COST ANALYSIS REPORT

CloudSave AI

AWS Infrastructure Cost Optimization

$505

Monthly Savings Identified

Generated: Feb 21, 2026

Input File: test-ecs-task.json

File Type: ECS-TASK

Services Analyzed: 1

Issues Found: 1

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Executive Summary

SERVICES DETECTED	1
ISSUES FOUND	1
CURRENT MONTHLY COST	$577
OPTIMIZED MONTHLY COST	$72
MONTHLY SAVINGS	$505
ANNUAL SAVINGS	$6,060
SAVING PERCENTAGE	87.5%

Detected Services

Service	Detected Resources	Issues	Status
ECS	Detected	1 issue	Issue

Cost Breakdown by Service

Service	Current/mo	Optimized/mo	Saving/mo	Annual
ECS	$577	**$72**	**$505**	**$6,060**
TOTAL	**$577**	**$72**	**$505**	**$6,060**

Issues & Recommendations

Fargate Task Over-Allocated

MEDIUM

Service "logicspark-api-task" allocates 16384 CPU units (16 vCPU) and 32768MB. Based on typical application patterns, this is over-provisioned. Right-sizing to 2 vCPU / 4GB reduces cost significantly.

CURRENT

16384 CPU units, 32768MB memory

$577/mo

RECOMMENDED

2048 CPU units (2 vCPU), 4096MB — measure then adjust

$72/mo ’Save $505/mo

AI Analysis (Claude)

Fargate pricing is linear per vCPU-hour and GB-hour, making over-allocation extremely expensive. At 16 vCPUs and 32GB, you're paying $577/month regardless of actual utilization. AWS charges $0.04048 per vCPU-hour and $0.004445 per GB-hour in us-east-1, so 16 vCPUs cost ~$467/month and 32GB costs ~$105/month even at 0% utilization. Most containerized applications use <25% of allocated Fargate resources, creating massive waste. The recommended 2 vCPU/4GB configuration costs only $72/month, allowing you to scale up based on actual performance metrics rather than guesswork.

Risk: MODERATE · Apply during your lowest-traffic window, typically weekday 2-5 AM UTC in your primary region. Schedule during planned maintenance windows to allow for performance validation. Deploy to non-production environments first during business hours for easier monitoring. Avoid peak traffic periods, month-end processing, or during active deployments. Ensure your on-call engineer is available for 2 hours post-deployment.

Optimization Roadmap

Phase 1 — Quick Wins (< 1 hour)	$0/mo
None in this phase	

Phase 2 — Medium Effort (1–4 hours)	$505/mo
1. Fargate Task Over-Allocated (ECS)	+$505/mo

Phase 3 — Needs Planning (1+ days)	$0/mo
None in this phase	

Disclaimer & Notes

Important: Review Before Applying

Estimates are based on static analysis of your infrastructure configuration files. Actual savings may vary based on:

- Actual usage patterns and traffic volumes
- Current AWS pricing in your region (prices change regularly)
- Reserved Instance or Savings Plan discounts you may already have
- Application-specific performance requirements
- Multi-region or compliance requirements

CloudSave AI by Prod Bois

This report was generated automatically by CloudSave AI using static infrastructure analysis. No real AWS API calls were made. All pricing is based on publicly available AWS pricing data.

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