



Cloud Computing

Category: AI & Tech | Duration: 2 Months (8 Weeks)

~~Rs. 4,500~~

Rs. 3,000

**You Save
Rs. 1,500**

+ GST (18%) as applicable

Course Overview

A hands-on introduction to cloud platforms, covering core services, networking, containers, and CI/CD. Learners deploy real applications to the cloud using industry-standard tools and best practices.

Prerequisites	Tools & Technologies
Basic understanding of operating systems and command line is helpful. No prior cloud experience required.	AWS (EC2, S3, IAM, VPC, RDS, Lambda), Docker, Kubernetes basics, GitHub Actions, Linux command line

Curriculum

Week 1: Cloud Computing Fundamentals

- What is cloud computing - IaaS, PaaS, SaaS
- Overview of AWS, Azure, and GCP
- Setting up a free-tier cloud account

Week 2: Core AWS Services

- Compute with EC2 - launching and managing instances
- Storage with S3 - buckets, permissions, lifecycle
- Identity and Access Management (IAM)

Week 3: Networking & Security

- VPCs, subnets, and security groups
- Load balancers and auto-scaling concepts
- Cloud security best practices

Week 4: Cloud Databases

- Relational databases in the cloud (RDS)
- NoSQL databases (DynamoDB)
- Backups, snapshots, and disaster recovery basics

Week 5: Containers with Docker

- Introduction to containers vs virtual machines
- Building and running Docker images
- Docker Compose for multi-container apps



Week 6: Kubernetes & CI/CD Basics

- Kubernetes architecture and core concepts
- Deploying containerized apps to a cluster
- Introduction to CI/CD pipelines with GitHub Actions

Week 7: Serverless & Monitoring

- Serverless computing with AWS Lambda
- API Gateway and event-driven architectures
- Monitoring and logging with CloudWatch

Week 8: Capstone Project

- Deploy a complete application to the cloud
- Set up a basic CI/CD pipeline for deployment
- Project presentation and code review

What You Will Learn

- Understand core cloud computing concepts and service models
- Provision and manage compute, storage, and networking on AWS
- Apply cloud security and IAM best practices
- Containerize applications using Docker
- Understand Kubernetes basics and CI/CD pipelines
- Deploy a real application to the cloud end-to-end

To register your interest for this course, fill out the interest form on our website or contact us directly using the details below. Syllabus content is subject to minor changes to keep pace with industry updates.