



THE E-WORKBOOK CLOUD: AN AWS WELL-ARCHITECTED TECHNOLOGY SOLUTION

WHAT IS THE AMAZON WEB SERVICES (AWS) WELL-ARCHITECTED FRAMEWORK?

The AWS Well-Architected framework has been developed to help cloud architects build secure, high-performing, resilient, and efficient infrastructure for their applications. Based on five pillars — operational excellence, security, reliability, performance efficiency, and cost optimization — the Framework provides a consistent approach for customers and partners to evaluate architectures, and implement designs that will scale over time.

The AWS Well-Architected Framework includes strategies to help users compare their workload against AWS best practices and obtain guidance to produce stable and efficient systems so they can focus on functional requirements.

Further details can be found here: <https://aws.amazon.com/architecture/well-architected/>

WHAT DO THE FIVE PILLARS MEASURE?

The five pillars reflect the following:

1 OPERATIONAL EXCELLENCE

Focuses on running and monitoring systems to deliver business value, and continually improving processes and procedures. Key topics include managing and automating changes, responding to events, and defining standards to successfully manage daily operations.



4 PERFORMANCE EFFICIENCY

Focuses on using IT and computing resources efficiently. Key topics include selecting the right resource types and sizes based on workload requirements, monitoring performance, and making informed decisions to maintain efficiency as business needs evolve.



2 SECURITY

Focuses on protecting information and systems. Key topics include confidentiality and integrity of data, identifying and managing who can do what with privilege management, protecting systems, and establishing controls to detect security events.



5 COST OPTIMIZATION

Focuses on avoiding unnecessary costs. Key topics include understanding and controlling where money is being spent, selecting the most appropriate and right number of resource types, analyzing spend over time, and scaling to meet business needs without overspending.



3 RELIABILITY

Focuses on the ability to prevent, and quickly recover from failures to meet business and customer demand. Key topics include foundational elements around setup, cross project requirements, recovery planning, and how we handle change.



Whatever your scientific discipline, The IDBS E-WorkBook Cloud platform can help you connect your data and your people.

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