Architecting on AWS

Technology: Cloud
Level: Intermediate
Length: 3 Days

Course Overview

About this course

This course covers the fundamentals of building IT infrastructure on the AWS platform. Students learn how to optimize the AWS Cloud by understanding how AWS services fit into cloud-based solutions. In addition, students explore AWS Cloud best practices and design patterns for architecting optimal IT solutions on AWS, and build a variety of infrastructures in guided, hands-on activities. The course also covers how to create fledgling architectures and build them into robust and adaptive solutions.

Audience profile

- Solutions architects
- Solution design engineers

At course completion

You will be able 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

Course Details

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

Prerequisites

- AWS Technical Essentials or full understanding of the topics covered in that course
- Working knowledge of distributed systems
- Familiarity with general networking concepts
- Working knowledge of multi-tier architectures
- Familiarity with cloud computing concepts