AWS Well-Architected Tool

AWS Well-Architected Tool Consolidated Report

AWS Account ID: 317423519773

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This report was generated using the following options:

Include workloads shared with me: no

Overview

Total workloads	1
Workloads with high risk issues	1
Workloads with medium risk issues	1
Total high risk issues	29
Total medium risk issues	14

Well-Architected Framework issues per pillar (all workloads)

Only issues from the Well-Architected Framework lens are shown

Pillar	High risk issues	Medium risk issues
Operational Excellence	6	3
Security	7	1
Reliability	7	3
Performance Efficiency	2	1
Cost Optimization	7	2
Sustainability	0	4

Well-Architected Framework issues per workload

Only issues from the Well-Architected Framework lens are shown

Workload	Total issues	Operational Excellence	Security	Reliability	Performance Efficiency	Cost Optimization	Sustainability
CloudTrip Questions answered: 57/57 Lenses applied: 1 Last updated: Mar 31, 2025 11:35 PM UTC	High: 29 Medium: 14	High: 6 Medium: 3	⊗ High: 7 Medium: 1	⊗ High: 7 Medium: 3	High: 2 Medium: 1	⊗ High: 7 Medium: 2	High: 0 Medium: 4

Well-Architected Framework issues by improvement plan item

Only issues from the Well-Architected Framework lens are shown

Improvement item	Pillar	Risk	Applicable workloads
Evaluate internal customer needs	Operational Excellence	High	CloudTrip
Evaluate threat landscape	Operational Excellence	High	CloudTrip
Evaluate tradeoffs while managing benefits and risks	Operational Excellence	High	CloudTrip
Resources have identified owners	Operational Excellence	High	CloudTrip
Processes and procedures have identified owners	Operational Excellence	High	CloudTrip
Operations activities have identified owners responsible for their performance	Operational Excellence	High	CloudTrip
Mechanisms exist to manage responsibilities and ownership	Operational Excellence	High	CloudTrip
Mechanisms exist to request additions, changes, and exceptions	Operational Excellence	High	CloudTrip

Improvement item	Pillar	Risk	Applicable workloads
Provide executive sponsorship	Operational Excellence	High	CloudTrip
Escalation is encouraged	Operational Excellence	High	CloudTrip
Team members are empowered to take action when outcomes are at risk	Operational Excellence	High	CloudTrip
Resource teams appropriately	Operational Excellence	High	CloudTrip
Ensure a consistent review of operational readiness	Operational Excellence	High	CloudTrip
Use runbooks to perform procedures	Operational Excellence	High	CloudTrip
Use playbooks to investigate issues	Operational Excellence	High	CloudTrip
Create support plans for production workloads	Operational Excellence	High	CloudTrip
Have a process per alert	Operational Excellence	High	CloudTrip
Prioritize operational events based on business impact	Operational Excellence	High	CloudTrip
Define escalation paths	Operational Excellence	High	CloudTrip
Define a customer communication plan for service-impacting events	Operational Excellence	High	CloudTrip
Communicate status through dashboards	Operational Excellence	High	CloudTrip

Improvement item	Pillar	Risk	Applicable workloads
Automate responses to events	Operational Excellence	High	CloudTrip
Perform post-incident analysis	Operational Excellence	High	CloudTrip
Perform knowledge management	Operational Excellence	High	CloudTrip
Define drivers for improvement	Operational Excellence	High	CloudTrip
Validate insights	Operational Excellence	High	CloudTrip
Perform operations metrics reviews	Operational Excellence	High	CloudTrip
Secure account root user and properties	Security	High	CloudTrip
Identify and validate control objectives	Security	High	CloudTrip
Identify and prioritize risks using a threat model	Security	High	CloudTrip
Reduce security management scope	Security	High	CloudTrip
Automate deployment of standard security controls	Security	High	CloudTrip
Use strong sign-in mechanisms	Security	High	CloudTrip
Use temporary credentials	Security	High	CloudTrip
Rely on a centralized identity provider	Security	High	CloudTrip

Improvement item	Pillar	Risk	Applicable workloads
Audit and rotate credentials periodically	Security	High	CloudTrip
Define access requirements	Security	High	CloudTrip
Define permission guardrails for your organization	Security	High	CloudTrip
Manage access based on lifecycle	Security	High	CloudTrip
Establish emergency access process	Security	High	CloudTrip
Share resources securely within your organization	Security	High	CloudTrip
Analyze public and cross account access	Security	High	CloudTrip
Perform vulnerability management	Security	High	CloudTrip
Provision compute from hardened images	Security	High	CloudTrip
Validate software integrity	Security	High	CloudTrip
Reduce manual management and interactive access	Security	High	CloudTrip
Automate compute protection	Security	High	CloudTrip
Define scalable data lifecycle	Security	High	CloudTrip

Improvement item	Pillar	Risk	Applicable workloads
management			
Automate identification and classification	Security	High	CloudTrip
Implement secure key management	Security	High	CloudTrip
Automate data at rest protection	Security	High	CloudTrip
Enforce access control	Security	High	CloudTrip
Perform regular penetration testing	Security	High	CloudTrip
Deploy software programmatically	Security	High	CloudTrip
Regularly assess security properties of the pipelines	Security	High	CloudTrip
Train for application security	Security	High	CloudTrip
Automate testing throughout the development and release lifecycle	Security	High	CloudTrip
Centralize services for packages and dependencies	Security	High	CloudTrip
Build a program that embeds security ownership in workload teams	Security	High	CloudTrip
Manage service quotas across accounts and Regions	Reliability	High	CloudTrip

Improvement item	Pillar	Risk	Applicable workloads
Accommodate fixed service quotas and constraints through architecture	Reliability	High	CloudTrip
Automate quota management	Reliability	High	CloudTrip
Ensure that a sufficient gap exists between the current quotas and the maximum usage to accommodate failover	Reliability	High	CloudTrip
Fail fast and limit queues	Reliability	High	CloudTrip
Implement emergency levers	Reliability	High	CloudTrip
Use runbooks for standard activities such as deployment	Reliability	High	CloudTrip
Integrate functional testing as part of your deployment	Reliability	High	CloudTrip
Integrate resiliency testing as part of your deployment	Reliability	High	CloudTrip
Deploy changes with automation	Reliability	High	CloudTrip
Deploy the workload to multiple locations	Reliability	High	CloudTrip
Select the appropriate locations for your multi-location deployment	Reliability	High	CloudTrip

Improvement item	Pillar	Risk	Applicable workloads
Automate recovery for components constrained to a single location	Reliability	High	CloudTrip
Monitor all components of the workload to detect failures	Reliability	High	CloudTrip
Fail over to healthy resources	Reliability	High	CloudTrip
Automate healing on all layers	Reliability	High	CloudTrip
Rely on the data plane and not the control plane during recovery	Reliability	High	CloudTrip
Architect your product to meet availability targets and uptime service level agreements (SLAs)	Reliability	High	CloudTrip
Use playbooks to investigate failures	Reliability	High	CloudTrip
Test functional requirements	Reliability	High	CloudTrip
Test resiliency using chaos engineering	Reliability	High	CloudTrip
Conduct game days regularly	Reliability	High	CloudTrip
Define recovery objectives for downtime and data loss	Reliability	High	CloudTrip
Test disaster recovery implementation to validate the implementation	Reliability	High	CloudTrip

Improvement item	Pillar	Risk	Applicable workloads
Manage configuration drift at the DR site or Region	Reliability	High	CloudTrip
Automate recovery	Reliability	High	CloudTrip
Collect and record data store performance metrics	Performance Efficiency	High	CloudTrip
Evaluate available configuration options for data store	Performance Efficiency	High	CloudTrip
Choose appropriate dedicated connectivity or VPN for your workload	Performance Efficiency	High	CloudTrip
Choose network protocols to improve performance	Performance Efficiency	High	CloudTrip
Choose your workload's location based on network requirements	Performance Efficiency	High	CloudTrip
Optimize network configuration based on metrics	Performance Efficiency	High	CloudTrip
Establish ownership of cost optimization	Cost Optimization	High	CloudTrip
Establish a partnership between finance and technology	Cost Optimization	High	CloudTrip
Implement cost awareness in your organizational processes	Cost Optimization	High	CloudTrip

Improvement item	Pillar	Risk	Applicable workloads
Keep up-to-date with new service releases	Cost Optimization	High	CloudTrip
Quantify business value from cost optimization	Cost Optimization	High	CloudTrip
Report and notify on cost optimization	Cost Optimization	High	CloudTrip
Develop policies based on your organization requirements	Cost Optimization	High	CloudTrip
Implement goals and targets	Cost Optimization	High	CloudTrip
Implement groups and role	Cost Optimization	High	CloudTrip
Track project lifecycle	Cost Optimization	High	CloudTrip
Configure detailed information sources	Cost Optimization	High	CloudTrip
Establish organization metrics	Cost Optimization	High	CloudTrip
Add organization information to cost and usage	Cost Optimization	High	CloudTrip
Allocate costs based on workload metrics	Cost Optimization	High	CloudTrip
Identify organization requirements for cost	Cost Optimization	High	CloudTrip
Perform a thorough analysis of each	Cost Optimization	High	CloudTrip

Improvement item	Pillar	Risk	Applicable workloads
component			
Select software with cost effective licensing	Cost Optimization	High	CloudTrip
Perform pricing model analysis	Cost Optimization	High	CloudTrip
Choose Regions based on cost	Cost Optimization	High	CloudTrip
Select third-party agreements with cost-efficient terms	Cost Optimization	High	CloudTrip
Perform pricing model analysis at the management account level	Cost Optimization	High	CloudTrip
Perform data transfer modeling	Cost Optimization	High	CloudTrip
Implement services to reduce data transfer costs	Cost Optimization	High	CloudTrip
Develop a workload review process	Cost Optimization	High	CloudTrip
Use configuration management systems	Operational Excellence	Medium	CloudTrip
Use build and deployment management systems	Operational Excellence	Medium	CloudTrip
Perform patch management	Operational Excellence	Medium	CloudTrip
Share design standards	Operational Excellence	Medium	CloudTrip

Improvement item	Pillar	Risk	Applicable workloads
Use multiple environments	Operational Excellence	⚠ Medium	CloudTrip
Fully automate integration and deployment	Operational Excellence	⚠ Medium	CloudTrip
Employ safe deployment strategies	Operational Excellence	⚠ Medium	CloudTrip
Automate testing and rollback	Operational Excellence	⚠ Medium	CloudTrip
Measure operations goals and KPIs with metrics	Operational Excellence	⚠ Medium	CloudTrip
Review operations metrics and prioritize improvement	Operational Excellence	⚠ Medium	CloudTrip
Capture logs, findings, and metrics in standardized locations	Security	⚠ Medium	CloudTrip
Initiate remediation for non-compliant resources	Security	⚠ Medium	CloudTrip
Correlate and enrich security events	Security	⚠ Medium	CloudTrip
Automate responses (Real-time processing and alarming)	Reliability	⚠ Medium	CloudTrip
Conduct reviews regularly	Reliability	⚠ Medium	CloudTrip
Obtain resources upon detection of impairment to a workload	Reliability	⚠ Medium	CloudTrip

Improvement item	Pillar	Risk	Applicable workloads
Perform data backup automatically	Reliability	⚠ Medium	CloudTrip
Perform periodic recovery of the data to verify backup integrity and processes	Reliability	⚠ Medium	CloudTrip
Use policies and reference architectures	Performance Efficiency	⚠ Medium	CloudTrip
Use benchmarking to drive architectural decisions	Performance Efficiency	⚠ Medium	CloudTrip
Use a data-driven approach for architectural choices	Performance Efficiency	⚠ Medium	CloudTrip
Enforce data retention policies	Cost Optimization	⚠ Medium	CloudTrip
Decommission resources automatically	Cost Optimization	⚠ Medium	CloudTrip
Perform automation for operations	Cost Optimization	⚠ Medium	CloudTrip
Align SLAs with sustainability goals	Sustainability	⚠ Medium	CloudTrip
Optimize geographic placement of workloads based on their networking requirements	Sustainability	⚠ Medium	CloudTrip
Optimize team member resources for activities performed	Sustainability	⚠ Medium	CloudTrip
Implement buffering or throttling to	Sustainability	⚠	CloudTrip

Improvement item	Pillar	Risk	Applicable workloads
flatten the demand curve		Medium	
Optimize areas of code that consume the most time or resources	Sustainability	⚠ Medium	CloudTrip
Optimize impact on devices and equipment	Sustainability	⚠ Medium	CloudTrip
Use software patterns and architectures that best support data access and storage patterns	Sustainability	⚠ Medium	CloudTrip
Use instance types with the least impact	Sustainability	⚠ Medium	CloudTrip
Use managed services	Sustainability	⚠ Medium	CloudTrip
Optimize your use of hardware-based compute accelerators	Sustainability	⚠ Medium	CloudTrip
Adopt methods that can rapidly introduce sustainability improvements	Sustainability	⚠ Medium	CloudTrip
Increase utilization of build environments	Sustainability	⚠ Medium	CloudTrip
Use managed device farms for testing	Sustainability	⚠ Medium	CloudTrip