ARCHITECTING ON AWS

3-Days Training Duration / Instructor-Led, Classroom-Based Training / Associate Level

COURSE DESCRIPTION

Architecting on AWS covers the fundamentals of building IT infrastructure on AWS. The course is designed to teach solutions architects how to optimize the use of the AWS Cloud by understanding AWS services and how these services fit into cloud-based solutions.

This course emphasizes AWS cloud best practices and recommended design patterns to help students think through the process of architecting optimal IT solutions on AWS. Case studies throughout the course showcase how some AWS customers have designed their infrastructures and the strategies and services they implemented.

BRING YOUR OWN DEVICE

Please note that this class requires you to bring your own device. Plan to come to class with the following:

- A notebook computer with Wi-Fi (labs cannot be completed on an iPad or tablet device)
- Administrator access to the computer, if Windows
- Chrome, Firefox, or Safari (IE not supported)

COURSE OBJECTIVES

This course is designed to teach you how to:

- Make architectural decisions based on AWS architectural principles and best practices
- Leverage AWS services to make your infrastructure scalable, reliable, and highly available
- Leverage 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

INTENDED AUDIENCE

This course is intended for:

- Solutions architects
- Solution design engineers
- Anyone who needs to understand the scope of cloud architectures
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PREREQUISITES

- Courses taken: AWS Technical Essentials
- Working knowledge of distributed systems
- Familiarity with general networking concepts
- Working knowledge of multi-tier architectures
- Familiarity with cloud computing concepts

HANDS-ON ACTIVITY

This course allows you to test new skills and apply knowledge to your working environment through a variety of practical exercises

COURSE OUTLINE

Note: Course outline may vary slightly based on the regional location and/or language in which the class is delivered.

This course covers the following concepts on each day:

Day 1

- Core AWS Knowledge
- Designing your Environment
- Making Your Environment Highly Available
- Forklifting an Existing Application onto AWS

Day 2

- Event-Driven Scaling
- Automating and Decoupling Your Infrastructure
- Designing Storage at Scale
- Hosting a New Web Application on AWS

Day 3

- The Four Pillars of the Well-Architected Framework
- Disaster Recovery and Failover Strategies
- Troubleshooting Your Environment
- Large-Scale Design Patterns and Case Studies

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