AWS Well-Architected Tool

AWS Well-Architected Tool demo01 - AWS Well-Architected Framework Report

AWS Account ID: 975050024946

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AWS Well-Architected Tool Report

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Workload properties

Workload name
demo01

ARN
arn:aws:wellarchitected:ap-southeast-1:975050024946:workload/2a382885356b512e39a25cd00d37f4f8

Description
demo01

Review owner
Aryan

Industry type
-

Industry
-

Environment
Production

AWS Regions
US East (N. Virginia)

Non-AWS regions
-

Account IDs
-

Architectural design
-

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Application

-

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Lens overview

Questions answered

0/57

Version

AWS Well-Architected Framework, 25th Feb 2025

Pillar	Questions answered
Operational Excellence	0/11
Security	0/11
Reliability	0/13
Performance Efficiency	0/5
Cost Optimization	0/11
Sustainability	0/6

Lens notes

-

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Improvement plan

Improvement item summary

High risk: 0

Medium risk: 0

Pillar	High risk	Medium risk
Operational Excellence	0	0
Security	0	0
Reliability	0	0
Performance Efficiency	0	0
Cost Optimization	0	0
Sustainability	0	0

High risk

Operational Excellence
No improvements identified

Security
No improvements identified

Reliability
No improvements identified

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Performance Efficiency
No improvements identified

Cost Optimization
No improvements identified

Sustainability
No improvements identified

Medium risk

Operational Excellence
No improvements identified

Security
No improvements identified

Reliability
No improvements identified

Performance Efficiency
No improvements identified

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Cost Optimization
No improvements identified

Sustainability
No improvements identified

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Lens details

Operational Excellence

Questions answered

0/11

Question status

- High risk: 0
- Medium risk: 0
- No improvements identified: 0
- Not Applicable: 0
- Unanswered: 11

Pillar notes

-

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1. How do you determine what your priorities are?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Evaluate external customer needs
- Evaluate internal customer needs
- Evaluate governance requirements
- Evaluate compliance requirements
- Evaluate threat landscape
- Evaluate tradeoffs while managing benefits and risks
- None of these

Best Practices marked as Not Applicable

-

Notes

-

Improvement plan

Answer the question to view the improvement plan.

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2. How do you structure your organization to support your business outcomes?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Resources have identified owners
- Processes and procedures have identified owners
- Operations activities have identified owners responsible for their performance
- Mechanisms exist to manage responsibilities and ownership
- Mechanisms exist to request additions, changes, and exceptions
- Responsibilities between teams are predefined or negotiated
- None of these

Best Practices marked as Not Applicable

-

Notes

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Improvement plan

Answer the question to view the improvement plan.

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3. How does your organizational culture support your business outcomes?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Provide executive sponsorship
- Escalation is encouraged
- Communications are timely, clear, and actionable
- Team members are empowered to take action when outcomes are at risk
- Experimentation is encouraged
- Team members are encouraged to maintain and grow their skill sets
- Resource teams appropriately
- None of these

Best Practices marked as Not Applicable

-

Notes

-

Improvement plan

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4. How do you implement observability in your workload?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Identify key performance indicators
- Implement application telemetry
- Implement user experience telemetry
- Implement dependency telemetry
- Implement distributed tracing
- None of these

Best Practices marked as Not Applicable

-

Notes

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Improvement plan

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5. How do you reduce defects, ease remediation, and improve flow into production?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Use version control
- Test and validate changes
- Use configuration management systems
- Use build and deployment management systems
- Perform patch management
- Share design standards
- Implement practices to improve code quality
- Use multiple environments
- Make frequent, small, reversible changes
- Fully automate integration and deployment
- None of these

Best Practices marked as Not Applicable

-

Notes

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Improvement plan

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6. How do you mitigate deployment risks?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Plan for unsuccessful changes
- Test deployments
- Employ safe deployment strategies
- Automate testing and rollback
- None of these

Best Practices marked as Not Applicable

-

Notes

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Improvement plan

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7. How do you know that you are ready to support a workload?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Ensure personnel capability
- Ensure a consistent review of operational readiness
- Use runbooks to perform procedures
- Use playbooks to investigate issues
- Make informed decisions to deploy systems and changes
- Create support plans for production workloads
- None of these

Best Practices marked as Not Applicable

-

Notes

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8. How do you utilize workload observability in your organization?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Create actionable alerts
- Analyze workload metrics
- Analyze workload logs
- Analyze workload traces
- Create dashboards
- None of these

Best Practices marked as Not Applicable

-

Notes

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Improvement plan

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9. How do you understand the health of your operations?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Measure operations goals and KPIs with metrics
- Communicate status and trends to ensure visibility into operation
- Review operations metrics and prioritize improvement
- None of these

Best Practices marked as Not Applicable

-

Notes

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Improvement plan

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10. How do you manage workload and operations events?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Use a process for event, incident, and problem management
- Have a process per alert
- Prioritize operational events based on business impact
- Define escalation paths
- Define a customer communication plan for service-impacting events
- Communicate status through dashboards
- Automate responses to events
- None of these

Best Practices marked as Not Applicable

-

Notes

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Improvement plan

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11. How do you evolve operations?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Have a process for continuous improvement
- Perform post-incident analysis
- Implement feedback loops
- Perform knowledge management
- Define drivers for improvement
- Validate insights
- Perform operations metrics reviews
- Document and share lessons learned
- Allocate time to make improvements
- None of these

Best Practices marked as Not Applicable

-

Notes

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Improvement plan

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Security

Questions answered

0/11

Question status

- High risk: 0
- Medium risk: 0
- No improvements identified: 0
- Not Applicable: 0
- Unanswered: 11

Pillar notes

-

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1. How do you securely operate your workload?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Separate workloads using accounts
- Secure account root user and properties
- Identify and validate control objectives
- Stay up to date with security threats and recommendations
- Identify and prioritize risks using a threat model
- Reduce security management scope
- Automate deployment of standard security controls
- Evaluate and implement new security services and features regularly
- None of these

Best Practices marked as Not Applicable

-

Notes

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Improvement plan

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2. How do you manage identities for people and machines?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Use strong sign-in mechanisms
- Use temporary credentials
- Store and use secrets securely
- Rely on a centralized identity provider
- Audit and rotate credentials periodically
- Employ user groups and attributes
- None of these

Best Practices marked as Not Applicable

-

Notes

-

Improvement plan

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3. How do you manage permissions for people and machines?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Define access requirements
- Grant least privilege access
- Define permission guardrails for your organization
- Manage access based on lifecycle
- Establish emergency access process
- Share resources securely within your organization
- Reduce permissions continuously
- Share resources securely with a third party
- Analyze public and cross account access
- None of these

Best Practices marked as Not Applicable

-

Notes

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Improvement plan

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4. How do you detect and investigate security events?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Configure service and application logging
- Capture logs, findings, and metrics in standardized locations
- Initiate remediation for non-compliant resources
- Correlate and enrich security events
- None of these

Best Practices marked as Not Applicable

-

Notes

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Improvement plan

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5. How do you protect your network resources?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Create network layers
- Control traffic within your network layers
- Implement inspection-based protection
- Automate network protection
- None of these

Best Practices marked as Not Applicable

-

Notes

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Improvement plan

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6. How do you protect your compute resources?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Perform vulnerability management
- Provision compute from hardened images
- Validate software integrity
- Reduce manual management and interactive access
- Automate compute protection
- None of these

Best Practices marked as Not Applicable

-

Notes

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Improvement plan

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7. How do you classify your data?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Understand your data classification scheme
- Apply data protection controls based on data sensitivity
- Define scalable data lifecycle management
- Automate identification and classification
- None of these

Best Practices marked as Not Applicable

-

Notes

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Improvement plan

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8. How do you protect your data at rest?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Implement secure key management
- Enforce encryption at rest
- Automate data at rest protection
- Enforce access control
- None of these

Best Practices marked as Not Applicable

-

Notes

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9. How do you protect your data in transit?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Implement secure key and certificate management
- Enforce encryption in transit
- Authenticate network communications
- None of these

Best Practices marked as Not Applicable

-

Notes

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10. How do you anticipate, respond to, and recover from incidents?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Identify key personnel and external resources
- Develop incident management plans
- Prepare forensic capabilities
- Develop and test security incident response playbooks
- Pre-provision access
- Run simulations
- Establish a framework for learning from incidents
- Pre-deploy tools
- None of these

Best Practices marked as Not Applicable

-

Notes

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Improvement plan

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11. How do you incorporate and validate the security properties of applications throughout the design, development, and deployment lifecycle?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Perform regular penetration testing
- Deploy software programmatically
- Regularly assess security properties of the pipelines
- Train for application security
- Automate testing throughout the development and release lifecycle
- Conduct code reviews
- Centralize services for packages and dependencies
- Build a program that embeds security ownership in workload teams
- None of these

Best Practices marked as Not Applicable

-

Notes

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Improvement plan

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Reliability

Questions answered

0/13

Question status

- High risk: 0
- Medium risk: 0
- No improvements identified: 0
- Not Applicable: 0
- Unanswered: 13

Pillar notes

-

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1. How do you manage service quotas and constraints?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Aware of service quotas and constraints
- Manage service quotas across accounts and Regions
- Accommodate fixed service quotas and constraints through architecture
- Monitor and manage quotas
- Automate quota management
- Ensure that a sufficient gap exists between the current quotas and the maximum usage to accommodate failover
- None of these

Best Practices marked as Not Applicable

-

Notes

-

Improvement plan

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2. How do you plan your network topology?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Use highly available network connectivity for your workload public endpoints
- Provision redundant connectivity between private networks in the cloud and on-premises environments
- Ensure IP subnet allocation accounts for expansion and availability
- Prefer hub-and-spoke topologies over many-to-many mesh
- Enforce non-overlapping private IP address ranges in all private address spaces where they are connected
- None of these

Best Practices marked as Not Applicable

-

Notes

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3. How do you design your workload service architecture?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Choose how to segment your workload
- Build services focused on specific business domains and functionality
- Provide service contracts per API
- None of these

Best Practices marked as Not Applicable

-

Notes

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Improvement plan

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4. How do you design interactions in a distributed system to prevent failures?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Identify the kind of distributed systems you depend on
- Implement loosely coupled dependencies
- Make mutating operations idempotent
- Do constant work
- None of these

Best Practices marked as Not Applicable

-

Notes

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Improvement plan

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5. How do you design interactions in a distributed system to mitigate or withstand failures?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Implement graceful degradation to transform applicable hard dependencies into soft dependencies
- Throttle requests
- Control and limit retry calls
- Fail fast and limit queues
- Set client timeouts
- Make systems stateless where possible
- Implement emergency levers
- None of these

Best Practices marked as Not Applicable

-

Notes

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6. How do you monitor workload resources?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Monitor all components for the workload (Generation)
- Define and calculate metrics (Aggregation)
- Send notifications (Real-time processing and alarming)
- Automate responses (Real-time processing and alarming)
- Analyze logs
- Regularly review monitoring scope and metrics
- Monitor end-to-end tracing of requests through your system
- None of these

Best Practices marked as Not Applicable

-

Notes

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7. How do you design your workload to adapt to changes in demand?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Use automation when obtaining or scaling resources
- Obtain resources upon detection of impairment to a workload
- Obtain resources upon detection that more resources are needed for a workload
- Load test your workload
- None of these

Best Practices marked as Not Applicable

-

Notes

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Improvement plan

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8. How do you implement change?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Use runbooks for standard activities such as deployment
- Integrate functional testing as part of your deployment
- Integrate resiliency testing as part of your deployment
- Deploy using immutable infrastructure
- Deploy changes with automation
- None of these

Best Practices marked as Not Applicable

-

Notes

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Improvement plan

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9. How do you back up data?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Identify and back up all data that needs to be backed up, or reproduce the data from sources
- Secure and encrypt backups
- Perform data backup automatically
- Perform periodic recovery of the data to verify backup integrity and processes
- None of these

Best Practices marked as Not Applicable

-

Notes

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Improvement plan

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10. How do you use fault isolation to protect your workload?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Deploy the workload to multiple locations
- Use bulkhead architectures to limit scope of impact
- Automate recovery for components constrained to a single location
- None of these

Best Practices marked as Not Applicable

-

Notes

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Improvement plan

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11. How do you design your workload to withstand component failures?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Monitor all components of the workload to detect failures
- Fail over to healthy resources
- Automate healing on all layers
- Rely on the data plane and not the control plane during recovery
- Use static stability to prevent bimodal behavior
- Send notifications when events impact availability
- Architect your product to meet availability targets and uptime service level agreements (SLAs)
- None of these

Best Practices marked as Not Applicable

-

Notes

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Improvement plan

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12. How do you test reliability?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Use playbooks to investigate failures
- Perform post-incident analysis
- Test scalability and performance requirements
- Test resiliency using chaos engineering
- Conduct game days regularly
- None of these

Best Practices marked as Not Applicable

-

Notes

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Improvement plan

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13. How do you plan for disaster recovery (DR)?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Define recovery objectives for downtime and data loss
- Use defined recovery strategies to meet the recovery objectives
- Test disaster recovery implementation to validate the implementation
- Manage configuration drift at the DR site or Region
- Automate recovery
- None of these

Best Practices marked as Not Applicable

-

Notes

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Improvement plan

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Performance Efficiency

Questions answered

0/5

Question status

- High risk: 0
- Medium risk: 0
- No improvements identified: 0
- Not Applicable: 0
- Unanswered: 5

Pillar notes

-

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1. How do you select the appropriate cloud resources and architecture patterns for your workload?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Learn about and understand available cloud services and features
- Evaluate how trade-offs impact customers and architecture efficiency
- Use guidance from your cloud provider or an appropriate partner to learn about architecture patterns and best practices
- Factor cost into architectural decisions
- Use policies and reference architectures
- Use benchmarking to drive architectural decisions
- Use a data-driven approach for architectural choices
- None of these

Best Practices marked as Not Applicable

-

Notes

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Improvement plan

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2. How do you select and use compute resources in your workload?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Select the best compute options for your workload
- Collect compute-related metrics
- Scale your compute resources dynamically
- Understand the available compute configuration and features
- Configure and right-size compute resources
- Use optimized hardware-based compute accelerators
- None of these

Best Practices marked as Not Applicable

-

Notes

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Improvement plan

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3. How do you store, manage, and access data in your workload?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Use purpose-built data store that best support your data access and storage requirements
- Collect and record data store performance metrics
- Evaluate available configuration options for data store
- Implement strategies to improve query performance in data store
- Implement data access patterns that utilize caching
- None of these

Best Practices marked as Not Applicable

-

Notes

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Improvement plan

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4. How do you select and configure networking resources in your workload?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Understand how networking impacts performance
- Evaluate available networking features
- Choose appropriate dedicated connectivity or VPN for your workload
- Use load balancing to distribute traffic across multiple resources
- Choose network protocols to improve performance
- Choose your workload's location based on network requirements
- Optimize network configuration based on metrics
- None of these

Best Practices marked as Not Applicable

-

Notes

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Improvement plan

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5. What process do you use to support more performance efficiency for your workload?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Establish key performance indicators (KPIs) to measure workload health and performance
- Use monitoring solutions to understand the areas where performance is most critical
- Define a process to improve workload performance
- Review metrics at regular intervals
- Load test your workload
- Use automation to proactively remediate performance-related issues
- Keep your workload and services up-to-date
- None of these

Best Practices marked as Not Applicable

-

Notes

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Improvement plan

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Cost Optimization

Questions answered

0/11

Question status

- High risk: 0
- Medium risk: 0
- No improvements identified: 0
- Not Applicable: 0
- Unanswered: 11

Pillar notes

-

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1. How do you implement cloud financial management?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Establish ownership of cost optimization
- Establish a partnership between finance and technology
- Establish cloud budgets and forecasts
- Implement cost awareness in your organizational processes
- Monitor cost proactively
- Keep up-to-date with new service releases
- Quantify business value from cost optimization
- Report and notify on cost optimization
- Create a cost-aware culture
- None of these

Best Practices marked as Not Applicable

-

Notes

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Improvement plan

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2. How do you govern usage?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Develop policies based on your organization requirements
- Implement goals and targets
- Implement an account structure
- Implement cost controls
- Implement groups and role
- Track project lifecycle
- None of these

Best Practices marked as Not Applicable

-

Notes

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Improvement plan

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3. How do you monitor your cost and usage?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Configure detailed information sources
- Identify cost attribution categories
- Establish organization metrics
- Configure billing and cost management tools
- Add organization information to cost and usage
- Allocate costs based on workload metrics
- None of these

Best Practices marked as Not Applicable

-

Notes

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Improvement plan

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4. How do you decommission resources?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Track resources over their life time
- Implement a decommissioning process
- Decommission resources
- Enforce data retention policies
- Decommission resources automatically
- None of these

Best Practices marked as Not Applicable

-

Notes

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Improvement plan

Answer the question to view the improvement plan.

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5. How do you evaluate cost when you select services?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Identify organization requirements for cost
- Analyze all components of this workload
- Perform a thorough analysis of each component
- Select components of this workload to optimize cost in line with organization priorities
- Perform cost analysis for different usage over time
- Select software with cost effective licensing
- None of these

Best Practices marked as Not Applicable

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Notes

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Improvement plan

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6. How do you meet cost targets when you select resource type, size and number?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Perform cost modeling
- Select resource type, size, and number based on data
- Consider using shared resources
- Select resource type, size, and number automatically based on metrics
- None of these

Best Practices marked as Not Applicable

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Notes

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Improvement plan

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7. How do you use pricing models to reduce cost?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Perform pricing model analysis
- Choose Regions based on cost
- Select third-party agreements with cost-efficient terms
- Implement pricing models for all components of this workload
- Perform pricing model analysis at the management account level
- None of these

Best Practices marked as Not Applicable

-

Notes

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Improvement plan

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8. How do you plan for data transfer charges?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Perform data transfer modeling
- Select components to optimize data transfer cost
- Implement services to reduce data transfer costs
- None of these

Best Practices marked as Not Applicable

-

Notes

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Improvement plan

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9. How do you manage demand, and supply resources?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Perform an analysis on the workload demand
- Implement a buffer or throttle to manage demand
- Supply resources dynamically
- None of these

Best Practices marked as Not Applicable

-

Notes

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Improvement plan

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10. How do you evaluate new services?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Develop a workload review process
- Review and analyze this workload regularly
- None of these

Best Practices marked as Not Applicable

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Notes

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Improvement plan

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11. How do you evaluate the cost of effort?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Perform automation for operations
- None of these

Best Practices marked as Not Applicable

-

Notes

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Improvement plan

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Sustainability

Questions answered

0/6

Question status

- High risk: 0
- Medium risk: 0
- No improvements identified: 0
- Not Applicable: 0
- Unanswered: 6

Pillar notes

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1. How do you select Regions for your workload?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Choose Region based on both business requirements and sustainability goals
- None of these

Best Practices marked as Not Applicable

-

Notes

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Improvement plan

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2. How do you align cloud resources to your demand?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Scale workload infrastructure dynamically
- Align SLAs with sustainability goals
- Optimize geographic placement of workloads based on their networking requirements
- Stop the creation and maintenance of unused assets
- Optimize team member resources for activities performed
- Implement buffering or throttling to flatten the demand curve
- None of these

Best Practices marked as Not Applicable

-

Notes

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Improvement plan

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3. How do you take advantage of software and architecture patterns to support your sustainability goals?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Optimize software and architecture for asynchronous and scheduled jobs
- Remove or refactor workload components with low or no use
- Optimize areas of code that consume the most time or resources
- Optimize impact on devices and equipment
- Use software patterns and architectures that best support data access and storage patterns
- None of these

Best Practices marked as Not Applicable

-

Notes

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Improvement plan

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4. How do you take advantage of data management policies and patterns to support your sustainability goals?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Implement a data classification policy
- Use technologies that support data access and storage patterns
- Use policies to manage the lifecycle of your datasets
- Remove unneeded or redundant data
- Use shared file systems or storage to access common data
- Back up data only when difficult to recreate
- Use elasticity and automation to expand block storage or file system
- Minimize data movement across networks
- None of these

Best Practices marked as Not Applicable

-

Notes

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Improvement plan

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5. How do you select and use cloud hardware and services in your architecture to support your sustainability goals?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Use the minimum amount of hardware to meet your needs
- Use instance types with the least impact
- Use managed services
- Optimize your use of hardware-based compute accelerators
- None of these

Best Practices marked as Not Applicable

-

Notes

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Improvement plan

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6. How do your organizational processes support your sustainability goals?

Unanswered

Selected choice(s)

-

Not selected choice(s)

- Communicate and cascade your sustainability goals
- Adopt methods that can rapidly introduce sustainability improvements
- Keep your workload up-to-date
- Increase utilization of build environments
- Use managed device farms for testing
- None of these

Best Practices marked as Not Applicable

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Notes

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