

AWS Well-Architected Best Practices

Course description

The AWS Well-Architected Framework helps you make informed decisions about your customers' architectures cloud-focused way and understand the impact of design decisions. By using the Well-Architected Framework, you will understand the risks in your architecture and ways to mitigate them. This course provides a deep dive into the AWS Well-Architected Framework and its six pillars. This course also covers the Well-Architected review process and using the AWS Well-Architected Tool to complete reviews.

- Course level: Intermediate
- Duration: 1 day

Activities

This course includes presentations, case studies, hands-on labs, and knowledge checks.

Course objectives

In this course, you will learn to:

- Identify the AWS Well-Architected Framework features, design principles, design pillars, and common uses
- Apply the design principles, key services, and best practices for each pillar of the Well-Architected Framework
- Use the AWS Well-Architected Tool to conduct Well-Architected reviews

Intended audience

This course is intended for:

- Technical professionals involved in architecting, building, and operating AWS solutions.

Prerequisites

We recommend that attendees of this course have:

- Knowledge of core AWS services (Course: *AWS Cloud Practitioner Essentials*)
- Knowledge of AWS management interfaces (Course: *AWS Technical Essentials*)
- Knowledge of core AWS design and architecture (Course: *Architecting on AWS*)

Course outline

Module 1: Well-Architected Introduction

- Brief history of AWS Well-Architected
- AWS Well-Architected pillars
- Design principles
- Applying the AWS Well-Architected Framework
- AWS Well-Architected Tool

Module 2: Operational Excellence

- Operational Excellence design principles
- Case study
- Hands-On Lab: Operational Excellence

Module 3: Reliability

- Reliability design principles
- Hands-On Lab: Reliability

Module 4: Security

- Security design principles
- Hands-On Lab: Security

Module 5: Performance Efficiency

- Performance Efficiency design principles
- Hands-On Lab: Performance Efficiency

Module 6: Cost Optimization

- Cost Optimization design principles
- Hands-On Lab: Cost Optimization

Module 7: Sustainability

- Sustainability design principles
- Sustainability best practices
- Sustainability pillar resources

Module 8: Course Summary

- Recap
- Resources
- Continue your learning