



Course Content

Course Description:

This immersive, advanced-level, five-day course covers all aspects of how to architect for the AWS Cloud. Covering topics from *Architecting on AWS* and *Advanced Architecting on AWS*, this course is intended to teach you how to design cloud architectures, from small-scale designs to large-scale, enterprise-level designs. Starting with the Well-Architected Framework, you will also learn important architecting information for AWS services. These include: compute, storage, database, networking, security, monitoring, automation, optimization, benefits of decoupling applications and serverless, building for resilience, and understanding costs. It's also recommended for learners who are preparing for the AWS Certified Solutions Architect – Associate exam.

At Course Completion:

After completing this course, student will be able to:

- Make architectural decisions based on AWS architectural principles and best practices
- Use AWS services to make your infrastructure scalable, reliable, and highly available
- Use AWS Managed Services to enable greater flexibility and resiliency in an infrastructure
- Make an AWS-based infrastructure more efficient to increase performance and reduce costs
- Use the Well Architected Framework to improve architectures with AWS solutions

Target Student:

This course is intended for:

- Solutions Architects who are new to designing and building cloud architectures
- Data Center Architects who are migrating from on-premises environment to cloud architectures
- Other IT/cloud roles who want to understand how to design and build cloud architectures

Prerequisites:

We recommend that attendees of this course have:

- Familiarity with AWS cloud computing, which can be learned in AWS Cloud Practitioner Essentials
- Familiarity with TCP/IP networking concepts such as VPNs, routing, subnets/gateways, segments, and user permissions
- Familiarity with and knowledge of multi-tier architectures and distributed systems
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Topics:

The Well-Architected Framework

Event-driven scaling

Networking with AWS

Automation

Core AWS concepts, knowledge, and services, including designing your environment and making your environment highly available

Decoupling

Building for resilience



Architecting on AWS Accelerator

Course ID #: 7000-055-ZZ-Z

Hours: 35

Optimization

Serverless designs

Data security

Advance networking topics

Migration

How to grow your architecture from small to extremely large