

OPERATING SYSTEM

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Operating System

- The operating system (OS) allows users to perform the basic functions of a computer.
- The OS manages all software and peripheral hardware, and accesses the central processing unit (CPU) for memory or storage purposes.
- It also makes it possible for a system to simultaneously run applications.
- All PCs, laptops, tablets, smartphones, and servers require an OS.

Windows 10

- Windows 10 is a series of personal computer operating systems produced by Microsoft as part of its Windows NT family of operating systems.
- It is the successor to Windows 8.1, and was released to manufacturing on July 15, 2015.
- Windows 10 receives new builds on an ongoing basis, which are available at no additional cost to users.

Apple iOS

- iOS (formerly iPhone OS) is a mobile operating system created and developed by Apple Inc.
- It is the operating system that presently powers many of the company's mobile devices, including the iPhone, iPad, and iPod Touch.
- It is the second most popular mobile operating system globally after Android.

Windows 7

- In contrast to Windows Vista, Windows 7 was generally praised by critics, who considered the operating system to be a major improvement over its predecessor.
- Windows 7 was a major success for Microsoft; even prior to its official release, pre-order sales for 7 on the online retailer Amazon.com had surpassed previous records.
- Increased performance, its more intuitive interface (with particular praise devoted to the new taskbar), fewer User Account Control popups, and other improvements made across the platform.

Android

- Android is a mobile operating system developed by Google.
- It is based on a modified version of the Linux kernel and other open source software.
- In addition, Google has further developed Android TV for televisions.
- Variants of Android are also used on game consoles, digital cameras, PCs and other electronics.

- Ubuntu aims to be secure by default.
- User programs run with low privileges and cannot corrupt the operating system or other users' files.
- For increased security, the sudo tool is used to assign temporary privileges for performing administrative tasks.

Mac OSX

- macOS is the second major series of Macintosh operating systems.
- The first is colloquially called the "classic" Mac OS, which was introduced in 1984.
- The first desktop version, Mac OS X 10.0, was released in March 2001.
- Since OS X 10.9 Mavericks, releases have been named after locations in California.

- The first CentOS release in May 2004, numbered as CentOS version 2, was forked from RHEL version 2.1AS.
- Since the release of version 7.0, CentOS officially supports only the x86-64 architecture, while versions older than 7.0-1406 also support IA-32 with Physical Address Extension (PAE).
- As of December 2015, AltArch releases of CentOS 7 are available for the IA-32 architecture, Power architecture, and for the ARMv7hl and AArch64 variants of the ARM architecture.

- Fedora has a reputation for focusing on innovation, integrating new technologies early on and working closely with upstream Linux communities.
- Making changes upstream instead of specifically for Fedora ensures that the changes are available to all Linux distributions.
- Fedora has a relatively short life cycle: each version is usually supported for at least 13 months, where version X is supported only until 1 month after version X+2 is released and with approximately 6 months between most versions.

- Debian is one of the earliest operating systems based on the Linux kernel.
- The project's work is carried out over the Internet by a team of volunteers guided by Debian Project Leader and three foundational documents: the Debian Social Contract, the Debian Constitution, and the Debian Free Software Guidelines.
- New distributions are updated continually, and the next candidate is released after a time-based freeze.

References

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