

Advanced AWS Well-Architected Best Practices – Intensive Training («AWSE09»)

This course provides an AWS Well-Architected Framework Review simulation and instructor-led group exercises and discussions regarding prioritizing and solutioning risks.

Duration: 1 day

Price: 900.–

Course documents: Digital original AWS courseware

Content

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-level AWS Well-Architected Best Practices.

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?

Key Learnings

- Workload definition and key concepts
- The AWS Well-Architected Framework Review phases, process, best practices, and antipatterns
- 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)

Target audience

This course is intended for the following job roles:

- Solution Architect

Why should you attend this specific course? What are my benefits from taking this course? The **Voice of the Instructor answers these questions**. We have asked our instructor team to write a short text about WHY this course is very relevant for the respective job roles and what you can expect from attending the course. You can find this section in the course description under the «*Additional Information*» section.

Requirements

We recommend that attendees of this course have attended the following course (or equivalent knowledge):

- [Advanced Architecting on AWS – Intensive Training \(«AWSA02»\)](#)
- [AWS Well-Architected Best Practices – Intensive Training \(«AWSE08»\)](#)

Additional information

Voice of the Instructor

Attending the AWS Advanced Well-Architected Best Practices course will deepen your knowledge and expertise in designing and implementing advanced architectural practices within AWS cloud environments. This course builds upon the foundational concepts in the AWS Well-Architected best practices course and delves into advanced topics, enabling participants to elevate their architectural skills to the next level.

Some of the benefits of attending the AWS Advanced Well-Architected Best Practices course are:

1. Learn advanced architecture design techniques and strategies to design highly scalable, resilient, and efficient architectures. At the same time, they will be leveraging advanced AWS services, architectural patterns, and design principles to address complex requirements and challenges such as multi-region architectures, serverless applications, data lake architectures, and high-performance computing (HPC) solutions.
2. Performance Optimization at Scale techniques that provide insights into better resource utilization, latency reduction, and application performance enhancement in large-scale environments with the use of advanced load-balancing strategies, caching mechanisms, and distributed computing approaches. This knowledge enables participants to design architectures that can handle high traffic volumes and effectively scale to meet evolving demands.
3. Security and Compliance: The course delves into advanced security practices and compliance considerations within AWS cloud environments. Participants gain an understanding of advanced security controls, threat modeling, and risk assessment methodologies. They also learn to implement advanced encryption mechanisms and fine-grained access controls and ensure compliance with industry-specific regulations and standards.
4. Cost Optimization Strategies: The course provides insights into advanced cost optimization strategies for complex architectures. Participants learn how to analyze cost drivers, implement granular cost allocation mechanisms, and optimize costs in intricate multi-account and multi-tenant environments. They also gain knowledge of advanced techniques for managing Reserved Instances, leveraging AWS Cost Explorer APIs, and implementing cost-effective storage and database solutions.
5. Advanced Operations and Automation: The course emphasizes advanced operational practices and automation techniques to streamline and enhance cloud operations. Participants learn about advanced monitoring and logging approaches, infrastructure as code (IaC) methodologies, and continuous integration and deployment (CI/CD) pipelines. This knowledge enables organizations to achieve operational excellence, improve agility, and enhance the reliability of their architectures.

All of this empowers participants to tackle advanced architectural challenges, implement industry-leading practices, and further drive continuous innovation within their organizations.

Further courses

- [AWS Security Governance at Scale – Intensive Training \(«AWSE07»\)](#)

Any questions?

We are happy to advise you on +41 44 447 21 21 or info@digicomp.ch. You can find detailed information about dates on www.digicomp.ch/courses-digital-transformation-technologies/cloud/amazon-web-services-aws/aws-solutions-architect/course-advanced-aws-well-architected-best-practices-intensive-training