

CHAPTER 10



10.1 Introduction to the Operating System

The operating system (OS) is the software that manages the hardware and provides services for the application software.

The OS is responsible for the following tasks:

- Managing the system's resources (CPU, memory, and I/O devices).
- Providing a user interface for interacting with the system.
- Managing the execution of application programs.

The OS acts as an intermediary between the user and the hardware. It provides a layer of abstraction that allows users to interact with the system without needing to understand the underlying hardware details. The OS also provides a set of system calls that application programs can use to request services from the system.

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10.2 The Operating System Kernel