	What is an Operating System?	
• Three views	of an operating system	
Application	View: what services does it provide?	
System View	v: what problems does it solve?	
Implementa	tion View: how is it built?	
An operating	system is part cop, part facilitator.	

Application View of an Operating System
he OS provides an execution environment for running programs.
- The execution environment provides a program with the processor time and memory space that it needs to run.
 The execution environment provides interfaces through which a program can use networks, storage, I/O devices, and other system hardware components. * Interfaces provide a simplified, abstract view of hardware to application programs.
- The execution environment isolates running programs from one another and prevents undesirable interactions among them.

	Other Views of an Operating System	l
System View: The	OS manages the hardware resources of a	computer system.
	clude processors, memory, disks and oth	e i
so on.	rfaces, I/O devices such as keyboards, mi	ice and monitors, and
-	g system allocates resources among runn	ing programs. It
controls the	sharing of resources among programs.	
• The OS itself programs.	f also uses resources, which it must share	with application
Implementation Vie	ew: The OS is a concurrent, real-time pro	ogram.
•	arises naturally in an OS when it suppor and because it must interact directly with	
• Hardware in	teractions also impose timing constraints.	
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 Some terminology: kernel: The operating system kernel is the part of the operating system that responds to system calls, interrupts and exceptions. operating system: The operating system as a whole includes the kernel, and may include other related programs that provide services for applications. This may include things like: utility programs command interpreters programming libraries 	The Operating System and the Kernel			
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