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EMBASSY OF ISRAEL
SINGAPORE

Welcome to SBF Global's

LIVE FROM ISRAEL: How to Unlock New Bandwidth with Cloud Optimization

3 August 2021, Tuesday | 3.00 - 4.00 pm (SG-time)



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PARTICIPATING COMPANIES



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COURTESY POINTS



**By default, you would be muted when you joined the webinar .
Otherwise, please mute your microphone throughout the session.**



**Have a question? Type your questions into the Question & Answer
Panel and we will read it out later or contact you after the webinar.**

PROGRAMME LINE UP

3.00 - 3.10 pm

Welcome Remarks by Embassy of Israel in Singapore

H.E. Sagi Karni, Ambassador

3.10 - 3.20 pm

Singapore Cloud Framework

Mr. Raju Chellam, Fellow, Singapore
Computer Society

3.20 - 3.30 pm

Tech Showcase by Coralogix

Lior Redlus, Co-Founder and Head of
Solution Engineering

3.30 - 3.40 pm

Tech Showcase by Granulate

Asaf Ezra, Co-Founder & CEO

3.40 - 3.50 pm

Tech Showcase by Spot

Michael Nassie, Sales Territory Manager,
APAC

3.50 - 4.00 pm

Questions and Answers

Learn with us

- About markets
- About new customers
- About Free Trade Agreements

Because knowledge is power.

Land with us

- Dedicated digital spaces
- Established networks
- Hands-on advice and facilitation

Scale and grow *smartly*.

Localise with us

- Trusted relationships abroad
- Deepen market presence
- Secure long-term sustainability

Because network is net worth.

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<https://globalconnect.sbf.org.sg/>

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Welcome Remarks
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Singapore Cloud Framework by
**Mr. Raju Chellam, Fellow, Singapore
Computer Society**

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Singapore Cloud Framework

Raju Chellam
Aug 03, 2021

The Agenda

A: Apps

B: Business

C: Commercial

D: Digital Natives

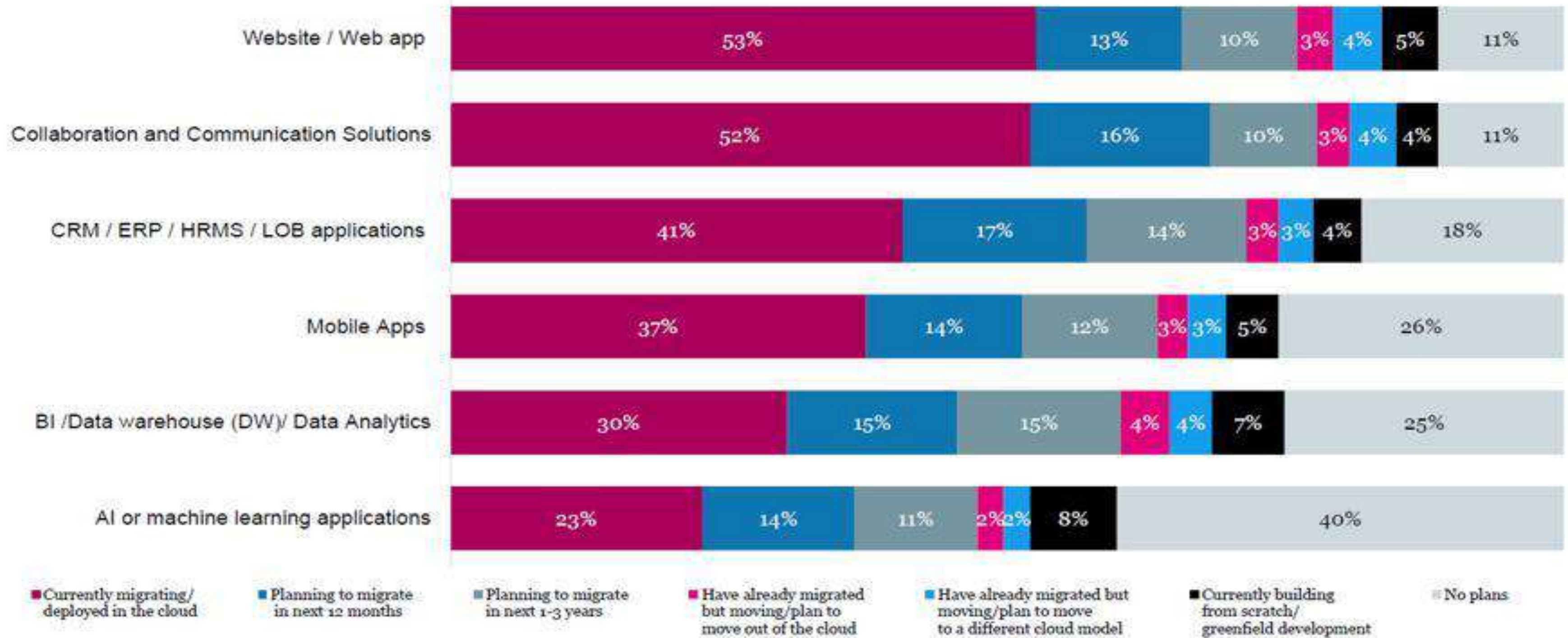
E: Enhanced PDPA

F: Final Slides

Speaker Profile:

- **Chair: ITSC Cloud & Data**
- **Chief Editor: AI Ethics BoK**
- **VPres: SCS Cloud Chapter**
- **Author: Organ Gold
(Dark Web)**

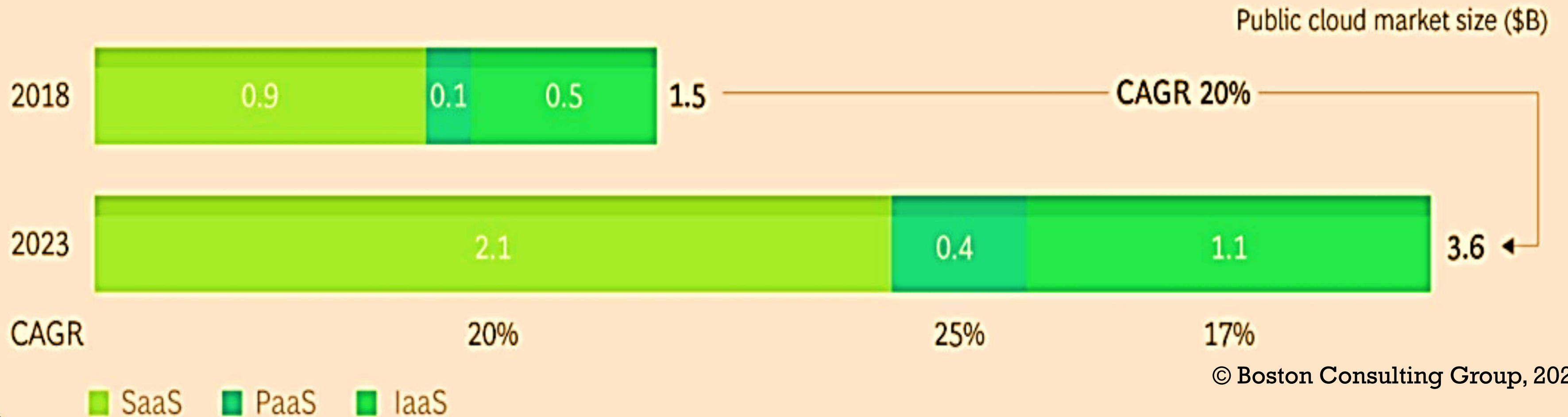
Top Applications in the Cloud



Q. Please use the scale below to describe your organization's plans for building, employing, or migrating each of the following types of applications/workloads.

B: Business

EXHIBIT 23 | Market overview: Public cloud market in Singapore is expected to grow from \$1.5B to \$3.6B at a CAGR of 20% over 2018-23



BCG: “Most large enterprises @SG have begun to use some form of cloud storage or computing. SG enterprises starting to tap into more advanced use cases such as AI & ML. SaaS model currently has 45% share, but PaaS is the fastest-growing segment (25% CAGR→2023).”

C: Cybersecurity

Biggest Global Risks

Environmental dangers dominate the WEF's survey for 2019

Environmental Technological Societal Geopolitical



Source: World Economic Forum Global Risks Report

Bloomberg

D: Digital Natives



SMEs GO DIGITAL

3 STEPS TO GO DIGITAL

Support available

- Pre-Approved Solutions
- Start Digital Pack
- Grow Digital
- Consultancy Services (SME Digital Tech Hub)
- Government Grants (e.g. Productivity Solutions Grant (PSG); SkillsFuture Enterprise Credit (SFEC))
- Digital Resilience Bonus
- Advanced Digital Solutions

1

Is your business digital-ready?

Find out using the Industry Digital Plan (IDP) for your sector.

2

How do you get started?

Take up pre-approved solutions with grant support.

3

Where can you get help?

Contact your nearest SME Centre for support.

SMEs are at the heart of S'pore's economy.

SMEs employ 66% of S'pore's workforce & contribute ~50% of S'pore's GDP.

With digital tech transforming every sector, it is imp to ensure SMEs make the most of digital tech to boost ops & generate new revenue.

(details @IMDA)

E: Enhanced PDPA

TRUSTED DATA SHARING FRAMEWORK

SG:D
EMPOWERING POSSIBILITIES

IM INFOCOMM
MEDIA
DEVELOPMENT
AUTHORITY

pdpc PERSONAL DATA
PROTECTION COMMISSION
SINGAPORE

Enhanced PDPA for Businesses

The enhanced PDPA is part of ongoing efforts to enhance protection of personal data while supporting organisations to thrive amidst new technology, business models and global developments in the digital economy.

This Framework is intended for use in the commercial and non-governmental sectors but excludes data sharing in or with the public sector.

Ensure all employees are aware of PDPA requirements and properly trained in personal data protection.

F: Final Slide



TR 62 : 2018
(ICS 35.020; 35.210)

TECHNICAL REFERENCE

**Guidelines for cloud outage incident response
(COIR)**

Published by
**Enterprise
Singapore**

**Two
Sides
of the
Cloud
Coin**



SS 584 : 2013
(ICS 35.020; 35.040; 35.240.01)

SINGAPORE STANDARD

**Specification for multi-tiered cloud
computing security**

Published by
SPRING
singapore
Enabling Enterprise

Thank You

rajuchell@
protonmail.com

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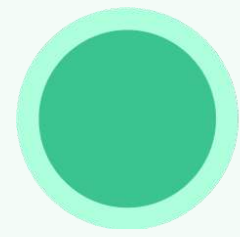


Tech Showcase by Coralogix
**Lior Redlus, Co-Founder and Head of
Solution Engineering**

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Coralogix

Stateful Streaming Analytics Platform for Logs, Metrics, and Security Data

Modern observability with no reliance on storage or indexing



Lior Redlus

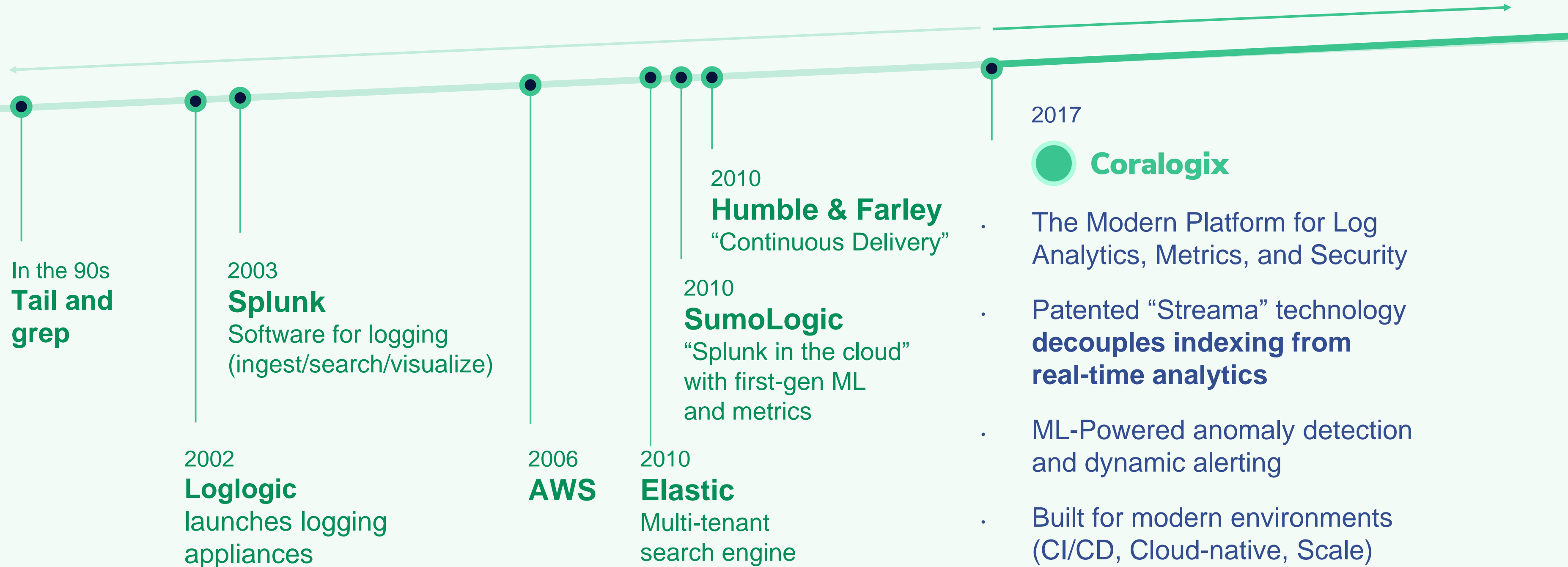
Co-founder & Head of Solution
Engineering
Coralogix
lior@coralogix.com



A Brief History of Logging and Observability

Legacy Solutions are reactive—
Ingest, Index, then Analyze

Modern Observability is proactive —
Ingest, Analyze, then Index



Legacy Solutions

- **Store logs as unstructured system data**
High storage costs and overages
- **Analyze data once it's been indexed**
Reactive, manual alerting; Slow MTTI/MTTR
- **Data streams are unpredictable**
Data loss/throttling when quotas are exceeded
- **Built for legacy architecture and workflows**
Incompatibility with modern CI/CD pipelines
- **Use proprietary search languages**
Vendor lock-in, requires full-time SME

Coralogix

Modern Observability

- **Triages and prioritizes data before indexing**
Full data coverage & up to 70% storage savings
- **Analyzes data in real time using ML**
Proactive monitoring; Reduced MTTD/MTTR
- **Auto-scales to meet your needs**
No overages, throttling or data loss EVER
- **Born in the cloud, built for CI/CD**
Proactive monitoring and feedback loops
- **Uses OSS syntax known by most engineers**
No vendor lock-in, no SME required

Secure by Design

Coralogix is fully compliant with the highest standards of privacy and security and provides multiple geographic data centers for compatibility with various local privacy laws.



The Coralogix Platform

Full Observability to Build, Run, and Secure Modern Applications & Infrastructures



Log Analysis

Analyze, monitor, and visualize your log data before indexing for proactive insights with no coverage or cost limitations.



Metrics

Track, visualize, and alert on all system metrics, with unlimited cardinality and labeling for no extra cost.



Security

Fully secure your cloud environments within minutes. Easy to set up, no need for data standardization, no coverage uncertainty.

We Work the Way You Work

Code Libraries



Python



Java



.Net

Log Shipper



logstash



Fluentd



Filebeat

CI/CD



Jenkins



Circle CI



GitHub

Cloud Providers



AWS



Azure



GCP

Containerization

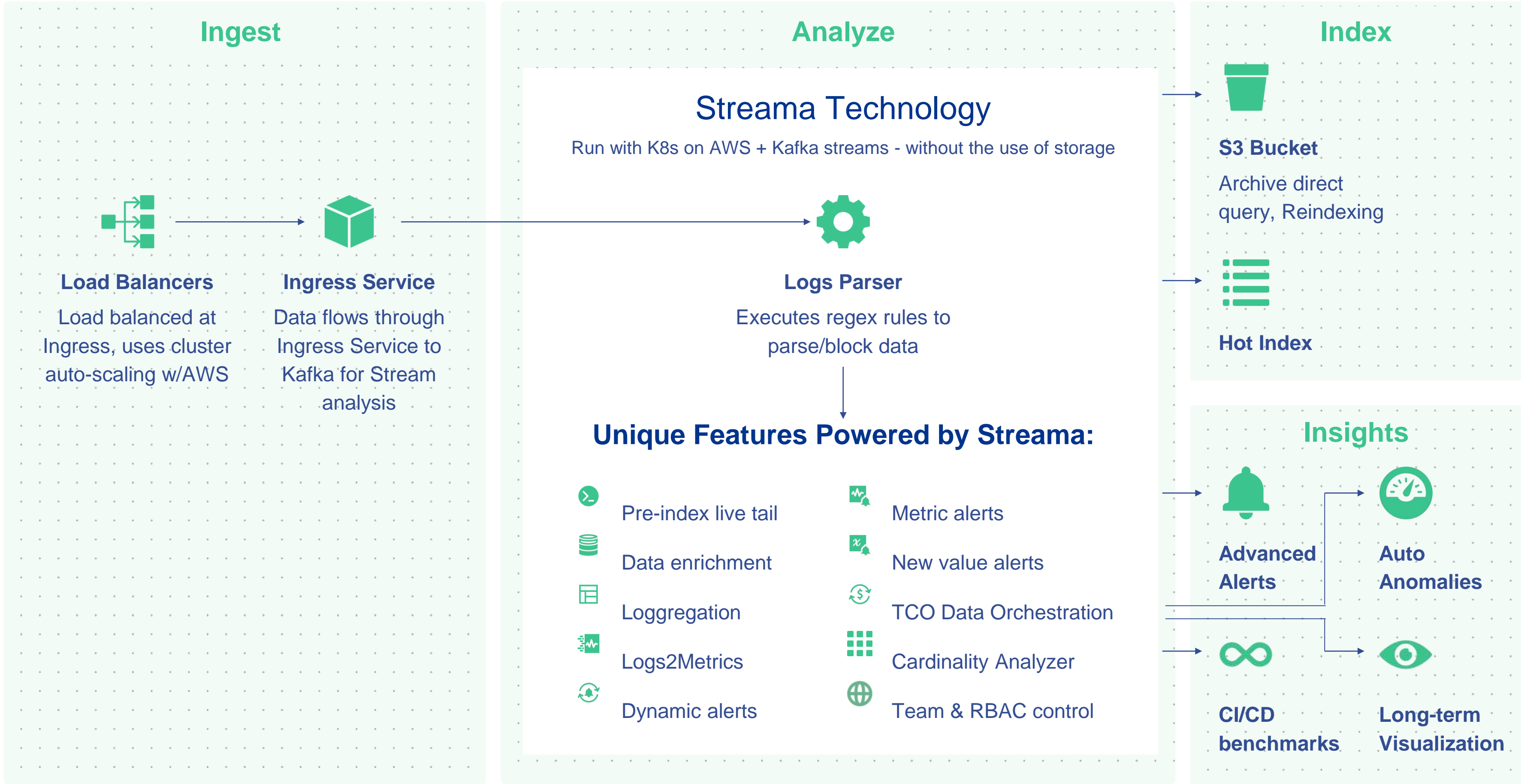


Docker



Kubernetes

And Many More...

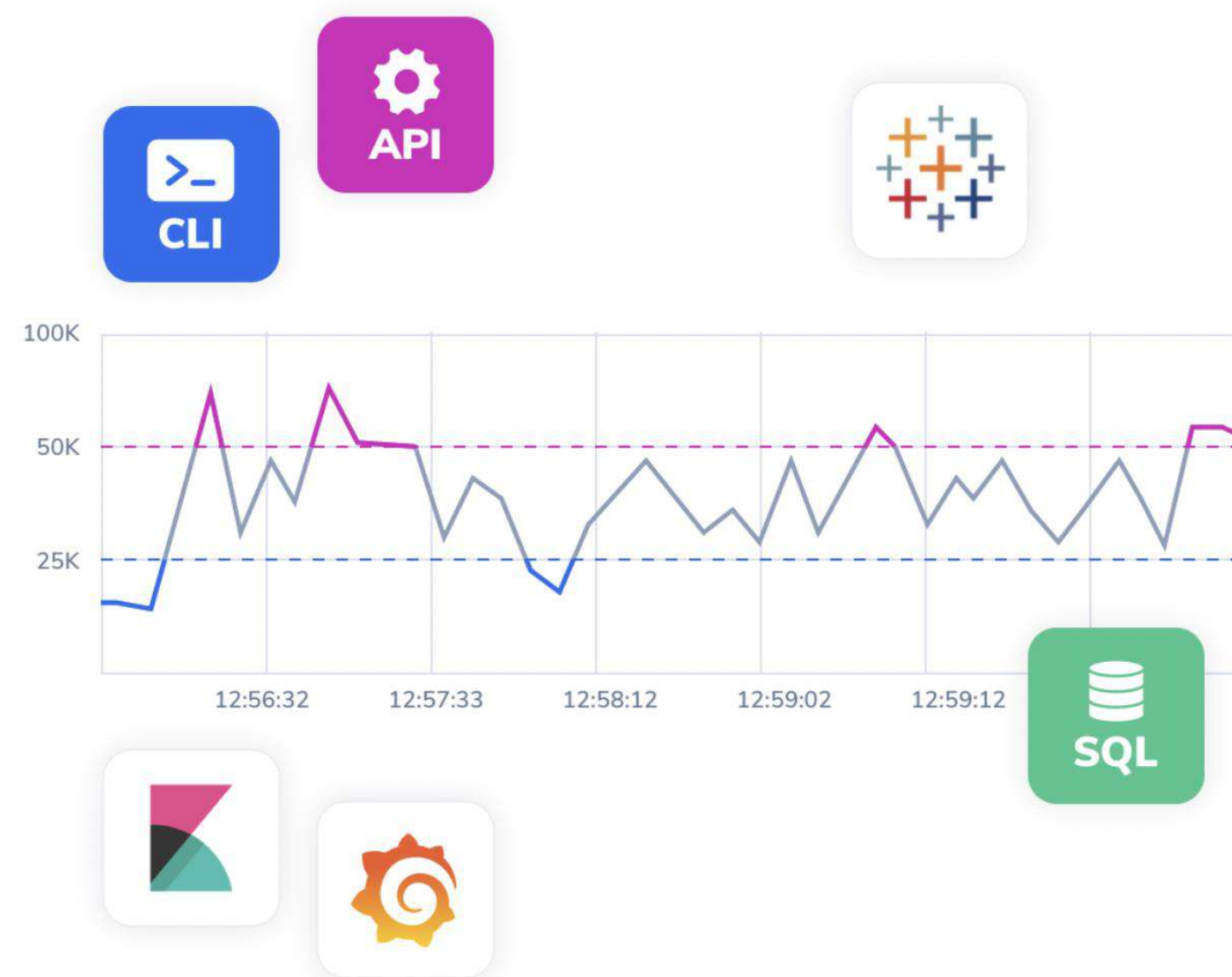


Any data, Any dashboard, Any syntax

Not a data warehouse, a data platform

Connect any data, in any format, and view anywhere including our purpose-built UI, Kibana, Grafana, SQL clients, Tableau, or using our CLI and full API support.

Avoid vendor lock-in, and streamline setup and adoption in your organization.



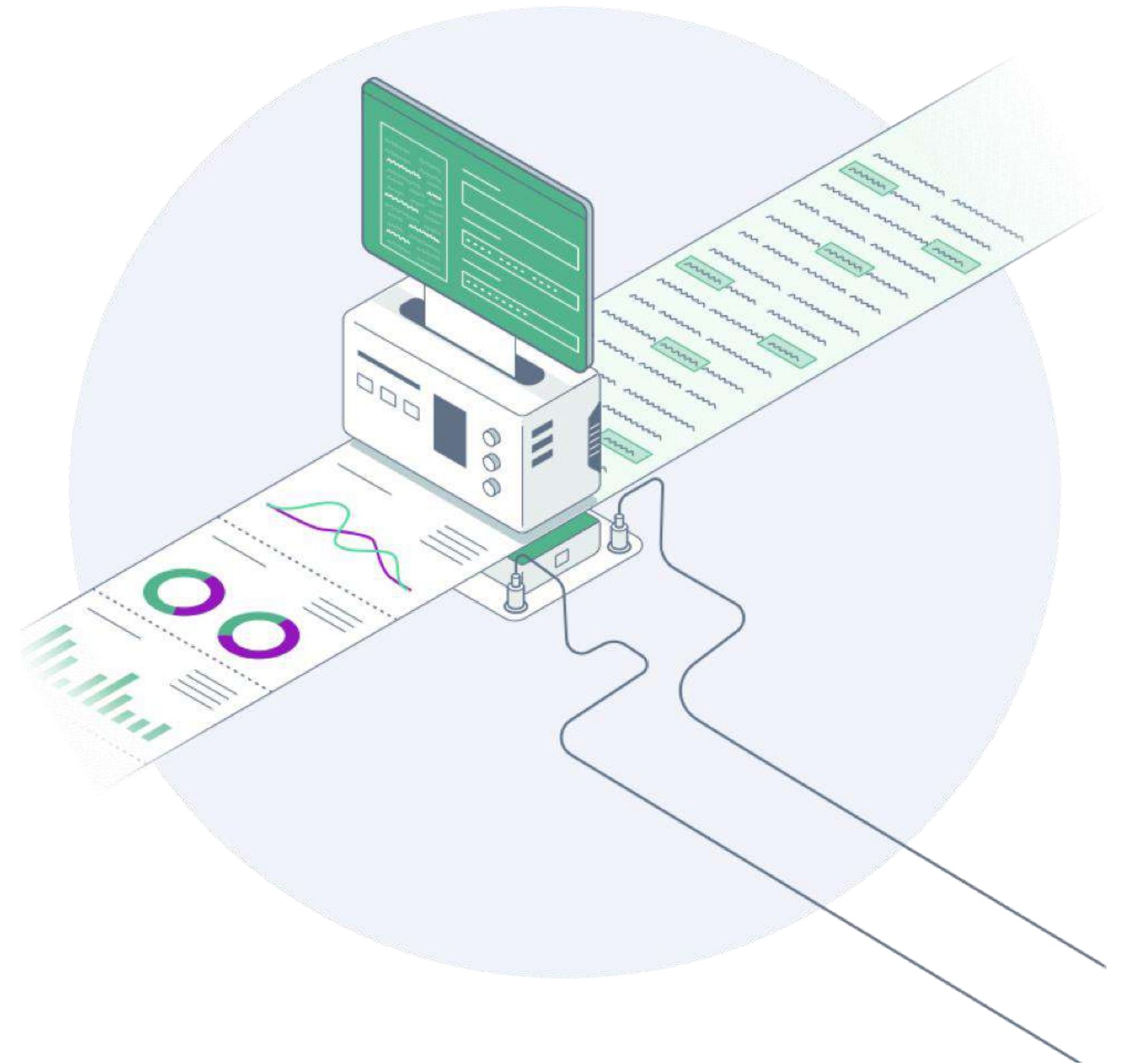
Use-cases



Log Analysis & Monitoring

Analyze, monitor, and visualize your log data before indexing for proactive insights with no coverage or cost limitations.

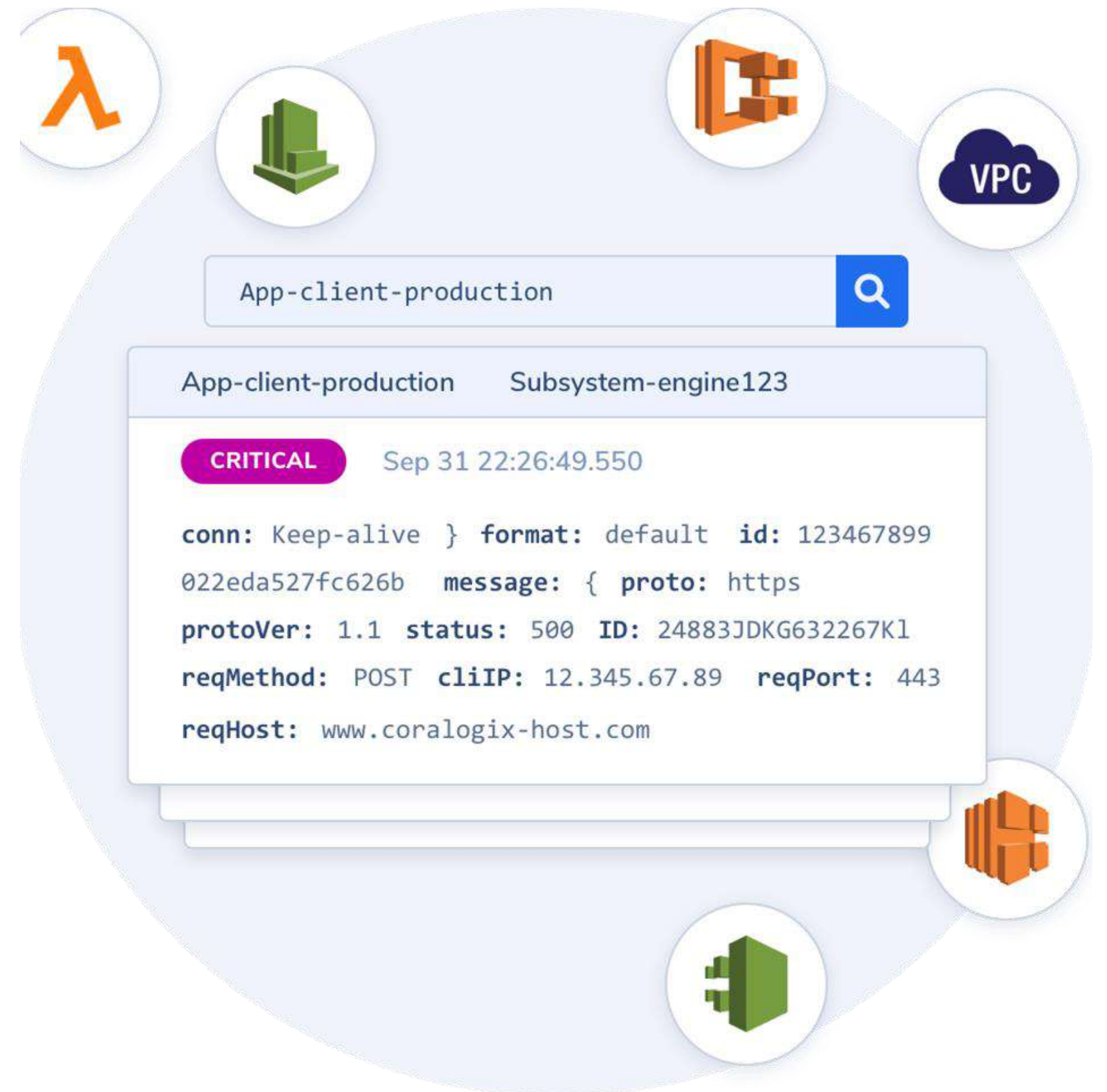
- Auto-parsing
- Live tail
- Log clustering
- Anomaly detection
- Dynamic ML-alerts



AWS Observability

Analyze, monitor, and visualize all AWS data with direct integrations to all major AWS technologies.

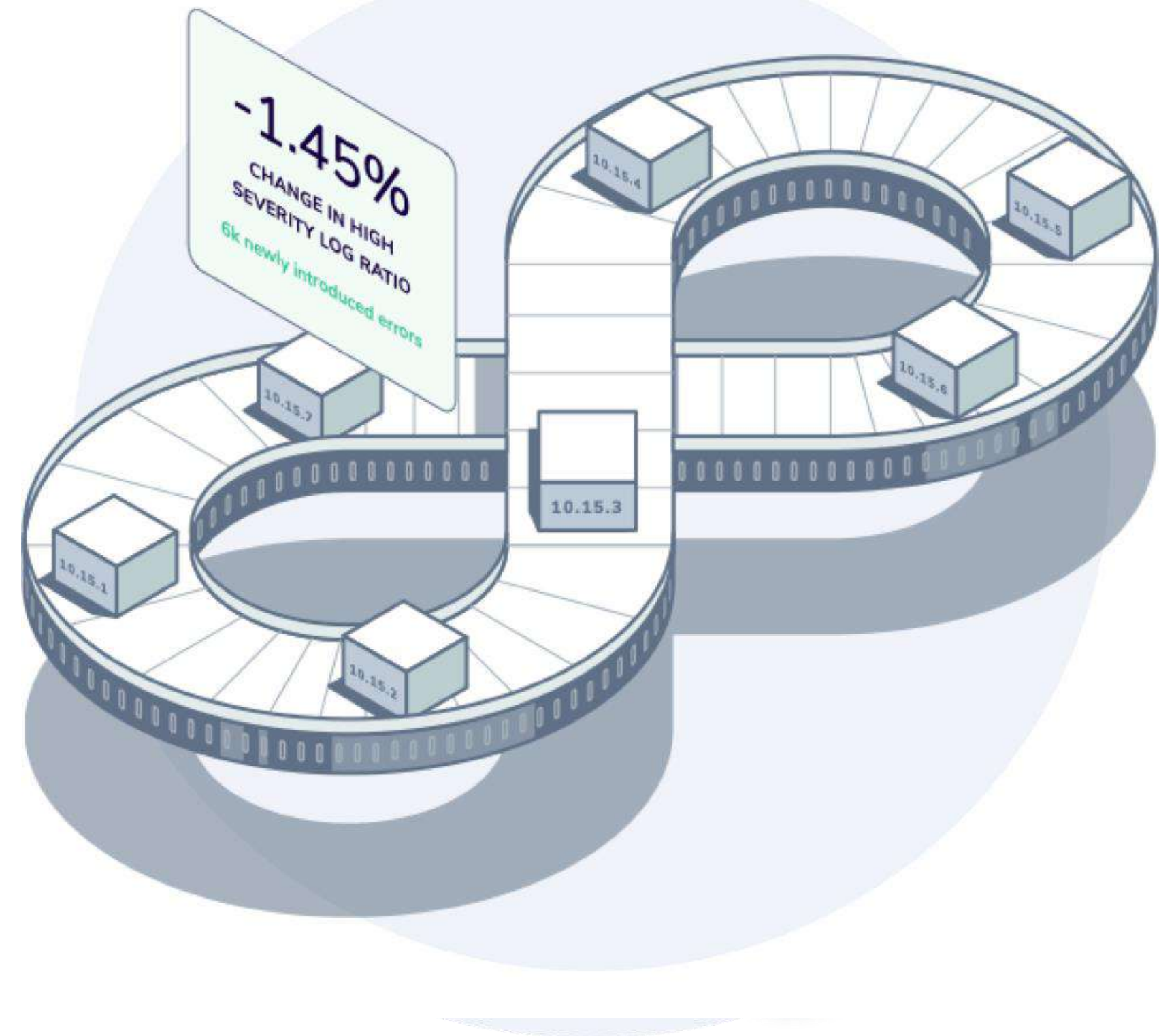
- Centralized data collection
- 3-Click cloud security
- AWS Advanced Technology Partner
- Certified Marketplace Listing
- AWS Serverless App Repo



CI/CD Acceleration

Correlate real-time insights with specific releases without the restrictive costs of other solutions.

- Centralized data collection
- Data clustering
- Version benchmarking
- Dynamic alerting
- Auto-scaling



Homegrown Alternative

Fully managed observability platform that scales effortlessly and comes with advanced, out-of-the-box features.

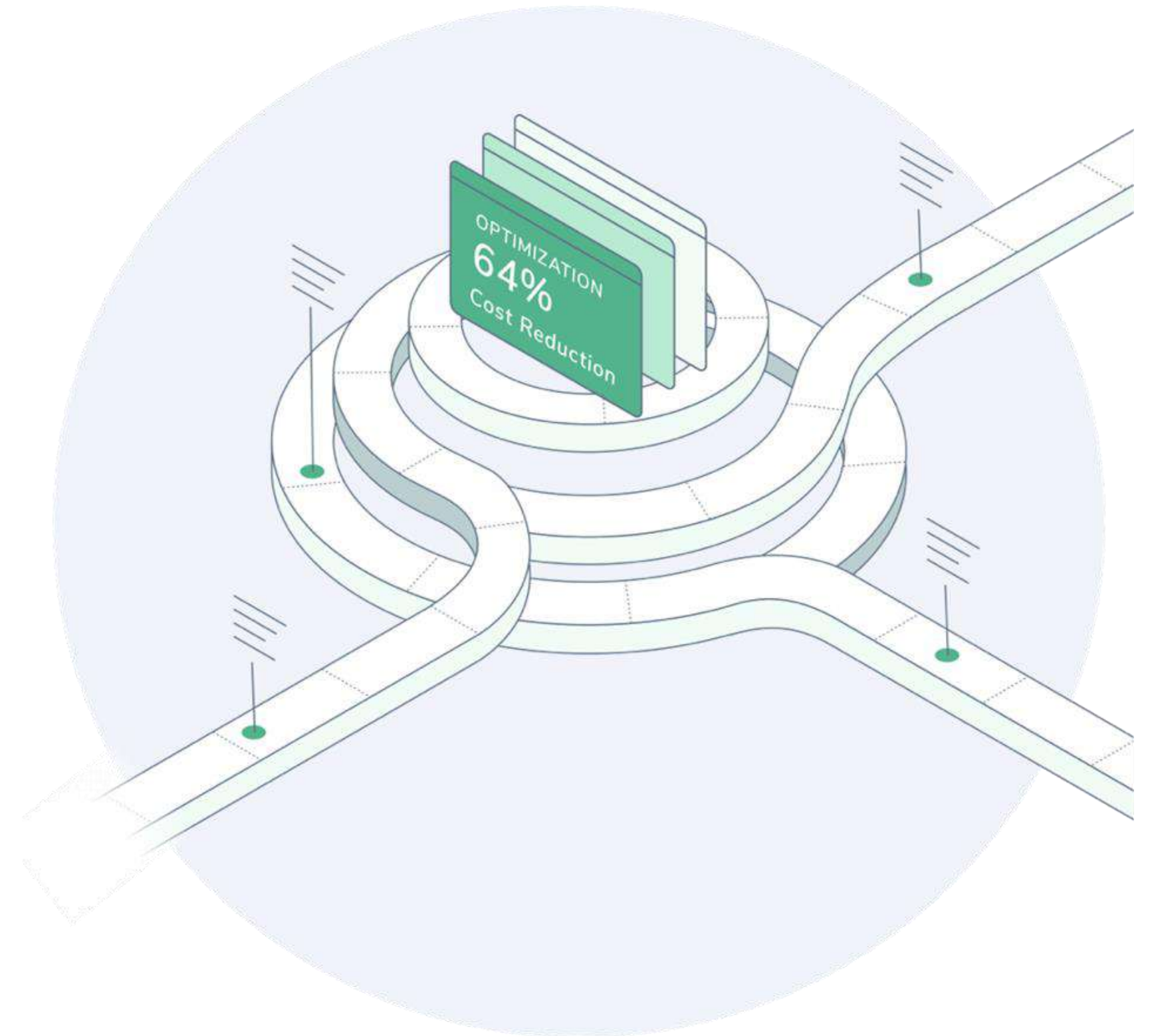
- Auto-parsing and data enrichment
- Live tail
- Data clustering
- ML-powered anomalies & alerts
- Direct archive query
- Version benchmarking
- No vendor lock-in
- 24/7 support



Cost (TCO) Optimization

Data prioritization before storing or indexing data reduces monitoring costs while simultaneously improving system visibility.

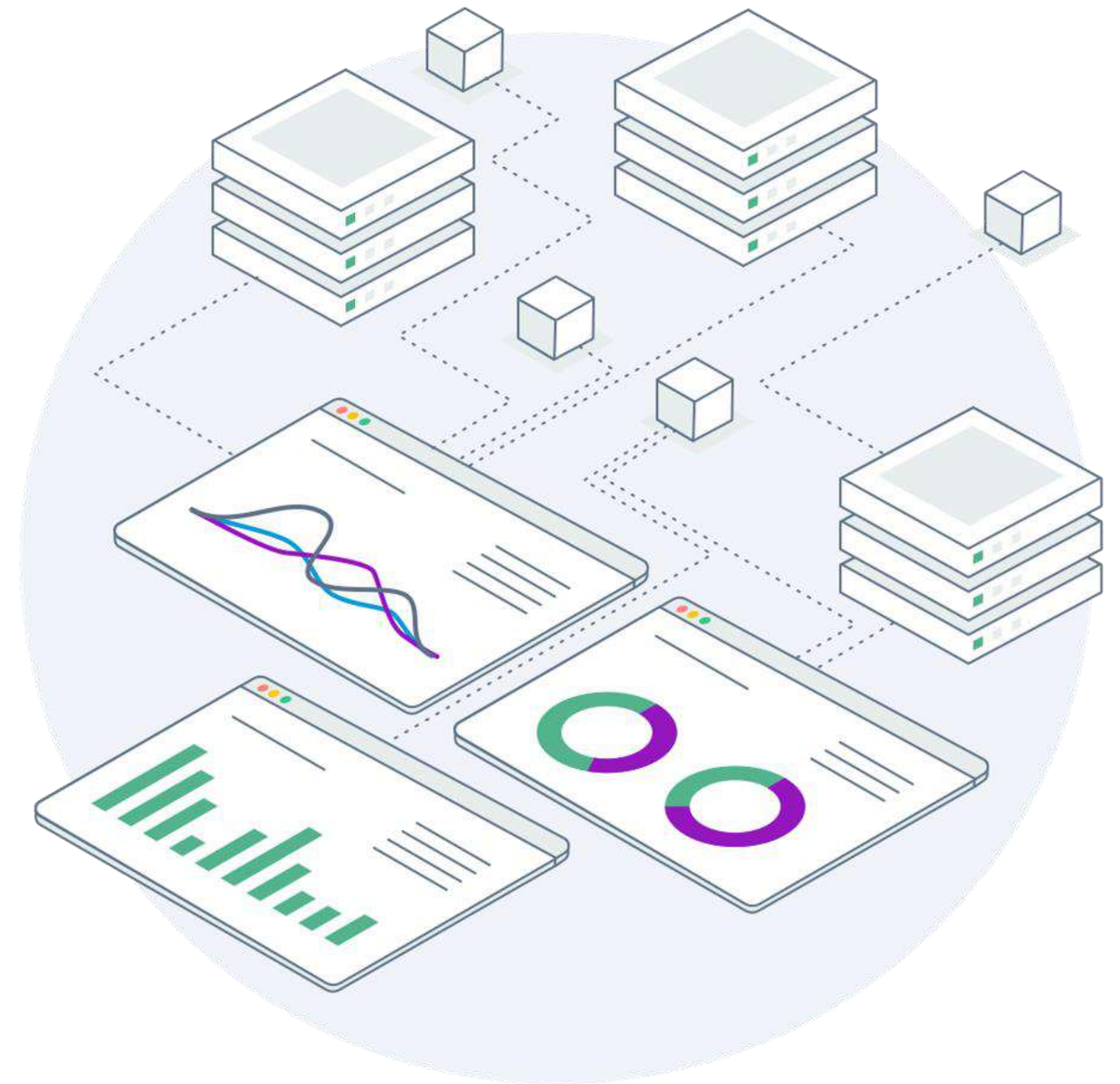
- All data analyzed before indexing
- Powered by Streama
- Prioritize data based on use case
- Full monitoring capabilities for archived data
- Direct archive query and reindexing
- Full feature access, always



Contextual Data Analysis

Get added context and deeper system observability by ingesting small pockets of data to be correlated with errors and system health metrics.

- Cloud availability reports
- Repository insights
- CI/CD events
- AWS SNS
- Alert aggregators
- Corporate chats
- 3rd party status pages
- Support platforms
- Security events



You're in Good Company



MONDAY.COM - JOURNEY TO MODERN OBSERVABILITY



“Now, we can see the full picture from the applications to the logging systems without having to manage any of the complexity.”

– Ben Yitzhaki, Infrastructure Engineer

CLOUD-BASED WORK OS

CHALLENGES WITH TRADITIONAL LOGGING:

- No unified logging across systems
- Explosive system growth (3TB to 30TB log volume per month)

\$130M
ANNUAL
REVENUE

10X
LOG VOLUME
GROWTH

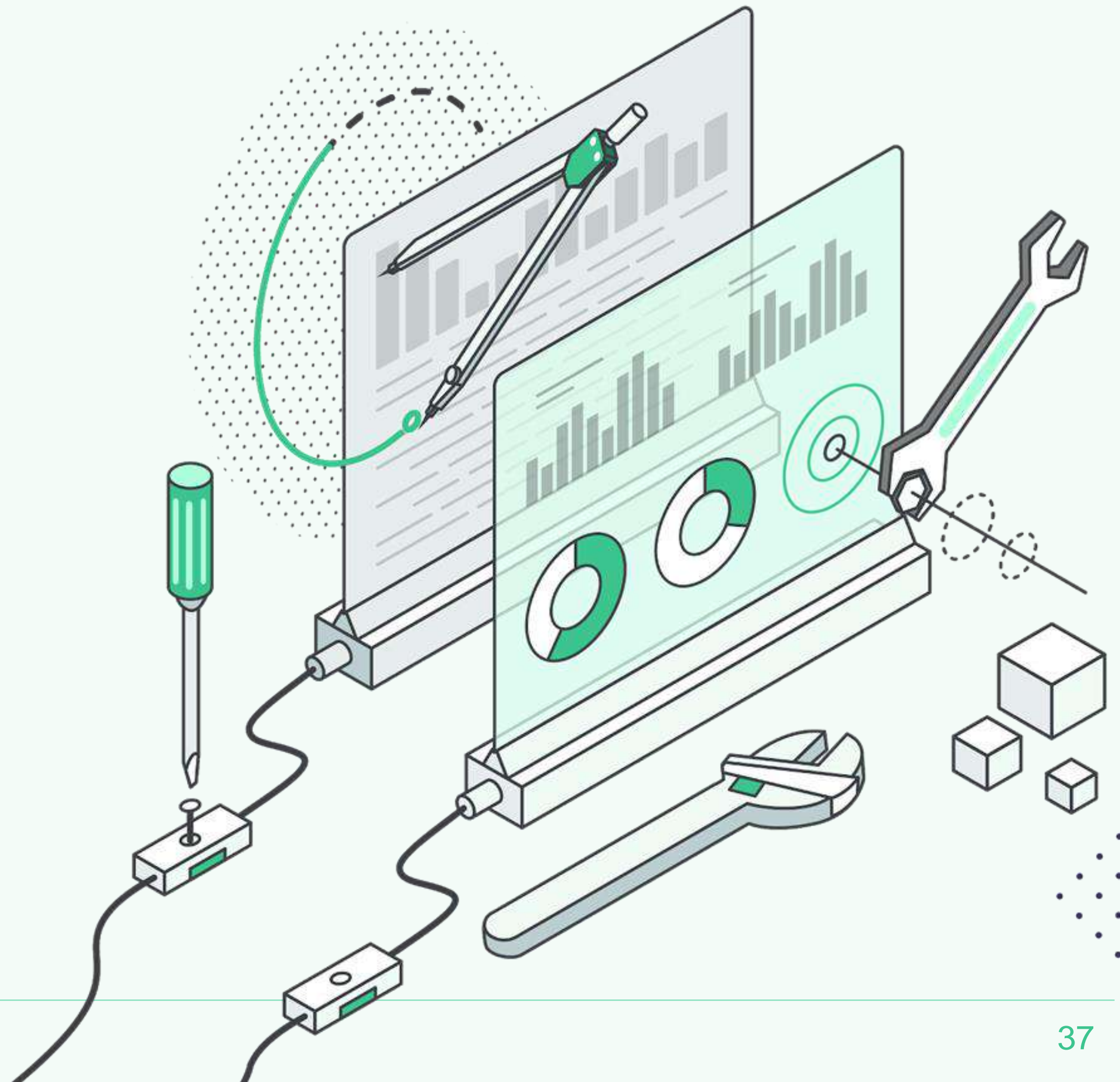
UNIFIED LOGGING WITH CORALOGIX:

- Integrated and achieved full coverage within 48 hours
- Immediate identification of 750 previously unknown issues
- Data normalization and log templating to enhance data value
- AWS Cloud Security implemented

60%
REDUCED
MTTR

\$100K
SAVED/YEAR

Questions?



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Tech Showcase by Granulate **Asaf Ezra, Co-Founder & CEO**

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GRANULATE

Real-time Continuous Optimization



Real-time Continuous Optimization

Improve Performance. Reduce Compute Costs.

Reduce
Costs by

60%

Reduce
Response Time
by

40%

Increase
Throughput

5X

Code
Changes

0

Organizations Face Difficulties Managing & Optimizing Infrastructure

**1 Million users,
all with unique requests**



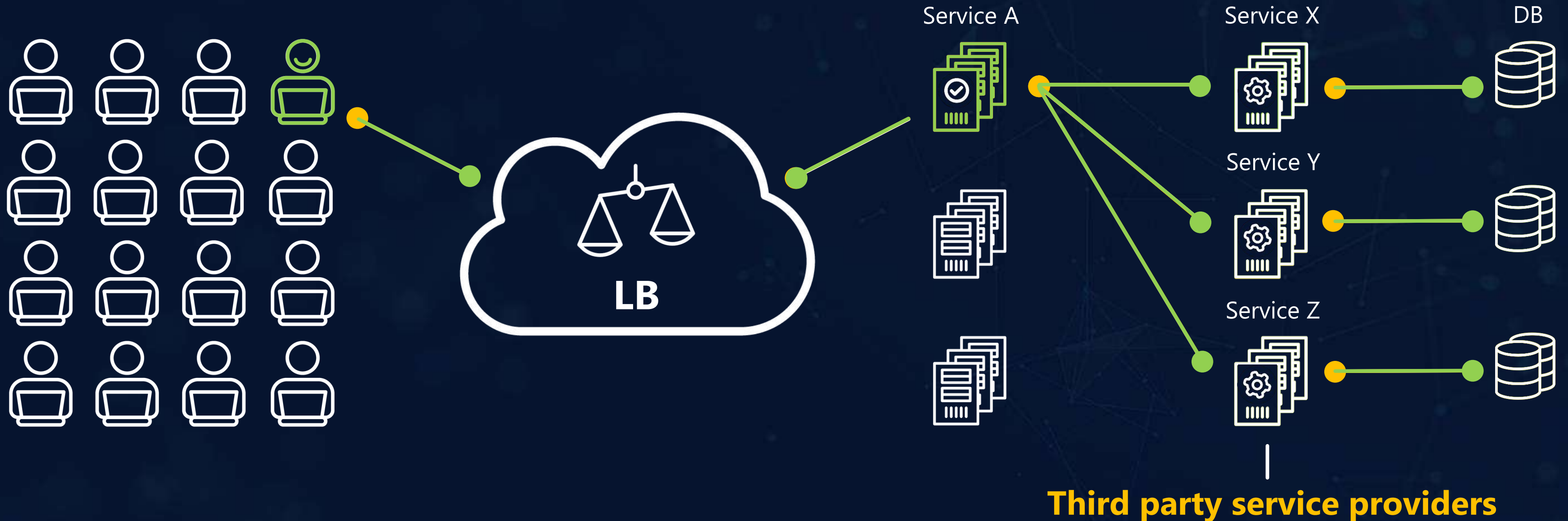
50-50,000 VMs

Third party service providers

Organizations Face Difficulties Managing & Optimizing Infrastructure

**1 Million users,
all with unique requests**

50-50,000 VMs



The Growing Infrastructure And Workload **Optimization Challenge**

Optimization At Scale Is **Highly Complex**



Technical Complexity

Requires deep performance expertise



Outside Core Business

Distraction from product & business logic



Dynamic Environments

Ever changing workload & resource consumption



Shared Responsibility

Responsibility shared between R&D & DevOps

Leading To **Unfulfilled Performance** Potential

2-5X

Untapped Performance

30% - 40%

Utilization

Tens Of Billions USD In Wasted Compute Costs Annually

Our Solution

Real-Time Continuous Optimization

1

Automatically Analyze

Granulate automatically learns your application specific resource usage patterns and data flow

2

Continuously Optimize

Granulate tailors OS-level scheduling and prioritization decisions regarding CPU, network, locks, and memory accesses



3

Improve Performance

Granulate reduces response time and increases throughput of every machine

4

Reduce Compute Costs

Leverage improved performance to reduce cluster size and downsize compute resources

The Secret Sauce

Granulate agents optimize performance continuously adapting to application workload -

- **Kernel Module** - resource allocation
- **Runtime Module** – application level improvements, without code changes or restart

OS Kernel

CPU Scheduling

Network

Memory

I/O



Customer Environment



GRANULATE

Is Infrastructure Agnostic and Integrates With All Architectures

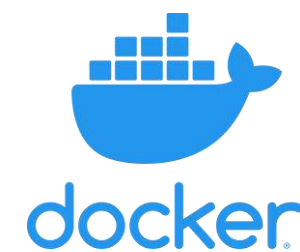
Hybrid, multi cloud and on prem



vmware



OPENSIFT



Completely Autonomous Optimization Of A Unique Focal Point Across The Tech Stack

Infrastructure Agnostic

- All Architectures
- All Environments



Simple Installation

- Single Command Line
- Start From A Single VM
- Completely Automated



Past Initiatives Agnostic

- Discount Purchasing
- Cloud Hygiene
- Rightsizing



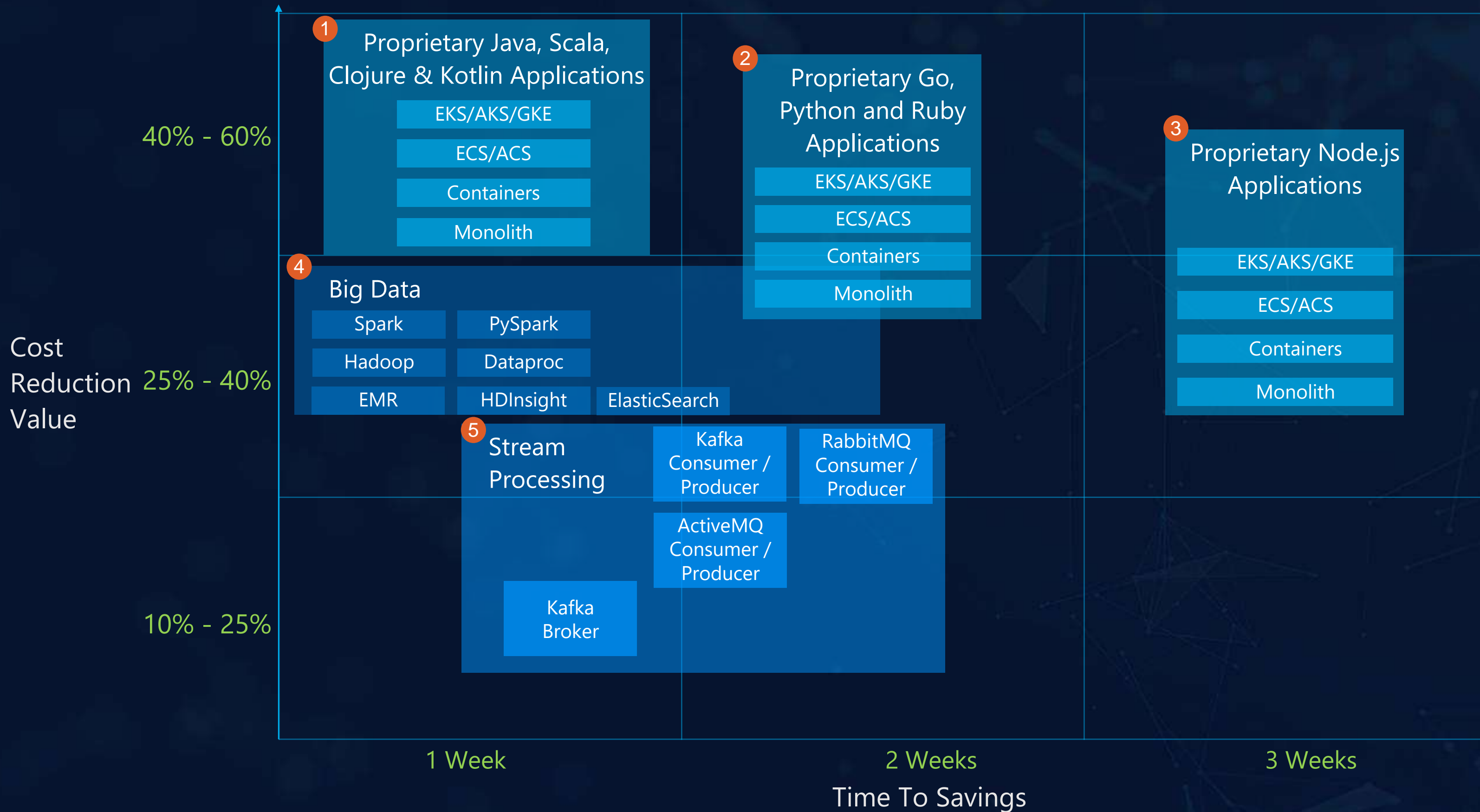
No R&D Efforts

- No Code Changes
- No Maintenance
- No Configuration



Quick Value - Cost Cutting And Better Performance Within 2 Weeks

Use Cases – Cost Reduction Optimization





Real Time Bidding

Reduced Compute Cost by **75%**

70%
Reduced P95 Latency

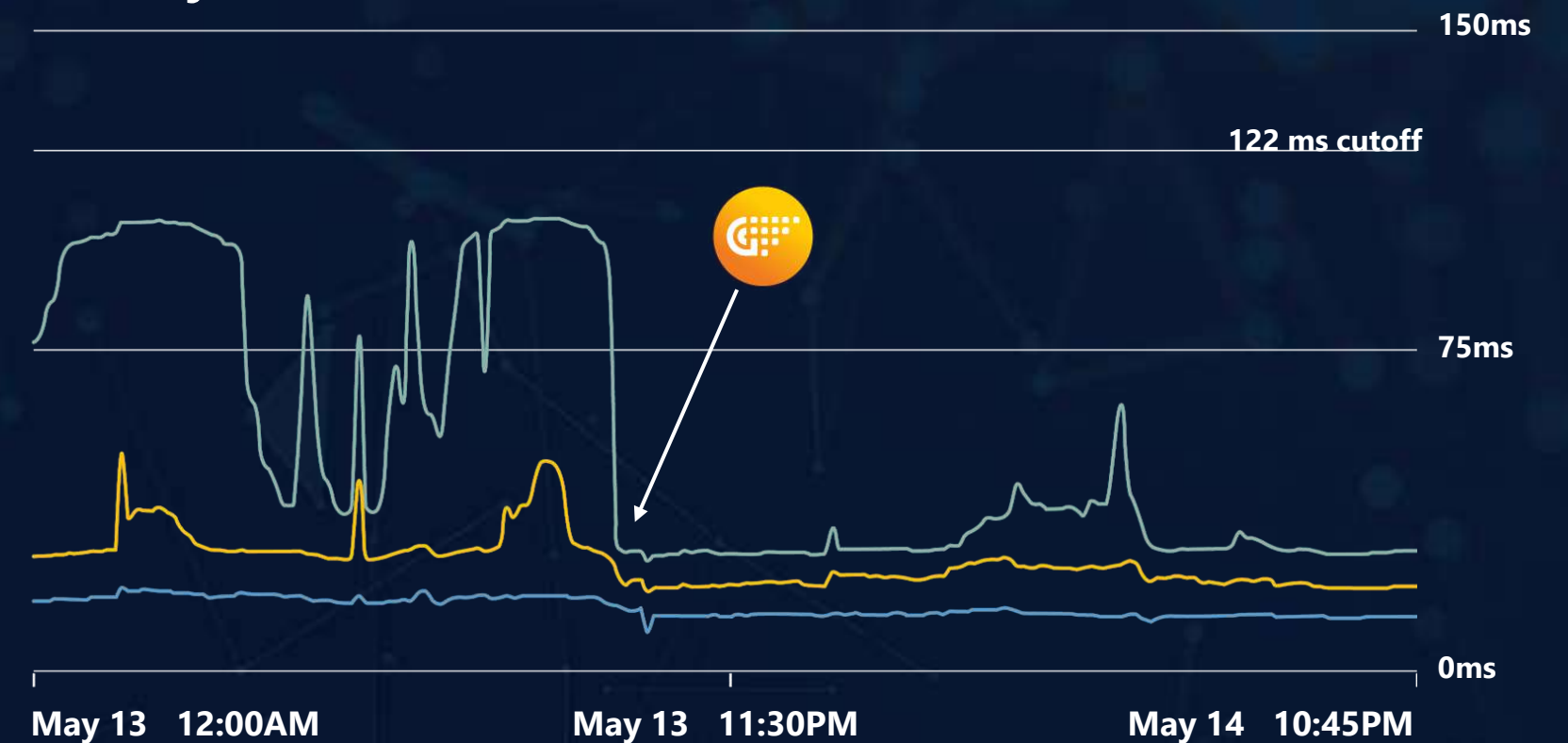
2X
Throughput
Increase

90%
Less Timeout

0%
CPU Utilization
Increase

75%
Reduction In
Cluster Size

Latency

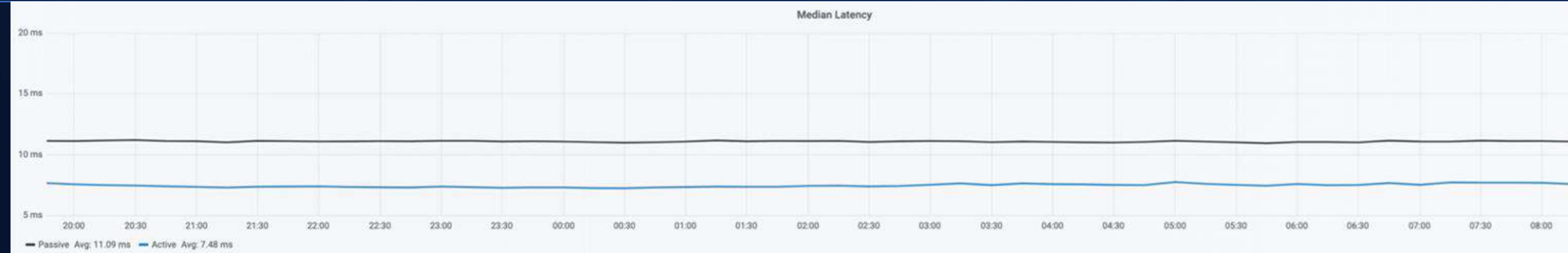


START/APP

Reduced Compute Cost by **33% In Addition To**

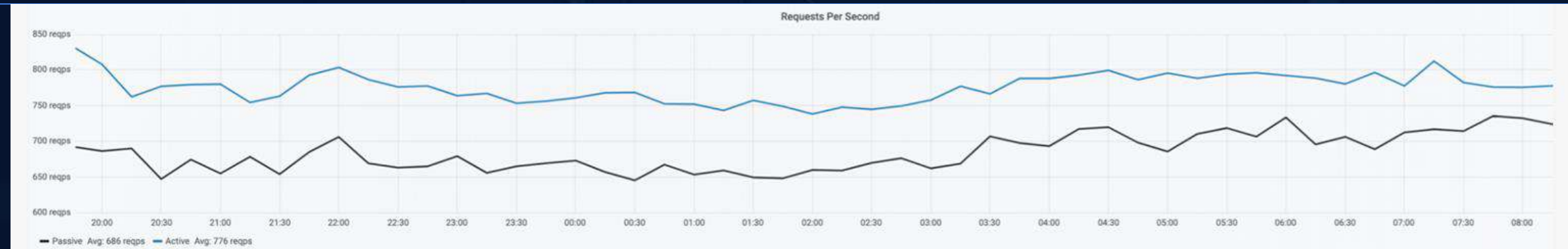
30%

Reduced Median Latency



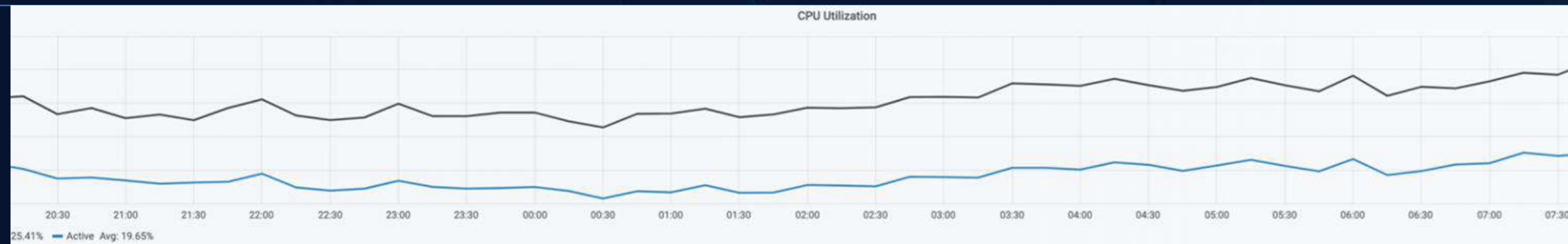
15%

Increased Throughput

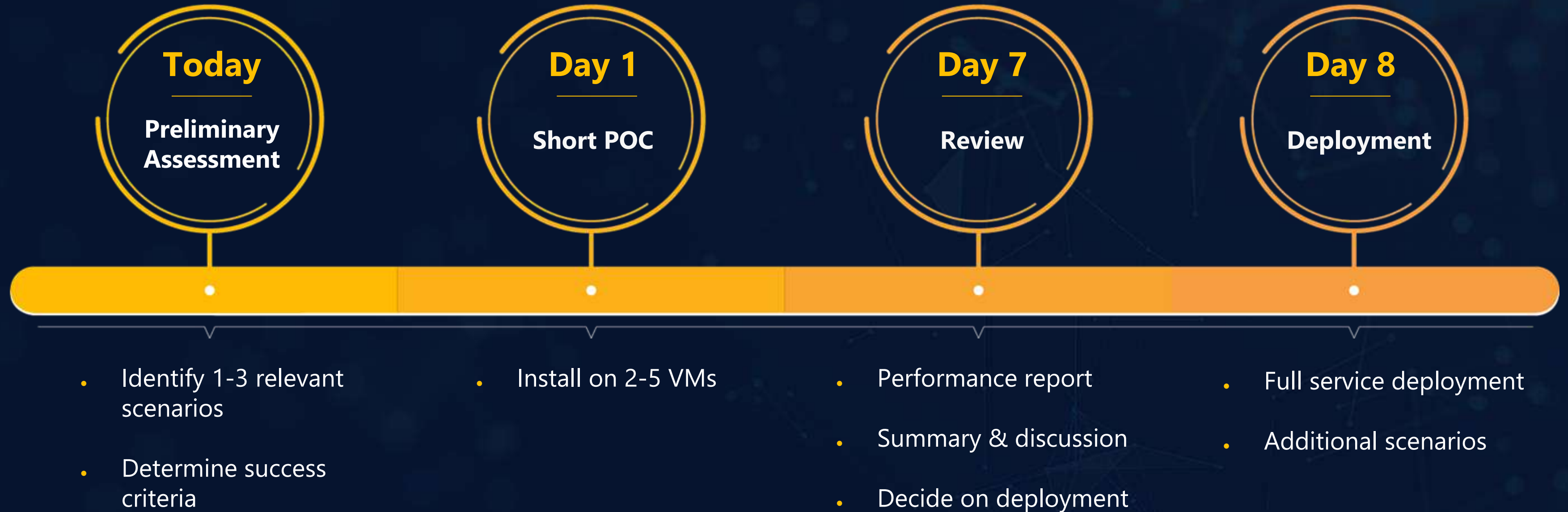


23%

Reduced CPU Utilization



Moving Forward





<https://granulate.io/lets-talk-singapore/>

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Tech Showcase by Spot
Michael Nassie, Sales Territory Manager, APAC

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Spot by NetApp

Cloud automation for continuous optimization

Give your workloads the cloud infrastructure they deserve: Always available, always scalable, always at the lowest possible cost

Michael Nassie

Spot Territory manager, APAC | mnassie@netapp.com



COVID-19 accelerated the push to public cloud

According to CIOs in APAC:

89%

said COVID-19 lead to a significant increase in workloads in the cloud



47%

said more than half of their workloads are now in the public cloud



60%

CIOs said their biggest challenge was higher than expected cloud cost



Source: ADAPT COVID-19 research 2020

Why is Optimization so difficult?

According to CIOs in APAC:

Lack of
internal cloud
expertise



Architectural
challenges and
process
complexity



These can
contribute to
cloud wastage
and ultimately,
overspending



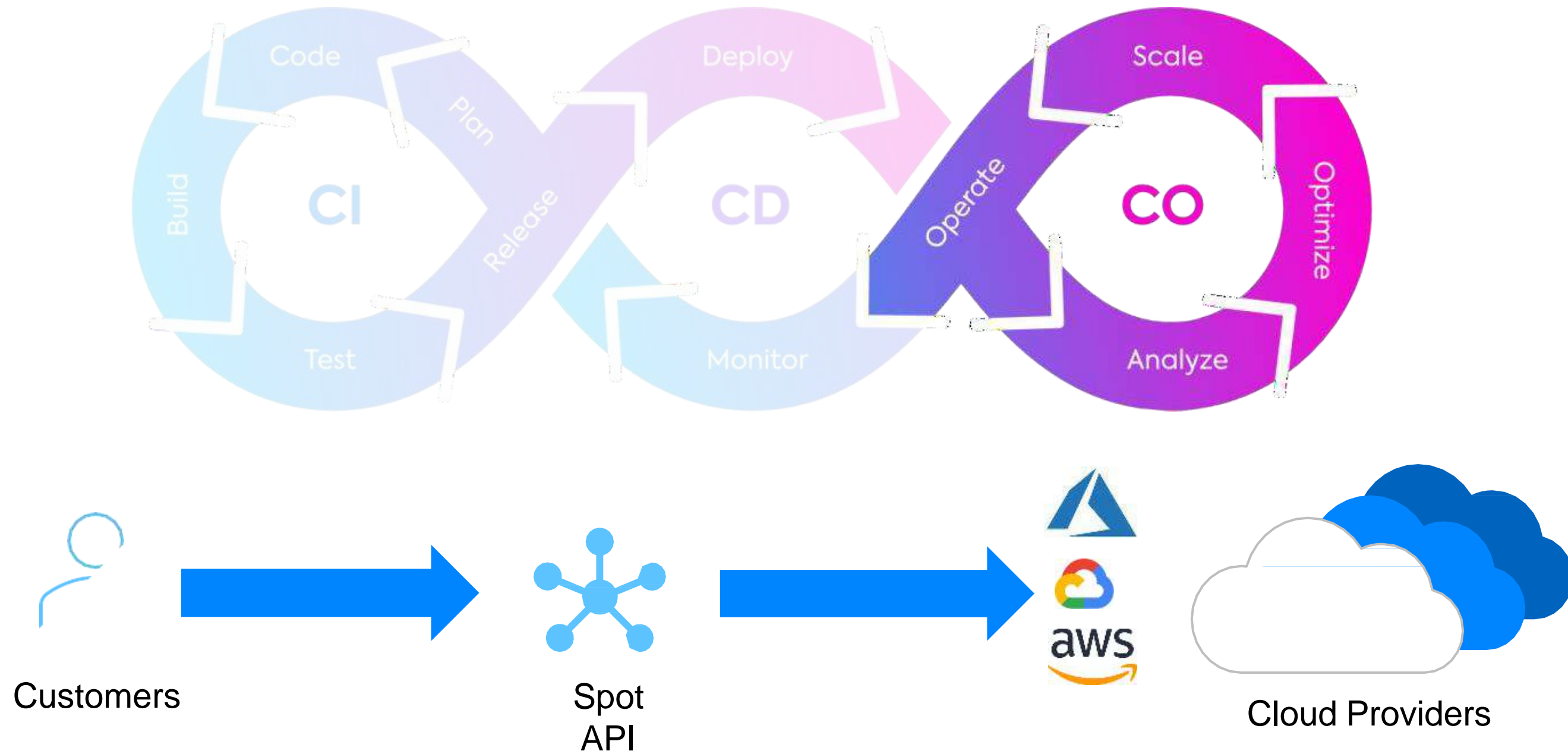
What is Spot?

- Founded in 2015 as Spotinst by IDF compute infrastructure specialists (MAMRAM)
- Offered a SaaS cloud infrastructure automation platform
- Rebranded to Spot.io in early 2020, right about the time they met NetApp
- Sold the solution to NetApp and saved NTAP about 70% cost on AWS
- NetApp acquires the company in June 2020
- Spot.io rebranded Spot by NetApp



Cloud automation for Continuous Optimization

Spot extends application delivery pipelines with "CO"



Spot Value Proposition

Spot by NetApp is a cloud optimization solution that works with customers to Automate and reduce cloud compute and operational costs.

Spot helps customers by:

- Automating cloud provisioning & consumption
- Optimizing workloads to maximize resource utilization
- Enabling customers to take advantage of more volatile, cost effective components without decreasing service availability or increasing operational overhead

Challenge

Cost optimization is often still a manual process it is not effective for Cloud Native Ops

Optimization automation initiatives takes a large effort to develop & maintain, increasing time to value

Cloud environments are becoming more complex and variable making it difficult to measure efficiency

Enterprises have multiple cloud environments, with various constraints and availability requirements

Average of 30% of Cloud spend is being wasted, hindering progress and innovation and resources

Cloud costs are very volatile and difficult to predict and measure return on investments



Solution

Monolith to Cloud Native, Spot offers continuous **automated** optimization, saving upto **80%**

Spot.io is a turn key, enterprise grade managed platform, **time to value < 30 days**

Spot.io is a single pane of Glass which measures efficiency on KPI's

Spot.io covers your full environment **staging to production**, with **SLA for service availability**

Spot.io removes waste from Commitments and 65% of RI's are resaleable

Spot provides a results based business model with **savings based billing to guarantee ROI**

Global market leader for continuous optimization – ASEAN & worldwide

1500+

Customers

5B+

Compute Hrs / Month

1M+

Client Managed Nodes

73%

Average Savings

trax

zilliqa

Boost™

DBS

tokopedia

CENTRAL Group

MELCO

axiata

FUJITSU

ticketmaster®

TOYOTA

SONY®

SAMSUNG

AT&T

Unilever

airtel

Spot by NetApp product suite

A comprehensive portfolio of compute services to provision, run, and scale applications in the cloud

Cloud cost visibility

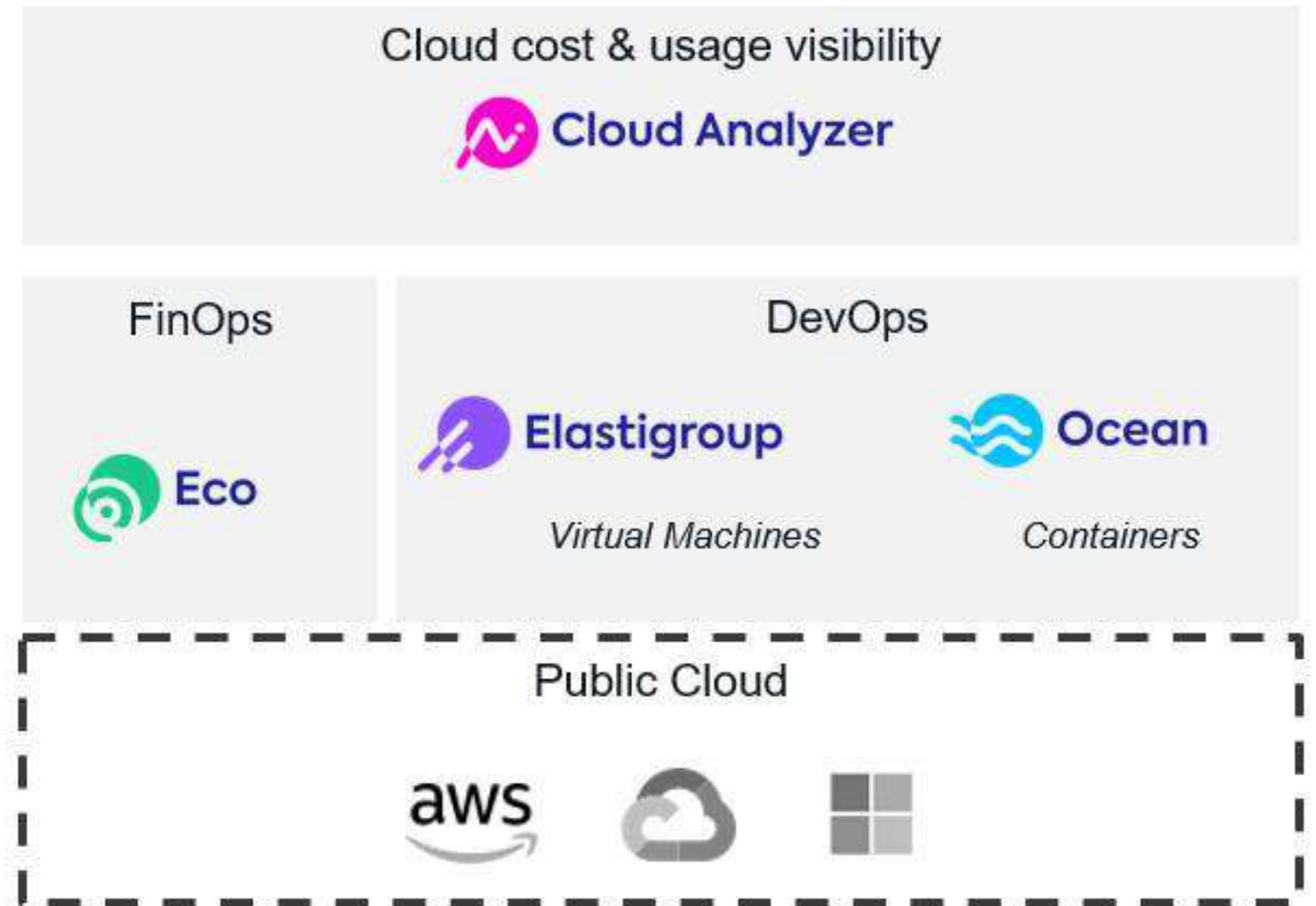
See, understand and take action to reduce cloud costs and improve cloud efficiency.

Infrastructure optimization

Automate and optimize cloud infrastructure pricing and right-sizing to deliver availability and performance at the lowest possible cost.

Active capacity management

Purchase the optimal portfolio of reserved capacity and respond to changes in usage automatically.



1

On-demand

- **Scales** up and down for variable demand
- **Expensive** per-unit cost

2

Reserved capacity

- **More affordable** per unit
- **Less flexible** – Committed to future use

3

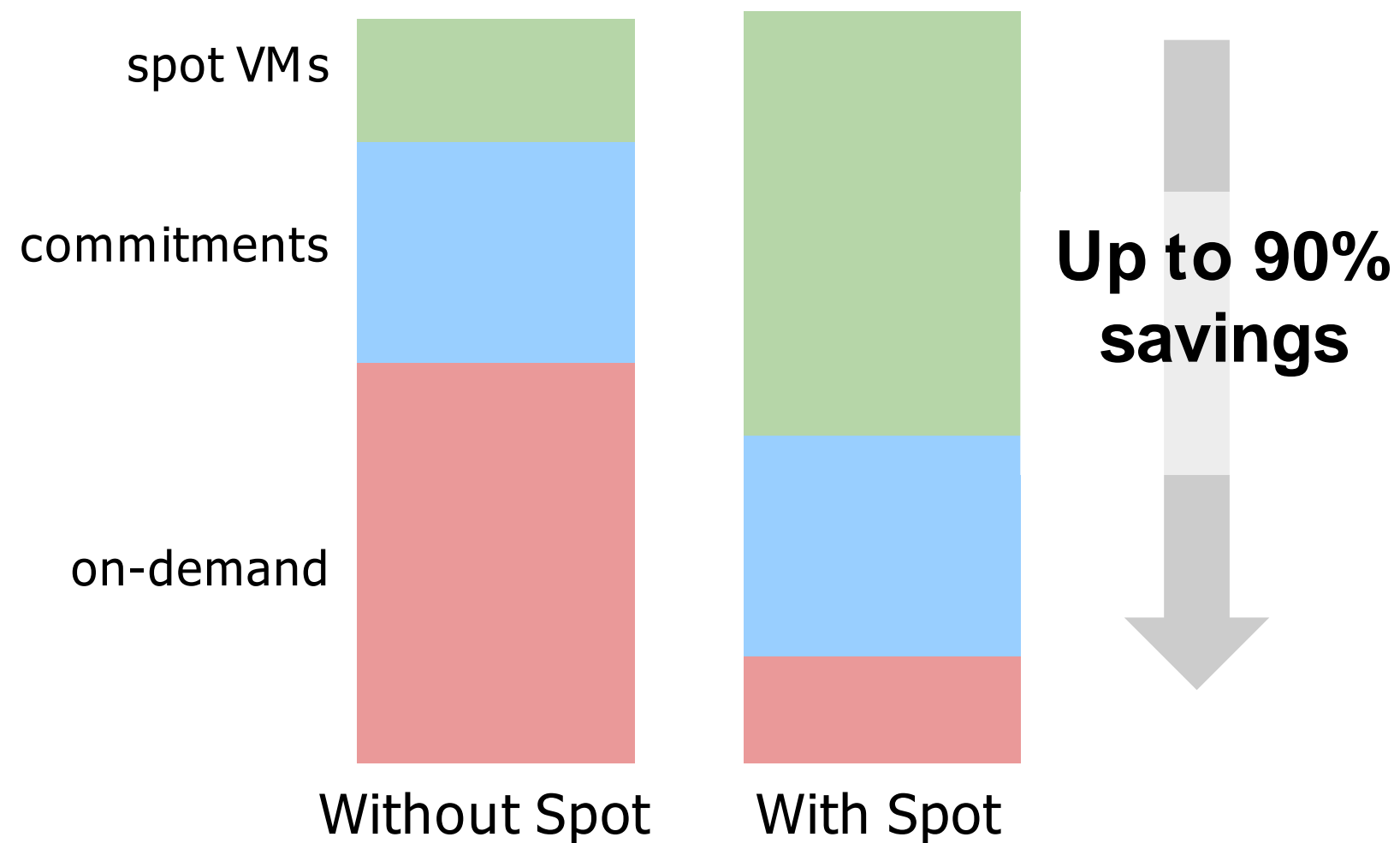
Excess capacity

- **Cheapest** option
- **Riskiest** – No SLA / Can be taken away at any moment

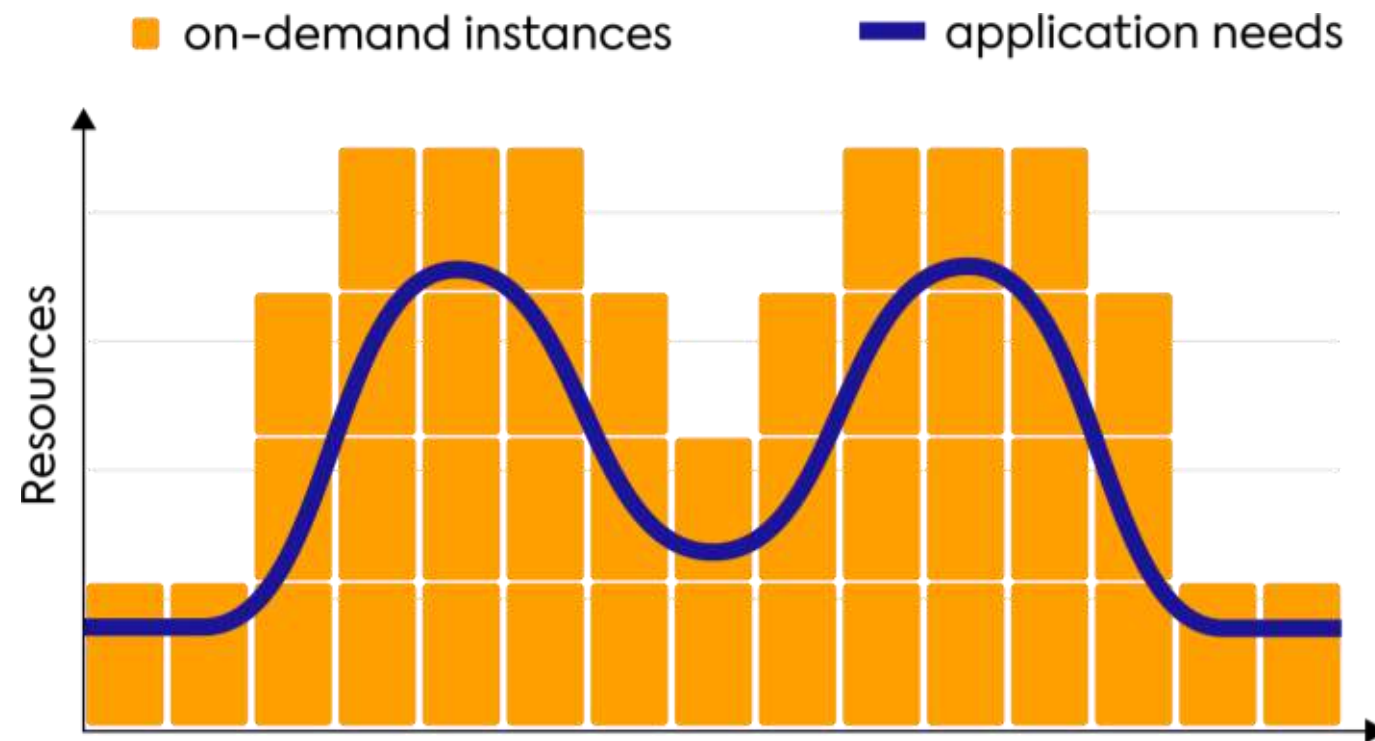
Spot takes continuous real time decisions to automate the best purchase model based on the service requirements

Spot by NetApp: Our core value proposition

Up to 90% less on compute, while maintaining SLAs & SLOs

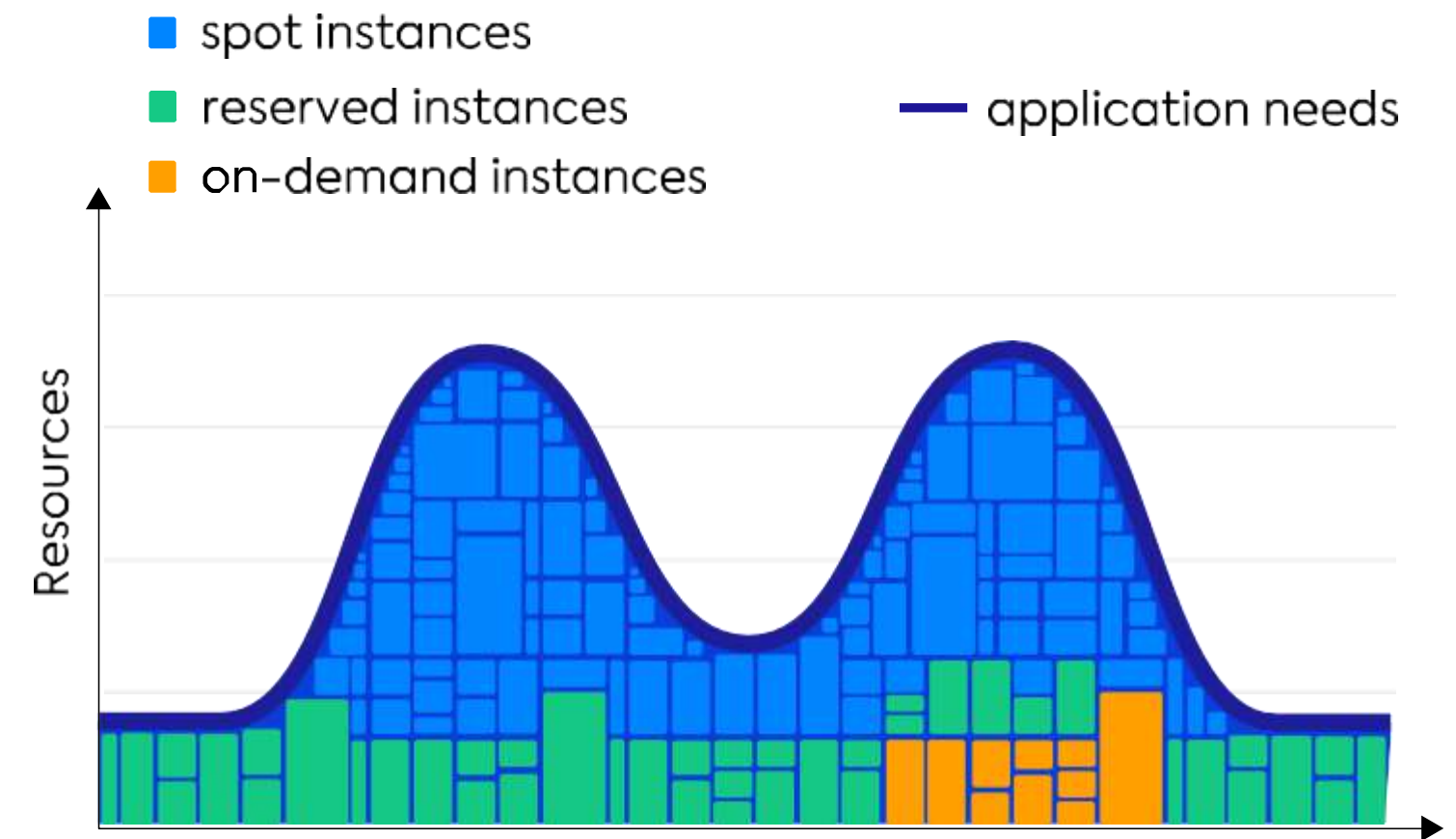


Enabling agility & speed



Self-managed

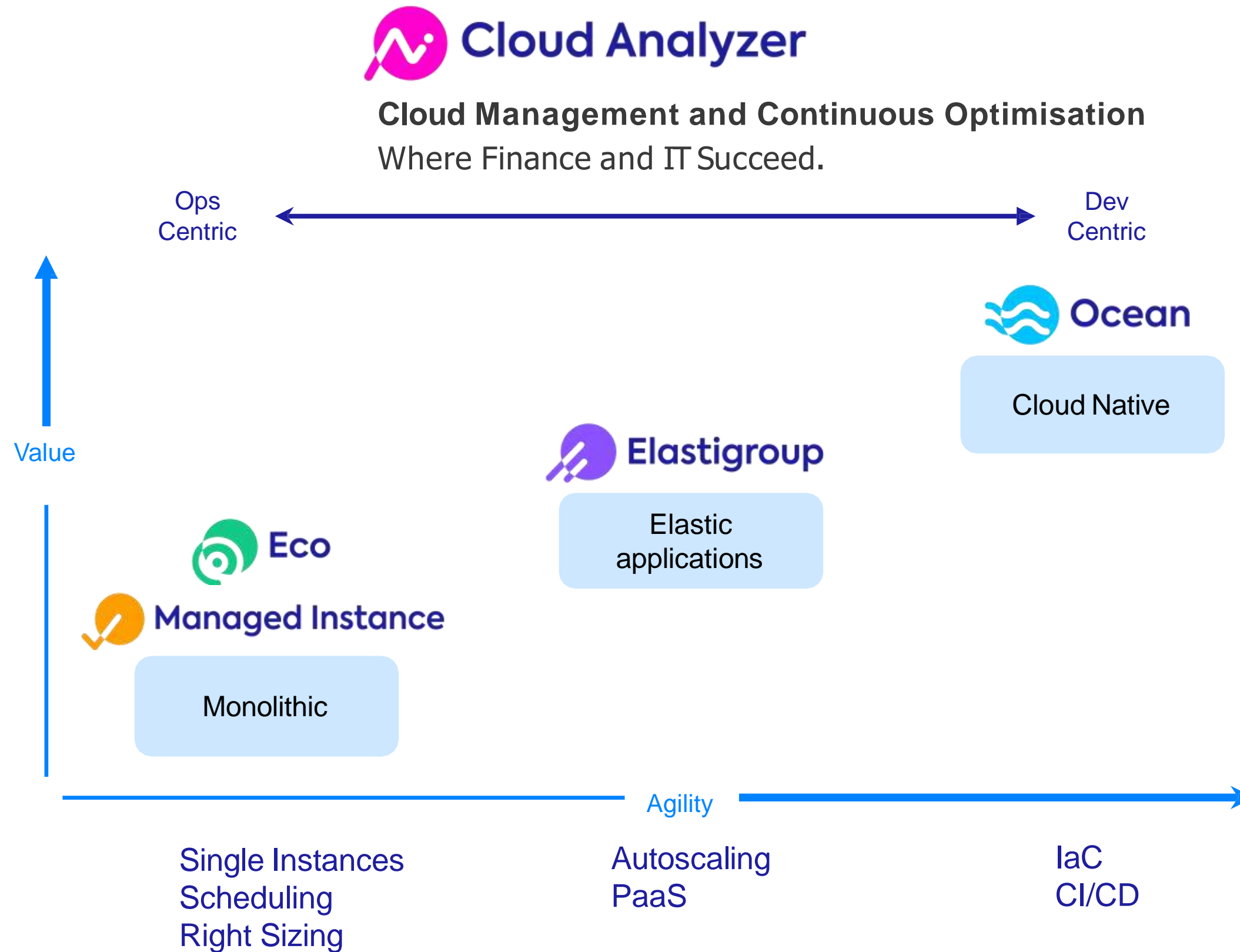
- Overprovisioning
- Mostly On demand/Reserved
- Homogeneous compute



With Spot

- App driven provisioning
- Price level optimization
- VM size level optimization
- Container size level optimization
- Heterogeneous compute

Covering your Cloud Usage Transformation



Challenges

As you scale and grow cloud capability, the traditional approach to Cost optimization no longer delivers value

Cross functional teams struggling to implement basic changes

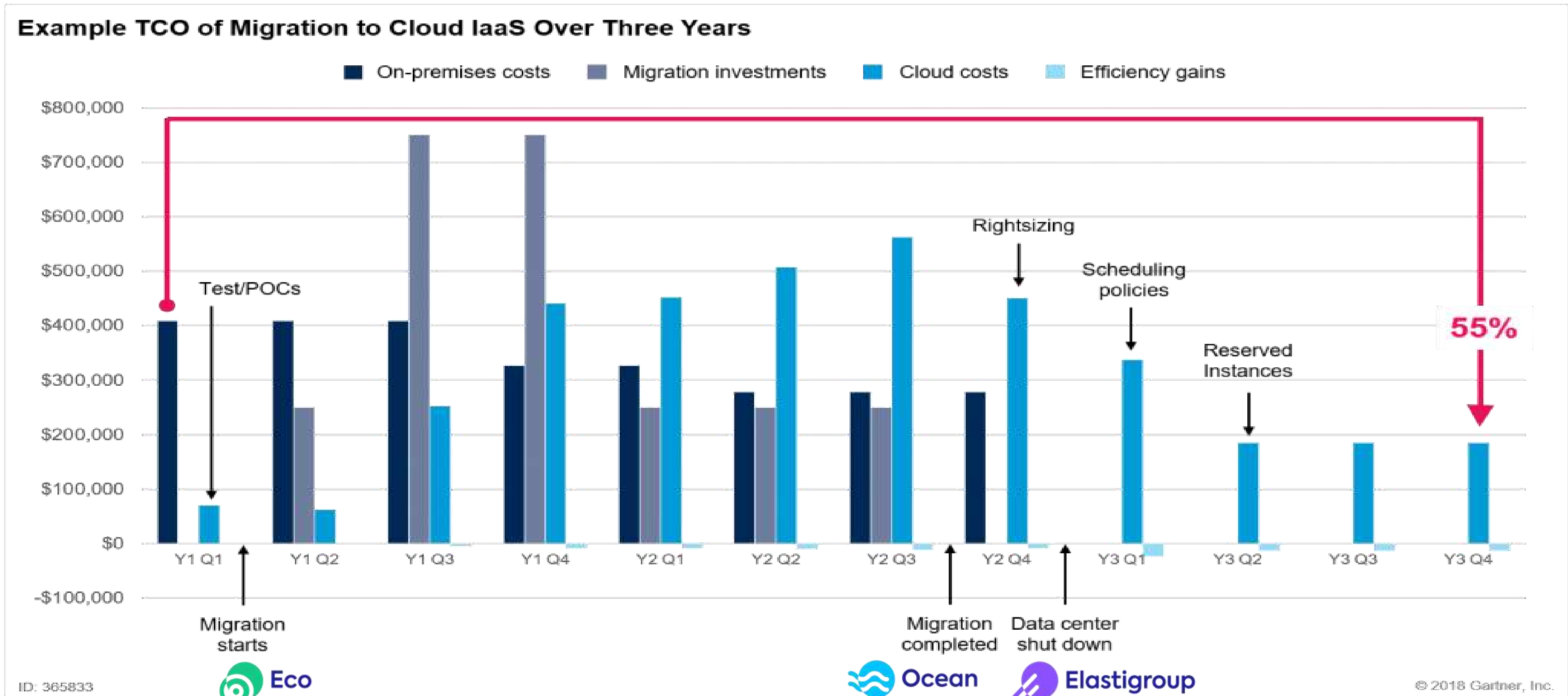
Visibility tools stop being effective due to ownership and fluidity

Deployment of complex cloud native applications and services increases

Classic optimization tooling to report on wastage and recommendations no longer work

How to automate the process of optimization, integrating the tooling into your IAC and CI/CD processes

Help & Accelerate your Cloud Migration Process



Lower your day 0 footprint cost without affecting your infra requirements
Keep commitment flexibility for business & tech.

Deploy & scale cloud native services architecture
Accelerate cloud adoption & optimize consumption

Source: [Gartner](#)



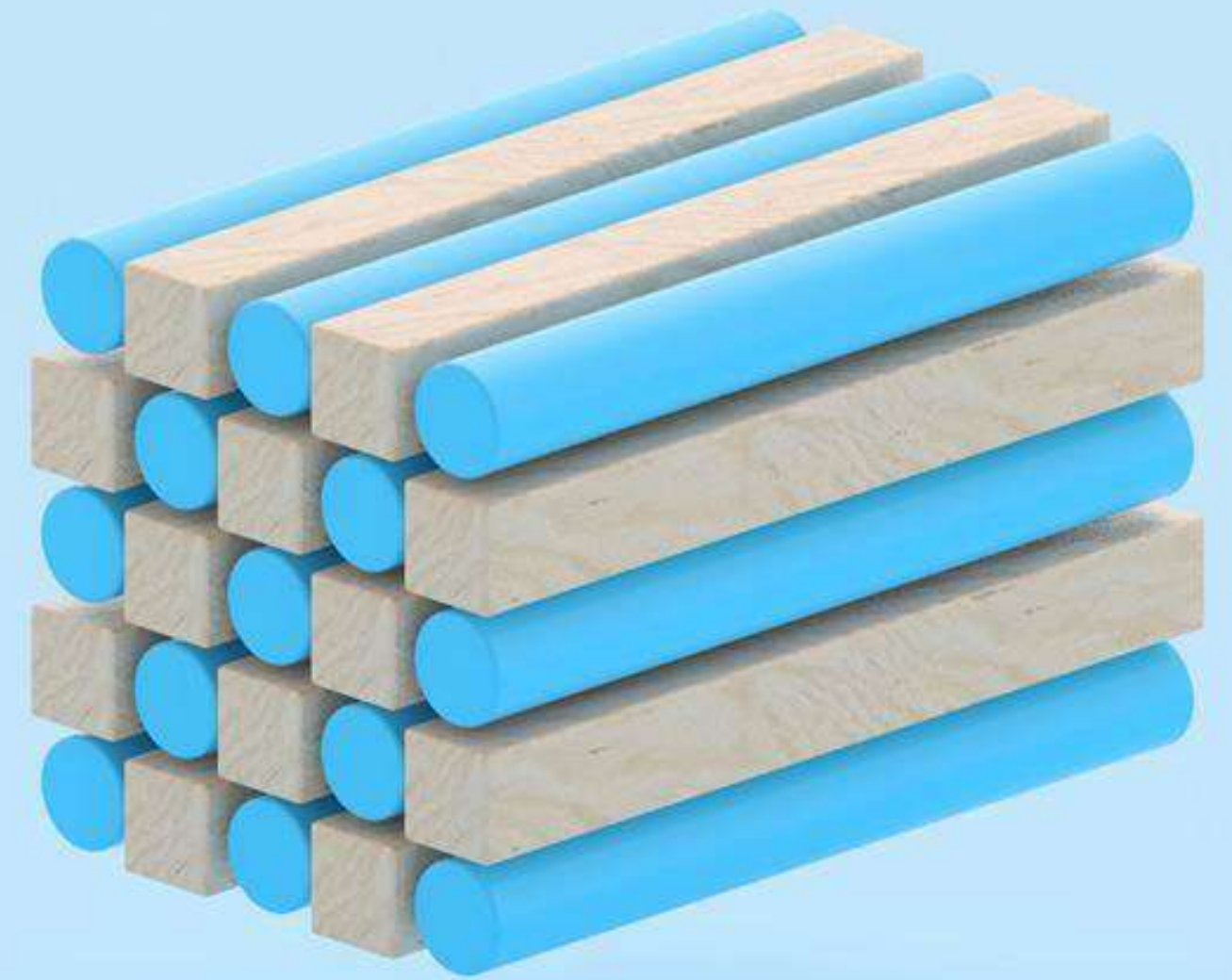
Products breakdown



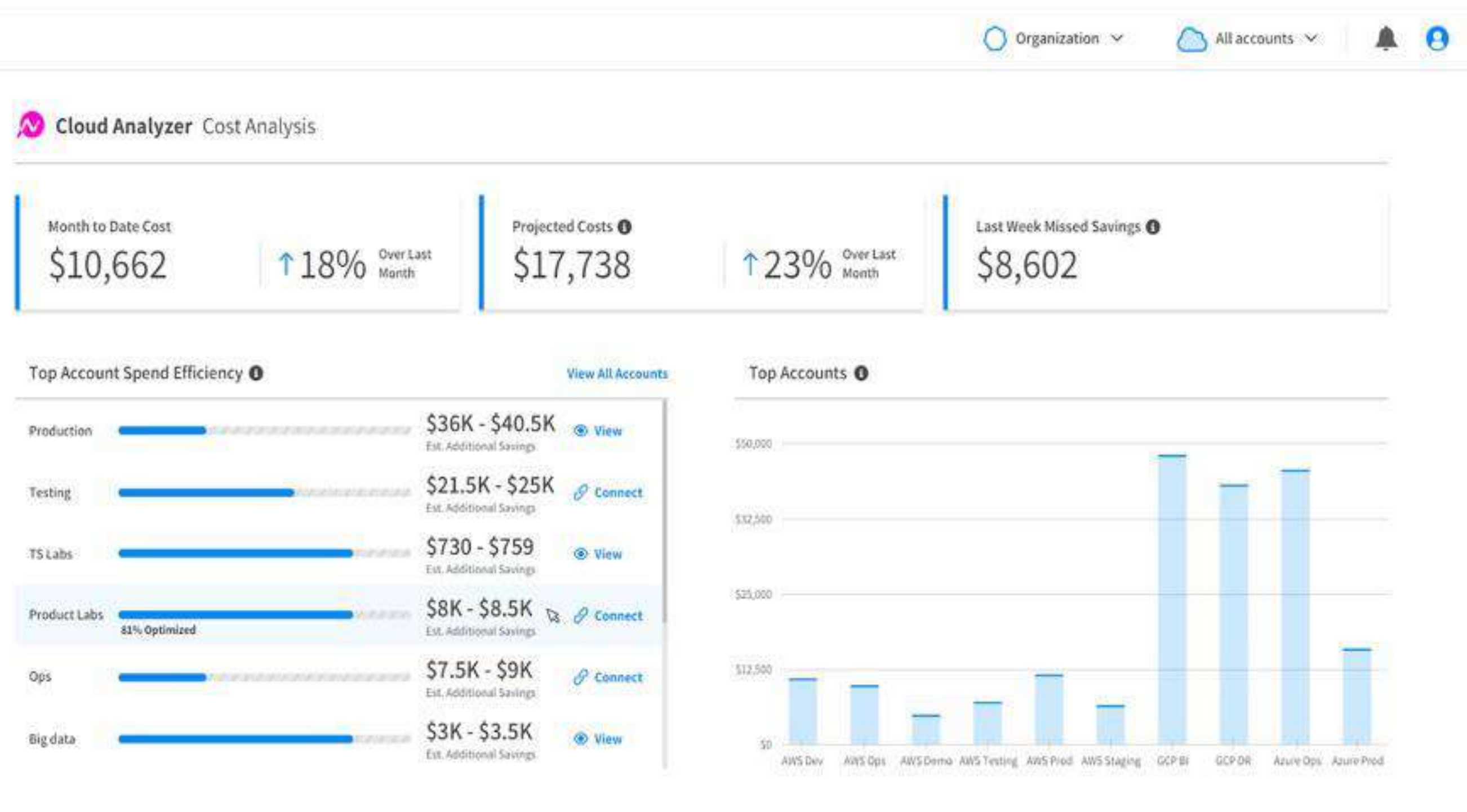
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Cloud Management & Continuous Optimisation



Cost Analysis



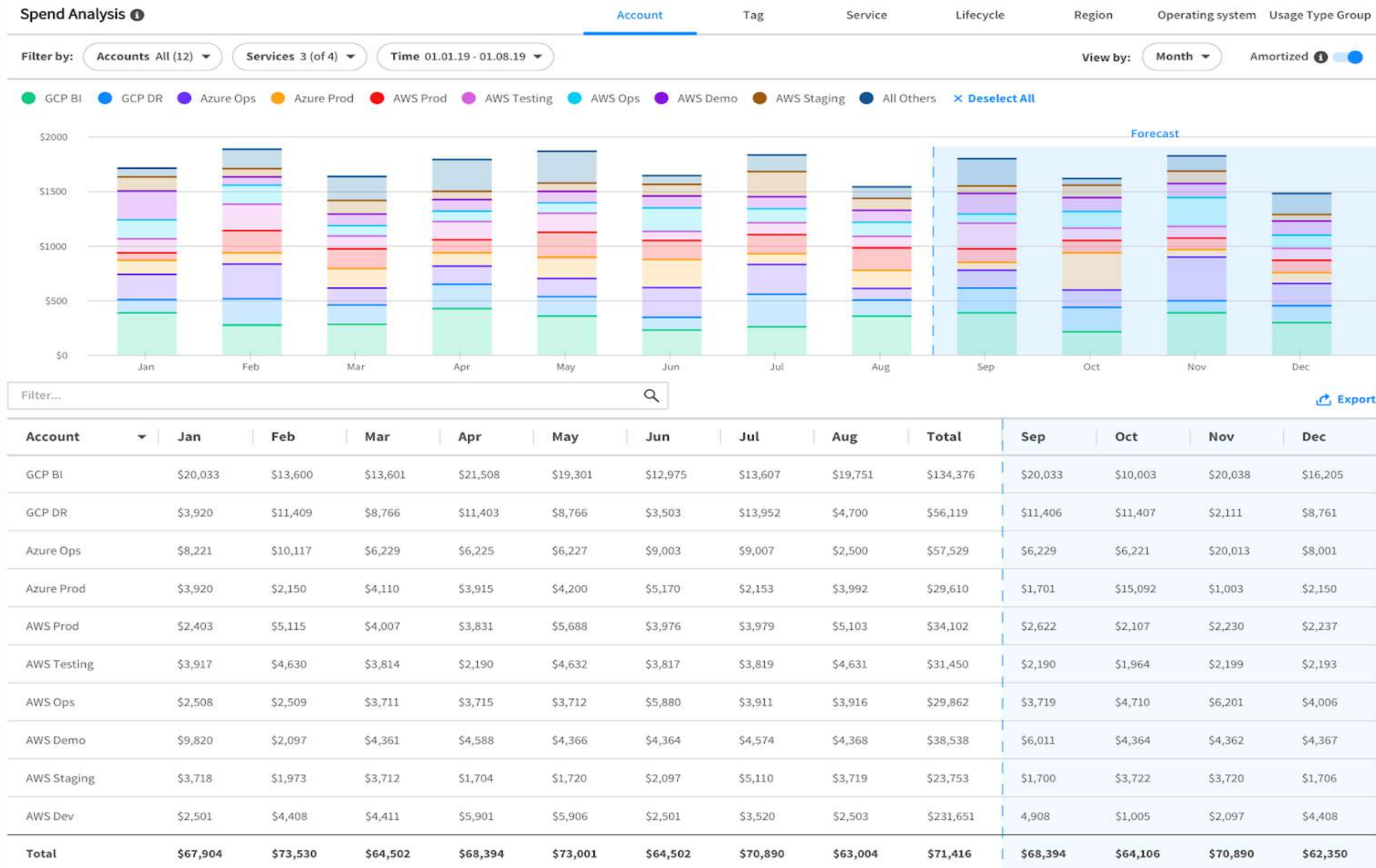
Visually explore your spend across clouds & cost centers

Measure your Account Efficiency to target where you can be more economical

View projected costs and trends

Target services and accounts where you are missed savings

Spend Analysis



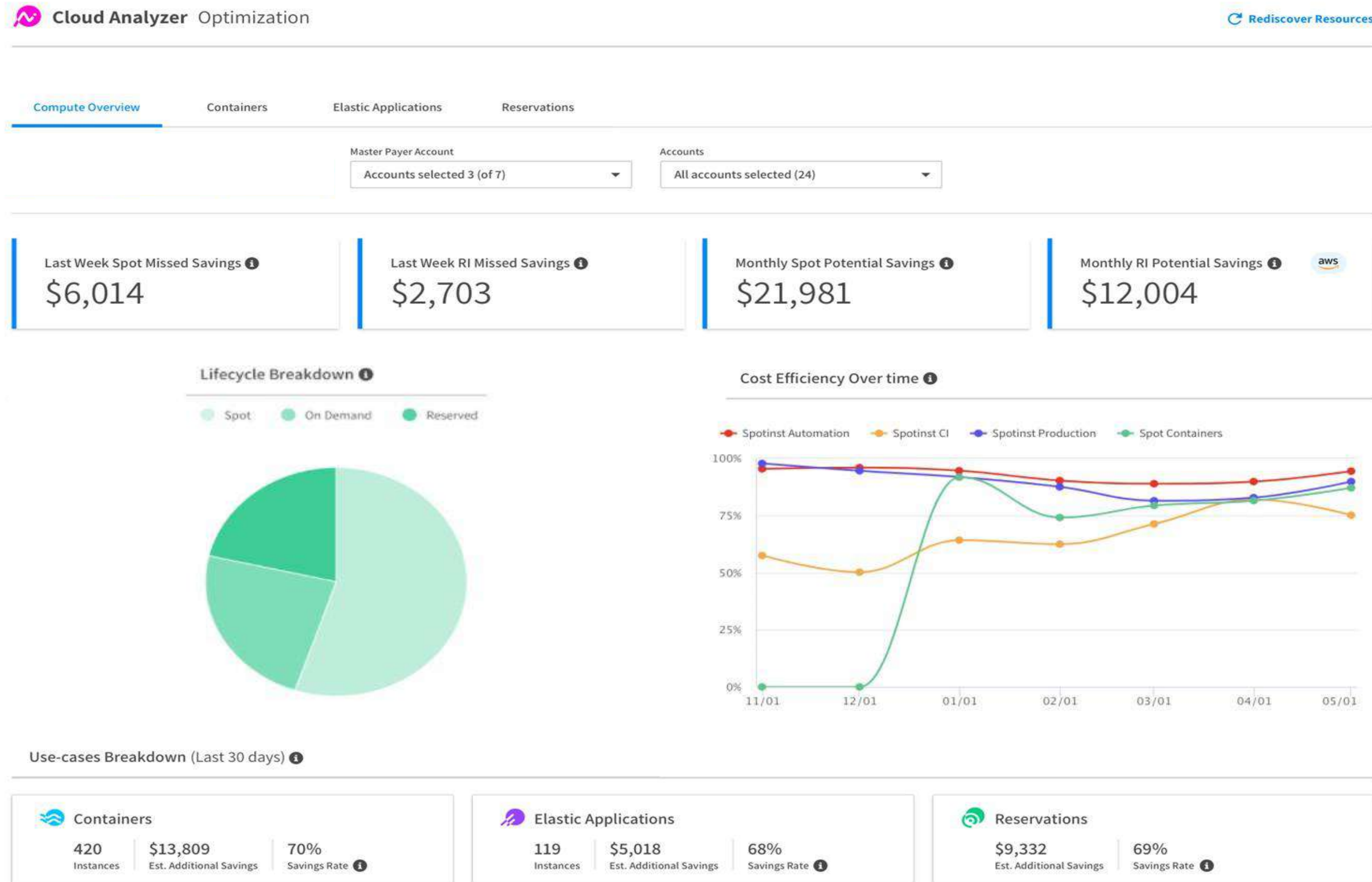
Gain comprehensive operational insights with cost and usage analysis into all your cloud deployments

Report on BU, Accounts, Service, Regions and more

Forecast spend across the coming weeks and months

Target services and accounts where you are missed savings

Optimization



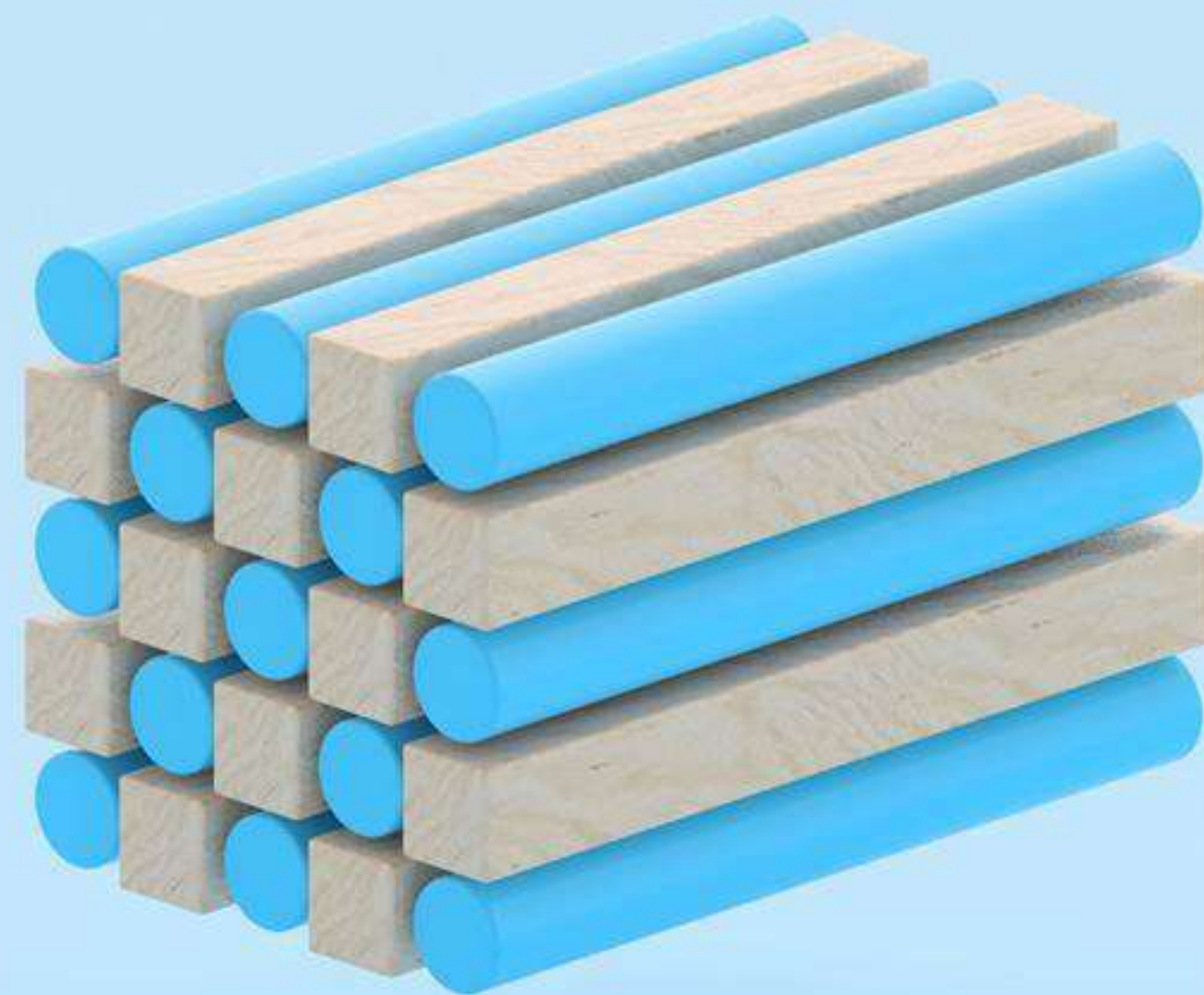
Receive actionable cost and usage optimization recommendations that you can implement and automate with the click of a button

Discover your cloud efficiency KPI and track the feedback loop of your optimization actions over time.

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Intelligent commitment
Lifecycle Automation





No Engineering Effort

Reserved capacity is a billing construct, engineers don't have to change anything about the compute or applications they use today.

Eco will continually track usage and build forecasting models to constantly manage the lifecycle.



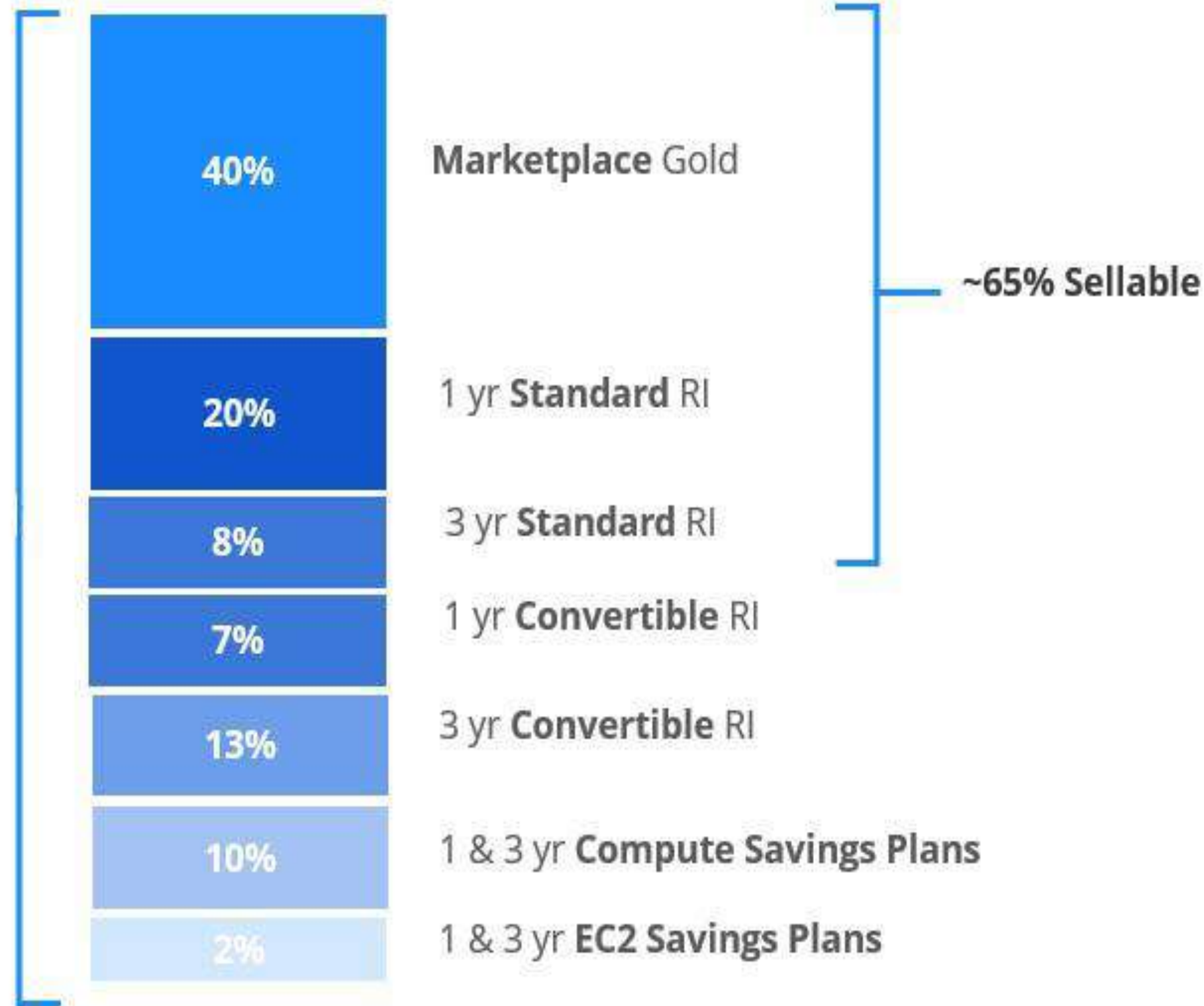
Diversify Commitment

Eco acts as a reservations broker, utilizing the Marketplace, mix and match commitment lengths from 2-36 months so that utilization will be optimal with as little commitment as possible.



Automated Commitment Management

100% Coverage



Building a sophisticated strategy

Comprehensive analysis of cloud usage and automatic fitting of capacity & reservations including:

- Reserved Instances
- Savings Plans

Eco buys and sells capacity in the AWS Marketplace and to NetApp internal pool of >1500 customers, to provide liquidity for unused capacity

With Active management, organizations can see an order of a magnitude more savings in the AWS Cloud.

Eco for MSP - A "low-to-no" cost solution

← **Eco** Create new workflow

Create a workflow by defining your billing rules

Name * Description *

Select which billing rules to apply:

- Replace RI discounts with Public OD price
- When purchased by any account
- Only when purchased by the following accounts:
Enter Account IDs *
- Replace Savings Plan discounts with Public OD price
- When purchased by any account
- Only when purchased by the following accounts:
Enter Account IDs *
- Remove Credits and/or Refunds
 - EDP
 - Data Egress Waiver
 - APN Partner Accelerator
 - Solution Provider Program
- Remove Volume discounts
- Charge customer "top rate" for all usage
- Charge customer "top rate" for free usage, provide cooperative tiering
- Remove RI Volume Discounts
- Uplift or Discount
 - Uplift by:
 %
 - Discount by:

More to come!

Eco Subsets

SUBSET LIST **WORKFLOWS**

Filter by tags and attributes or search by keyword

Workflows (2) [+ Create new workflow](#)

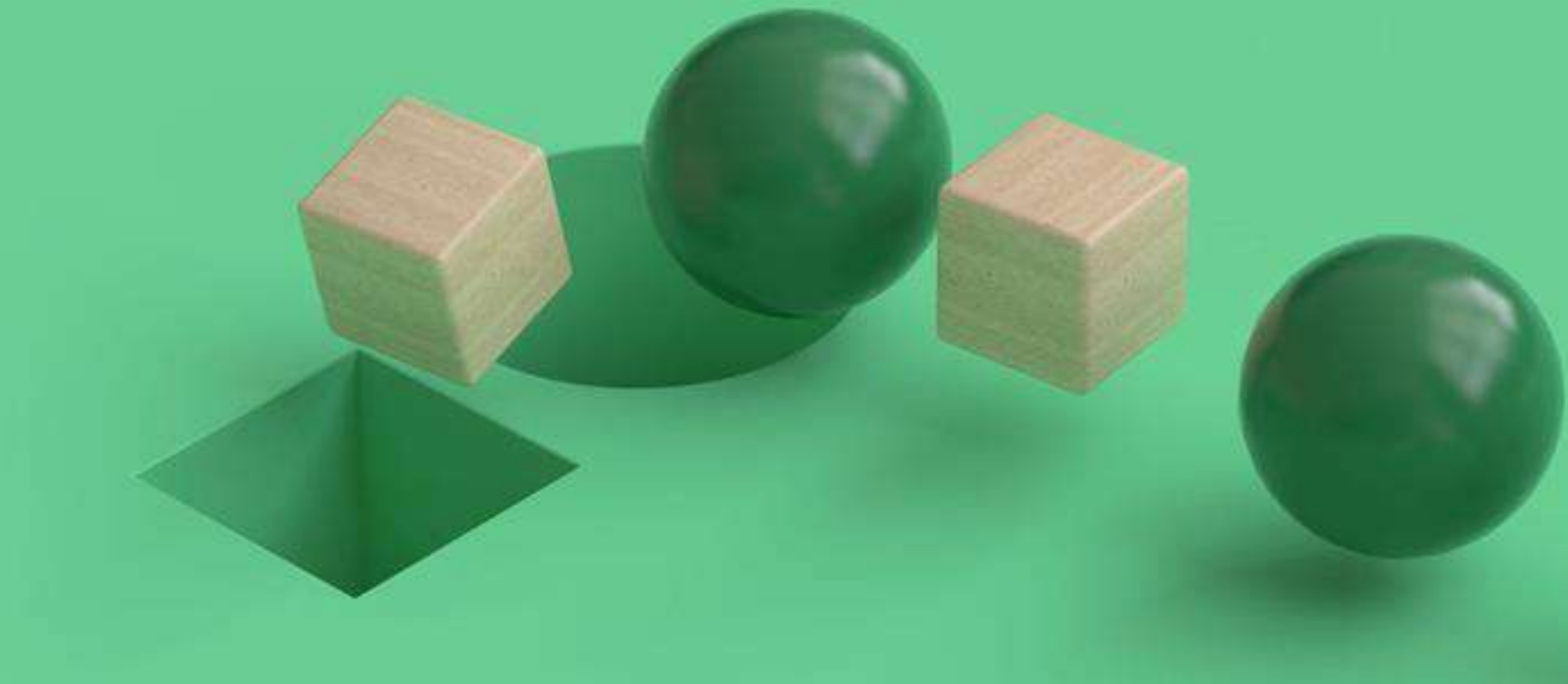
Name ↑	Description
workflow sample 1	sample 1
workflow sample 1	sample 1

[Support](#)

i If these options do not suit your needs, please submit a support ticket with the desired workflow and rules.



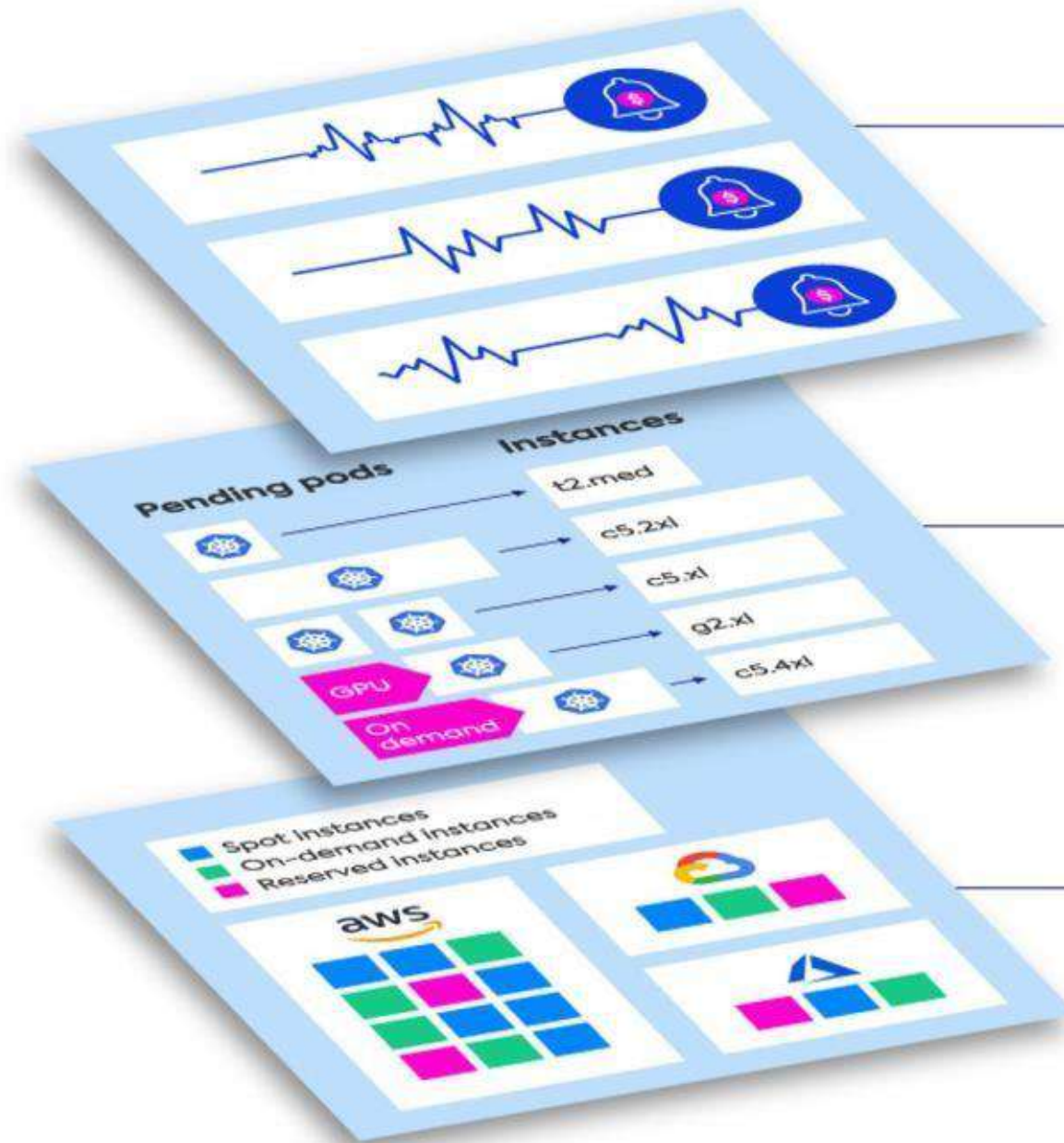
Your Containers. Zero
Infrastructure Management



30%
Savings

40%
Savings

70%
Savings



Container right sizing and observability

Monitor and analyze container utilization and modify in runtime their resource limitations for performance at lowest cost

Container driven auto scaling

Instance size, type & pricing is determined based on pod/container specifications while honoring labels, taints, tolerations, network and storage requirements.

Infrastructure provisioning & pricing

Automated infrastructure management that leverages cloud compute pricing models (spot, on demand and reserved instances) with an enterprise-level SLA for cost savings and dependable performance.

Serverless Containers

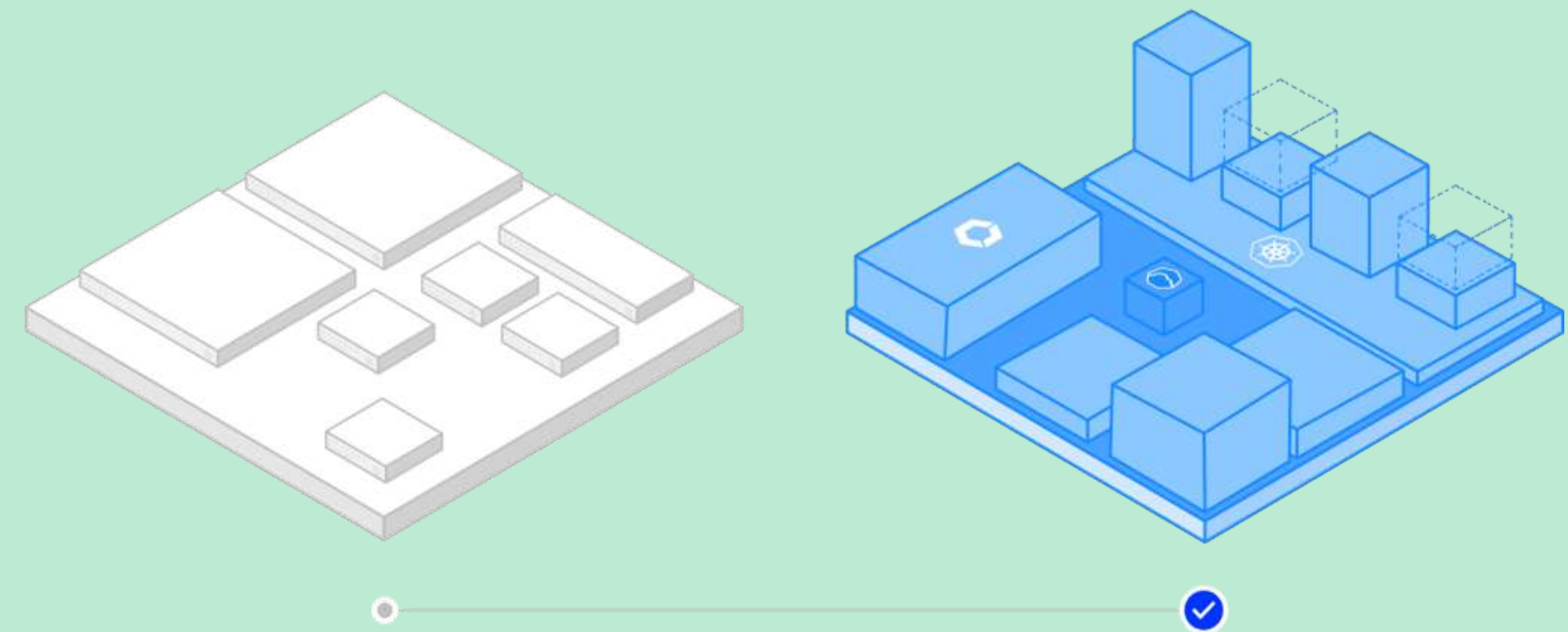
Container-Driven Autoscaling

Auto-detect Pod or Task infrastructure requirements so the appropriate instance size or type will always be available.

Simplify Operations

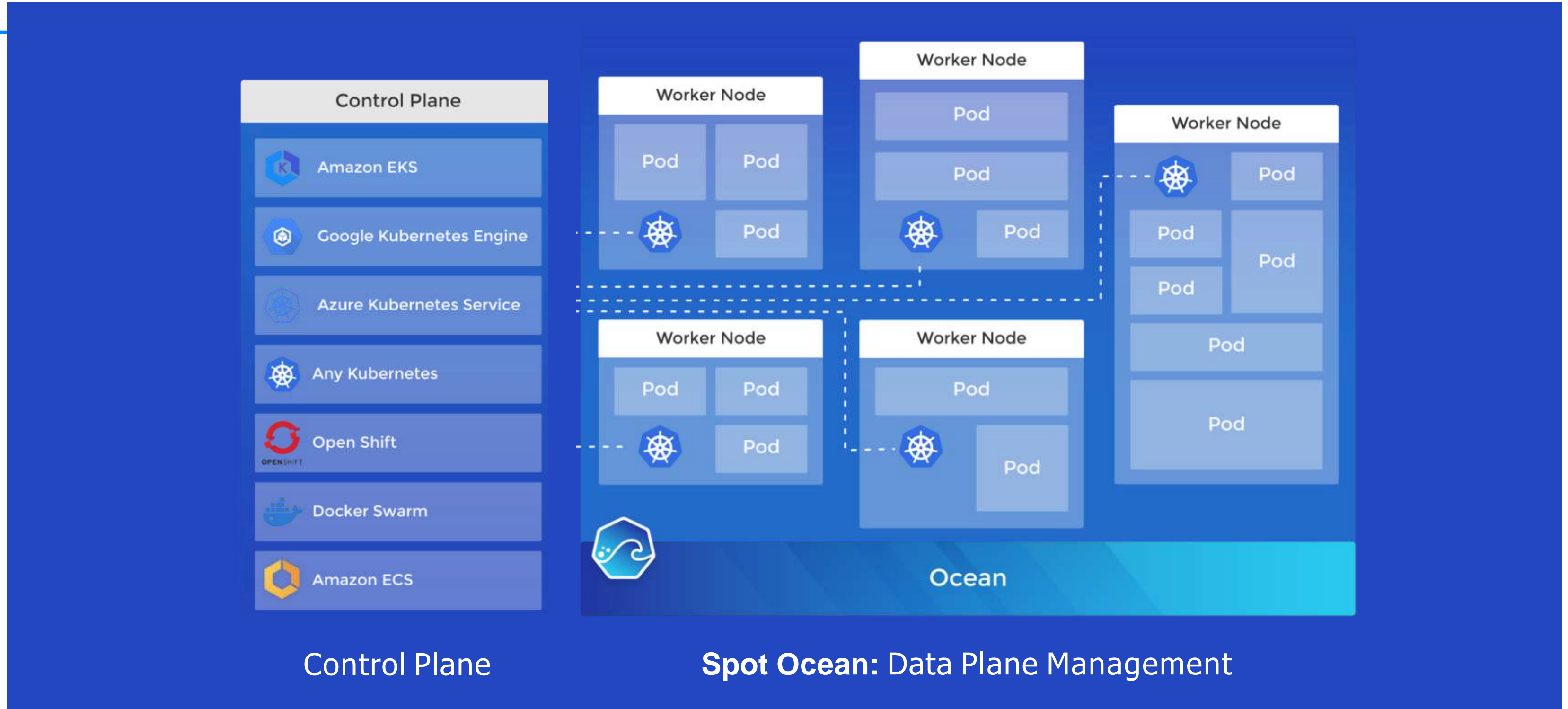
Deploy more without having to manage all the details of the underlying container infrastructure.

Deploy containers on abstracted infrastructure, with up to 90% cost optimization.



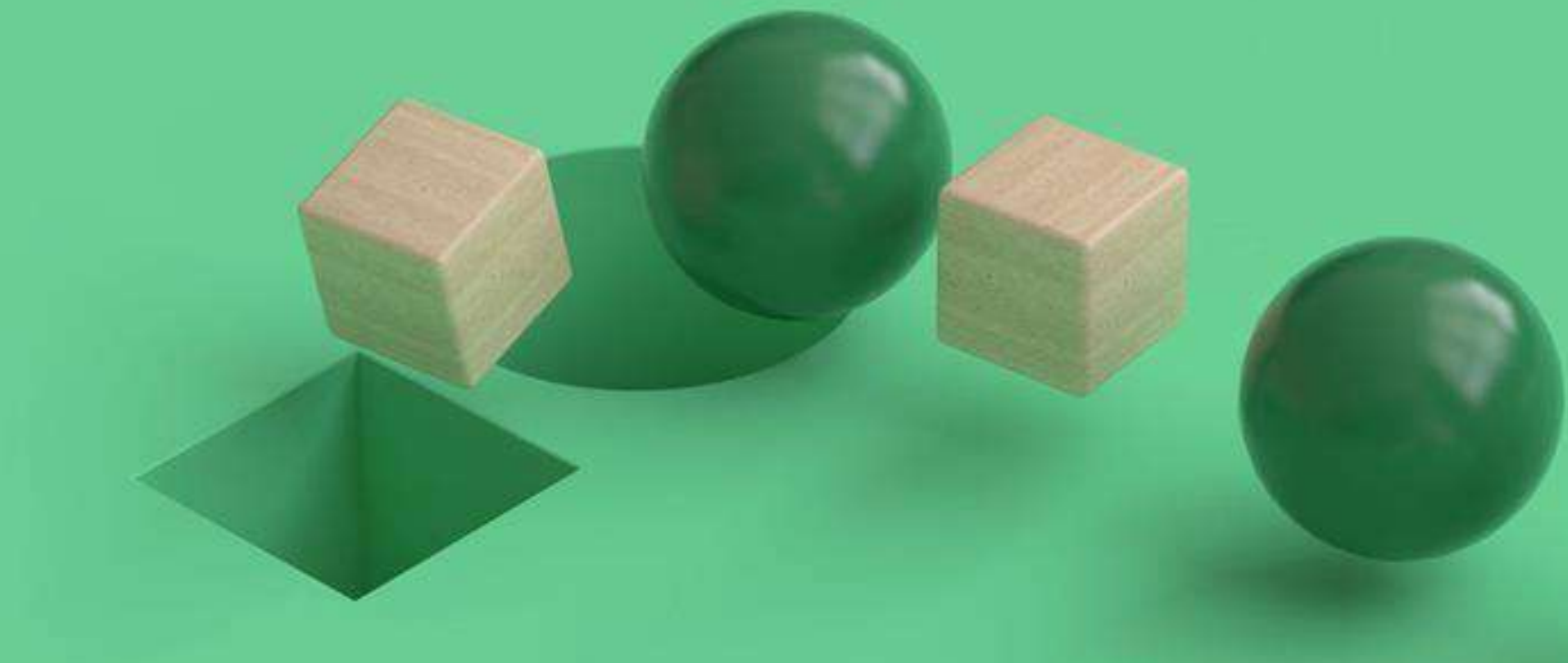


Serverless Containers





Automate All Your
Application Workloads



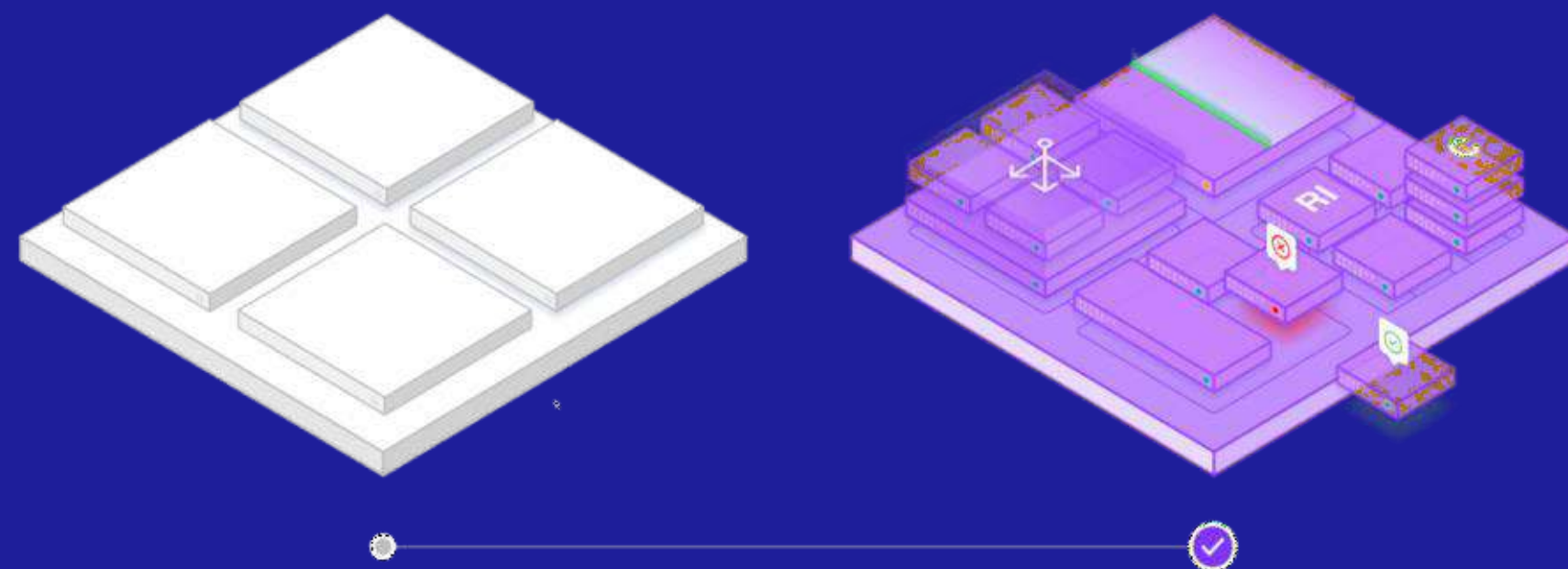
Optimize Costs

Reliably leverage Cloud Excess Capacity to optimize cost and save up to 90% on compute infrastructure across all major cloud providers.

Simplify Operations

Scale, manage and accelerate workloads without the complexity and risk of manually managing your infrastructure.

Automate any application workload,
with up to 90% cost optimisation.



Prediction is the Key

Elastigroup predicts Spot Instances behavior, capacity trends, pricing and interruptions rate.

Up to 90% Cost Optimisation with SLA

By predicting interruptions and fluctuations Elastigroup is able to offensively rebalance clusters to prevent interruption.

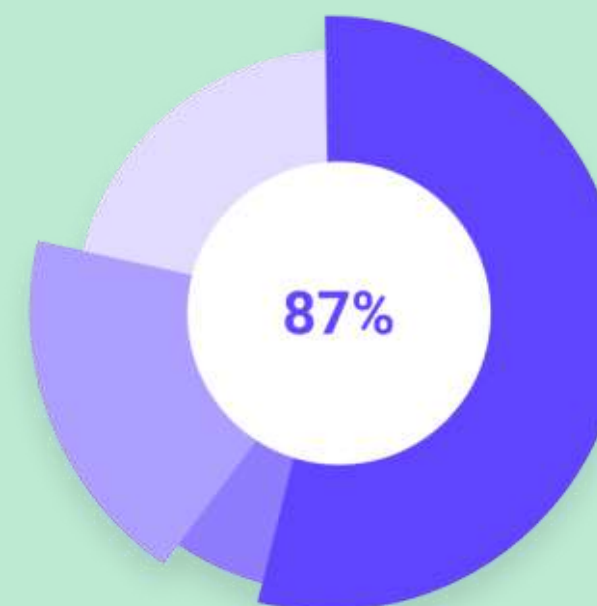


Utilize Reserved Instances

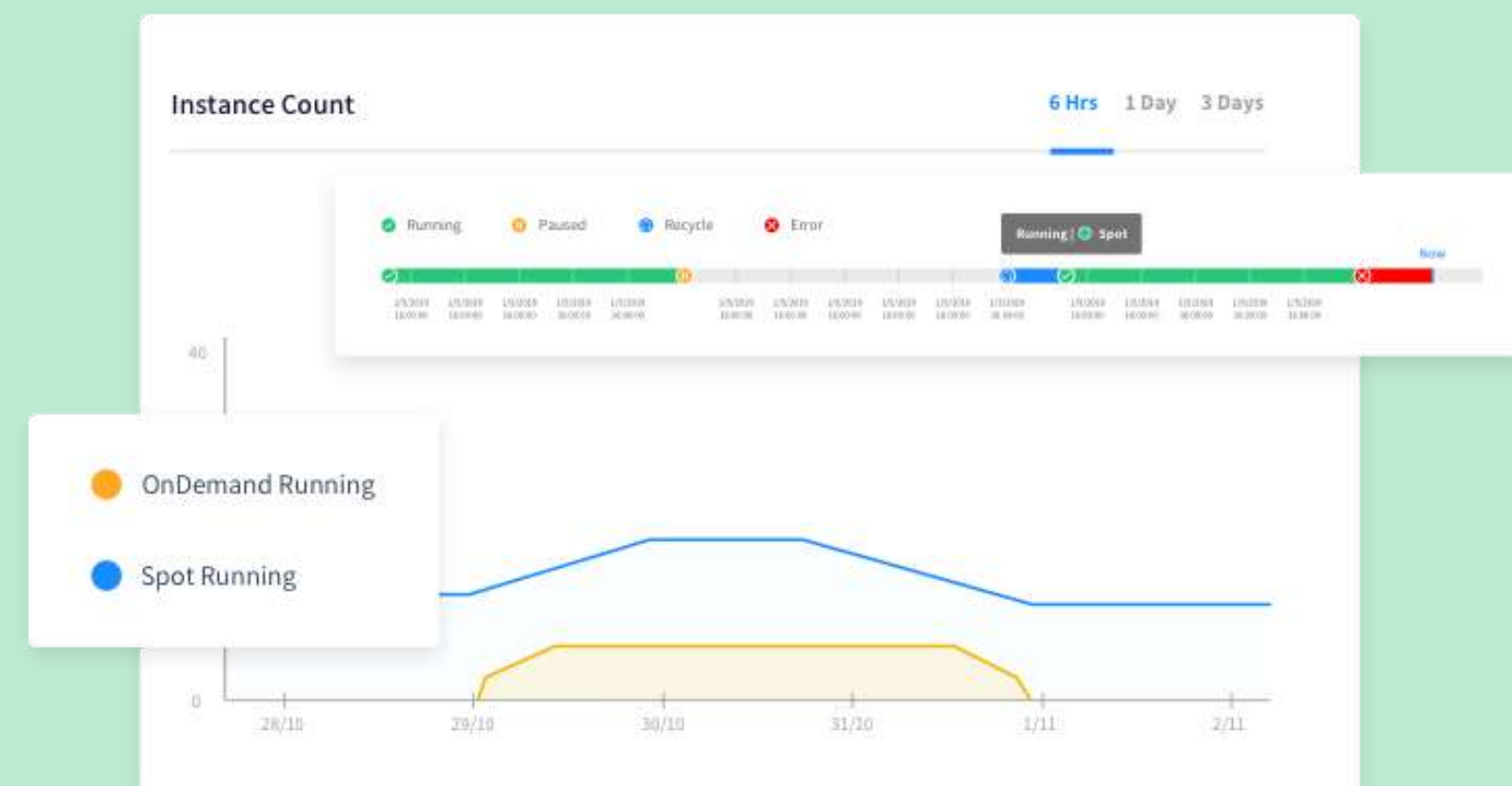
Prioritize all underutilized Reservations across your accounts and apply Reservations discount usage prior to launching Spot or On-Demand Instances.

Enterprise-grade SLA

In the event where Spot Instances aren't available, Elastigroup will automatically fallback to On-Demand Instances and will revert back to Spot Instances whenever possible, all while persisting your storage, network configuration, and state.



- Headerroom
- Regional RIs
- Flexible RIs
- Standart RIs



Thank you!

Get started for free
<https://spot.io>

**GLOBAL
CONNECT
@SBF**

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your business to
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Questions & Answers

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Thank you!

Questions? Comments?
We'd love to hear from you!

Scan QR Code to give your feedback:



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