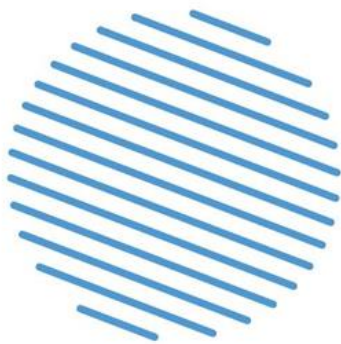
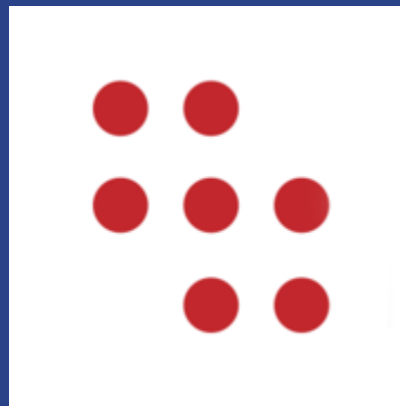


# CloudCheckr

## Cloud Check Up



**Prepared by:**

Lawrence Quarmby  
Partner Development Manager  
21/09/2020

# ACME Inc. Cost Savings Analysis

The following section documents Acme Inc. key cost savings recommendations, as established during your CloudCheckr Cost Assessment. These savings recommendations are to be reviewed by Acme Inc. and CloudCheckr to determine what cost savings opportunities are actionable.

Cost Savings Area	CloudCheckr Cost Savings Recommendations (all \$ are monthly savings)
Best Practices Checks	<ul style="list-style-type: none"> <li>600+ out-of-the-box Best Practice Checks for cost, availability, security, and usage, based off of legal regulations and compliance frameworks like CIS Benchmarks, NIST 800-53, HIPAA, and more.</li> </ul>
Security Audit and Governance	<ul style="list-style-type: none"> <li>250+ Best Practice Checks for security vulnerabilities and resource accessibility concerns</li> <li>Review security settings and public accessibility of resources</li> <li>Audit IAM admin users, security groups and network ACLs</li> </ul>
Compliance Audit and Governance	<ul style="list-style-type: none"> <li>Maintain compliant configurations and enforce governance policies at scale, with 7 years of historical data</li> <li>Total Compliance for industry frameworks and legal standards: HIPAA, PCI DSS, NIST 800-53, NIST 800-171, AICPA, ANSSI, ACSC, etc., for a total of 35 compliance controls</li> </ul>
Capacity and Resource optimization	<ul style="list-style-type: none"> <li>150+ Cost Optimization recommendations to assist in locating and terminating idle, unused, previous generation, and misprovisioned resources</li> <li>Review reserved purchase recommendations</li> <li>Review opportunities for instance right sizing</li> </ul>
Cost and Billing Reports	<ul style="list-style-type: none"> <li>Team by team/portfolio by portfolio current costs through dashboards</li> <li>Create budget tracking alerts to break out each application owner by potential cost savings</li> <li>Tagging resources and configuring tag rules for cost allocation</li> <li>Demonstrate generation of a custom cost tracking report using advanced grouping.</li> </ul>
Savings Reports	<ul style="list-style-type: none"> <li>150+ Best Practice Checks for cost optimization to assist in locating and terminating idle, unused, previous generation, and misprovisioned resources</li> <li>Multi-account views for savings reporting</li> <li>Cost savings by team/portfolio</li> </ul>

# ACME Inc. CheckUp

CloudCheckr has identified 91 security issues. CloudCheckr has listed out the issues with remediation actions prioritized by severity of the issue.

**CloudCheckr CMx** | Test Payer: AWS

Overview | **Best Practices** | Cost Savings

Active | Custom

Best Practices | Show Help | SnapBack: 09/21/2020 01:40 AM

Importance: All | Tag: All | Show Ignored | Filter

Category	Count
Security	91 Issues
Cost	10 Issues
Availability	19 Issues
Usage	32 Issues
AWS Trusted Advisor	27 Issues

- 14 Blocklisted IP Address Making API Calls
- 10 CloudTrail Unauthorized Access Attempts
- 23 EC2 Instances Without Attached IAM Profile Role
- IAM Password Policy Disabled
- 84 IAM Role Policies with Full Admin Privileges
- 10 IAM User Policies with Full Admin Privileges
- 29 IAM Users with Console Access Should Not Have Access Keys That Were Created at Initial User Setup
- 2 Ineffective Network ACL Deny Rule
- 2 Log Metric Filter and Alarm Do Not Exist for Disabling or Scheduled Deletion of Customer-Created CMKS
- 2 Log Metric Filters and Alarms Do Not Exist for Unauthorized API Calls
- 2 Publicly Accessible RDS DB Instances
- Root Account Has Access Keys
- Root User Accessing AWS Account

**CloudCheckr CMx** | Test Payer: AWS

Framework	Compliance Status
HIPAA	0% (0/9 in compliance)
ISO 27002-2013	11% (3/27 in compliance)
NIST 800-53 rev4	0% (0/39 in compliance)
PCI DSS 3.2	0% (0/26 in compliance)
AICPA GAPP	0% (0/4 in compliance)
AICPA SOC2 and SOC3 TSPC	0% (0/9 in compliance)
ANSSI - 40 Measures	0% (0/15 in compliance)
Australian Essential 8	0% (0/2 in compliance)
Australian Top 35	21% (3/14 in compliance)
COBIT 5	0% (0/4 in compliance)
CoM 201 CMR 17.00	0% (0/11 in compliance)

**Possible Monthly Savings**

**\$958.85**

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**Potential Spot Savings**

**\$162.61**

[Get Started with Spot Management](#)

Idle Resources: <b>\$818.17</b>	Unused Resources: <b>\$140.68</b>
Mis-Provisioned Resources: <b>\$0.00</b>	Previous Generation Resources: <b>\$0.00</b>
Reserved Purchase Recommendations: <b>\$0.00</b>	Other: <b>\$0.00</b>

Idle Resources

	Total Count	Possible Monthly Savings
Idle RDS DB Instances	5	\$578.16
Idle DynamoDB Tables	20	\$175.21
Idle ElastiCache Nodes	1	\$64.80

Unused Resources

	Total Count	Possible Monthly Savings
Unused Elastic Load Balancers	7	\$119.08
Unused Elastic IP Addresses	6	\$21.60

Recommendation Range:

Past 180 Days [Save](#)

Options

Recommended Year: 1 Year

Offering Class: Standard

Scope: Region

Filters

Region: US East (Ohio), US West (Oregon), US East (Northern Virginia), GovCloud (US)

Instance Type: t3.micro, t3.medium, t3.large

Platform: Linux

Tenancy: Default

[Filter](#)

Summary

	No Upfront	Partial Upfront	All Upfront
<b>Recommended Reserved Instance Purchases</b>			
Total number of Reserved Instances we recommend to purchase	6	6	6
Total Instance Count for Active Reservations			
Total Instance Count for all Active Reserved Instances already purchased	2	0	0
<b>Possible Monthly Savings</b>			
Monthly savings to convert all instances to Reserved Instances based on Utilization recommendations	\$66.65	\$131.55	\$188.49
<b>Total Upfront Cost</b>			
Cost of converting all On-Demand instances to Reserved Instances based on Utilization recommendations	\$0.00	\$702.00	\$1,356.00
Months to Break Even	N/A	5	7
Number of months before cost savings will be greater than upfront cost			
Total Savings Over 1 Year (not including upfront cost)	\$799.79	\$1,578.55	\$2,261.83
Monthly savings * number of months			
Total Savings Over 1 Year (including upfront cost)	\$799.79	\$876.55	\$905.83
Monthly savings * number of months less the upfront cost			
Return on Investment (vs On-Demand)			
Percentage return on the upfront cost over using On-Demand	N/A	124.86%	66.80%
Return on Investment (vs No Upfront)			
Percentage return on the upfront cost over using No Upfront RIs	N/A	10.94%	7.82%
Total Committed Amount			
(Usage Rate * Hours in Term) + Upfront cost	\$1,462.04	\$1,385.28	\$1,356.00

# Return on Investment Analysis

CloudCheckr's Cost Savings report outlines the overall amount that ACME Inc. can save using CloudCheckr. All accounts associated with ACME Inc can save up to **\$1,256 monthly and \$15,072 yearly**. The overall net **yearly ROI is 230%**. The below information summarizes the overall savings.

## Cloud Expenses

AWS Monthly Cloud Spend	\$11,936.94	\$143,243.28
CloudCheckr Fee	\$358.11	\$4,297.30
Implementation Cost		\$2,250.00
<b>Total Cost</b>	<b>\$12,295.05</b>	<b>\$149,790.58</b>

## Possible Cost Savings with CloudCheckr

Resource Cleanup (Idle and Unused)	\$958.85	\$11,506.20
Right Sizing Recommendations	\$165.60	\$1,987.20
RI Purchase Recommendations	\$131.55	\$1,578.60
<b>Total Savings</b>	<b>\$1,256.00</b>	<b>\$15,072.00</b>

Options to Consider	Annual Cloud Expenses	Possible Annual Savings	ROI
Without Using CloudCheckr	\$143,243.28	\$0.00	0%
After Using CloudCheckr (Resource Cleanup Only)	\$138,284.38	\$4,958.90	76%
After Using CloudCheckr (Right Sizing & RI Purchases)	\$139,677.48	\$3,565.80	54%
<b>After Using CloudCheckr (All-in)</b>	<b>\$128,171.28</b>	<b>\$15,072.00</b>	<b>230%</b>