AWS Well-Architected Best Practices
AWS Classroom Training

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