



Cloud Computing using AWS DevOps Course Structure

Duration – 100 Hours (6 Months)

Course Fees **Rs 30,000/-**



Cloud Computing using AWS DevOps

This course aims to equip learners with in-demand skills in Cloud Computing, DevOps automation, cloud security, and real-time cloud infrastructure deployment. It prepares students for cloud-based IT roles such as:

- Cloud Engineer
- Cloud Administrator
- DevOps Engineer
- AWS / Azure Specialist
- Cloud Support Associate

Introduction to Cloud Computing & Virtualization – 10 Hours

- Cloud Computing Overview and Evolution
- Service Models: IaaS, PaaS, SaaS
- Deployment Models: Public, Private, Hybrid, Multi-cloud
- Virtualization Concepts (Hypervisors, Containers)
- Data Centers, Load Balancing, Scalability
- Cloud Computing Architecture & APIs
- Hands-on: Setting up a private cloud using VirtualBox / VMware

Amazon Web Services (AWS) Cloud Fundamentals – 10 Hours

- AWS Global Infrastructure and Core Services
 - EC2, S3, VPC, IAM, RDS, CloudWatch, Lambda
 - Elastic Load Balancer (ELB), Auto Scaling Groups
 - AWS CLI and SDK Usage
 - AWS Billing and Pricing Models
 - Hands-on: Deploying a Web Application on AWS
- 

Microsoft Azure Cloud Fundamentals – 5 Hours

- Azure Portal Overview
- Compute, Storage, Networking Basics
- Azure Virtual Machines and App Services
- Azure Resource Manager (ARM) Templates
- Azure Active Directory (AAD) & IAM
- Hands-on: Hosting a Static Website on Azure

Google Cloud Platform (GCP) Essentials – 10 Hours

- GCP Architecture Overview
- Compute Engine, Cloud Storage, Cloud SQL
- VPC, Load Balancing, IAM
- Cloud SDK and gcloud Commands
- Hands-on: Building a Scalable Web Application on GCP

Cloud Infrastructure Design & Management – 10 Hours

- Cloud Solution Architecture
- Infrastructure as Code (IaC) using Terraform
- Serverless Architecture & Microservices
- Monitoring and Logging (CloudWatch, Azure Monitor)
- Backup, Disaster Recovery, and Failover Strategies
- Hands-on: Automating Infrastructure Deployment using Terraform

DevOps & CI/CD Pipeline Automation -- 10 Hours

- DevOps Overview and Benefits
- Continuous Integration and Deployment (CI/CD) Concepts
- Version Control with Git & GitHub
- Jenkins Setup and Build Automation
- Docker Containers and Kubernetes Orchestration
- Ansible Configuration Management
- Hands-on: Building a CI/CD Pipeline for Cloud Deployment

Cloud Security, Governance & Compliance – 10 Hours

- Identity and Access Management (IAM)
- Data Encryption and Key Management
- Cloud Security Posture Management (CSPM)
- Monitoring and Incident Response in Cloud
- Security Compliance: GDPR, ISO 27001, HIPAA
- Hands-on: Securing an AWS and Azure Environment

Capstone Project + Internship / Simulation Lab with Deployment & Cloud Storage – 25 Hours

- Design and Deploy a Multi-Cloud Infrastructure
- Develop CI/CD Pipeline for a Cloud-based Application
- Implement Security and Compliance Framework
- Cost Optimization & Reporting
- Deliverables: Technical Documentation, Project Demo, Viva

Tools & Platforms Covered

AWS Management Console, Azure Portal, Google Cloud Console, Terraform, Jenkins, Docker, Kubernetes, Ansible, Git/GitHub, CloudFormation, CloudWatch, Azure Monitor, VMware

Assessment & Evaluation

- Weekly quizzes and lab assignments
- Mid-term and final evaluation
- Capstone project presentation and viva

Career Support & Outcomes

- Resume & LinkedIn Optimization Interview
- Preparation (Technical + HR) Mock Interviews
- Job Assistance through Industry Tie-ups





Contact Us Today!



+91 8282884601



partner@cronusconsultants.co.in



www.cronusconsultants.co.in



Corporate Office - Bengal Eco Intelligent Park, Floor 13,
Module 21, EM3, Salt Lake Sector V, Kolkata - 700 091

Registered Office - AA/19, DESBANDHU NAGAR, KOLKATA,
North 24 Parganas, West Bengal, 700059