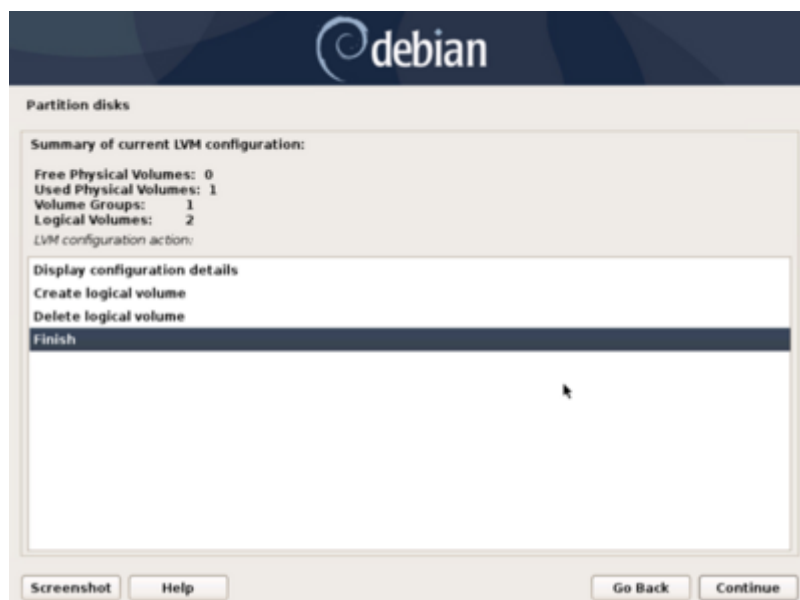
The image shows two screenshots of the Debian installer's LVM configuration interface. The top screenshot displays the 'Partition disks' screen with a summary of the current LVM configuration: Free Physical Volumes: 0, Used Physical Volumes: 1, Volume Groups: 1, and Logical Volumes: 0. It lists the LVM configuration action as 'Create logical volume' and provides options to 'Display configuration details', 'Create logical volume', 'Delete volume group', and 'Finish'. The bottom screenshot shows the 'Please enter the name you would like to use for the new logical volume.' screen, where the logical volume name 'root' has been entered in the input field. Both screens include 'Screenshot', 'Help', 'Go Back', and 'Continue' buttons.

Choose about 900G as the Volume Size. It might vary depending on your chosen hdd. Calcute your need beforehand.



The image shows a screenshot of the Debian installer's LVM configuration interface, specifically the '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.' screen. The logical volume size '16G' has been entered in the input field. The screen includes a 'Screenshot' button and 'Go Back' and 'Continue' buttons.

Repeat the steps for the second LV and name it **swap** with 4G as the volume size. Confirm and finish afterwards.



Next up, format root volume. Select the root volume that was created previously. Pay attention to the name next to the LV. During this installation it should be "LV root". Click continue.



Select "Do not use" for the "Use as" setting for the partition. Continue with **Ext4 journaling file system**.



Next set the **Mount point** to **"/ - root file system"**. Confirm with the option **Done setting up the**

partition.



Now we will do the same for swap. Choose it from the shown list:



Choose to use it as **swap area**. It should look like this in the end:



Finish and confirm your setup:



In the end choose to install Debian on the root partition.

Installing Software

There are three basic steps to follow:

1. install Debian in RAID
2. install all the programs
3. get the configuration and all the connections running

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Last update: 2021/03/01 10:30

