

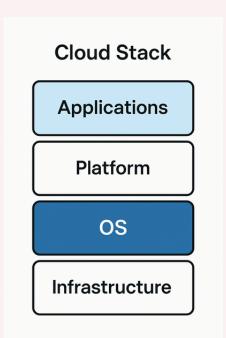
OPERATING SYSTEM IN CLOUD COMPUTING

What is Cloud Computing?

Delivery of computing services (servers, storage, databases, networking, software) over the internet.

What is an Operating System (OS)?

Software that manages hardware, software resources, and provides services for computer programs.





Traditional vs Cloud ROLE OF OS IN CLOUD COMPUTING

os

- Install and maintain OS
 - os
- Deploy applications

aws

Azure

- Manage resources
- OS
 Install

applications

Provision

- Configure resources
- Resource Management: Allocates and manages CPU, memory, and storage.
- Task Scheduling: Efficiently runs multiple cloud processes.
- Security Control: Ensures authentication, authorization & data privacy.
- Storage Management: Handles scalable, distributed data access.

TYPES OF OPERATING SYSTEMS IN CLOUD COMPUTING

- Linux-based OS: Ubuntu, CentOS
- Windows Server OS: Windows Server 2019/2022
- Cloud-Specific OS: OpenStack, Chrome OS –
- Hypervisors: VMware, Hyper-V, KVM





REAL-WORLD APPLICATIONS

- Amazon Web Services (AWS) Uses custom Linux distributions
- Google Cloud Platform Runs on Linux kernel-based OS
- Microsoft Azure Uses Windows
 Server & Hyper-V

