

Architecting on AWS

Description

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.

Course Objectives

- ❖ 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

Pre-Requisite

- ❖ *Aws Cloud Practitioner essentials
- ❖ *Aws Technical Essentials

Course Content

- ❖ Core AWS Knowledge
- ❖ Designing Your Environment
- ❖ Making Your Environment Highly Available
- ❖ Forklifting an Existing Application onto AWS
- ❖ Event-Driven Scaling
- ❖ Automating and Decoupling Your Infrastructure
- ❖ Designing Storage at Scale
- ❖ Hosting a New Web Application on AWS
- ❖ 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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