

5 Linux commands to check free disk space

Linux df command

The `df` command stands for "disk-free," and shows available and used disk space on the Linux system.

`df -h` shows disk space in human-readable format

`df -a` shows the file system's complete disk usage even if the Available field is 0

`df command` or type unknown

`df -T` shows the disk usage along with each block's filesystem type (e.g., xfs, ext2, ext3, btrfs, etc.)

`df -i` shows used and free inodes

`df command` or type unknown

You can get this information in a graphical view using the **Disks** (gnome-disk-utility) in the GNOME desktop. Launch it to see all disks detected by your computer, and click a partition to see details about it, including space used and space remaining.

`GNOME Disks` or type unknown

opensource.com

Linux du command

`du` shows the disk usage of files, folders, etc. in the default kilobyte size

`du -h` shows disk usage in human-readable format for all directories and subdirectories

`du -a` shows disk usage for all files

`du -s` provides total disk space used by a particular file or directory

`du command`
Image cannot be displayed or type unknown

The following commands will check your total space and your utilized space.

This information can be represented visually in GNOME with the **Disk Usage** application, or with **Filelight** in the KDE Plasma desktop. In both applications, disk usage is mapped to concentric circles, with the middle being the base folder (usually your **/home** directory, but it's up to you) with each outer ring representing one directory level deeper. Roll your mouse over any segment for detailed information about what's taking up space.

`Disk usage`
Image cannot be displayed or type unknown
opensource.com

Linux ls -al command

`ls -al` lists the entire contents, along with their size, of a particular directory

`ls -al command`
Image cannot be displayed or type unknown

Linux stat command

`stat <file/directory>` displays the size and other stats of a file/directory or a filesystem.

`stat` command

Linux fdisk -l command

`fdisk -l` shows disk size along with disk partitioning information

`fdisk -l` command

Revision #1

Created 5 January 2024 05:07:51 by ColtM

Updated 7 August 2024 23:24:39 by ColtM