

AWS Well-Architected Framework Made Easy with Kion

Since establishing a partnership with AWS in 2016, Kion has been at the forefront of cloud governance and management best practices. Kion was a key contributor to the identification of Cloud@Scale requirements and helped develop the predecessor to the AWS Well-Architected Framework (WAF), "AWS Governance at Scale".

This matrix provides guidance for organizations aiming to achieve and maintain a Well-Architected posture, facilitating continuous improvement as they scale and evolve in the cloud. Below we've highlighted key best practice areas - Operational Excellence, Security and Cost Optimization - where Kion can help you adhere to and meet WAF requirements.

Kion is your trusted partner in your pursuit towards building and maintaining a Well-Architected cloud. To speak with a Kion technical expert on establishing Well-Architected Cloud Operations processes, click here.

Operational Excellence								
OPS 01: How do you determine what your priorities are?			OPS 05: How do you reduce defects, ease remediation, and improve flow into production?					
Best Practice ID: OPS01-BP03	Evaluate governance requirements		Best Practice ID: OPS05-BP03 Use configuration management systems					
Action Items	Verification	›⟩ ⟨⟨ Kion Value Add	Action Items	Verification	›⟩ ⟨‹ Kion Value Add			
ldentify organizational governance requirements and incorporate them into workload planning	Regular audits and AWS configuration for continuous governance monitoring	Cloud Rules ensure governance standards are automatically applied to new and existing workloads, eliminating manual intervention and supporting multiple AWS organizations.	Document and define all configurations as code where possible	Use AWS Config to continuously monitor environment and resource configurations	By using Kion's centralized policy management, organizations can create, manage, and apply IAM policies, service control policies (SCPs), and permission boundaries efficiently across their entire AWS organization.			
Best Practice ID: OPS01-BP04	Evaluate compliance requirements		Best Practice ID: OPS05-BP06 Share design standards					
Action Items	Verification	›⟩ ⟨· Kion Value Add	Action Items	Verification	» (⟨ Kion Value Add			
Align workload with compliance frameworks relevant to the industry and regulatory standards.	Use AWS Audit Manager to automate evidence collection and ensure continuous compliance.	Kion's compliance engine can scan your AWS environment against a number of different built in frameworks from HIPAA, NIST, ISO27001, and custom frameworks to give you an instant baseline of where gaps exist in your current configuration.	Share and enforce design standards using AWS Service Catalog, allowing teams to use approved and standardized resources. Enforce the use of standardized AMIs for compute resources.	Verify that Kion Cloud Rules with Service Catalogs are present. If necessary, develop Kion compliance checks to verify the presence of Service Catalogs and deviations from things like standard AMIs.	Kion provides a way to standardize the AWS Service Catalog configurations available across multiple accounts and in multiple AWS Organizations to ensure standards and best practices are adopted.			
Best Practice ID: OPS01-BP07	Manage benefits and risks		Best Practice ID: OPS05-BP08 Use multiple environments					
Action Items	Verification	›⟩ ⟨⟨ Kion Value Add	Action Items	Verification	›) (< Kion Value Add			
Balance decision benefits against associated risks, considering business impact.	Risk assessment meetings and documentation of risk mitigation strategies.	Kion mitigates tradeoffs around cloud operations to enable strategies that would otherwise need to be disregarded.	Set up separate environments (development, testing, production) using AWS Elastic Beanstalk or AWS CloudFormation.	Validate environment setup and isolation by deploying different stacks in AWS CloudFormation and managing them via AWS Elastic Beanstalk environments.	Kion can manage and segregate multiple environment across development, testing, and production stages. Kion allows you to create and enforce policies, such as IAM policies and service control policies (SCPs), across different AWS accounts organized within its Organizational Units (OUs), ensuring isolated, secure and controlled sandbox, development, and productio environments.			



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Security							
SEC 01: How do you securely operate your workload?			SEC 02: How do you manage identities for people and machines?				
Best Practice ID: <u>SEC01-BP01</u>	Separate workloads using accounts		Best Practice ID: SEC02-BP01 Use strong sign-in mechanisms				
Action Items	Verification	») (« Kion Value Add	Action Items	Verification	›⟩ ⟨· Kion Value Add		
Implement a multi- account strategy to isolate workloads based on function, compliance requirements, or a common set of controls. Use AWS Organizations for account management.	Verify isolation and compliance by checking the account structure and policies in AWS Organizations. Ensure workloads are separated according to the strategy.	Kion is the beating heart of a multi-account AWS strategy, enhancing AWS Organizations by simplifying the management of a multi-account strategy through automated account provisioning, budget enforcement, and compliance standards across all accounts.	Implement multi-factor authentication and enforce strong password policies	Verify MFA is enabled and check password policies for complexity requirements	Kion provides policies for enforcing password complexity requirements and compliance checks for MFA for IAM users created in accounts. Kion also provides a way to create a time-limited, managed IAM user account for AWS API access.		
Best Practice ID: <u>SEC01-BP02</u>	O1-BP02 Secure account root user and properties		Best Practice ID: SEC02-BP02 Use temporary credentials				
Action Items	Verification	›⟩ (⟨ Kion Value Add	Action Items	Verification	›⟩ ⟨⟨ Kion Value Add		
Enable MFA for the root user and remove or secure root user access keys. Use a strong password and secure the email and phone associated with the account.	Regularly audit root user access, MFA status, and check for the absence of access keys using IAM reports and AWS CloudTrail logs.	With Kion's robust IAM policy and permissions management, Kion allows for the delegation of permissions with fine granularity, eliminating the need to use the root account.	Utilize roles and temporary credentials for AWS service access instead of static keys	Check for the absence of long-term credentials and the presence of role-based access in IAM	Kion simplifies the management of temporary credentials by automating the assignment of roles and permissions, ensuring users and services are granted the minimum necessary access on a temporary basis.		



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	Co	ost Optimization					
OPS 01: How do you implement cloud financial management? Best Practice ID: COST01-BP02 Establish a partnership between finance and technology?							
oster collaboration between finance and technology eams to ensure alignment on cloud cost management and optimization	Validate through documented joint initiatives and meetings that demonstrate active cooperation and shared strategies	Kion's role-based access and reporting enable finance and technology teams to access relevant information, facilitating effective communication and joint decision-making on cloud cost management initiatives.					
Best Practice ID: COST01-BP03 Establish cloud budgets of	and forecasts						
Action Items	Verification	›⟩ ⟨¢ Kion Value Add					
Itilize AWS Budgets and AWS Cost Explorer to create detailed budgets and forecasts that account for expected cloud usage and expenses	Ensure budgets and forecasts are reviewed and adjusted regularly, verified by change logos and budget variance reports	d Kion enhances the experience found in native AWS functionalities by offering a consolidated view and management budgets across multiple AWS accounts from a single dashboard. Kion allows for automated budget tracking and no and is proactive with automated financial enforcement actions to avoid budget overruns proactively.					
Best Practice ID: COST01-BP05 Report and notify on cost	optimization						
Action Items	Verification	›) ⟨⟨ Kion Value Add					
Set up AWS Budgets alerts and AWS Cost Anomaly Detection to monitor and report on cost optimization efforts.	Confirm the setup of alerts and regular receipt of reports that highlight optimization efforts and identify areas for improvement.	By leveraging Kion's financial management and enforcement actions, organizations can monitor and proactively manage clou spend across AWS accounts, ensuring cost optimization recommendations are implemented and tracked over time.					
Sest Practice ID: COST01-8P08 Create a cost-aware cult	ure						
Action Items	Verification	» ⟨⟨ Kion Value Add					
nplement programs and initiatives that foster a cost- aware culture within the organization, encouraging cost-efficient practices.	Surveys, feedback, or case studies demonstrating a shift in organizational behavior towards more cost-aware practices.	Kion's policy enforcement and budgeting tools empower teams to take ownership of their cloud costs, promoting a prapproach to cost management. Funding sources allow FinOps teams to reconcile spend back to the cost center					