

### Table of Contents



1. Open-Source Nature:
2. Multitasking and Multi-user Support:
3. Command-Line Interface (CLI):
4. Package Management:
5. Security:
6. Customization:
7. Wide Distribution and Community Support:

### RGPV PYQ

Linux is a popular open-source operating system having unique features which separate it from other well-known alternatives such as Windows and macOS.

## 1. Open-Source Nature:

- Definition: Freely available source code, allowing for modification and redistribution by anyone.
- Impact: Promotes community development, rapid bug fixes, and customization possibilities.

## 2. Multitasking and Multi-user Support:

- Definition: Ability to run multiple programs simultaneously and allow different users to access the system concurrently.
- Impact: Enhances productivity and facilitates resource sharing in multi-user environments.

### 3. Command-Line Interface (CLI):

- Definition: Text-based interface for issuing commands and interacting with the system.
- Impact: Offers powerful automation capabilities, fine-grained control, and flexibility for experienced users.

### 4. Package Management:

- Definition: System for installing, updating, and removing software packages easily.
- Impact: Simplifies software installation, ensures compatibility, and reduces user workload.

### 5. Security:

- Definition: Robust security architecture with inherent multi-user privileges and permission controls.
- Impact: Offers greater resistance to malware and unauthorized access, making it a preferred choice for servers and mission-critical applications.

### 6. Customization:

- Definition: High degree of user customization, allowing for tailoring the environment to individual preferences.
- Impact: Empowers users to create a personalized and efficient working experience.

### 7. Wide Distribution and Community Support:

- Definition: Available on diverse hardware platforms and supported by a large and

Explain feature of Linux operating system.

active community.

- Impact: Offers abundant resources, tutorials, and troubleshooting assistance for users of all skill levels.