GTC Transforming Emerging Economies

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Security Engineering on AWS – (AWS Certified Security – Specialty)

COURSE OVERVIEW

This course examines the essential principles of cloud security, focusing on AWS-recommended practices for protecting infrastructure, applications, and data. It is tailored specifically for security professionals who want to build deep expertise in securing data and workloads in the AWS Cloud. Though the course, participants will learn how to use AWS security services such as IAM, KMS, CloudTrail, Guard Duty, and AWS WAF to monitor, detect, and respond to security threats. It will also help participants develop the skills to design and implement secure architectures, manage identity and access control, and enforce data protection.

WHO SHOULD ATTEND?

This course is designed for security engineers, cloud architects, DevOps professionals, and IT administrators responsible for securing AWS environments. It also benefits individuals preparing for the AWS Certified Security – Specialty certification. Professionals involved in designing, implementing, or managing cloud security controls such as identity and access management, threat detection, and data protection, will gain valuable knowledge and hands-on experience to enhance their organization's cloud security posture.

COURSE OUTCOMES

Delegates will gain the skills and knowledge to:

- Understand AWS security services and how they support the security of cloud environments.
- Design and implement secure access controls using IAM, roles, policies, and federated identities.
- Protect data at rest and in transit using encryption tools such as AWS KMS and CloudHSM.
- Monitor and respond to security incidents using AWS CloudTrail, Config, GuardDuty, and Security Hub.
- Configure and manage secure network architectures, including the use of VPC, firewalls, and private connectivity.
- Implement logging, monitoring, and automated threat detection.
- Apply best practices for compliance, auditing, and governance in AWS environments.
- Perform security assessments and develop strategies to improve overall cloud security.
- Use real-world scenarios to identify and address vulnerabilities in AWS-based systems.
- Prepare effectively for the AWS Certified Security – Specialty certification exam.

KEY COURSE HIGHLIGHTS

At the end of the course, you will understand;

- Core principles of cloud security on AWS
- Implementing secure architectures and data protection
- Identity and Access Management (IAM) and access control
- Using AWS security services: KMS, CloudTrail, GuardDuty, AWS WAF
- Monitoring, detecting, and responding to security threats
- Preparing for the AWS Certified Security – Specialty exam

All our courses are dual-certificate courses. At the end of the training, the delegates will receive two certificates.
1. A GTC end-of-course certificate
2. Continuing Professional Development (CPD) Certificate of completion with earned credits awarded