

CLOUD COMPUTING BASICS

Welcome to the course!

The world is moving to the cloud, and that means huge opportunities for those who understand this transformative technology. But where do you start? This course is your gateway to unlocking the secrets of the cloud and launching your career into the stratosphere.

What is Cloud Computing?

Imagine a vast network of interconnected servers, accessible from anywhere, anytime. That's the cloud! It's like having a supercomputer at your fingertips, storing your data and running your applications without the need for physical hardware.

The immense impact and growing importance of cloud computing in today's digital landscape is making it a vital learning skill set for professionals across various industries.

Module 1

Introduction to Cloud Computing

- Introduction to Cloud Computing
- Definition of Cloud Computing
- Characteristics of Cloud Computing
- Pros n Cons Cloud Computing
- Types of cloud services
- Use Cases for Cloud Computing

Module 2

Cloud Computing Architecture

- Introduction to Cloud Computing Architecture
- Overview Cloud Computing Architecture
- Understanding Virtualization
- Types of Virtualization
- Challenges in Virtualization
- Networking and storage

Module 3

Deployment Models

- Introduction to Deployment Models
- Overview Deployment Models
- Types of Deployment Models
- Compare and Contrast Deployment Models

Module 4

Cloud Security

- Introduction to Cloud Security
- Overview Cloud Security
- Importance of Cloud Security
- Challenges of Cloud Security
- Cloud Security Threats
- Cloud Security Models
- Compare and Contrast Models
- Compliance and Regulatory Requirements
- Cloud Security Best Practices
- Cloud Security Providers

Module 5

Cloud Management Functions

- Introduction of Cloud Management
- Components of Cloud Management
- Cloud Orchestration
- Cloud Automation
- Cloud Security
- Compliance and Governance
- Performance Monitoring
- Cloud Management Best Practices
- Cloud Management Tools

Module 6

Cloud Management Trends

- Emerging trends in Cloud Computing
- Overview Computing Trends
- Cloud Computing Summary