



AWS Well-Architected Tool

# **AWS Well-Architected Tool soaring - AWS Well-Architected Framework Report**

AWS Account ID: 659855141795

# AWS Well-Architected Tool Report

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# Workload properties

**Workload name**

soaring

**ARN**

arn:aws:wellarchitected:ap-southeast-2:659855141795:workload/85493bde68766e76235be0dc487fb930

**Description**

Soaring is a SOAR solution

**Review owner**

soaring

**Industry type**

-

**Industry**

-

**Environment**

Production

**AWS Regions**

Asia Pacific (Sydney)

**Non-AWS regions**

-

**Account IDs**

-

**Architectural design**

-

# Lens overview

## Questions answered

52/52

## Version

AWS Well-Architected Framework, 2nd Jul 2020

Pillar	Questions answered
Operational Excellence	11/11
Security	10/10
Reliability	13/13
Performance Efficiency	8/8
Cost Optimization	10/10

## Lens notes

-

# Improvement plan

## Improvement item summary

High risk: 27

Medium risk: 7

Pillar	High risk	Medium risk
Security	3	3
Reliability	9	0
Operational Excellence	5	2
Performance Efficiency	2	1
Cost Optimization	8	1

## High risk

### Security

- [SEC 1.How do you securely operate your workload?](#)
- [SEC 2.How do you manage identities for people and machines?](#)
- [SEC 9.How do you protect your data in transit?](#)

## Reliability

- REL 9.How do you back up data?
- REL 6.How do you monitor workload resources?
- REL 12.How do you test reliability?
- REL 8.How do you implement change?
- REL 10.How do you use fault isolation to protect your workload?
- REL 11.How do you design your workload to withstand component failures?
- REL 13.How do you plan for disaster recovery (DR)?
- REL 5.How do you design interactions in a distributed system to mitigate or withstand failures?
- REL 4.How do you design interactions in a distributed system to prevent failures?

## Operational Excellence

- OPS 1.How do you determine what your priorities are?
- OPS 8.How do you understand the health of your workload?
- OPS 9.How do you understand the health of your operations?
- OPS 10.How do you manage workload and operations events?
- OPS 11.How do you evolve operations?

## Performance Efficiency

- PERF 1.How do you select the best performing architecture?
- PERF 2.How do you select your compute solution?

## Cost Optimization

- [COST 1.How do you implement cloud financial management?](#)
- [COST 2.How do you govern usage?](#)
- [COST 3.How do you monitor usage and cost?](#)
- [COST 6.How do you meet cost targets when you select resource type, size and number?](#)
- [COST 7.How do you use pricing models to reduce cost?](#)
- [COST 9.How do you manage demand, and supply resources?](#)
- [COST 8.How do you plan for data transfer charges?](#)
- [COST 4.How do you decommission resources?](#)

## Medium risk

### Security

- [SEC 3.How do you manage permissions for people and machines?](#)
- [SEC 7.How do you classify your data?](#)
- [SEC 8.How do you protect your data at rest?](#)

### Reliability

No improvements identified



## Operational Excellence

- OPS 5.How do you reduce defects, ease remediation, and improve flow into production?
- OPS 6.How do you mitigate deployment risks?

## Performance Efficiency

- PERF 6.How do you evolve your workload to take advantage of new releases?

## Cost Optimization

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

# Lens details

## Operational Excellence

### Questions answered

11/11

### Question status

- ⊗ High risk: 5
- ⚠ Medium risk: 2
- ✓ No improvements identified: 0
- ⊖ Not Applicable: 4
- 🕒 Unanswered: 0

### Pillar notes

-

## 1. How do you determine what your priorities are?

⊗ High risk

### **Selected choice(s)**

- Evaluate external customer needs
- Evaluate internal customer needs
- Evaluate threat landscape
- Evaluate tradeoffs
- Manage benefits and risks

### **Not selected choice(s)**

- Evaluate governance requirements
- Evaluate compliance requirements
- None of these

### **Notes**

-

### **Improvement plan**

- Evaluate governance requirements
- Evaluate compliance requirements

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

⊖ Not Applicable

### **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
- Team members know what they are responsible for
- Mechanisms exist to identify responsibility and ownership
- Mechanisms exist to request additions, changes, and exceptions
- Responsibilities between teams are predefined or negotiated
- None of these

### **Notes**

-

### **Improvement plan**

Answer the question to view the improvement plan.

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

☐ Not Applicable

#### **Selected choice(s)**

-

#### **Not selected choice(s)**

- Executive Sponsorship
- Team members are empowered to take action when outcomes are at risk
- Escalation is encouraged
- Communications are timely, clear, and actionable
- Experimentation is encouraged
- Team members are enabled and encouraged to maintain and grow their skill sets
- Resource teams appropriately
- Diverse opinions are encouraged and sought within and across teams
- None of these

#### **Notes**

-

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#### **Improvement plan**

Answer the question to view the improvement plan.

4. How do you design your workload so that you can understand its state?

☐ Not Applicable

**Selected choice(s)**

-

**Not selected choice(s)**

- Implement application telemetry
- Implement and configure workload telemetry
- Implement user activity telemetry
- Implement dependency telemetry
- Implement transaction traceability
- None of these

**Notes**

-

---

**Improvement plan**

Answer the question to view the improvement plan.

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

 Medium risk

### **Selected choice(s)**

- Use version control
- Test and validate changes
- Use build and deployment management systems
- Implement practices to improve code quality
- Make frequent, small, reversible changes

### **Not selected choice(s)**

- Use configuration management systems
- Perform patch management
- Share design standards
- Use multiple environments
- Fully automate integration and deployment
- None of these

### **Notes**

Using cdk to build and deploy.

Using peer programming to improve code quality.

### **Improvement plan**

- [Use configuration management systems](#)
- [Perform patch management](#)
- [Share design standards](#)
- [Use multiple environments](#)
- [Fully automate integration and deployment](#)

## 6. How do you mitigate deployment risks?

 Medium risk

### **Selected choice(s)**

- Plan for unsuccessful changes
- Test and validate changes
- Deploy frequent, small, reversible changes

### **Not selected choice(s)**

- Use deployment management systems
- Test using limited deployments
- Deploy using parallel environments
- Fully automate integration and deployment
- Automate testing and rollback
- None of these

### **Notes**

Using different branches on github and each team member reviews the merge request.

---

### **Improvement plan**

- Use deployment management systems
- Test using limited deployments
- Deploy using parallel environments
- Fully automate integration and deployment
- Automate testing and rollback



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

☐ Not Applicable

### Selected choice(s)

-

### Not selected choice(s)

- Ensure personnel capability
- Ensure consistent review of operational readiness
- Use runbooks to perform procedures
- Use playbooks to investigate issues
- Make informed decisions to deploy systems and changes
- None of these

### Notes

-

### Improvement plan

Answer the question to view the improvement plan.

## 8. How do you understand the health of your workload?

⊗ High risk

### **Selected choice(s)**

- Identify key performance indicators
- Learn expected patterns of activity for workload

### **Not selected choice(s)**

- Define workload metrics
- Collect and analyze workload metrics
- Establish workload metrics baselines
- Alert when workload outcomes are at risk
- Alert when workload anomalies are detected
- Validate the achievement of outcomes and the effectiveness of KPIs and metrics
- None of these

### **Notes**

AWS provides health checks via cloud formations. Stack ready + rollback.

### **Improvement plan**

- Define workload metrics
- Collect and analyze workload metrics
- Establish workload metrics baselines
- Alert when workload outcomes are at risk
- Alert when workload anomalies are detected

## 8. How do you understand the health of your workload?

- [Validate the achievement of outcomes and the effectiveness of KPIs and metrics](#)

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

⊗ High risk

### **Selected choice(s)**

- None of these

### **Not selected choice(s)**

- Identify key performance indicators
- Define operations metrics
- Collect and analyze operations metrics
- Establish operations metrics baselines
- Learn the expected patterns of activity for operations
- Alert when operations outcomes are at risk
- Alert when operations anomalies are detected
- Validate the achievement of outcomes and the effectiveness of KPIs and metrics

### **Notes**

-

### **Improvement plan**

- Identify key performance indicators
- Define operations metrics
- Collect and analyze operations metrics
- Establish operations metrics baselines
- Learn the expected patterns of activity for operations
- Alert when operations outcomes are at risk

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

- Alert when operations anomalies are detected
- Validate the achievement of outcomes and the effectiveness of KPIs and metrics

## 10. How do you manage workload and operations events?

⊗ High risk

### Selected choice(s)

- Enable push notifications
- Automate responses to events

### Not selected choice(s)

- Use processes for event, incident, and problem management
- Have a process per alert
- Prioritize operational events based on business impact
- Define escalation paths
- Communicate status through dashboards
- None of these

### Notes

-

### Improvement plan

- Use processes for event, incident, and problem management
- Have a process per alert
- Prioritize operational events based on business impact
- Define escalation paths
- Communicate status through dashboards

## 11. How do you evolve operations?

⊗ High risk

### Selected choice(s)

- Document and share lessons learned
- Allocate time to make improvements

### 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
- None of these

### Notes

-

### Improvement plan






- 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

# Security

## Questions answered

10/10

## Question status

-  High risk: 3
-  Medium risk: 3
-  No improvements identified: 1
-  Not Applicable: 3
-  Unanswered: 0

## Pillar notes

-



## 1. How do you securely operate your workload?

⊗ High risk

### Selected choice(s)

- Secure AWS account
- Identify and validate control objectives
- Keep up to date with security threats
- Keep up to date with security recommendations
- Identify and prioritize risks using a threat model

### Not selected choice(s)

- Separate workloads using accounts
- Automate testing and validation of security controls in pipelines
- Evaluate and implement new security services and features regularly
- None of these

### Notes

-

### Improvement plan

- [Separate workloads using accounts](#)
- [Automate testing and validation of security controls in pipelines](#)
- [Evaluate and implement new security services and features regularly](#)

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

⊗ High risk

### **Selected choice(s)**

- Use strong sign-in mechanisms
- Use temporary credentials
- Store and use secrets securely
- Leverage user groups and attributes

### **Not selected choice(s)**

- Rely on a centralized identity provider
- Audit and rotate credentials periodically
- None of these

### **Notes**

-

### **Improvement plan**

- [Rely on a centralized identity provider](#)
- [Audit and rotate credentials periodically](#)

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

 Medium risk

#### **Selected choice(s)**

- Define access requirements
- Grant least privilege access
- Define permission guardrails for your organization
- Manage access based on life cycle
- Share resources securely

#### **Not selected choice(s)**

- Establish emergency access process
- Reduce permissions continuously
- Analyze public and cross account access
- None of these

#### **Notes**

Started with lowest level access; specific team members received more permissions only if necessary to complete the required project.

---

#### **Improvement plan**

- [Establish emergency access process](#)
- [Reduce permissions continuously](#)
- [Analyze public and cross account access](#)

#### 4. How do you detect and investigate security events?

✔ No improvements identified

##### **Selected choice(s)**

- Configure service and application logging
- Analyze logs, findings, and metrics centrally
- Automate response to events
- Implement actionable security events

##### **Not selected choice(s)**

- None of these

##### **Notes**

-

##### **Improvement plan**

No risk detected for this question. No action needed.

## 5. How do you protect your network resources?

☐ Not Applicable

### **Selected choice(s)**

-

### **Not selected choice(s)**

- Create network layers
- Control traffic at all layers
- Automate network protection
- Implement inspection and protection
- None of these

### **Notes**

-

### **Improvement plan**

Answer the question to view the improvement plan.

## 6. How do you protect your compute resources?

☐ Not Applicable

### **Selected choice(s)**

-

### **Not selected choice(s)**

- Perform vulnerability management
- Reduce attack surface
- Implement managed services
- Automate compute protection
- Enable people to perform actions at a distance
- Validate software integrity
- None of these

### **Notes**

-

### **Improvement plan**

Answer the question to view the improvement plan.

## 7. How do you classify your data?

 Medium risk

### **Selected choice(s)**

- Identify the data within your workload
- Define data protection controls
- Automate identification and classification

### **Not selected choice(s)**

- Define data lifecycle management
- None of these

### **Notes**

-

### **Improvement plan**

- [Define data lifecycle management](#)

## 8. How do you protect your data at rest?

 Medium risk

### **Selected choice(s)**

- Implement secure key management
- Enforce encryption at rest
- Enforce access control

### **Not selected choice(s)**

- Automate data at rest protection
- Use mechanisms to keep people away from data
- None of these

### **Notes**

-

---

### **Improvement plan**

- Automate data at rest protection
- Use mechanisms to keep people away from data



## 9. How do you protect your data in transit?

⊗ High risk

### **Selected choice(s)**

- Authenticate network communications

### **Not selected choice(s)**

- Implement secure key and certificate management
- Enforce encryption in transit
- Automate detection of unintended data access
- None of these

### **Notes**

-

### **Improvement plan**

- [Implement secure key and certificate management](#)
- [Enforce encryption in transit](#)
- [Automate detection of unintended data access](#)

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

☐ Not Applicable

### **Selected choice(s)**

- Identify key personnel and external resources

### **Not selected choice(s)**

- Develop incident management plans
- Prepare forensic capabilities
- Automate containment capability
- Pre-provision access
- Pre-deploy tools
- Run game days
- None of these

### **Notes**

-

### **Improvement plan**

Answer the question to view the improvement plan.

# Reliability

## Questions answered

13/13

## Question status

- ⊗ High risk: 9
- ⚠ Medium risk: 0
- ✓ No improvements identified: 1
- ⊖ Not Applicable: 3
- ⌚ Unanswered: 0

## Pillar notes

-

## 1. How do you manage service quotas and constraints?

⊖ Not Applicable

### **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

### **Notes**

-

---

### **Improvement plan**

Answer the question to view the improvement plan.

## 2. How do you plan your network topology?

⊖ Not Applicable

### 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

### Notes

-

### Improvement plan

Answer the question to view the improvement plan.

### 3. How do you design your workload service architecture?

✔ No improvements identified

#### **Selected choice(s)**

- Choose how to segment your workload
- Build services focused on specific business domains and functionality

#### **Not selected choice(s)**

- Provide service contracts per API
- None of these

#### **Notes**

-

#### **Improvement plan**

No risk detected for this question. No action needed.

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

⊗ High risk

##### **Selected choice(s)**

- Implement loosely coupled dependencies

##### **Not selected choice(s)**

- Identify which kind of distributed system is required
- Make all responses idempotent
- Do constant work
- None of these

##### **Notes**

-

---

##### **Improvement plan**

- Identify which kind of distributed system is required
- Make all responses idempotent
- Do constant work

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

⊗ High risk

### **Selected choice(s)**

- Implement graceful degradation to transform applicable hard dependencies into soft dependencies
- Throttle requests
- Control and limit retry calls
- Set client timeouts
- Make services stateless where possible

### **Not selected choice(s)**

- Fail fast and limit queues
- Implement emergency levers
- None of these

### **Notes**

-

### **Improvement plan**

- Fail fast and limit queues
- Implement emergency levers



## 6. How do you monitor workload resources?

⊗ High risk

### **Selected choice(s)**

- Send notifications (Real-time processing and alarming)

### **Not selected choice(s)**

- Monitor all components for the workload (Generation)
- Define and calculate metrics (Aggregation)
- Automate responses (Real-time processing and alarming)
- Storage and Analytics
- Conduct reviews regularly
- Monitor end-to-end tracing of requests through your system
- None of these

### **Notes**

-

### **Improvement plan**

- Monitor all components for the workload (Generation)
- Define and calculate metrics (Aggregation)
- Automate responses (Real-time processing and alarming)
- Storage and Analytics
- Conduct reviews regularly
- Monitor end-to-end tracing of requests through your system

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

☐ Not Applicable

**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

**Notes**

-

---

**Improvement plan**

Answer the question to view the improvement plan.

## 8. How do you implement change?

⊗ High risk

### **Selected choice(s)**

- Integrate functional testing as part of your deployment
- Integrate resiliency testing as part of your deployment

### **Not selected choice(s)**

- Use runbooks for standard activities such as deployment
- Deploy using immutable infrastructure
- Deploy changes with automation
- None of these

### **Notes**

-

### **Improvement plan**

- Use runbooks for standard activities such as deployment
- Deploy using immutable infrastructure
- Deploy changes with automation

## 9. How do you back up data?

⊗ High risk

### Selected choice(s)

- None of these

### 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

### Notes

-

### Improvement plan

- 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

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

⊗ High risk

### Selected choice(s)

- None of these

### Not selected choice(s)

- Deploy the workload to multiple locations
- Automate recovery for components constrained to a single location
- Use bulkhead architectures

### Notes

-

### Improvement plan

- Deploy the workload to multiple locations
- Automate recovery for components constrained to a single location
- Use bulkhead architectures

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

⊗ High risk

### **Selected choice(s)**

- Monitor all components of the workload to detect failures

### **Not selected choice(s)**

- Fail over to healthy resources
- Automate healing on all layers
- Use static stability to prevent bimodal behavior
- Send notifications when events impact availability
- None of these

### **Notes**

-

### **Improvement plan**

- Fail over to healthy resources
- Automate healing on all layers
- Use static stability to prevent bimodal behavior
- Send notifications when events impact availability

## 12. How do you test reliability?

⊗ High risk

### **Selected choice(s)**

- None of these

### **Not selected choice(s)**

- Use playbooks to investigate failures
- Perform post-incident analysis
- Test functional requirements
- Test scaling and performance requirements
- Test resiliency using chaos engineering
- Conduct game days regularly

### **Notes**

-

### **Improvement plan**

- Use playbooks to investigate failures
- Perform post-incident analysis
- Test functional requirements
- Test scaling and performance requirements
- Test resiliency using chaos engineering
- Conduct game days regularly

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

⊗ High risk

#### **Selected choice(s)**

- None of these

#### **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

#### **Notes**

-

#### **Improvement plan**

- 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



# Performance Efficiency

## Questions answered

8/8

## Question status

- ⊗ High risk: 2
- ⚠ Medium risk: 1
- ✓ No improvements identified: 1
- ⊖ Not Applicable: 4
- ⌚ Unanswered: 0

## Pillar notes

-

## 1. How do you select the best performing architecture?

⊗ High risk

### **Selected choice(s)**

- Understand the available services and resources
- Factor cost requirements into decisions
- Use policies or reference architectures
- Use guidance from your cloud provider or an appropriate partner

### **Not selected choice(s)**

- Define a process for architectural choices
- Benchmark existing workloads
- Load test your workload
- None of these

### **Notes**

-

### **Improvement plan**

- Define a process for architectural choices
- Benchmark existing workloads
- Load test your workload

## 2. How do you select your compute solution?

⊗ High risk

### **Selected choice(s)**

- Evaluate the available compute options

### **Not selected choice(s)**

- Understand the available compute configuration options
- Collect compute-related metrics
- Determine the required configuration by right-sizing
- Use the available elasticity of resources
- Re-evaluate compute needs based on metrics
- None of these

### **Notes**

-

### **Improvement plan**

- Understand the available compute configuration options
- Collect compute-related metrics
- Determine the required configuration by right-sizing
- Use the available elasticity of resources
- Re-evaluate compute needs based on metrics

### 3. How do you select your storage solution?

☐ Not Applicable

#### **Selected choice(s)**

-

#### **Not selected choice(s)**

- Understand storage characteristics and requirements
- Evaluate available configuration options
- Make decisions based on access patterns and metrics
- None of these

#### **Notes**

-

#### **Improvement plan**

Answer the question to view the improvement plan.

#### 4. How do you select your database solution?

☐ Not Applicable

##### **Selected choice(s)**

-

##### **Not selected choice(s)**

- Understand data characteristics
- Evaluate the available options
- Collect and record database performance metrics
- Choose data storage based on access patterns
- Optimize data storage based on access patterns and metrics
- None of these

##### **Notes**

-

---

##### **Improvement plan**

Answer the question to view the improvement plan.

## 5. How do you configure your networking solution?

⊖ Not Applicable

### Selected choice(s)

-

### Not selected choice(s)

- Understand how networking impacts performance
- Evaluate available networking features
- Choose appropriately sized dedicated connectivity or VPN for hybrid workloads
- Leverage load-balancing and encryption offloading
- Choose network protocols to improve performance
- Choose your workload's location based on network requirements
- Optimize network configuration based on metrics
- None of these

### Notes

-

### Improvement plan

Answer the question to view the improvement plan.

## 6. How do you evolve your workload to take advantage of new releases?

 Medium risk

### **Selected choice(s)**

- Stay up-to-date on new resources and services

### **Not selected choice(s)**

- Define a process to improve workload performance
- Evolve workload performance over time
- None of these

### **Notes**

-

### **Improvement plan**

- Define a process to improve workload performance
- Evolve workload performance over time

## 7. How do you monitor your resources to ensure they are performing?

☐ Not Applicable

### Selected choice(s)

-

### Not selected choice(s)

- Record performance-related metrics
- Analyze metrics when events or incidents occur
- Establish Key Performance Indicators (KPIs) to measure workload performance
- Use monitoring to generate alarm-based notifications
- Review metrics at regular intervals
- Monitor and alarm proactively
- None of these

### Notes

-

### Improvement plan

Answer the question to view the improvement plan.



## 8. How do you use tradeoffs to improve performance?

✔ No improvements identified

### **Selected choice(s)**

- Understand the areas where performance is most critical
- Learn about design patterns and services
- Identify how tradeoffs impact customers and efficiency
- Measure the impact of performance improvements
- Use various performance-related strategies

### **Not selected choice(s)**

- None of these

### **Notes**

-

### **Improvement plan**

No risk detected for this question. No action needed.

# Cost Optimization

## Questions answered

10/10

## Question status

- ⊗ High risk: 8
- ⚠ Medium risk: 1
- ✓ No improvements identified: 0
- ⊖ Not Applicable: 1
- ⌚ Unanswered: 0

## Pillar notes

-

## 1. How do you implement cloud financial management?

⊗ High risk

### **Selected choice(s)**

- Monitor cost proactively
- Keep up to date with new service releases

### **Not selected choice(s)**

- Establish a cost optimization function
- Establish a partnership between finance and technology
- Establish cloud budgets and forecasts
- Implement cost awareness in your organizational processes
- Report and notify on cost optimization
- None of these

### **Notes**

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### **Improvement plan**

- Establish a cost optimization function
- Establish a partnership between finance and technology
- Establish cloud budgets and forecasts
- Implement cost awareness in your organizational processes
- Report and notify on cost optimization

## 2. How do you govern usage?

⊗ High risk

### **Selected choice(s)**

- Implement goals and targets
- Implement an account structure
- Implement groups and roles
- Implement cost controls
- Track project lifecycle

### **Not selected choice(s)**

- Develop policies based on your organization requirements
- None of these

### **Notes**

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### **Improvement plan**

- [Develop policies based on your organization requirements](#)

### 3. How do you monitor usage and cost?

⊗ High risk

#### **Selected choice(s)**

- Configure billing and cost management tools

#### **Not selected choice(s)**

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

#### **Notes**

Cost notification system

Whole team aware of spending

destroy the stack to save money (system not constantly running)

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#### **Improvement plan**

- Configure detailed information sources
- Identify cost attribution categories
- Establish organization metrics
- Add organization information to cost and usage
- Allocate costs based on workload metrics

#### 4. How do you decommission resources?

⊗ High risk

##### **Selected choice(s)**

- Track resources over their life time
- Decommission resources automatically

##### **Not selected choice(s)**

- Implement a decommissioning process
- Decommission resources
- None of these

##### **Notes**

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##### **Improvement plan**

- [Implement a decommissioning process](#)
- [Decommission resources](#)

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

 Medium risk

### **Selected choice(s)**

- Identify organization requirements for cost
- Analyze all components of this workload

### **Not selected choice(s)**

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

### **Notes**

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### **Improvement plan**

- Perform a thorough analysis of each component
- Select software with cost effective licensing
- Select components of this workload to optimize cost in line with organization priorities
- Perform cost analysis for different usage over time

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

⊗ High risk

**Selected choice(s)**

- Select resource type and size based on data
- Select resource type and size automatically based on metrics

**Not selected choice(s)**

- Perform cost modeling
- None of these

**Notes**

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**Improvement plan**

- [Perform cost modeling](#)



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

⊗ High risk

### **Selected choice(s)**

- None of these

### **Not selected choice(s)**

- Perform pricing model analysis
- Implement 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 master account level

### **Notes**

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### **Improvement plan**

- Perform pricing model analysis
- Implement 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 master account level

## 8. How do you plan for data transfer charges?

⊗ High risk

### **Selected choice(s)**

- Implement services to reduce data transfer costs

### **Not selected choice(s)**

- Perform data transfer modeling
- Select components to optimize data transfer cost
- None of these

### **Notes**

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### **Improvement plan**

- [Perform data transfer modeling](#)
- [Select components to optimize data transfer cost](#)

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

⊗ High risk

### **Selected choice(s)**

- None of these

### **Not selected choice(s)**

- Perform an analysis on the workload demand
- Implement a buffer or throttle to manage demand
- Supply resources dynamically

### **Notes**

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### **Improvement plan**

- Perform an analysis on the workload demand
- Implement a buffer or throttle to manage demand
- Supply resources dynamically

## 10. How do you evaluate new services?

☐ Not Applicable

### **Selected choice(s)**

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### **Not selected choice(s)**

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

### **Notes**

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### **Improvement plan**

Answer the question to view the improvement plan.

