Advanced AWS Well-ArchitectedBest Practices

Course description

This hands-on, advanced technical-level, instructor-led 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. This course is designed for AWS customers and AWS Partners. Attendees should have familiarity with the AWS concepts, terminology, services, and tools that are covered in the intermediate 200-level precursor to this course. This course provides an AWS Well-Architected Framework review simulation and instructor-led group exercises and discussions about prioritizing and resolving risks. The content focuses on 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 learn to:

- Recognize workload definition and key concepts
- Identify the AWS Well-Architected Framework review phases, process, best practices, and anti-patterns
- Identify high and medium risks
- Prioritize improvements to the AWS Well-Architected workflow
- Locate and use the AWS Well-Architected Framework white paper, labs, and prebuilt solutions in the AWS solutions library
- Locate and use AWS Well-Architected independent software vendors (ISVs)
- Locate and use the AWS Well-Architected Partner Program (WAPP)

Intended audience

This course is intended for:

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

Prerequisites

We recommend that attendees of this course have:

- Completed *AWS Well-Architected Best Practices Intermediate – L200*

Course outline

Module 0: Course Introduction

Module 1: AWS Well-Architected Framework Reviews
- AWS Well-Architected Framework workload
- AWS Well-Architected Framework review phases
- AWS Well-Architected review approach, lessons learned, and use cases
- AWS Well-Architected review best practices
- AWS Well-Architected review anti-patterns
- Knowledge check

Module 2: Customer Scenario Group Sessions
- Customer Story
- Demonstration of the workflow
- Hands-on group exercise
- Demonstration: Running a review in the Operational Excellence pillar
- Role-play exercise: Running a review in the Security pillar
- Role-play exercise: Running a review in the Reliability pillar
- Role-play exercise: Running a review in the Performance Efficiency pillar
- Role-play exercise: Running a review in the Cost Optimization pillar

Module 3: Risk Solutions and Priorities
- AWS Well-Architected Framework review engagement workflow
- High risk and medium risk issues
- Defining risks
- Resolving high-risk issues (HRIs) and medium-risk issues (MRIs)
- Group discussion: Identifying and resolving significant risks for:
  - Operational Excellence
  - Security

- Reliability
- Performance Efficiency
- Cost Optimization
- Prioritizing improvements
- AWS Well-Architected improvement workflow

Module 4: Resources
- Resource pages
- AWS Well-Architected ISVs
- AWS Well-Architected Partner Program (WAPP)

Module 5: Course Summary
- Debrief
- What's next?
- Course feedback