

Project Report: AWS Cost Alert - Project 5

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GitHub Repo: <https://github.com/Omerofficial/aws-cost-alert-project5>

Project Overview

The AWS Cost Alert - Project 5 is designed to monitor daily AWS expenditures using the AWS Cost Explorer API. The objective is to track unblended daily costs over the past week and send alerts when these exceed a predefined threshold. Alerts are sent to Prometheus Alertmanager, enabling proactive cost management.

Objectives

- Automated Cost Monitoring
- Threshold-Based Alerts
- Integration with Alertmanager
- Customizable Configuration

Tools & Technologies

- Python 3
- AWS Cost Explorer API
- Boto3, Requests, pytz
- Prometheus Alertmanager

Implementation Steps

1. Set up timezone-aware datetime for cost tracking.
2. Fetch cost data from AWS Cost Explorer API.
3. Parse results and compare with threshold.
4. Send alerts to Alertmanager if threshold is exceeded.

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Screenshots

Conclusion

This project automates AWS cost monitoring, enhancing observability by integrating with Alertmanager for proactive notifications. It helps prevent billing surprises and supports better cloud financial operations.

References

GitHub Repository: <https://github.com/Omerofficial/aws-cost-alert-project5>

AWS Cost Explorer API: <https://docs.aws.amazon.com/aws-cost-management/latest/APIReference/>

Prometheus Alertmanager: <https://prometheus.io/docs/alerting/latest/alertmanager/>