

Well Architected Framework

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1. Well Architected Framework

AWS Well-Architected helps cloud architects build secure, high-performing, resilient, and efficient infrastructure for their applications and workloads.

The following are the Five Pillars of Well-Architected Framework

1. Operational Excellence.
2. Security.
3. Reliability.
4. Performance Efficiency.
5. Cost Optimization.

The Well-Architected Framework describes the key concepts, design principles, and architectural best practices for designing and running workloads in the cloud.

By answering a set of foundational questions, you learn how well your architecture aligns with cloud best practices and are provided guidance for making improvements.

1.1. Operational Excellence Pillar

This Pillar focuses on running and monitoring system to deliver business value, and continually improving processes and procedures.

The Key topics are:

1. Automating Changes.
2. Responding to Events.
3. Defining Standards.
4. Manage Daily Operations.

1.2. Security Pillar

The security pillar focuses on protecting information and systems.

The Key topics are:

1. Data Integrity.
2. Privilege Access Management.
3. Security Systems.
4. Protecting Systems.
5. Detect Security Events.

1.3. Reliability Pillar

This pillar focuses on ensuring an application perform its intended function correctly and consistently the way it is expected to.

A resilient workload quickly recovers from failures to meet business and customer demand.

The Key Topics are:

1. Distributed System Design.
2. Recovery Planning.
3. Change Management.

1.4. Performance Efficiency Pillar

This pillar focuses on using resources efficiently.

Key Topics:

1. Right Sizing.
2. Monitoring Performance.
3. Informed Decision Making.

1.5. Cost Optimization Pillar

This pillar focuses on avoiding unnecessary costs.

The key topics:

1. Optimizing Capacity.
2. Cost Analysis.
3. Optimizing Scalability.