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Linux Opei	rating System			C EH
Linux is open source	ce operating system widely used	across enterprises and governme	ent bodies	
Hardware: Consists of phys and CPU     Kernel: A core component of control over system resourch of the control over system resourch of the control over system of the control over system to desire and returns the output of the Applications or Utilities: Utilities and operating system to the control of	is input from the users, sends it to the kernel the kernel illity programs that can be launched by jive most of the functional ities provided by user inctions which do not require any access is to implement the functionality of the OS to perform tasks like printing or scheduling system responsible for displaying graphics on	Process Memory File management system  Multituding Virtual Sile memory for code direct systems and file systems architecture, ar	Device drivers  N. Device access, Partner's terminals  Character devices  A. Character drivers  A. Ch. Verinos drivers  Notocri drivers	Software Support Hardware Support
on months and a received			stem Architecture	
		Copyright © by	ES-Council. All Rights Reserved. Repro	fuction is Strictly Prohibited.
Portability  Open Source  Multiuser  Multiprogramming	Source code of Linux is availal Multiple users can access the	can be installed on different hardward on the for free and it is a community-base resources like RAM or memory at the grams can run at the same time	d development project	
File System	Linux uses a standard hierard	hical file structure for arranging user a	and system files	-
Shell Security		used to execute programs or applicates like authentication, controlled acce		ds, and
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## macOS Operating System



- macOS is a series of closed-source graphical operating systems developed by Apple Inc.
- It is the primary operating system for Apple's Mac computers
- 🧧 It can offer a more stable and reliable platform and supports pre-emptive multitasking and memory protection

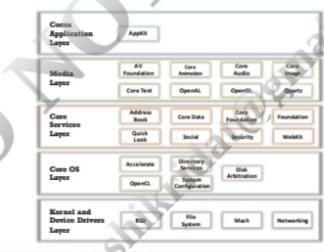
## Layers of macOS

- Cocoa Application layer: Encompasses technologies for building an app's user interface
- \* Media layer: Incorporates specialized technologies for playing, recording, and editing audio and visual media
- Core Services layer: Comprises fundamental services and technologies ranging from Automatic Reference Counting to string manipulation and data formatting
- Core OS layer: Outlines programming interfaces related to hardware and networking
- Kernel and Device Drivers layer: Contains support for file systems, networking, security, IPC, programming languages, device drivers, and other tools

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## macOS Layered Architecture





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