Which is the command used in linux to check all the running processes

gg Copy code
Copy code
Copy code
USER P00 NCPUNMEN VSZ RSSTTY STATSTART TIME COMMAND
root 1 0.0 0.1 8544 1580? \$0.0915 0.001 init
2. top Command:
The top commande provides a real-time, dynamic view of system processes. Simply

cess information along with CPU and memory usage, sorted dynamically by re and (Optional, if installed): -friendly alternative to top that allows navigation using arrow keys:

How to kill a process In Linux, you can kill a process using the kill command, killall command, or htop utility. Here's ho

Using the kill Command
 Find the Process ID (PID) of the process you want to kill using

Or use top or htop to locate the PID

Kill the process by specifying its PID:

2. Using the killall Command

3. Using htop Utility (if installed)

Copy code htop having a constraint of the process you want to kill using the arrow keys. Press 59 to kill the process. Confirm the kill signal (e.g., SIGTERM or SIGKILL).

Can you tell me the complete command to add a user and group in linux?

Add a Group

The the groupadd command to create a new group:

The the groupadd command to create a new group.

The the groupadd command to create a new group.

The the groupadd command to create a new group.

bash Copy code sudo groupadd <group_name> Example:

2. Add a User

Copy code sudo useradd ·m ·s /bin/bash ·g <group_name> cusername> Explanation:

• ·m: Creates a home directory for the user.

· · · / Join/bash: Sets the default shell to bash.

• ·s <pr

3. Add a User to Additional Groups
If you want to add the user to more groups:

oasn Copy code sudo usermod -aG <group_name> <username: Example:

4. Set a Password for the User

5. Verify the User and Group

How will you create 3 directories in one command Eg:

Command:

Explanation:

• mkdir: Comma

• -p: Ensures that exist.

exist.

Result:

Directory a is created if it doesn't exist.

his created.

Example:

What is the use of my command?

Primary Uses:

1. Move Files or Direct

• Moves a file or dire

• Syntax:

This moves file.txt to the /home/user/documents/ directory

Rename Files or Directories
 Renames a file or directory by "moving" it to the same location with a net
 Syntax:

This renames oldfile.txt to newfile.txt.

Move Multiple Files to a Directory
 Move multiple files into a directory at once
 Syntax:

How to start any service in Linux?

1. Using systemd (Most Modern Distros, e.g., Ubuntu 16.04+, CentOS Difference Between profile and bashrc:

nctl start <service name>

2. Using service Command (Older Distros)

Example:

3. Using init.d Scripts (Legacy Systems)

Example:

Using upstart (Ubuntu 14.04 and Earlier)
 Command to Start a Service:

bash Copy code sudo start <service_name> Example:

Verifying Service Startup
After starting the service, you can verify that it is ru
• Check Active Services (with systemd):

Common Services You May Work With

What is bashrc?

The .bashrc file is a script that is executed whenever a new interactive shell session is started inbash (Bourne Again SHell). It is a configuration file for the bash shell that allows you to customize your shell

Key Features and Use of .bashrc:

hell Customization:

You can define environment variables, shell options, and aliases to enhance your workflow

Source of the commands.

bash
Copy code
alias, Il='Is-al"
alias grep='grep ~color=auto'

3. Environment Variables:

○ Set environment variables that apply to your shell se

Location of .bashrc

• The .bashrc file is usually located in the user's home directory

How to Apply Changes in .bashrc After editing .bashrc, apply the changes by runnin

What is profile in Linux?

Types of profile Files:

The control prefix (tert/prefix) of located at Jack prefix (leg) and the prefix (leg) and the

When is profile Loaded?

• Login shells: The profile files are executed when a user logs in vi

• Text-based consoles (e.g., TTY).

• SSH sessions:

• Desktop environments, if configured to start a login shell.

*For non-login shell, files like "/ bashtr are used instead.

~/.bashrc Non-login interactive shells ~/.profile Login shells

Purpose Environment variables, startup commands

Trigger Method Logging in (e.g., SSH)

Editing .profile:
1. Open the file with a text edito bash
Copy code
nano "/ profile
nano "/ profile
2. Add your configurations, such as environment variables or scripts.
3. Save the file and apply changes by logging out and logging back in, or by running:

bash Copy code source ~/.profile

How to change the ownership of a file/directories in linux?

1. Basic Syntax

Change Ownership of a File
 Example:

3. Change Ownership of a Directory

4. Change Both Owner and Group

 What is A temporary root filesystem loaded into RAM during early boot
 The first user-space process started by the kernel
 by the kernel
 The first user-space process started
 by the fi ⊕ Helps kernel load drivers, mount real root
Purpose filesystem
Starts and manages system services and runlevels

Role in boot process Comes before init in boot order Comes after initramfs Located Bundled with the kernel in where? /boot/initramfs.img

Which is the command used in linux to change the file

4. Changing Permissions Using Numeric Mode

bash Copy code chmod 755 file.txt

bash Copy code chmod 644 file.txt

bash Copy code chmod u+x file.txt

bash Copy code chmod g-w file.txt

Copy code chmod u=rwx file.txt

In Linux, the **chmod** command is used to change the permissions of a file or directory. You can modify who can read, write, or execute a file using this command.

chmod [OPTIONS] <permissions> <file/d
2. File Permissions Format

Permissions are represented by a combination of read (r), user (u), group (g), and others (o).

• r (read): Permission to read the file or directory.
• w (write): Permission to modify the file or directory.
• x (execute): Permission to run the file (if it is a script

Numeric Mode (Octal Representation)

 Adjust containing and a second containing and a second containing and a second containing and a second containing a seco

This command gives:

User: Read, Write, Execute (
Group: Read, Execute (r-x)
Others: Read, Execute (r-x)
Another Example:

5. Changing Permissions Using Symbolic Mode

Examples:

• Add Execute Permission to User:

Verify the User and Group Check user details:

Check user detail
bash
Copy code
id cusername>
Example:
bash
Copy code
id john
Ust all groups:
bash
Copy code
cat /etc/group

Process Check (Generic):

Common Services You May Work With

Web Server: nginx, spasche2

Database: myra(), postgresq()

SSH: sshd

R? during early boot by the iternel

Helps kernel load drivers, mount real root.

Starts and manages system services and realized.

Role in boot process. Comes before init in boot order.

Concated Bundled with the kernel in bloot order.

Discated Bundled with the kernel in bloot order.

Outcoted of John/Init, Milly Whytendrifystemment, etc.

Used whee? Immediately after the kernel is loaded After root Bleosystem is mounted.

Used fair? Hortean effection, disk decryption, RAID, Sarring services, running scripts, system structure.

PID? No PID (runs inside early user space) Always PID 1 (first user-space process)