

How to Expand Disk Space on Orchestrator (GXV) with the GParted Utility

Warning: There is a risk that this procedure could corrupt the GXV's disk image. Always backup --- either do a GMS backup, clone the GXV, or backup GXV's disk image. Then, if anything goes wrong, you can restore the backup to the disk.

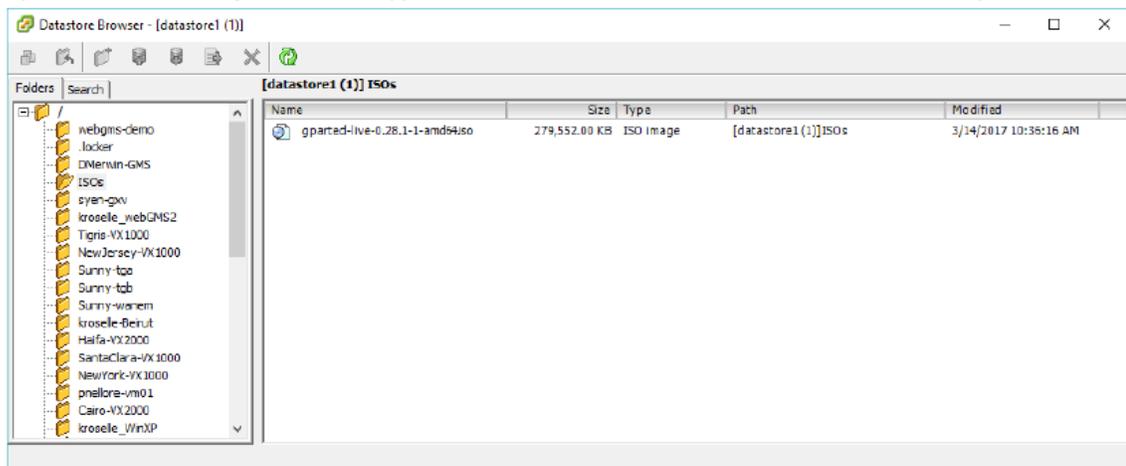
Introduction

These steps are for VMware OVA deployment and using the vSphere client. The steps and tasks are similar for the vSphere web client and other hypervisors. The significant difference is knowing how to attach the relevant image (ISO, vhd, or qcow) to the VM's CD-ROM drive.

Don't be intimidated by the number of steps. They might look complicated, but the majority are preparation tasks. If you bungle those, you won't corrupt anything and a power cycle should fix it. The actual partition task is addressed in steps 13 to 20, which are straightforward and painless.

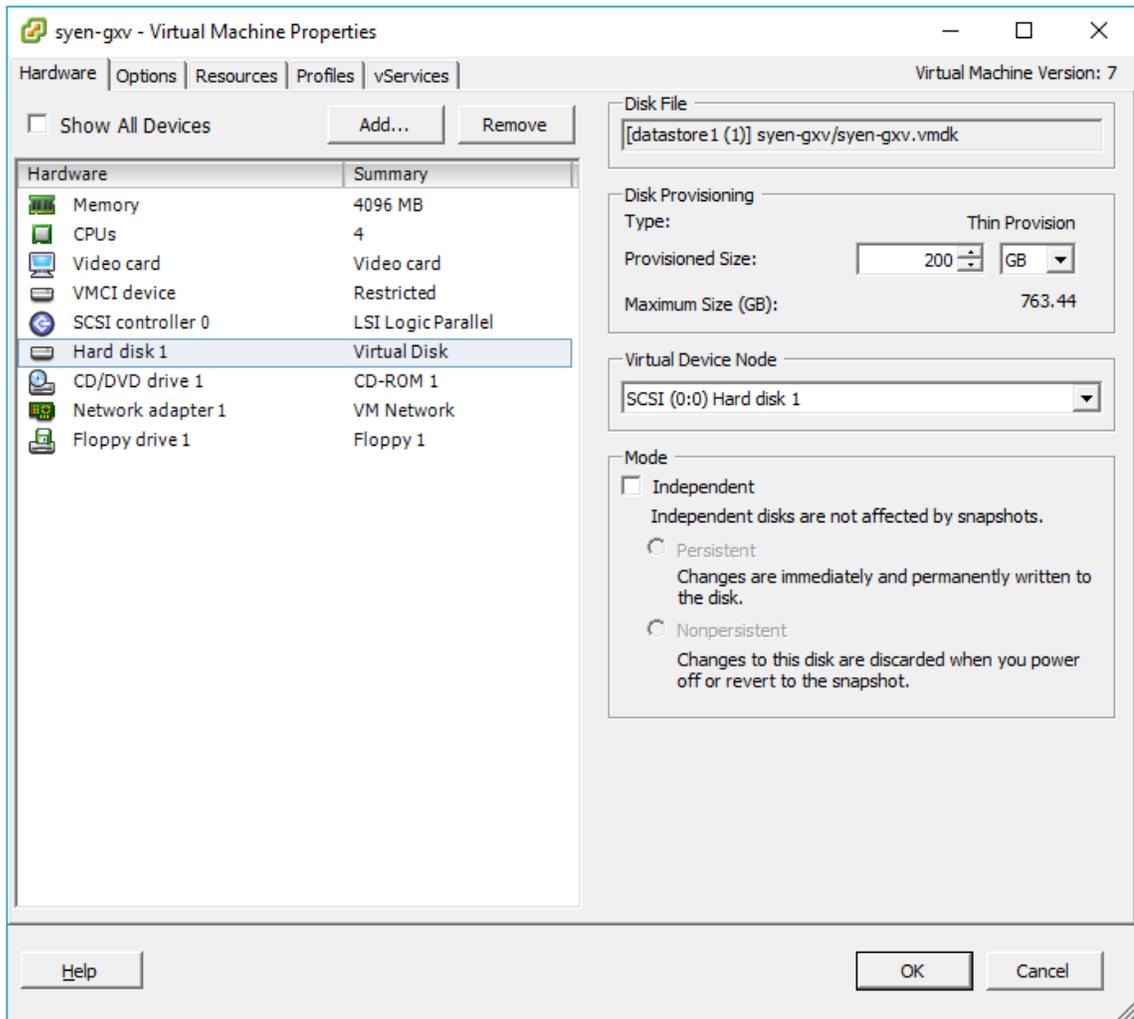
Steps

1. Download the GParted ISO image [here](#). It's preferable to use the 64-bit version, *gparted-live-<version>-amd64.iso*.
2. Upload the ISO image to GXV's hypervisor Datastore. You'll retrieve it in a later step.



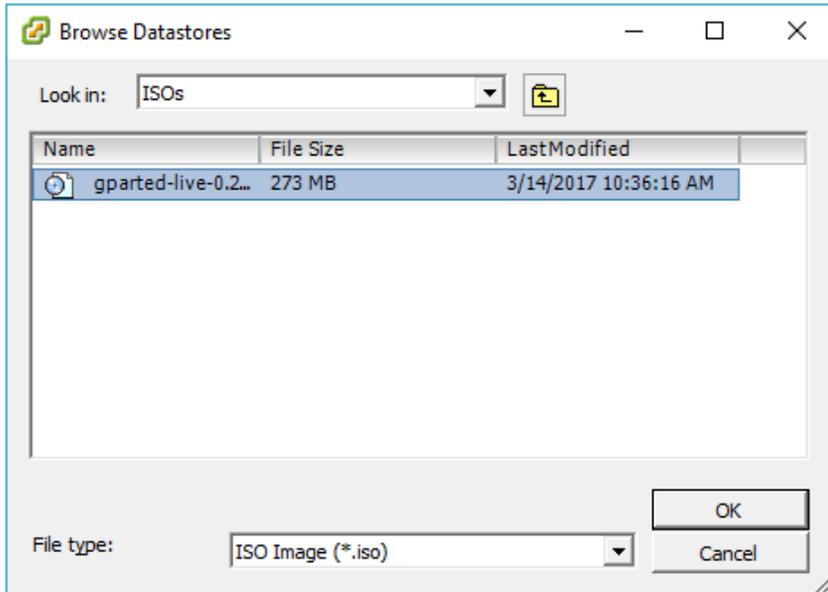
3. Login to the GXV and shutdown the host. (You can do this from Orchestrator's UI as well.) Now, you'll edit the virtual machine settings.
4. In the vSphere client's navigation window, select **GXV VM**. In the main window, click **Edit virtual machine settings**. The Virtual Machine Properties property sheet appears.

5. In the **Hardware** tab, select GXV's hard disk and increase its size as desired. In this example, we increased from 100GB to 200GB.

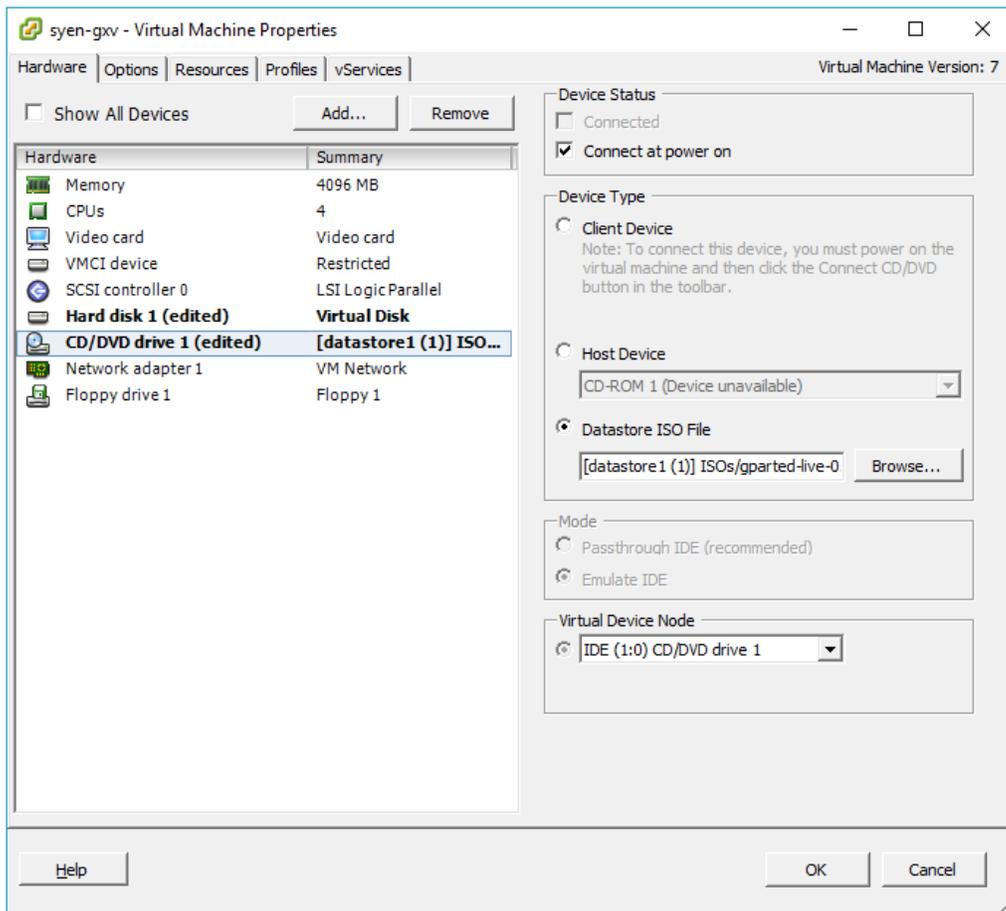


Click **OK**.

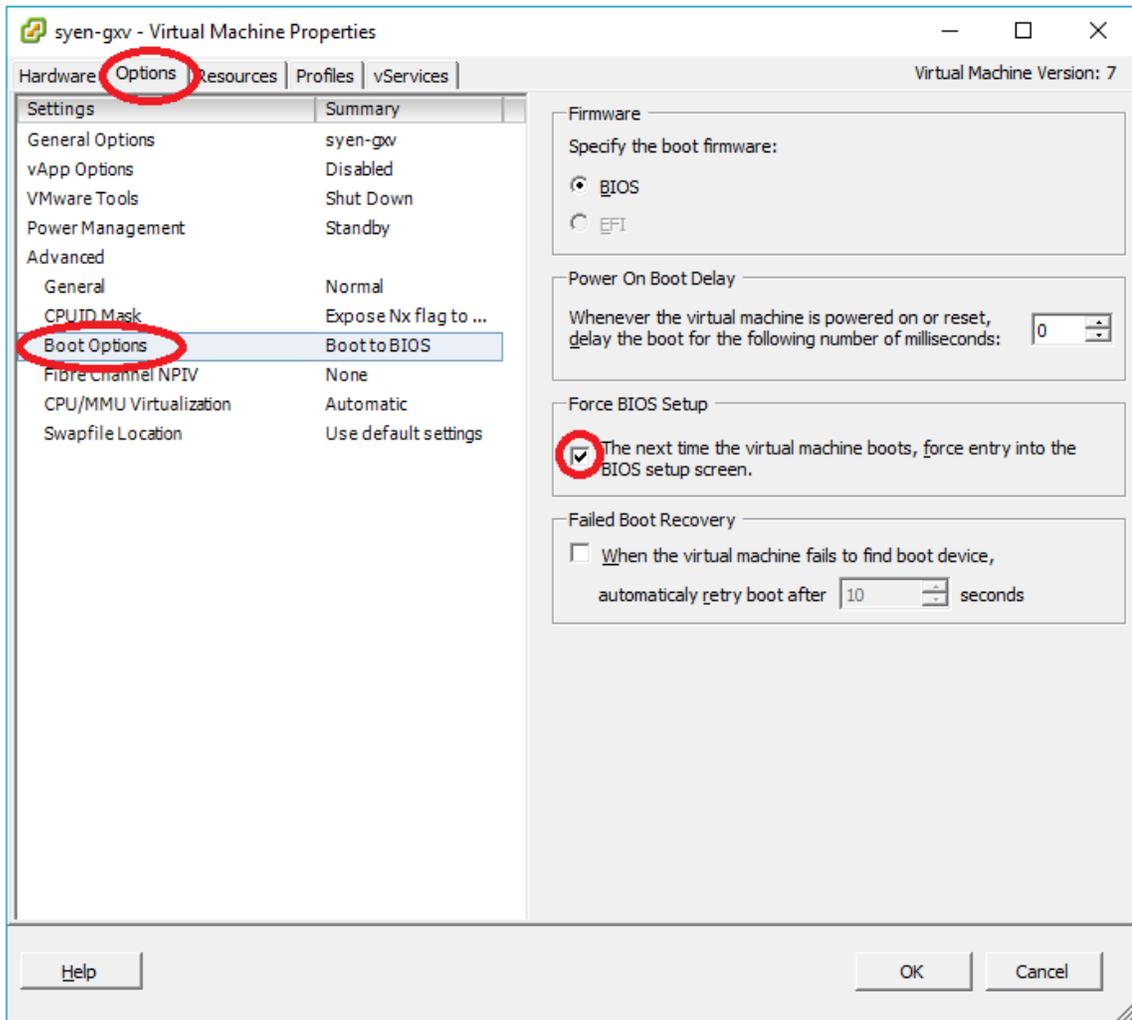
6. Still in the **Hardware** tab, select **CD/DVD drive** and attach GParted ISO image you uploaded to Datastore to the drive.



Select **Connect at power on** and click **OK**.

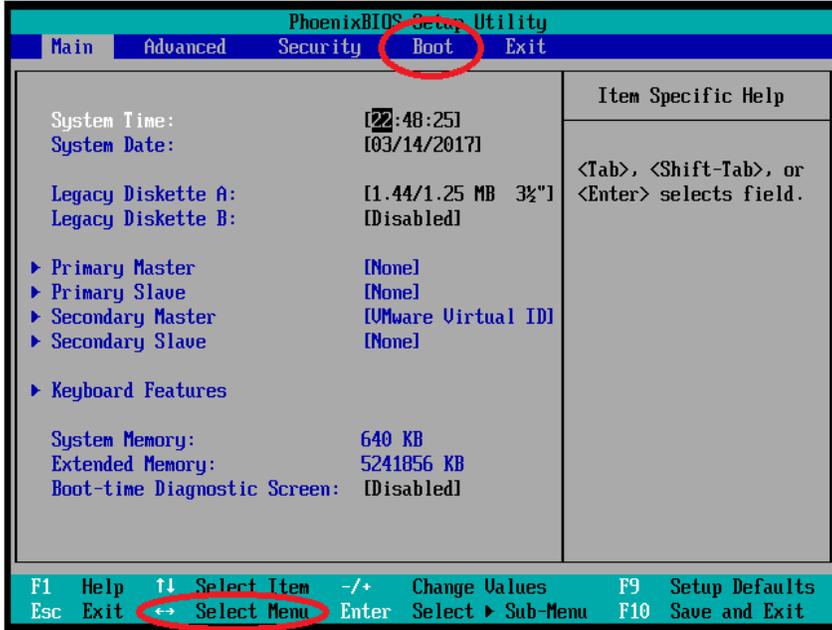


7. To ensure that GXV boots from CDROM, we'll force the boot up to access the BIOS setting. In the **Options** tab, and select **Advanced > Boot Options > Force BIOS Setup** in next boot.

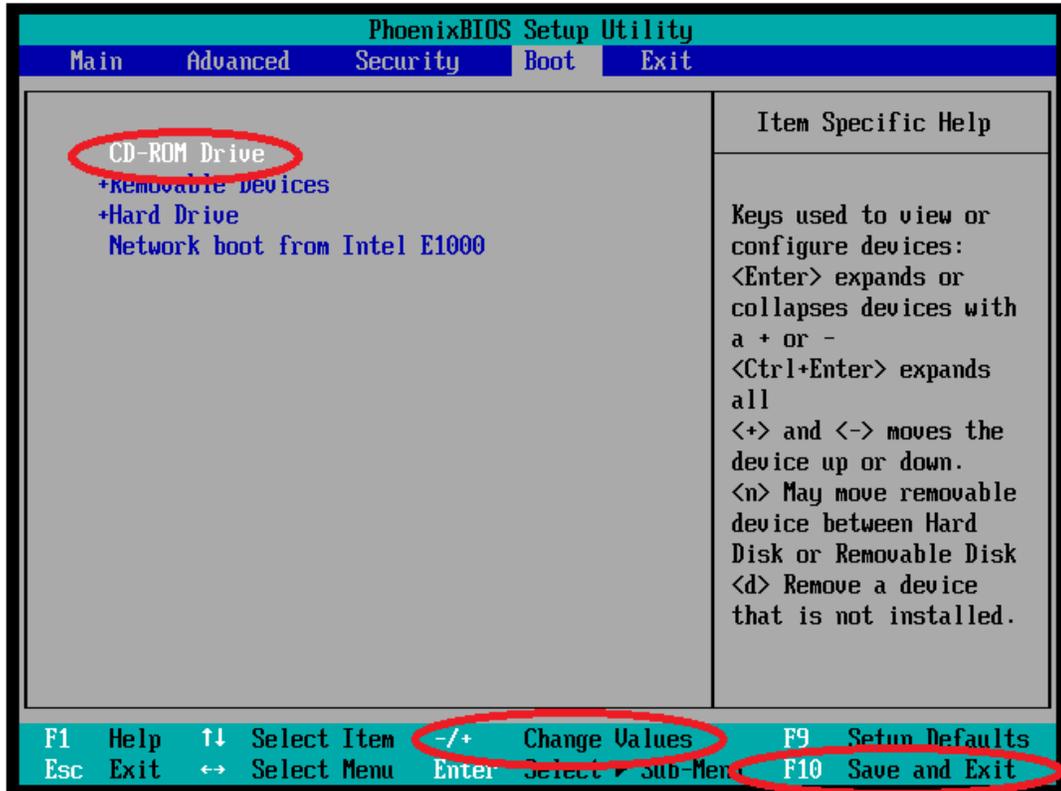


8. Click **OK** and power on the GXV.

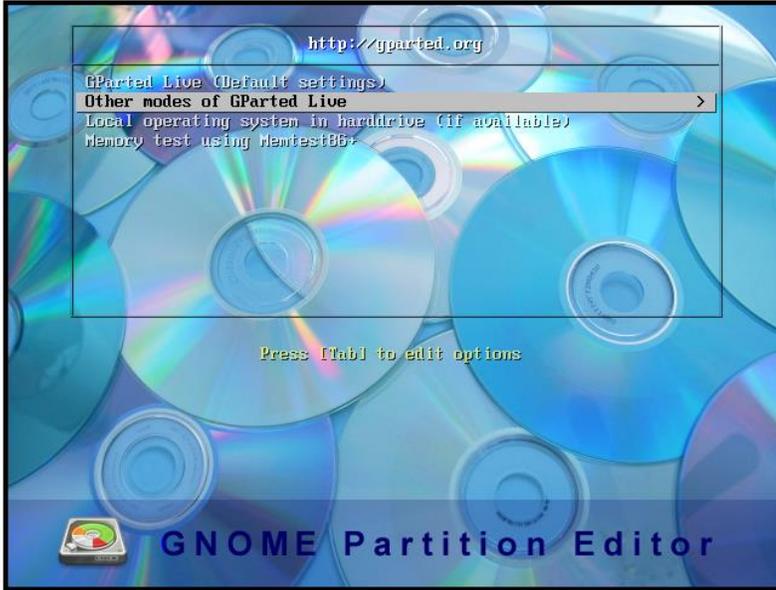
9. Select the **Console** tab. You should see the BIOS screen there.



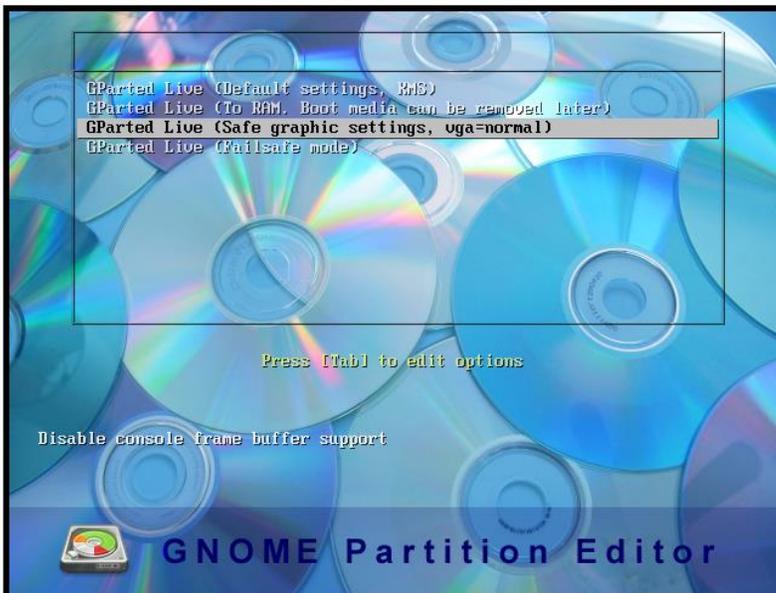
10. Use the right arrow to select the **Boot** menu, and move **CDROM** to the top of the list if it isn't there already.



11. Press **F10** to **Save and Exit**, and confirm setup confirmation. The system reboots, and the GNOME Partition Editor appears.
12. To be on the safe side, select **Other modes of GParted Live**.



13. Then select **Gparted Live (Safe graphic settings, vga=normal)** and press **Enter**.

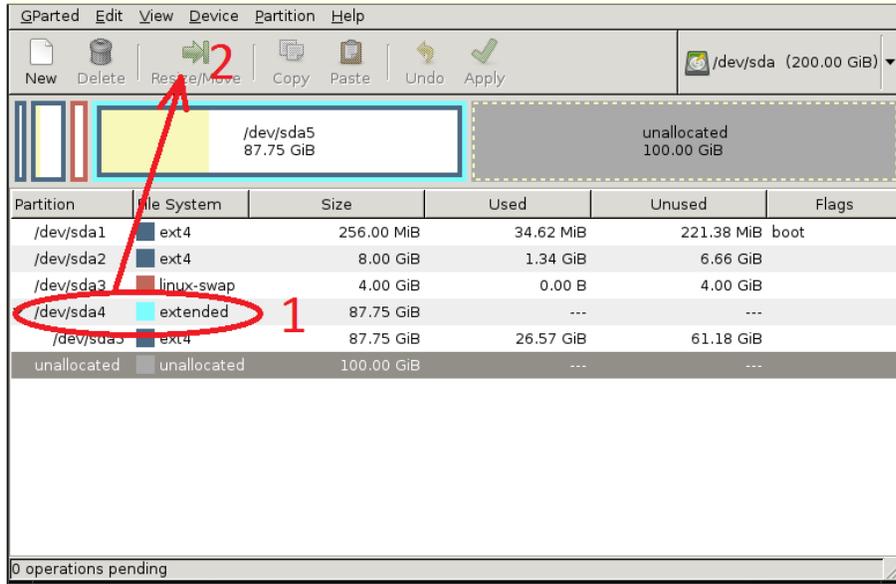


14. Press **Enter** for the next few questions, accepting the defaults.
At the end, the GParted GUI appears. We'll resize two partitions.

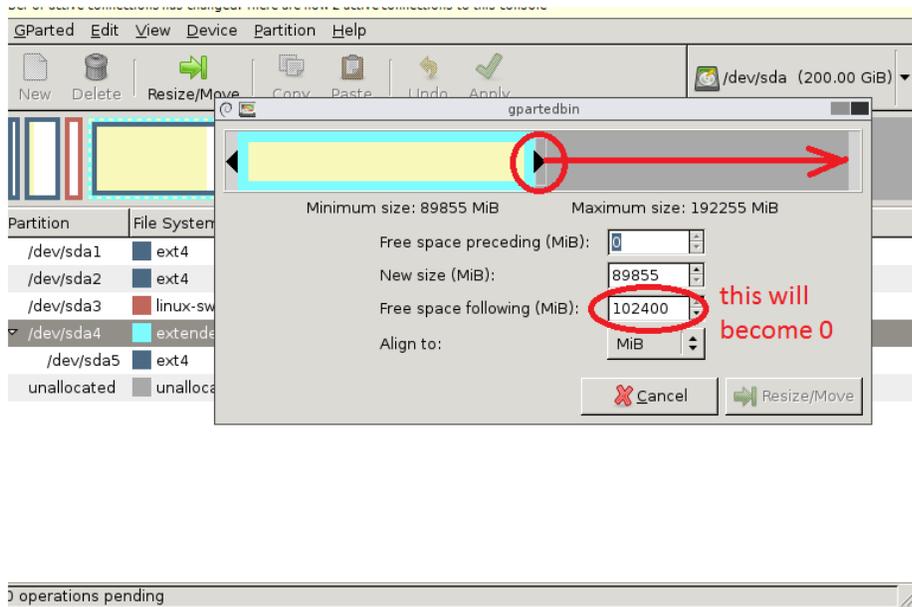
How to Expand Disk Space on Orchestrator (GXV) with the GParted Utility

15. In the table, select the **extended** (/dev/sda4) partition.

a. Click **Resize/Move** in the toolbar.

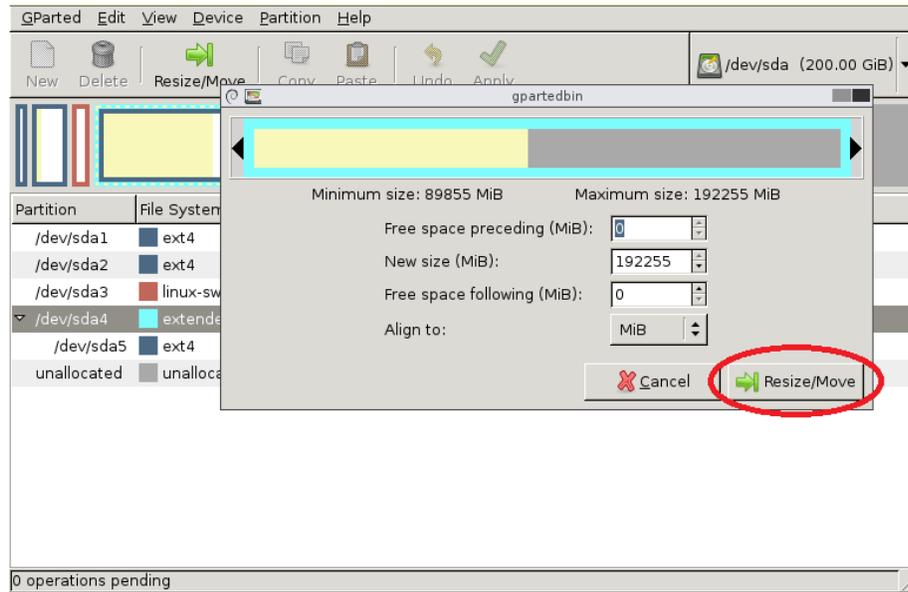


b. Drag the right triangle all the way to the right side until **Free space following (MiB)** displays **0**.



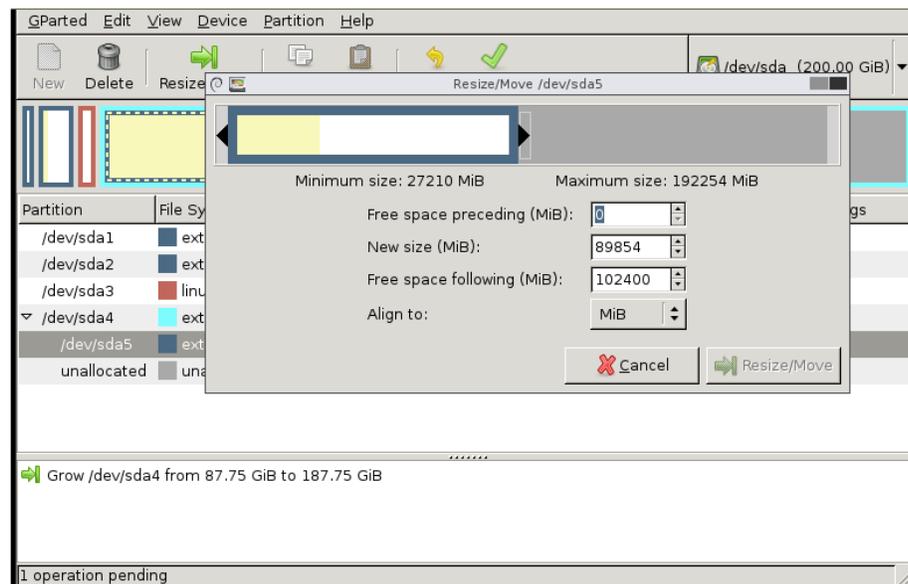
How to Expand Disk Space on Orchestrator (GXV) with the GParted Utility

- c. Click **Resize/Move** in the dialog box.



16. In the same table, select the **ext4** (/dev/sda5) partition.

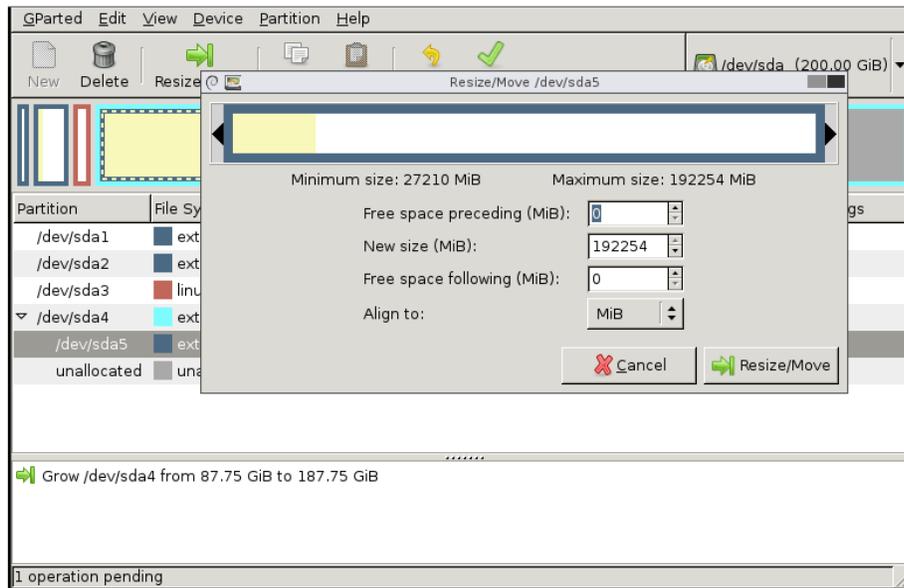
- a. Click **Resize/Move** in the toolbar.



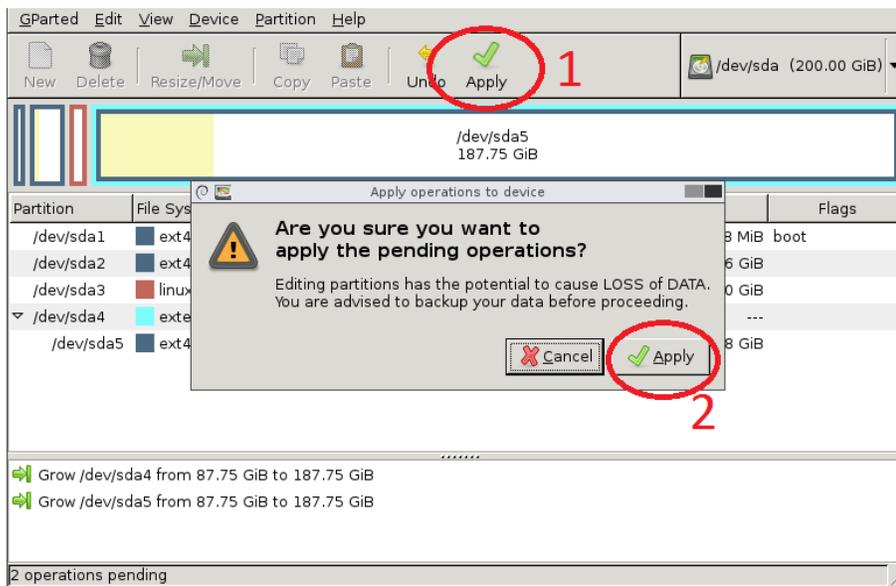
- b. Again, drag the right triangle all the way to the right side until **Free space following (MiB)** displays **0**.

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- c. Click **Resize/Move** in the dialog box.

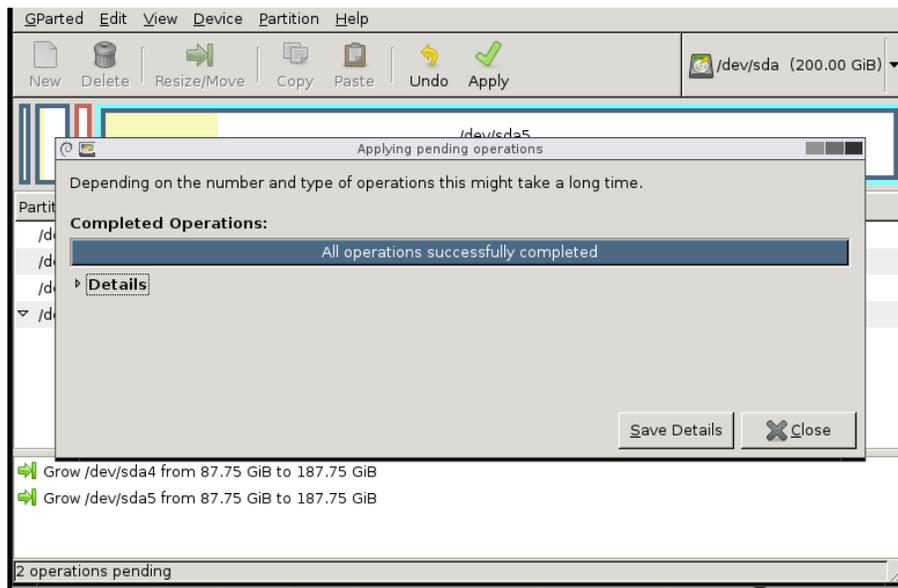
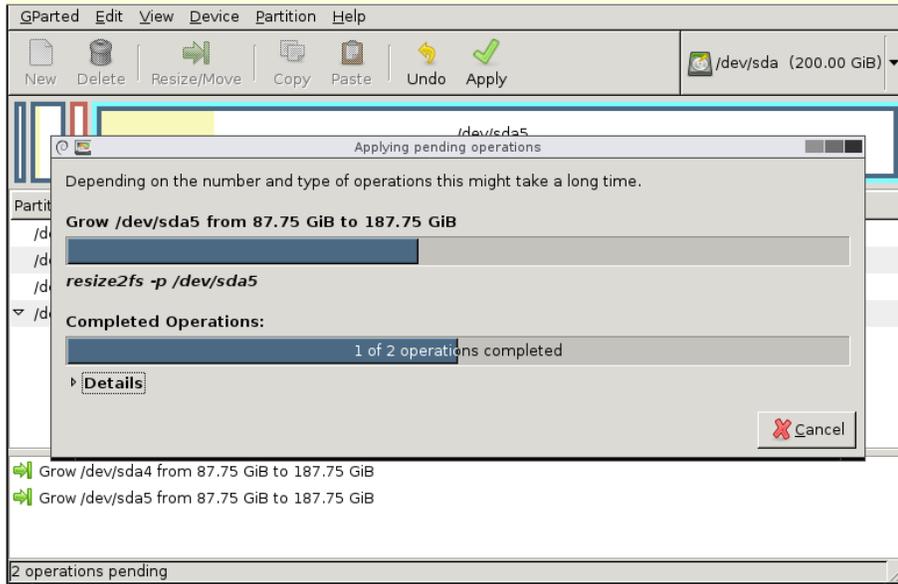


17. After resizing the two partitions, click **Apply** in the toolbar, and then click **Apply** in the dialog box to confirm.



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The GParted utility re-partitions the disk.

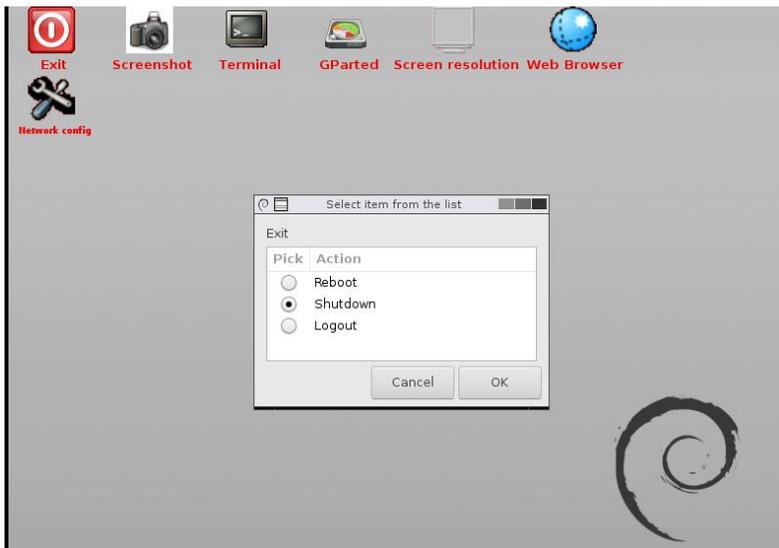


18. Click **Close**. GParted displays the newly resized partition layout.

19. Quit the GParted application (menu item **GParted > Quit**).
When the desktop appears, click the red **Exit** icon.



20. When the exit dialog appears, select **Shutdown** and click **OK** to shut down the VM.



The following message appears: **Please remove the live-medium, close the tray (if any) and press ENTER to continue.** So, just press **ENTER**.

21. Now go back to the Hypervisor (vSphere client) and detach the ISO image from the GXV CDROM drive. (Otherwise, it will boot GParted when booting up.)
22. Power up GXV. You should now have more space.