



Course Overview:

Cloud Security Course

Step into the world of Cloud Security and build a strong foundation in securing cloud environments and applications. This course is designed for beginners, developers, and tech enthusiasts who want to understand how to protect cloud-based systems from security threats.

You will learn cloud security fundamentals, identity and access management (IAM), data protection, network security, and real-time cloud security monitoring. Through practical examples and hands-on learning, you will gain the skills needed to identify and fix cloud security issues.

By the end of the course, you will be equipped with practical knowledge and job-ready skills to start a career in Cloud Security.

1. Introduction to Cloud Computing :

- What is Cloud Computing
- Benefits of Cloud Computing
- Cloud Service Models (IaaS, PaaS, SaaS)
- Cloud Deployment Models (Public, Private, Hybrid, Multi-Cloud)
- Shared Responsibility Model
- Cloud Security Basics

2. Cloud Security Fundamentals :

- What is Cloud Security
- Cloud Threats & Risks
- Identity and Access Management (IAM) Basics
- Authentication & Authorization in Cloud
- Data Security in Cloud
- Compliance & Regulations (Basics)

3. Identity & Access Management (IAM) :

- Users, Groups, and Roles
- IAM Policies
- Least Privilege Principle
- Multi-Factor Authentication (MFA)
- Role-Based Access Control (RBAC)
- Secure Access Management

4. Network Security in Cloud :

- Virtual Private Cloud (VPC/VNet)
- Subnets (Public & Private)
- Security Groups & Network ACLs
- Firewalls in Cloud
- VPN & Bastion Hosts
- DDoS Protection

5. Data Security & Encryption :

- Data at Rest & Data in Transit
- Encryption Basics
- Key Management (KMS)
- Secure Storage Services
- Backup & Disaster Recovery
- Data Loss Prevention (DLP)

6. Cloud Infrastructure Security :

- Securing Virtual Machines
- OS Hardening
- Patch Management
- Container Security Basics
- Cloud Configuration Best Practices

- Misconfiguration Risks

7. Application Security in Cloud :

- Secure Cloud Applications
- API Security in Cloud
- Secrets Management
- Secure CI/CD Pipelines
- DevSecOps Basics
- OWASP Top 10 in Cloud

8. Monitoring, Logging & Incident Response:

- Cloud Logging Basics
- Security Monitoring
- Alerting & Notifications
- Incident Response in Cloud
- Forensics Basics
- Security Auditing

9. Cloud Compliance & Governance :

- Cloud Security Policies
- Compliance Standards (ISO, SOC, GDPR – Basics)
- Risk Management
- Security Assessments
- Cloud Governance Models

10. Hands-On & Case Studies:

- IAM Configuration Lab
- Secure Cloud Network Setup
- Encryption & Storage Lab
- Cloud Security Misconfiguration Demo
- Real-World Cloud Breach Case Studies
- Mini Cloud Security Project



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