

Thu 16:04

raju@raju-HP-Laptop-15-bs1xx: ~/rc_c

```
es.desktop lena_rotate.bmp me.txt op.c Public rc_c rc_s  
mp matchanal.py Music Pictures qw.c rc_hw rc_t  
  
.jpg datasets lena.bmp salt_n_pepper.bmp se05  
lena1.bmp saltandpeppernoise.jpeg se04 xampi  
  
untwords.cpp d2b_part2.cpp homework_ds possible_combina  
b.cpp gp.cpp largest_island.cpp reverse_words_in  
  
h1.cpp  
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ementtriangle.cpp  
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ble_combinations_backtracking.cpp  
se_words_in_sentence.cpp  
g.cpp  
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gle.cpp
```

Exploring Disk Utilities in Linux

Welcome to an in-depth exploration of disk utilities in Linux. Here we will cover everything you need to know about these powerful tools.



by sra
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Made with Gamma



What are Disk Utilities?

Disk utilities are software tools that help manage and maintain storage devices in a computer system. They can be used to diagnose, repair, and format disks, as well as to optimize and monitor disk space usage.

① Diagnostics

Disk diagnostics tools are used to identify disk errors and bad sectors. These errors can cause data loss and hardware failure.

② Repair

Disk repair tools are used to fix errors and recover data from damaged disks.

③ Formatting

Disk formatting tools are used to prepare disks for use, which includes configuring file systems and disk partitioning.

Different Types of Disk Utilities

There are various types of disk utilities available in Linux.

Smartmontools

Used for monitoring and reporting hard drive health on individual computer systems.

Parted

A partition editor used to create, resize, delete, and move partitions.

Badblocks

Identify bad sectors on a disk so that they can be repaired or replaced.

Disk Utilities and Their Commands

Here are some commonly used disk utility commands.

Command	Description
df	Displays disk usage of a file system in a summarised form.
du	Displays the disk usage of individual files or directories in a file system.
fsck	Used to check and repair Linux file systems.

df and du Commands

These are two of the most commonly used disk utility commands in Linux. Here's what they do:



df command

Used to display total and available disk space for all file systems in a summarised form. Syntax: `df [-h] [-x] []`. Example: `df -h /dev/sda1`



du command

Used to display the disk usage of individual files or directories in a summarised form. Syntax: `du [-h] []`. Example: `du -h /home/user1`

df and du Uses

Here are some of the common uses for the df and du commands.

Free Disk Space Check

Use the df command to check available space on your disks and get a list of files that are taking up too much space.

Identify Disk Usage

The du command can be used to determine which files or directories are taking up the most space. This can help you identify areas where disk space can be saved.

Monitor Disk Space

Use df regularly to monitor your disk space usage and ensure that you have enough space for important data and files.

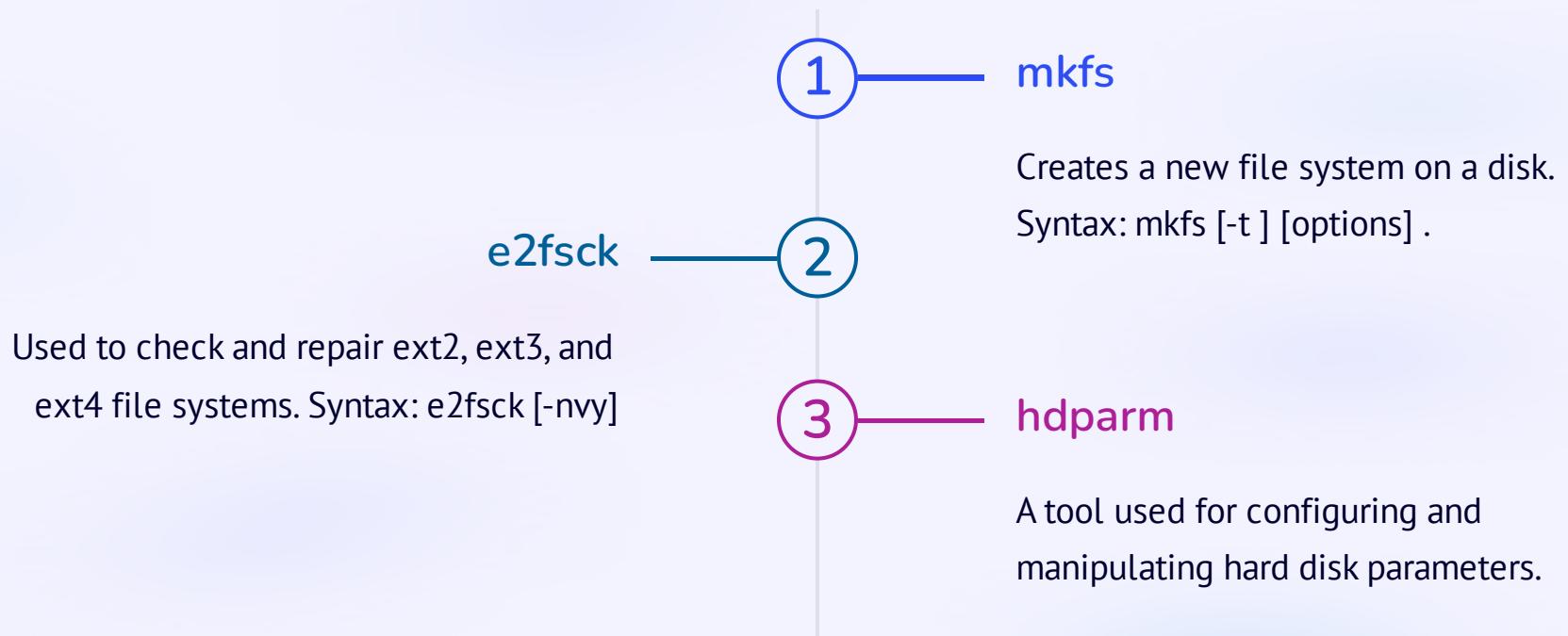
Identify Large Files

Use du to find large files or directories that need to be moved or deleted to free up disk space.



Other Disk Utilities Commands

Here are some additional disk utility commands that can be useful.



Thank You

Thank you for learning with us! We hope this presentation has helped you understand the power and importance of disk utilities in Linux.

