Advanced AWS Well-Architected Best Practices

AWS Classroom Training

Course description

This interactive course provides 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-levelAWS 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 level: Advanced
- Duration: 1 day

Activities

This course includes presentations, demonstrations, group exercise sessions, and knowledge checks.

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)

Intended audience

Learners who will find this course applicable to their work include:

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

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Prerequisites

Architecting on AWS

AWS Well-Architected Best Practices

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Course outline

Module 0: Course Introduction

Module 1: 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

Module 2: 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

Module 3: Risk Solutions and Priorities
- AWS Well-Architected workflow
- Defining and solutioning high risk issues (HRIs) and medium risk issues (MRIs)
- Identifying significant risks and solutioning group discussion for:
  - Operational excellence
  - Security
  - Reliability
  - Performance efficiency
  - Cost optimization
- Prioritizing improvements

Module 4: Resources
- Resource pages

- AWS Well-Architected ISVs

Module 5: Course Summary

- Objective recap
- Debrief
- What's next?