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Presented by: Business Analyst

Jericho AI Cost Saving Analysis

A Strategic Approach to Understanding Business Expenses

Date: March 25, 2025
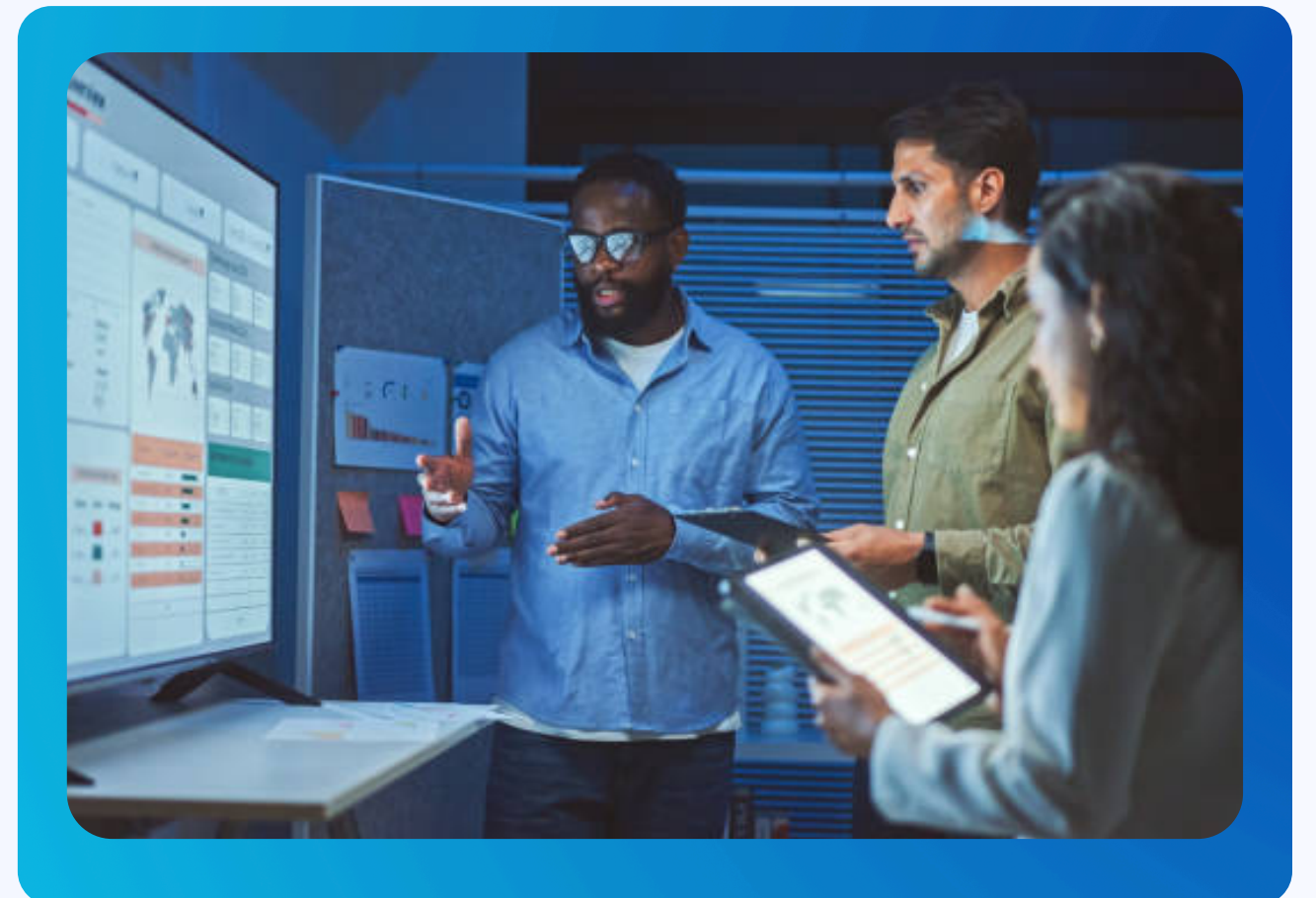
Company Name: New Vision Institute of Technology

Meeting Agenda

- Executive Summary
- Cost Savings Analysis
- Key Findings
- Optimization Strategies Implemented
- Case Study: Sample Client Savings Impact
- Business Impact
- Conclusion & Next Steps

Executive Summary

This report presents a detailed analysis of AWS EC2 and RDS cost optimization strategies for March 2024. Using JerichoAI's advanced analytics engine, we identified inefficiencies in cloud resource consumption and provided actionable recommendations to optimize costs while maintaining performance.

Key Highlights of the Analysis:

- **Comprehensive EC2 & RDS Review**: Evaluated multiple AWS instances to identify underutilized or overprovisioned resources.
- **Strategic Cost-Saving Measures**: Implemented rightsizing, reserved instance adoption, and workload reallocation to achieve significant savings.
- **RDS Testing & Optimization:** Analyzed database instance performance and identified an opportunity to reduce costs by 50% through instance resizing.
- **Projected Cost Reductions:** Businesses implementing these recommendations could achieve total savings of up to 85%, significantly lowering cloud expenditures.
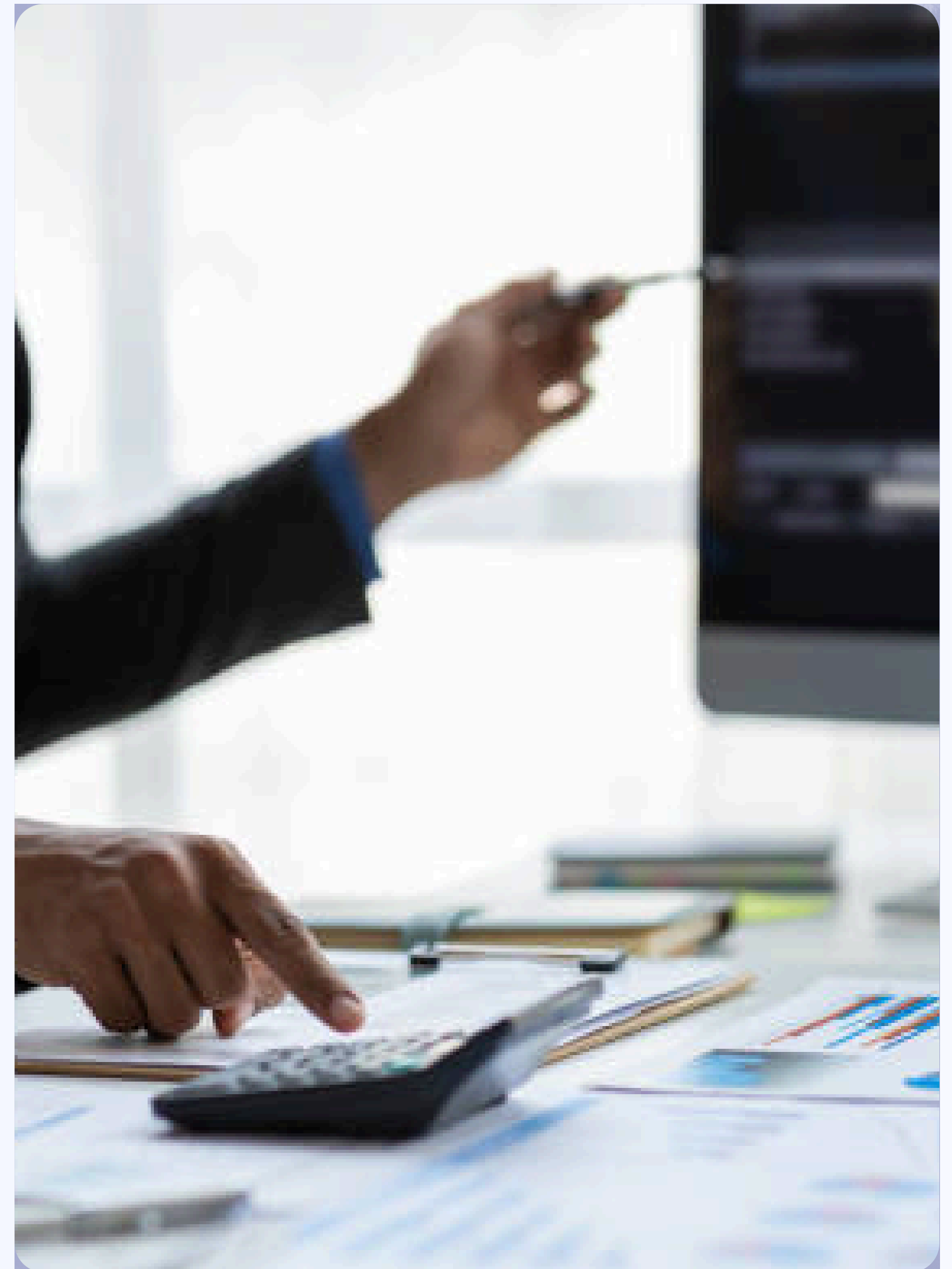
Cost Savings Analysis

Using JerichoAI's advanced AI-powered analytics, we evaluated EC2 and RDS usage patterns and identified instances that were either underutilized or overprovisioned. Our cost-saving recommendations included rightsizing, instance type adjustments, and reserved instance optimizations.

Key Findings per month:

- Total Potential Savings:
  - **EC2 – (Reserved & Downsizing)**
    - $456.98 & $190.33
  - **RDS – (Reserved & Downsizing)**
    - $175.2 & $94.42

- Percentage Cost Reduction:
  - EC2 – 90%
  - RDS – 50%
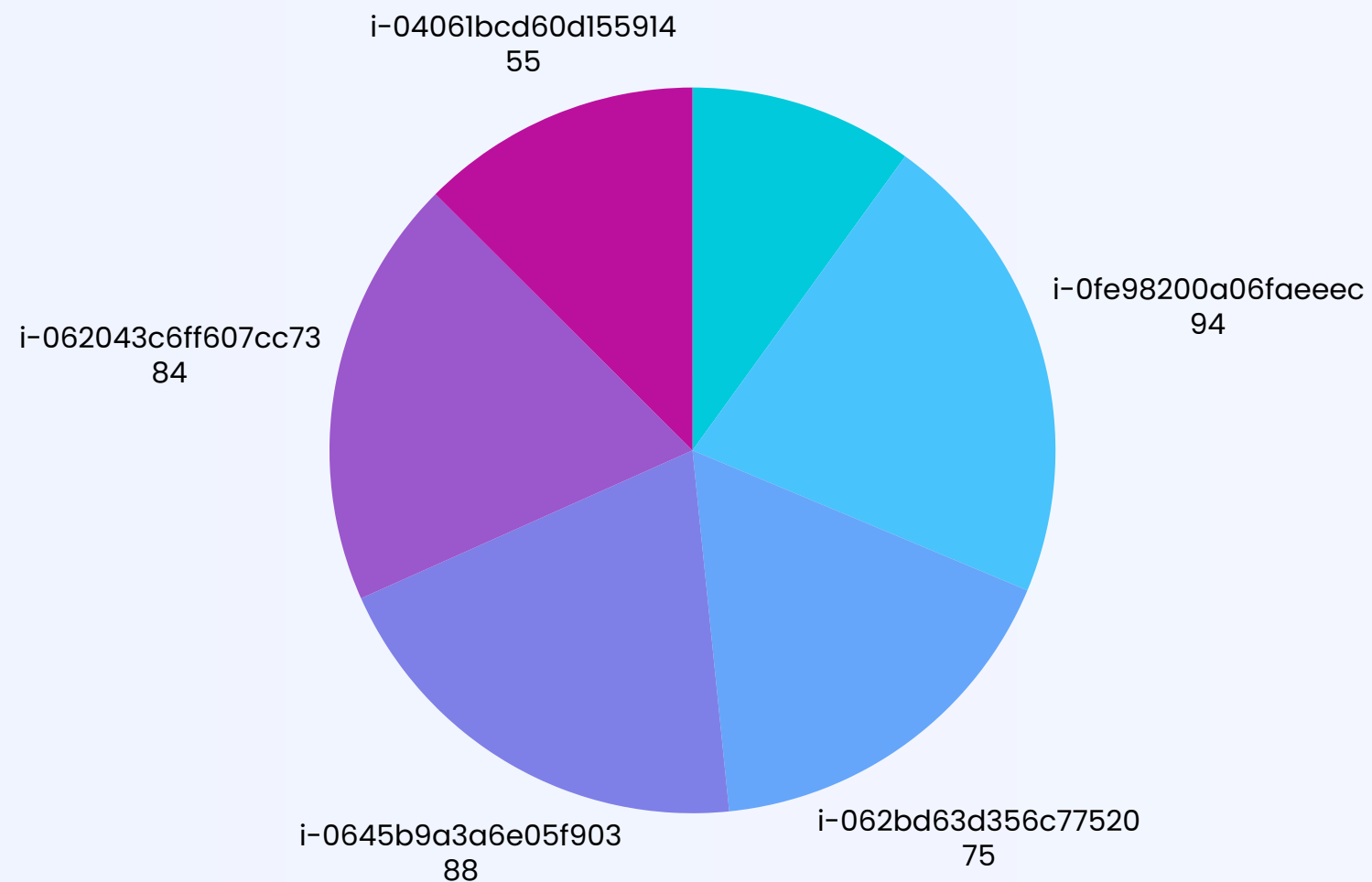
- Number of Instances Optimized:
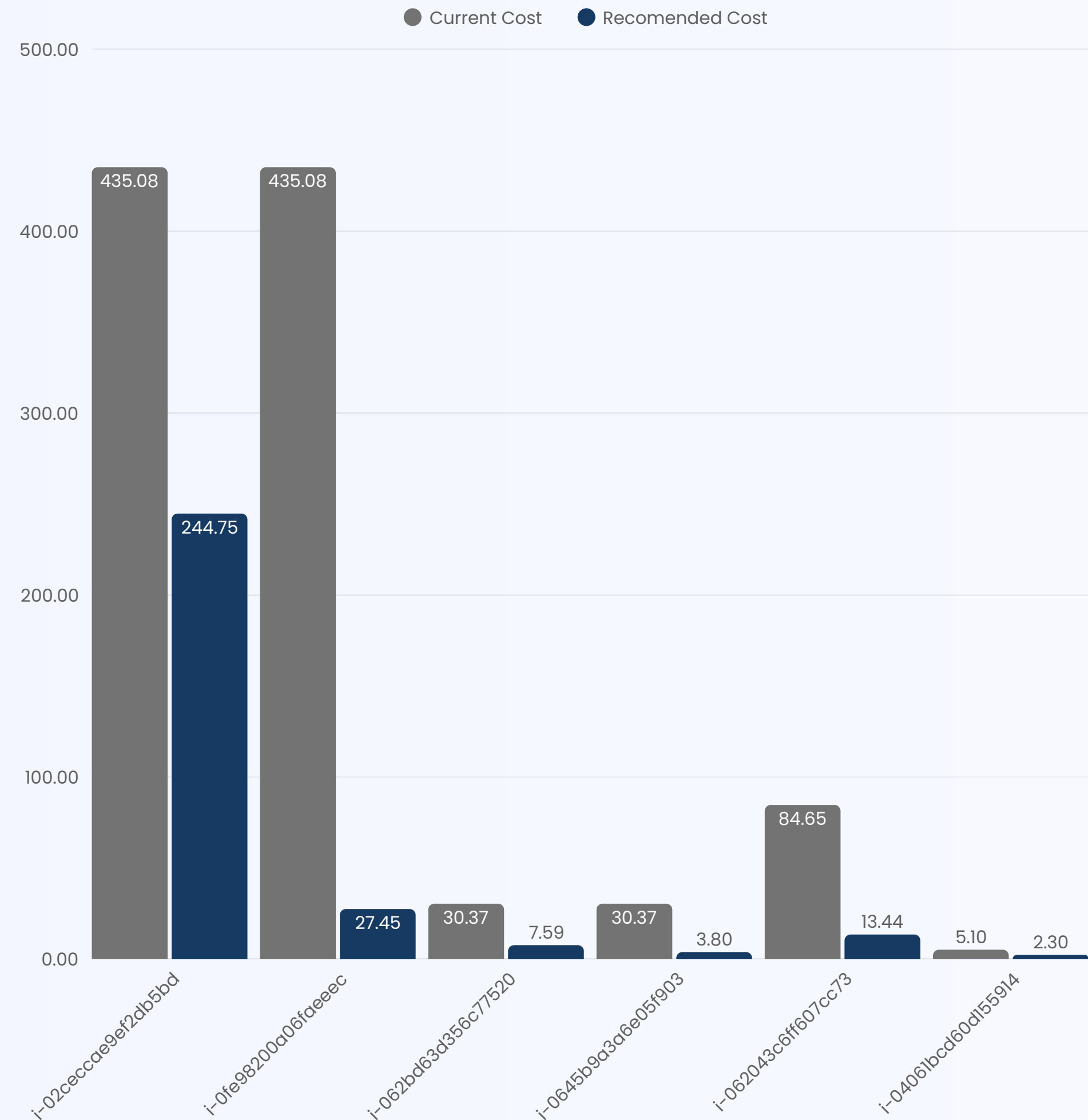 - EC2 – 6
  - RDS – 1

Key Findings – EC2

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Recommendations

- **i-02ceccae9ef2db5bd –** r5n.2xlarge – r5n.2xlarge on reserved
- **i-0fe98200a06faeeec –** r5n.2xlarge – t3a.medium
- **i-062bd63d356c77520 –** t3.medium – t3.micro
- **i-0645b9a3a6e05f903 –** t3.medium – t3.nano
- **i-062043c6ff607cc73 –** t2.2xlarge – t3.medium
- **i-04061bcd60d155914 –** t3.small – t3.micro

Savings % across each Instance

i-04061bcd60d155914
55

i-0fe98200a06faeeec
94

i-062bd63d356c77520
75

i-0645b9a3a6e05f903
88

i-062043c6ff607cc73
84

Current vs Recommended Monthly Costs for each Instances in EC2.

● Current Cost   ● Recomended Cost

Instance	Current Cost	Recomended Cost
i-02ceccae9ef2db5bd	435.08	244.75
i-0fe98200a06faeeec	435.08	27.45
i-062bd63d356c77520	30.37	7.59
i-0645b9a3a6e05f903	30.37	3.80
i-062043c6ff607cc73	84.65	13.44
i-04061bcd60d155914	5.10	2.30

Key Findings - RDS

Recommendations

- **arn:aws:rds:us-east-1:420164301218:db:ict01 –** db.r5.xlarge - db.r5.large

Savings % across each Instance

arn:aws:rds:us-east-1:420164301218:db:ict01
50

● Current Cost ● Recomended Cost ● Reserved Cost

400.00

350.40

300.00

200.00

175.20

100.00

94.42

0.00
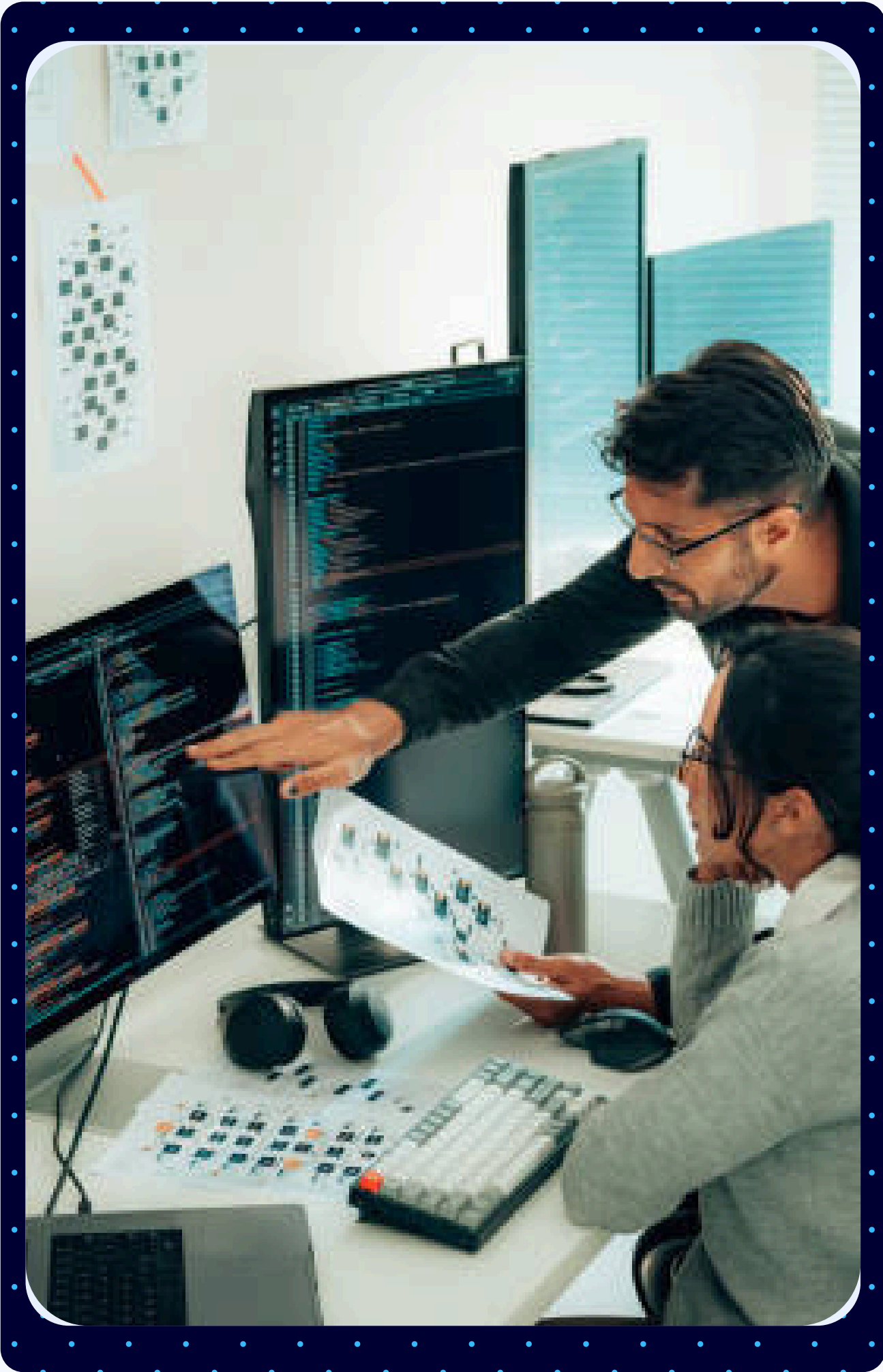
arn:aws:rds:us-east-1:420164301218:db:ict01

Current vs Recommended Monthly Costs vs Reserved for each Instances in RDS.

12 Months Cost Savings - **RDS**

$4204.8

$2102.4

$2102.4

Current Cost

Recommended Cost

Recommended Savings

50% Saved

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Optimization Strategies Implemented:

- Rightsizing: Adjusting instance sizes to match actual workload requirements.

- Instance Type Recommendations: Moving workloads to more cost-efficient instance types.

- Idle Resource Elimination: Shutting down or consolidating underutilized instances.

- Reserved Instance Utilization: Shifting from on-demand to reserved pricing models for predictable workloads.

- Spot Instance Adoption: Leveraging spot instances where applicable to reduce costs.

Case Study: Sample Client Savings Impact

For this specific client, JerichoAI's optimization recommendations led to a cost reduction of 90% for EC2 (Reserved & Downsizing), saving approximately $456.98 per month, and 50% for RDS (Reserved & Downsizing), saving approximately $175.20 per month, while maintaining performance levels.

Business Impact

By leveraging JerichoAI's AI-driven insights, businesses can:

- Reduce cloud expenses by 30-85%.
- Improve resource efficiency without compromising performance.
- Gain proactive anomaly detection to prevent budget overruns.
- Automate cost management for long-term savings.

Conclusion & Next Steps

JerichoAI's AI-powered cloud cost optimization provides businesses with data-driven savings opportunities across EC2, RDS, and all cloud components. We recommend implementing these optimizations across all applicable resources and monitoring cost trends using JerichoAI's analytics dashboard.
For further assistance in optimizing your cloud costs, contact JerichoAI's expert team.

Get Early Access

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