Advanced AWS Well-Architected Best Practices

Course ID #: 7000-735-ZZ-Z

Hours: 7

Course Content

Course Description:

In this course, you will cover a deep dive into Amazon Web Services (AWS) best practices to help you perform effective and efficient AWS Well-Architected Framework Reviews. The course covers the phases of a review, including how to prepare, run, and get guidance after a review has been performed. Attendees should have familiarity with the AWS concepts, terminology, services, and tools that are covered in the intermediate, 200-level AWS Well-Architected Best Practices. This course provides an AWS Well-Architected Framework Review simulation and instructor-led group exercises and discussions regarding prioritizing and solutioning risks. The content focuses on teaching learners how to prepare proposals on high and medium risk issues using the AWS Well-Architected Tool.

Course Objectives:

In this course, you will explore:

- Workload definition and key concepts
- The AWS Well-Architected Framework Review phases, process, best practices, and anti-patterns
- High and medium risks
- Prioritizing improvements to the AWS Well-Architected workflow
- Locating and using the AWS Well-Architected Framework white paper, labs, prebuilt solutions in the AWS solutions library, AWS Well-Architected independent software vendors (ISVs), and AWS Well-Architected Partner Program (WAPP)

Prerequisites:

Architecting on AWS
AWS Well-Architected Best-Practices

Target Audience:

- Solutions architects
- Cloud practitioners
- Data engineers
- Data scientists
- Developers

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Topics:

Lesson 1: Course Introduction

Lesson 2: AWS Well-Architected Framework Reviews
- Workload definition
- Key concepts of a workload
- AWS Well-Architected Review phases
- AWS Well-Architected Review approach, lessons learned, and use case
- AWS Well-Architected Review best practices
- AWS Well-Architected Review anti-patterns

Lesson 3: Customer Scenario Group Sessions
- Demonstration of a Review question and answer example
- Operational excellence
  - Group role-play exercise
  - Two questions in this pillar
- Security
  - Group role-play exercise
  - Three questions in this pillar
- Reliability
  - Group role-play exercise
  - Three questions in this pillar
- Performance efficiency
  - Group role-play exercise
  - Three questions in this pillar
- Cost optimization
  - Group role-play exercise
  - Three questions in this pillar

Lesson 4: Risk Solutions and Priorities
- Demonstration of a Review question and answer example
- Operational excellence
  - Group role-play exercise
  - Two questions in this pillar
- Security
  - Group role-play exercise
  - Three questions in this pillar
- Reliability
  - Group role-play exercise
  - Three questions in this pillar
- Performance efficiency
  - Group role-play exercise
  - Three questions in this pillar
- Cost optimization
  - Group role-play exercise
  - Three questions in this pillar

Lesson 5: Resources
- Resource pages
- AWS Well-Architected ISVs

Lesson 6: Course Summary
- Objective recap
- Debrief
- What's next?

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