
AWS
re:Invent
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Observability that scales: Analyze data in stream and query remotely

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Agenda

What observability looks like in a cloud-focused world

What is the primary hurdle to overcome?

The solution: Analyze in stream, query from remote

Nutanix: Managing observability with terabytes of data every day

Forging a path to observability in the face of tidal waves of data

Q&A

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7–10% of cloud costs are spent on observability

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Observability is accelerating

Observability data comes baked in

It’s more consistent than ever before

Your observability data is available via API

The cloud offers near-infinite storage

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Our practices are evolving

Our virtual machines don’t last for long

Our systems are more distributed

We have many more moving parts

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What is the primary hurdle to overcome?

Data volume: 

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What are we missing in all of this data?

99% of data is never searched

95% of errors are produced by 5 templates

99.99% of queries don’t pass 7 days

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You could lose 30% of your data tomorrow without any impact

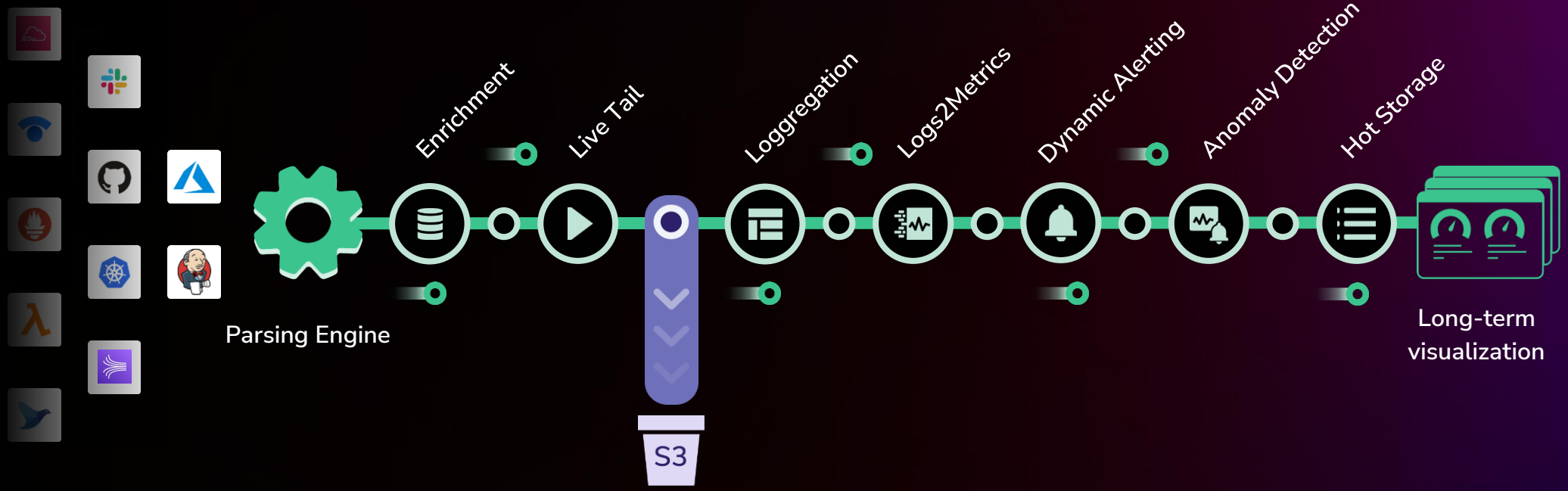
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What can we do about it?

Analyze in stream.
Query from remote.

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A different approach



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Best of all worlds

Essentially, once analysis is no longer dependent on storage, the possibilities for optimizations are practically limitless.

Nutanix is an excellent use case

- 60%+ data is never indexed (compliance use case)
- 20–40% cost savings
- Real-time visualizations and alerting
- Data clustering and version benchmarks

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Customer story: Nutanix

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About Nutanix

Founded in 2009

IPO in 2016
(NASDAQ: NTNX)

6,000+

Worldwide Employees

Industry recognition

Gartner Peer Insights
Customers' Choice for HCI, Files, and Object Store

WORLD-CLASS NPS

90+ Net Promoter Score

LARGE CUSTOMERS

1,700+ Customers with Lifetime Bookings of more > $1M

TOTAL CUSTOMERS

21,000+

Note: Based on data as of Q3FY2022.

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Nutanix: What we do

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Your platform. Any application. Any location.



NUTANIX Cloud Platform

Unified Storage | **Database Service** | **VDI & Frame**

Cloud Infrastructure

- Disaster Recovery
- Container Services
- Network Security
- AHV Hypervisor
- Virtual Networking
- Scale-Out HCI Storage

Cloud Manager

- Application Automation
- Governance
- Self-Service Infrastructure
- AI-Powered Operations

Unified Control Plane – Unified APIs – Security – Lifecycle Management

PRIVATE CLOUD ⟵ **Seamless hybrid cloud operations** ⟶ PUBLIC CLOUD

NUTANIX · Hewlett Packard Enterprise · DELL EMC · Lenovo · FUJITSU · inspur · intel · HITACHI · NEC · IBM

Cloud vendors

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Nutanix insights 101

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Nutanix insights: Predictive health and support automation



Actionable discoveries

Uncovers gaps in cluster health, availability, and performance



Single pane of glass

Health-focused UI spanning clusters, sites, and geographies with an emphasis on the enhanced supportability experience



Smart support

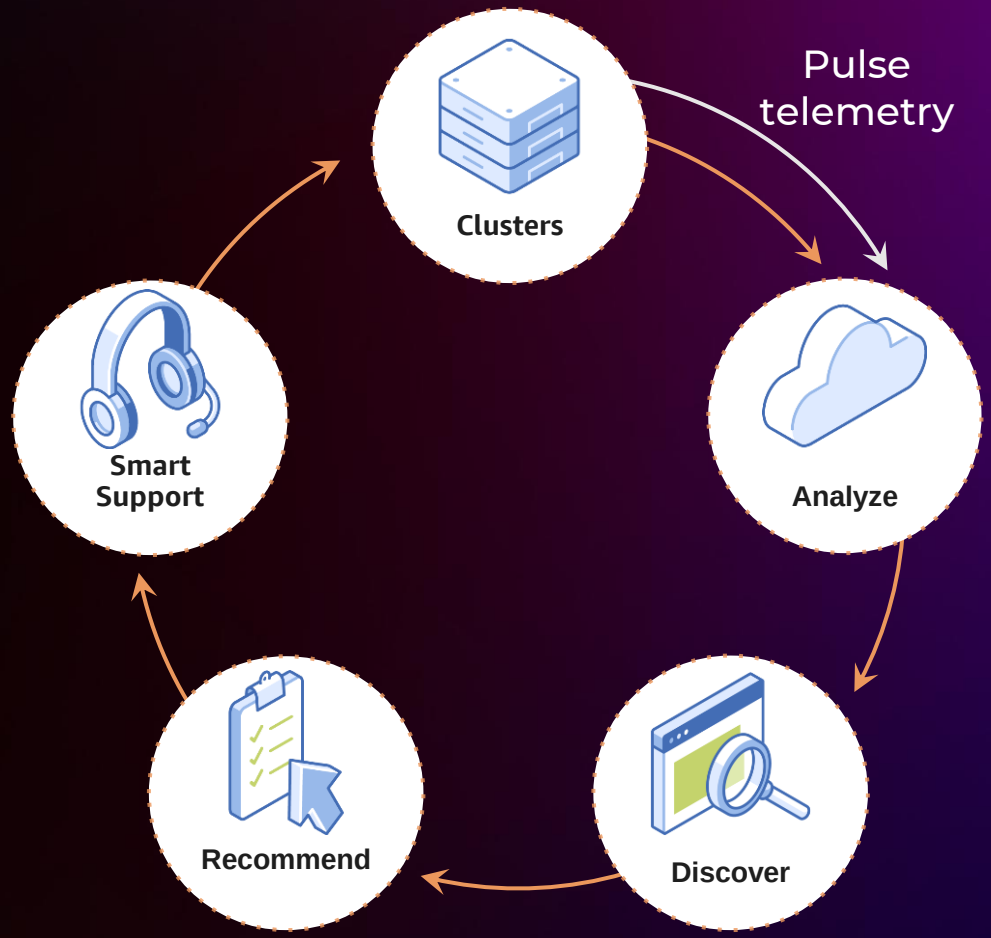
Proactive and automated support workflows

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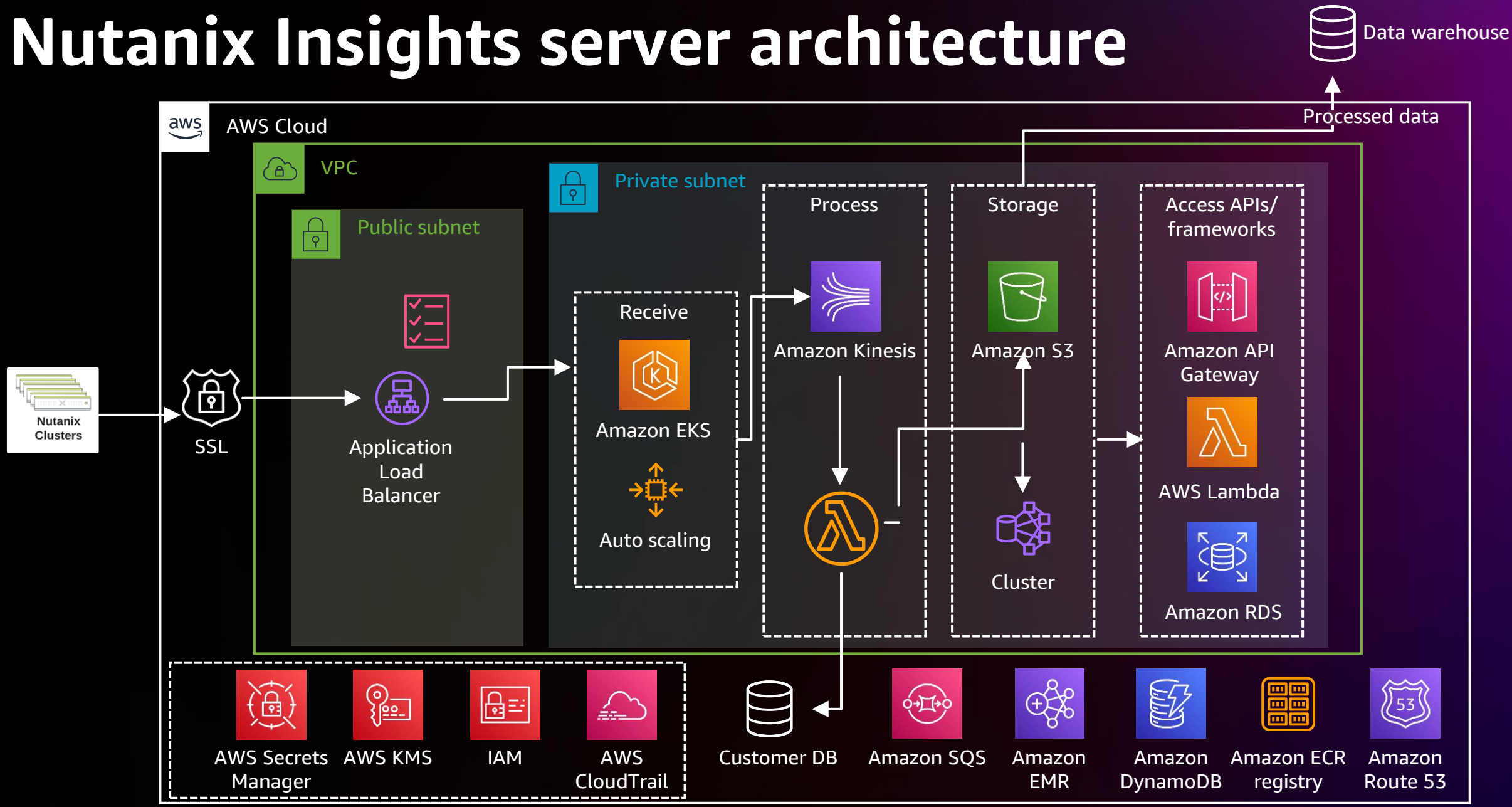
Nutanix Insights: Creating customer delight

1. **Pulse telemetry** enabled on Nutanix clusters
2. **Telemetry data analyzed** by Insights service
3. **Near real-time discoveries** on Nutanix infrastructures
4. Focus on providing **actionable recommendations for easy remediation**
5. Seamless, automated support enabled for **fewer support cases and faster issue resolution**



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Nutanix Insights server architecture



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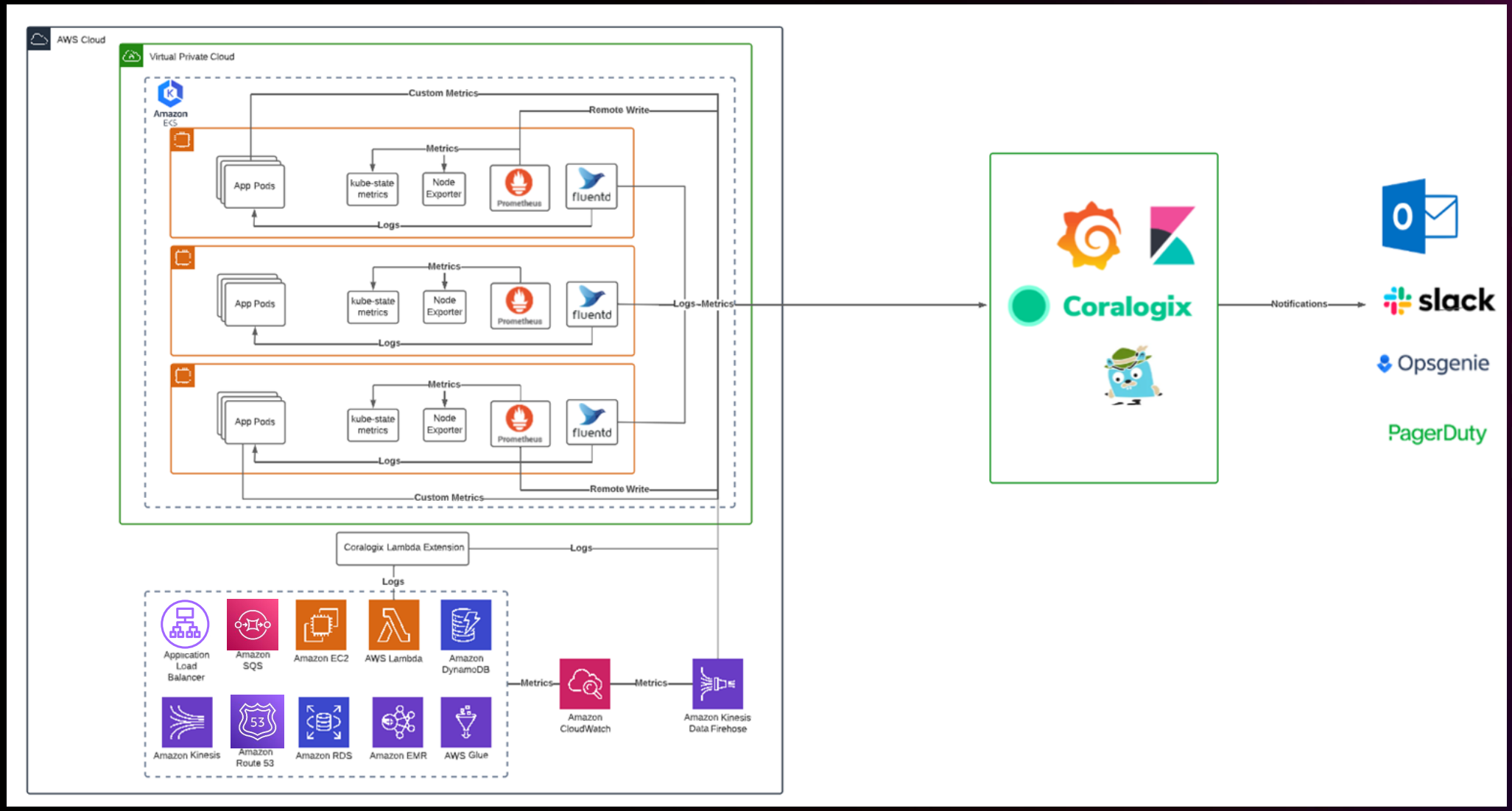
Nutanix Insights infra monitoring requirements

- ✓ Open standards–based SaaS solution
- ✓ Built-in integrations for cloud-native applications and services
- ✓ Full-stack observability – metrics, logs and tracing, security
- ✓ Built-in integrations for email, Slack, PagerDuty, OpsGenie, custom webhooks
- ✓ API-driven: Ability to push data in and pull data out
- ✓ CI/CD integration
- ✓ 24/7 support
- ✓ Lower TCO

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Nutanix Insights infra monitoring with Coralogix



- Full-stack observability
- Open standards integration
- 24/7 support
- Lower TCO

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Forging a new path to observability

In-stream analysis and remote query allows for a harmonious approach to full-stack observability.

Building on this approach, we have built the Streama data analytics engine.

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Forging a new path to observability

Fully open-source integration into Coralogix with OpenTelemetry

Support for logs, metrics, tracing, security

AWS Advanced Technology Partner





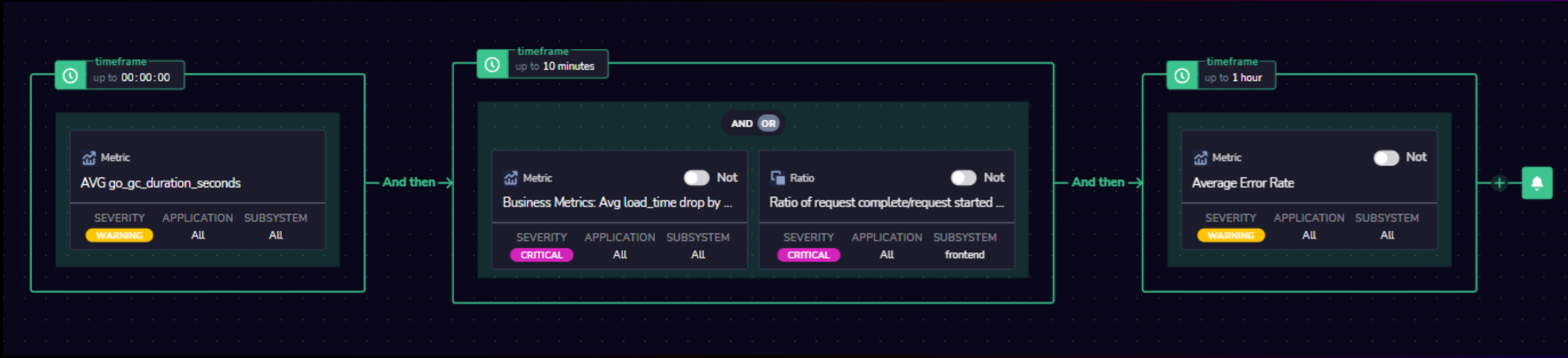
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Forging a new path to observability

Alerting runs in stream, with no scheduled queries and no needless latency

Anomaly detection and dynamic thresholds prevent false positives and identify unknown unknowns

Flow alerts:



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Forging a new path to observability

Query Amazon S3 bucket directly from UI or using the CLI

CX-Data archive format based on Parquet

DataPrime syntax and DataFusion query engine

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Thank you!

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