

Expand LVM Volume

Expanding the Logical Volume

- 1. Check Available Space: Before expanding, check how much free space is available in the volume group.**
 1. `vgdisplay`
- 2. Resize the Logical Volume: To extend the logical volume, use the following command. Replace `<size>` with the amount you want to add (e.g., `10G` for 10 GB):**
 1. `sudo lvextend -L +<size> /dev/mapper/ubuntu--vg-ubuntu--lv`
- 3. Resize the Filesystem: After resizing the logical volume, you need to resize the filesystem to use the new space:**
 - 1. For ext4 filesystem:**
 1. `sudo resize2fs /dev/mapper/ubuntu--vg-ubuntu--lv`
 - 2. For XFS filesystem:**
 1. `sudo xfs_growfs /dev/mapper/ubuntu--vg-ubuntu--lv`

Shrinking the Logical Volume

- 1. Check Filesystem Size: Before shrinking, ensure the filesystem is smaller than the logical volume you want to resize it to. You might need to reduce the filesystem size first.**
 - 1. For ext4 filesystem:**
 1. `sudo resize2fs /dev/mapper/ubuntu--vg-ubuntu--lv <new_size>`
 2. For example, to shrink to 20G:
 1. `sudo resize2fs /dev/mapper/ubuntu--vg-ubuntu--lv 20G`
- 2. Reduce the Logical Volume: Now you can safely reduce the logical volume:**
 1. `sudo lvreduce -L <new_size> /dev/mapper/ubuntu--vg-ubuntu--lv`
- 3. Resize the Filesystem Again (if necessary): If you haven't already resized the filesystem in the first step, you can do it now.**

Revision #1

Created 21 September 2024 14:40:22 by ColtM

Updated 21 September 2024 14:45:07 by ColtM