

Cloud Computing Fundamentals

Learn the basics of Cloud Computing and understand its fundamental concepts, principles, and benefits.

Category: Cloud · Duration: 3 days

WHO IT IS FOR

- Security engineers and system administrators
- DevOps engineers, SREs and ops teams
- Beginners welcome: no prior experience required

This training program provides a comprehensive introduction to Cloud Computing. Participants will gain an in-depth understanding of the various cloud models, architecture, deployment models, virtualization, and security. Additionally, participants will explore the tools and technologies used in Cloud Computing and discover how to leverage its benefits for their organizations.

Prerequisites

Basic understanding of computer networks and IT infrastructure.

Syllabus

- Introduction to Cloud Computing
- Evolution of Cloud Computing
- Cloud Models: IaaS, PaaS, SaaS
- Cloud Architecture
- Cloud Deployment Models: Public, Private, Hybrid, Community
- Virtualization in Cloud Computing
- Cloud Security: Threats and Mitigation
- Cloud Service Providers: AWS, Azure, Google Cloud
- Managing Cloud Services
- Cloud Storage and Data Management
- Cloud Networking and CDN
- Cloud Monitoring and Performance Optimization
- Cloud Cost Management
- Cloud Compliance and Governance

- Cloud Migration and Integration
- Cloud Scalability and Elasticity
- Containers and Containerization
- Serverless Computing
- Big Data and Analytics in the Cloud
- Internet of Things (IoT) and Cloud Computing