Advanced Architecting on AWS Training

Duration: **3 Day**

BILGINC IT Academy
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Overview

The **{*training}** course is designed for experienced architects and IT professionals who want to build secure, scalable, highly available, and enterprise-grade cloud solutions on AWS. Building on the concepts introduced in **Architecting on AWS**, this advanced course focuses on designing, managing, and optimising complex cloud architectures for large-scale environments.

Participants will learn how to apply the **AWS Well-Architected Framework** while addressing advanced topics such as multi-account strategies, hybrid cloud connectivity, large-scale data platforms, security architectures, data protection, and performance optimisation. The course also covers high availability, disaster recovery, cost optimisation, and governance best practices required for enterprise cloud environments.

Through hands-on labs and real-world scenarios, learners will develop the skills needed to make architectural decisions in complex AWS environments, design resilient cloud solutions, and optimise modern cloud infrastructures at scale. The course also provides a strong foundation for professionals preparing for the **AWS Certified Solutions Architect – Professional** certification.

Prerequisites

Participants should meet one of the following requirements:

- Completion of **Architecting on AWS**
- Achievement of **AWS Certified Solutions Architect – Associate**
- At least one year of experience operating AWS workloads

Who Should Attend

This course is designed for:

- **Cloud Architects**
- **Solutions Architects**
- **Enterprise Architects**
- **Cloud Engineers**
- **DevOps Engineers**
- Technical leaders designing AWS environments
- Professionals managing enterprise cloud architectures

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What You Will Learn

By the end of this {*training}, you will have gained knowledge and skills in the following areas:

- Apply the **AWS Well-Architected Framework**.
- Manage multiple AWS accounts across an organisation.
- Connect on-premises data centres to AWS Cloud environments.
- Understand multi-region networking and billing implications.
- Design large-scale data storage solutions.
- Architect highly scalable web applications.
- Protect cloud infrastructure from **DDoS attacks**.
- Secure data using AWS encryption services.
- Design protection for data at rest and data in transit.
- Optimise the performance of AWS workloads.
- Select the most appropriate AWS deployment strategies.

Outline

Day 1

Architecture Review

- AWS architectural principles
- AWS Well-Architected Framework
- Enterprise architecture best practices

Multiple Accounts

- AWS Organizations
- Governance and account management
- Security controls

Hybrid Connectivity

- Hybrid cloud integration
- **AWS Direct Connect**
- On-premises connectivity

Specialised Infrastructure

- Advanced AWS infrastructure services
- Enterprise networking solutions

Connecting Networks

- Advanced VPC design
- Network segmentation
- Traffic management strategies

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Containers

- Container-based architectures
- AWS container services
- Modern application deployment models

Day 2

CI/CD

- Continuous Integration
- Continuous Delivery
- Deployment automation strategies

High Availability and DDoS Protection

- High availability architectures
- **AWS Shield**
- DDoS mitigation strategies

Securing Data

- Encryption best practices
- Data protection mechanisms
- Compliance requirements

Large-Scale Data Stores

- Enterprise data architectures
- High-performance storage solutions
- Data scaling strategies

Day 3

Migrating Workloads

- AWS migration strategies
- Migration planning
- Risk assessment

Cost Optimisation

- AWS cost management
- Resource optimisation
- Enterprise cost governance

Architecting for the Edge

- Edge Computing
- Content delivery optimisation
- Low-latency architectures

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Review Projects

- Real-world architecture scenarios
- Design review workshops
- Technical feedback and best practices