

# EKS Operational Report

## ### EKS Operational Report

### [Risk] \*\*Risks Identified\*\*

- \*\* Running an outdated version of EKS may lead to vulnerabilities and limits the ability to leverage newer features or optimizations available in later versions.

### \*\*Recommendation:\*\*

1. Plan a structured upgrade pathway to migrate from EKS version 1.22 to 1.28, ensuring compatibility and testing as necessary.
2. Investigate the support for Windows containers and evaluate the workload requirements to determine if migration is feasible and beneficial.

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This action plan prioritizes enhancing the reliability, cost-effectiveness, security, observability, and modern deployment practices for the EKS environment, while also preparing it for future improvements and scalability.

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- **\*\* Operating on an outdated EKS version (1.22) may expose the environment to known vulnerabilities and restrict enhancements available in newer versions.**

## **\*\*Recommendation:\*\***

1. Develop a migration plan to upgrade from EKS version 1.22 to 1.28, testing applications and configurations for compatibility as part of the process.
2. Conduct an assessment of the requirements for supporting Windows containers, and if suitable, draft a strategy for a gradual migration of legacy workloads.

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This structured action plan addresses key operational challenges within the EKS environment while emphasizing improvements across critical areas, including health, cost efficiency, security, monitoring, CI/CD practices, and strategic upgrades. Each recommendation aims to enhance overall reliability and efficiency while mitigating potential risks.

- **\*\* Running an outdated version of EKS (1.22) may expose the environment to vulnerabilities and limit access to new features and performance improvements.**

## **\*\*Recommendation:\*\***

1. **\*\*Plan for Upgrade:\*\*** Draft a detailed plan for migrating from EKS version 1.22 to 1.28, ensuring ample testing to validate compatibility and performance.
2. **\*\*Assess Windows Container Support:\*\*** Evaluate the requirements for supporting

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Windows containers and decide on a phased strategy for migrating existing legacy workloads if feasible.

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This action plan identifies critical areas for improvement within the EKS environment, emphasizing actionable steps and strategies designed to enhance health, cost efficiency, security, monitoring capabilities, CI/CD processes, and overall environmental readiness for future enhancements. Each recommendation is aimed at mitigating specific risks and driving operational excellence.

- **Running an outdated version of EKS (1.22) can expose the environment to vulnerabilities and limit access to recent features and enhancements.**

**Recommendation:**

1. **Upgrade Planning:** Develop a detailed migration plan to transition from EKS version 1.22 to 1.28. Ensure thorough testing of applications for compatibility with the new version.
2. **Evaluate Windows Containers:** Assess the feasibility and requirements for supporting Windows containers, creating a strategy for transitioning legacy workloads as appropriate.

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This comprehensive action plan targets key operational areas within the EKS environment, focusing on risk mitigation and enhancement of reliability, cost management, security posture, observability, deployment practices, and readiness for future advancements. Each recommendation aims to address specific risks while

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driving operational efficiency and stability.

[OK] **\*\*Recommendations\*\***

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