

# **Exploring Disk and Process Commands**

Welcome to our presentation on disk and process commands! In this guide, we'll dive into powerful commands like df, du, ps, and more.

## **Disk Commands**

## df

The df command is your gateway to understanding file system disk space usage. Discover how much space is used and available.

## du

Estimate file space usage with du. Uncover the size of directories and files, helping you manage them more effectively.

#### free

Memory is vital. Use the free command to analyze the amount of free and used system memory, ensuring optimal performance.

Syntax Syntax of du: du [options] [directory/file] Syntax of df: df [OPTION]... [FILE]... Syntax of free: free [OPTION]

## **Process Commands**

## ps

Gain insight into your system's processes with ps. Take a snapshot of running programs and identify resource usage like a pro.

```
/demon# kill -l
                                                  5) SIGTR
                  3) SIGQUIT
  2) SIGINT
                                  4) SIGILL
  7) SIGBUS
                                     SIGKILL
                                                 10) SIGUS
                  8) SIGFPE
 12) SIGUSR2
                                     SIGALRM
                                                 15) SIGTE
                 13) SIGPIPE
     SIGCHLD
                 18) SIGCONT
                                     SIGSTOP
                                                 20) SIGTS
                 23) SIGURG
                                                 25) SIGXF
    SIGTTOU
                                     SIGXCPU
                 28) SIGWINCH
                                                 30) SIGPW
                                 29) SIGIO
                 35) SIGRTMIN+1 36) SIGRTMIN+2 37) SIGRT
 34) SIGRTMIN
                40) SIGRTMIN+6 41) SIGRTMIN+7
                                                 42) SIGRT
     SIGRTMIN+10 45) SIGRTMIN+11 46) SIGRTMIN+12 47) SIGRT
     SIGRTMIN+15 50) SIGRTMAX-14 51) SIGRTMAX-13 52) SIGRT
                                 56) SIGRTMAX-8
 59) SIGRTMAX-5 60) SIGRTMAX-4 61) SIGRTMAX-3 62) SIGRT
 64) SIGRTMAX
/demon#
```

## kill

Terminate or signal unruly processes with the powerful kill command. Regain control and ensure a smooth-running system.

## Understanding the ps Command

The ps command is a powerful tool used in Unix-like operating systems to display information about running processes. It provides a snapshot of the current processes running on your system, including their process IDs (PIDs), parent PIDs, CPU and memory usage, and other details.

The ps command has various options that allow you to customize the output and filter the processes based on different criteria. For example, you can use the -e option to display information about all processes on the system, or the -u option to show processes owned by a specific user.

Using the ps command can help you monitor and manage your system's resources, identify resource-intensive processes, troubleshoot issues, and more.

Let me know if you need any further information or if there's anything specific you'd like to know about the ps command!

Syntax : ps [option]

```
drwxr-xr-x. 3 root root 4096 May 18 16:03 empty
drwxr-xr-x. 2 root root 4096 May 18 16:03 games
drwxrwx--T. 2 root gdm  4096 Jun  2 18:39 gdm
drwxr-xr-x. 38 root root 4096 May 18 16:03 lib
drwxr-xr-x. 2 root root 4096 May 18 16:03 local
lrwxrwxrwx. 1 root root  11 May 14 00:12 lock -> ../run/lock
drwxr-xr-x. 14 root root  4096 Sep 14 20:42 log
lrwxrwxrwx. 1 root root  10 Jul 30 22:43 mail -> spool/mail
drwxr-xr-x. 2 root root 4096 May 18 16:03 nis
drwxr-xr-x. 2 root root 4096 May 18 16:03 opt
drwxr-xr-x. 2 root root 4096 May 18 16:03 preserve
```

#### **KILL**

Terminate or signal unruly processes with the powerful kill command. Regain control and ensure a smooth-running system.

Syntax: kill [signal] PID