



Information Technology

Cloud Computing

Course Introduction

This training program is designed for IT professionals who are interested in expanding their knowledge base and technical skills with an understanding of the Cloud computing techniques.

In this training program, participants will understand high level terminology, structure, security, deployment and migration practices as well as the general scope of cloud computing.

Target Audience

1. Cloud Architect
2. Cloud Engineer
3. DevOps Engineer
4. IT Infrastructure Manager
5. Cybersecurity Analyst
6. Solutions Architect
7. Software Engineer
8. System Administrator
9. Data Engineer
10. Network Engineer

Learning Objectives

- Understand the types of Cloud Infrastructure and Types of Cloud Services.
- Understand how to utilize Cloud systems.
- Identify Cloud infrastructure technologies.
- Master understanding cloud resource Management.
- Identify Data storage techniques.
- Describe security and Privacy considerations, Privileged User Access, Regulatory Compliance.
- Understand Cloud authentication techniques.

Training Methodology

The training program is implemented by combining the participants' academic knowledge and practical practice (30% theoretical / 70% practical activities).

This program focuses on exercises, case studies, workshops, and individual and group presentations, among other integrated training methodologies.

A detailed report is submitted to each participant and the training department in your organization on the results of the participant's performance and the return on training.

Course Outline

- **Day 01**

- Introduction to Cloud Computing.
- History and Background of Cloud Computing.
- Basics of Data Communication.

- Basics of Computer Networking.
- Advanced Topics of Computer Networks.

- Essential Characteristics of Cloud Computing.
- Benefits of Cloud Computing.

- Day 02

- Risks and Challenges of Cloud Computing.

- Roles and Boundaries of Cloud Computing.
- Cloud Service Models.
- Data Storage in Clouds.
- Miscellaneous Services of Cloud Computing.
- Cloud Deployment Models.

- Day 03

- Mechanisms Related to Cloud Infrastructure.
- Service Agreements.
- Cloud Hosting Data Center Design.
- Cloud Architecture.
- Specialized Cloud Mechanisms.
- Cloud Management.
- Fundamental Cloud Architectures.

- Day 04

- Advanced Cloud Architectures.
- Cloud Federation.
- Cloud Delivery/Service Models' Perspectives.
- Inter-Cloud Resource Management.
- Cloud Cost Metrics and Pricing Models.
- Cloud Service Quality Metrics.
- Cloud Simulator.
- Computer Security Basics.
- Network Security Basics.
- Cloud Security Mechanisms.
- Privacy Issues of Cloud Computing.

- Day 05

- Security Issues of Cloud Computing.
- Open Issues in Cloud.
- Disaster Recovery in Cloud Computing.
- Migrating to the Cloud.
- Cloud Application Scalability and Resource Scheduling.
- Mobile Cloud Computing.
- Performance models.
- Practical Application.

Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
April 14, 2025	April 18, 2025	5 days	4950.00 \$	Italy - Rome
Sept. 22, 2025	Sept. 26, 2025	5 days	4250.00 \$	UAE - Dubai
Dec. 22, 2025	Dec. 26, 2025	5 days	4250.00 \$	UAE - Dubai