

Cloud Security Engineer with Generative AI Specialization

Course brochure



KloudStac

Prep for future tech careers



About the course

Our program is a cutting-edge offering, covering all aspects of becoming a Cloud Security Engineer. It is the industry's first-of-its-kind, providing in-depth understanding and hands-on experience in multi-cloud environments. With a focus on both AWS and GCP, our sessions include multiple practical labs for comprehensive learning.

Duration of course

160 hours, including 120 hours of theory and practicals, along with 40 hours of project work.

Who should enroll

-Students: Engineering (CS, IT, others), MCA (2nd yr to final yr), recent passouts/freshers interested in Cloud engineering, Generative AI, and DevOps.

-Experienced Professionals: Software professionals (1-6 yrs exp) in backend development, frontend development, application maintenance & support, testing, mainframes, project/sales/pre-sales/delivery managers, and others aspiring to enter the software industry.

For further details :

Visit our website: www.kloudstac.com

Follow us on YouTube: www.youtube.com/@KloudStac

Follow us on Twitter: [@KloudStac](https://twitter.com/KloudStac)

This course will also include practical sessions on how to automate security tasks using Python/Shell scripting.

Also, it will teach how AI/ML and ChatGPT can be used by Cloud Security Engineers to automate some of the tasks.

Prerequisites: Basic Python programming knowledge and basic cloud knowledge are good-to-have.

What we teach

- Cloud security fundamentals
- Need for security in the cloud
- Examples of security in applications
 - CIA Triad
 - Risk Factors
 - Threat Actors
- Defense in Depth
- Cloud security
 - Cloud Security 'careers'
 - Security in AWS Cloud
 - Security 'of' the cloud
 - Security 'in' the cloud
 - Security perspective of AWS CAF
 - Security design principles
 - IAM and access control
 - Encryption and key management
 - Securing Data Storage
 - Incident Response
 - Vulnerability and Threat Management
 - Application Security Dashboard
 - Introduction to IAM on AWS
 - AWS STS (Security Token Service)
 - Identity Federation
 - Enterprise Identity Federation
 - AWS Directory Services
 - Symmetric and Asymmetric Encryption
 - Data at rest encryption
- Key Management Services
- VPC and Networking Security
 - Firewall
 - Security Group
 - Firewall
 - NACL
 - Public and Private Subnets
 - NAT
 - VPC Flow logs
 - Peering Connection
 - Transit Gateway
 - Intrusion, Threat, and DDoS Attacks
- Threat Detection
 - DDoS Safeguard
 - Securing S3 buckets
 - AWS WAF (Web Application Firewall)
 - AWS Shield
 - AWS CloudFront
 - Accelerate content delivery
 - Serve video on demand
 - Encryption throughout system processing
 - Customizations at the edge
 - with \$3 Origin
 - Secure private content with Lambda@Edge
 - And much more!

