



AWS Well Architected Framework – Part 1

Amazon Web Services

AWS Well Architected Framework

The AWS Well Architected Framework is an approach to helping business build cloud solutions are that highly available, secure, efficient and cost effective.

AWS Well Architected Tool

The AWS Well-Architected Tool (AWS WA Tool) is a service in the cloud that provides a consistent process for you to review and measure your architecture using AWS best practices. The AWS WA Tool provides recommendations for making your workloads more reliable, secure, efficient, and cost-effective.



Five Pillars of the Well Architected Framework



Operational Excellence



Security



Reliability



Performance Efficiency



Cost Optimization

Security Pillar

There are five best practice areas for security in the cloud:

- Identity and Access Management (IAM)
- Detective Controls
- Infrastructure Protection
- Data Protection
- Incident Response



Security Pillar – Design Principals

- Implement a strong identity foundation
- Enable traceability
- Apply security at all layers
- Automate security best practices
- Protect data in transit and at rest
- Keep people away from data
- Prepare for security events

Reliability Pillar

There are three best practice areas for reliability in the cloud:

- Foundations
- Change Management
- Failure Management



Reliability Pillar – Design Principals

- Test recovery procedures
- Automatically recover from failure
- Scale horizontally to increase aggregate system availability
- Stop guessing capacity
- Manage change in automation

Next Video

AWS Well Architected Framework – Part 2