

The background features a vibrant, abstract design with overlapping, wavy bands of color in shades of blue, green, yellow, orange, and red. On the right side, a bright white light source radiates outwards, creating a starburst effect with sharp, colorful rays that fan across the entire image.

cisco *Live!*

Let's go

#CiscoLiveAPJC



The bridge to possible

Empower an extensible ecosystem with Cisco Observability Platform

Carlos Pereira – Fellow and Chief Architect, Cisco

Laura Vetter – Co-founder and CTO, Evolutio

Raju Penmetsa – Co-founder and CTO, CloudFabrix

BRKAPP-2475

CISCO *Live!*

#CiscoLiveAPJC

Cisco Webex App

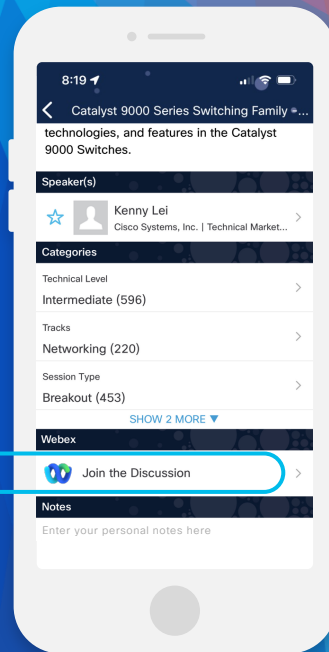
Questions?

Use Cisco Webex App to chat with the speaker after the session

How

- 1 Find this session in the Cisco Live Mobile App
- 2 Click “Join the Discussion”
- 3 Install the Webex App or go directly to the Webex space
- 4 Enter messages/questions in the Webex space

Webex spaces will be moderated by the speaker until December 22, 2023.



<https://ciscolive.ciscoevents.com/ciscolivebot/#BRKAPP-2475>

Agenda

- Full-stack observability (FSO):
 - How we get here
 - What is it and why now
- Cisco Observability Platform
 - Scope and Approach
 - Architecture and Extensibility
- Cisco & Partners Modules
 - Evolutio Modules
 - CloudFabrix Modules

Our Focus: Your Top Priorities



Reimagine applications



Power hybrid work



Transform infrastructure



Secure the enterprise



Journey to sustainability

What is Cisco Full-Stack Observability

Full Stack Observability (FSO) is a requirement for business to deliver the most **optimal and secure experience** to users and applications.

Cisco Full-Stack Observability brings together data from multiple operations domains and derive **real-time insights** helping to:



Focus on what matters most: revenue, user experience, risk, costs



Reduce time to resolution of incidents and performance issues;



Minimize tool sprawl; and



Break down silos by reducing friction among teams, typically infrastructure, security, applications, networking and cloud

Cisco FSO Design Principles

Open

- Based on OpenTelemetry MELT signals, not particular tools or vendors
- Helps consolidate monitoring tools, but you don't need to replace them all
- Don't need 1:1 integrations among all tools

Extensible

- Enables enrichments, customizations and creation of new solutions
- From entity models and MELT workflow up to the UX/UI
- Unique declarative approach to extensibility

Scalable

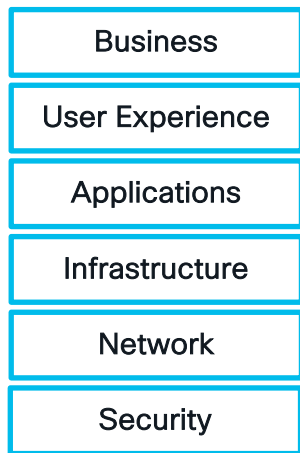
- Streaming pipelines for MELT matched with a unified query language
- Horizontal architecture for high- capacity collection, response, process and execute capability across the multi-tenancy implementation

Flexible

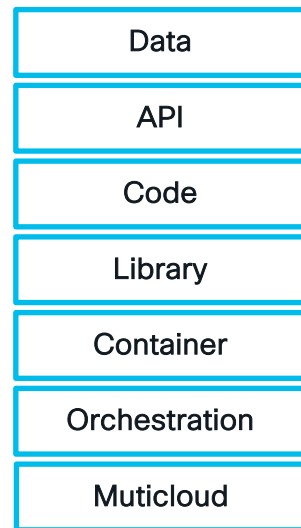
- Pair-wise Integrations and horizontal platform solution/offer
- Use-cases driven
- Consumption based (bundles and value shift)

What is required to enable “full-stack observability”?

The “teams / persona” stack

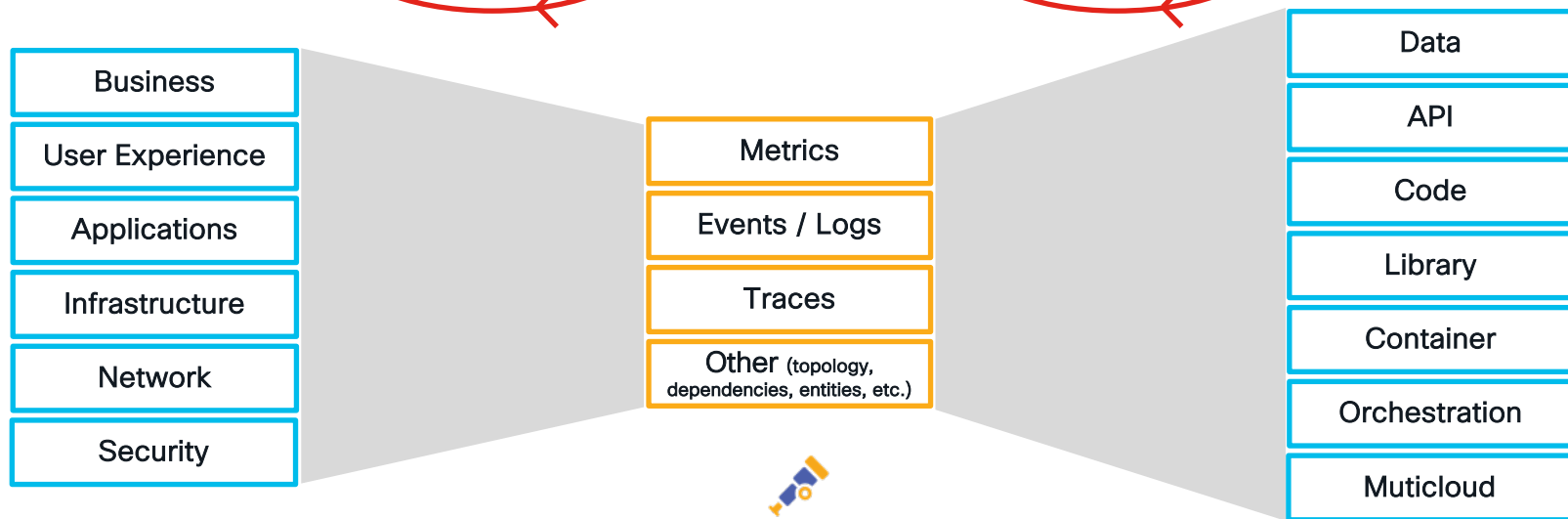


The “application stack”



What is required to enable “full-stack observability”?

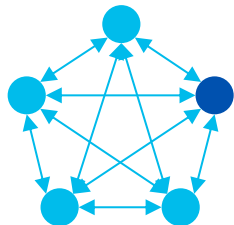
The “teams / persona” stack + The “telemetry data” stack + The “application stack”



M.E.L.T = Metrics, Events, Logs, Traces

Cisco FSO Approach: integrations and platform

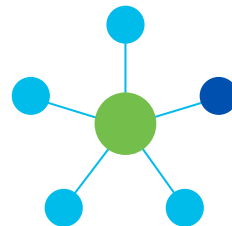
Some business need this



Tools based integration

- Pre-defined scope (associated with teams and tools).
- Doesn't scale as more tools / domains are considered.
- May imply telemetry data redundancy – no common data set
- Matches current paradigm for operations teams / silos.
- Faster and easier to adopt if / when tools are in place.

Businesses are fast moving here



Horizontal Platform for Full-stack Observability

- Ingestion based on MELT signals (Open Telemetry), not tools.
- New use-cases creation (extensibility)
- Collaboration among all operations domains;
- Enables AI / ML across common data set;
- Cost / resources optimization (helps reduce tools sprawl)

Many customers will have both models for some time

Cisco Full-Stack Observability Architecture

USE CASES & SOLUTIONS

Hybrid Cost Optimization

Customer Digital Experience Monitoring

Application Security

Partner Solutions & Custom use-cases

Hybrid Application Monitoring

Cloud Native Application Observability

App Dependency Monitoring

App Resource Optimization

BUSINESS CONTEXT

Business Impact

Business Risk

Business Experience

Business Operations

SERVICES

Applications Performance Monitoring

Network and Internet Monitoring

Application Security Monitoring and Action

User Digital Experience Monitoring (DEM)

Applications Resources Optimization

Multi Cloud Infrastructure and Cost

Extensibility

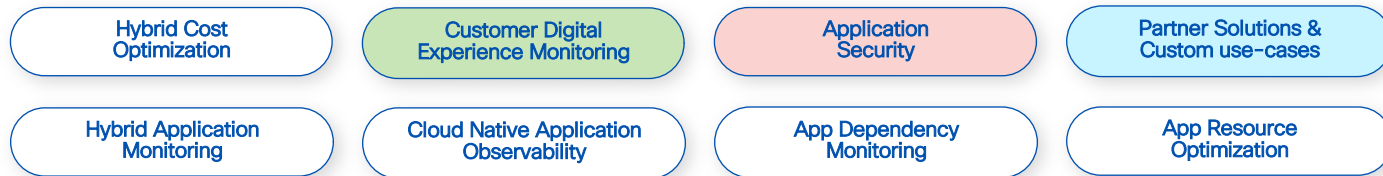
PLATFORM



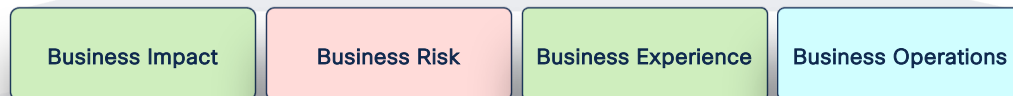
X – MELT | Advanced Traces | Advanced Correlation and Insights (Real Time and Predictive) | Transformation | AI/ML
OpenTelemetry | Network Telemetry | Security Telemetry | Cloud Advanced Telemetry

Cisco Full-Stack Observability Architecture

USE CASES & SOLUTIONS



BUSINESS CONTEXT



SERVICES

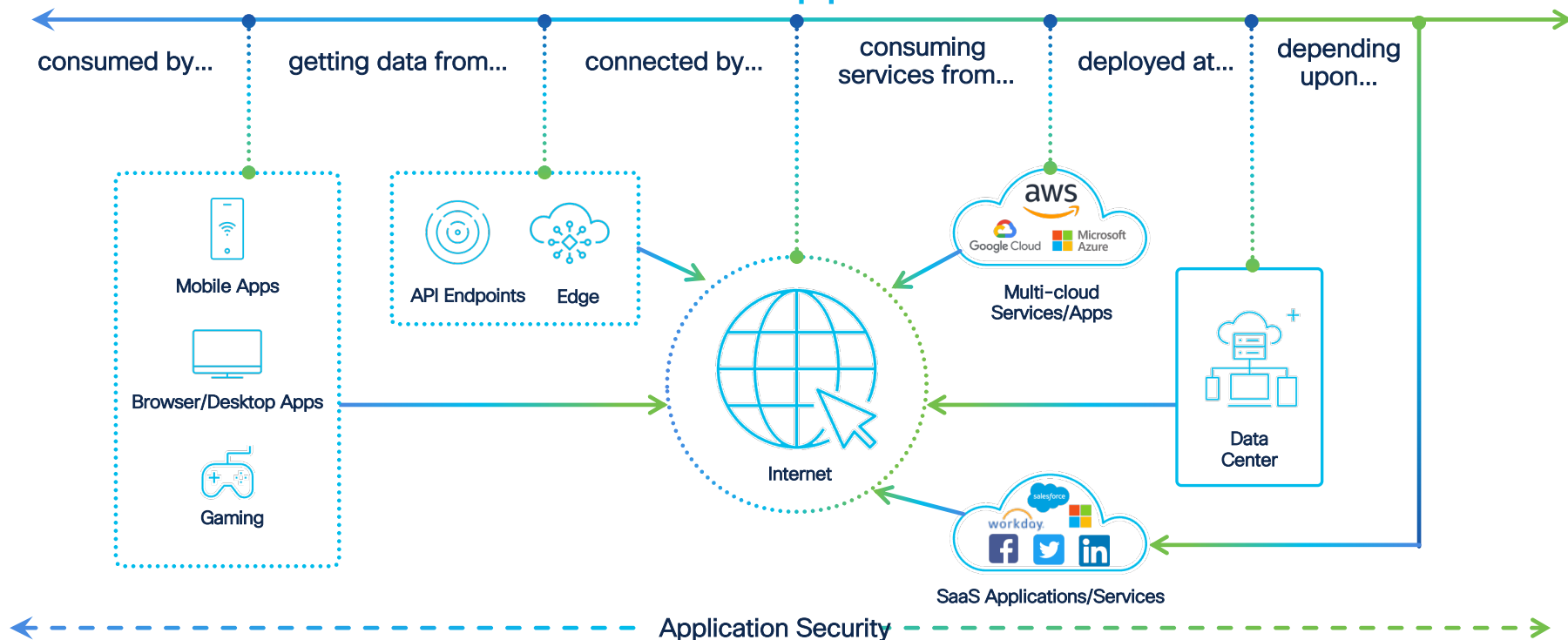


PLATFORM



Customer Digital Experience Monitoring Journey

Business Application



Customer Digital Experience Monitoring

- AppOps perspective

Real-time ingestion of OTEL-based network metrics and integration of Network

Intelligence from **ThousandEyes** into **AppDynamics**



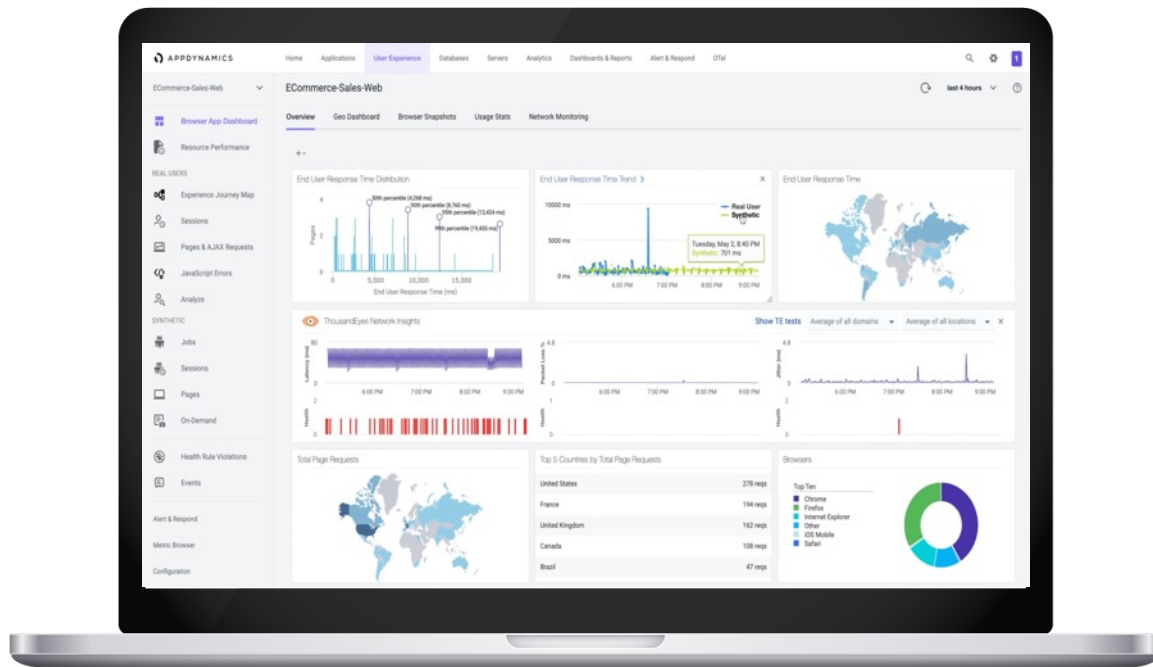
Correlate business results with application, network, and internet performance



Understand how application, hybrid cloud, and internet performance affect user experience



Triage workflows across AppOps and NetOps seamlessly



Customer Digital Experience Monitoring

- NetOps perspective

Real-time Application Dependency mapping from **AppDynamics** sent to **ThousandEyes** for recommending test templates and providing visibility of application health



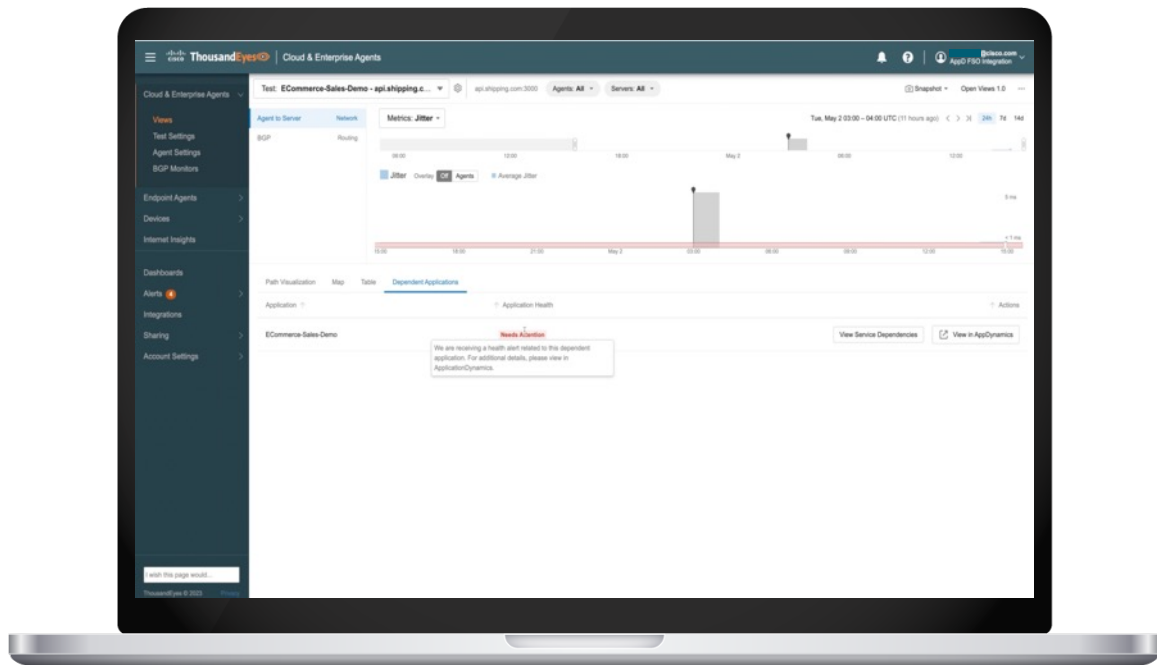
Gain end-to-end visibility across your enterprise, Internet, and end-user devices



Streamline workflows by providing actionable recommendations with pre-configured test templates



Prioritize network remediation based on business impact by providing visibility of application health data



What's next for end-user experience monitoring

RECORDINGS

What's wrong with my mobile app or website?

EVENTS

Do users do what you want them to?

HEATMAPS

What are the most crucial page elements?

FUNNELS

Where and why do users drop off?

BEHAVIOR FLOWS

Where do you lose users?

DASHBOARDS

What are the most important data?

INTEGRATIONS



Business Risk Observability for Applications

Provides the business context needed to rapidly assess risk and align teams based on potential Impact



Business Context Mapping

Mapping vulnerabilities and attacks to common transactions provides the business context to help you quickly understand the location and impact of threats.

+

Vulnerability and Threat Intelligence

Threat intelligence feeds from multiple yet complementary sources provide the threat context to understand the likelihood of threat exploits.

=

Business Risk Scoring

Scoring composited from analysis of runtime behavior + business impact + intelligence provides complete business risk context to instantly assess and prioritize action across ITOps and SecOps teams.

Cisco Business Risk Observability in action

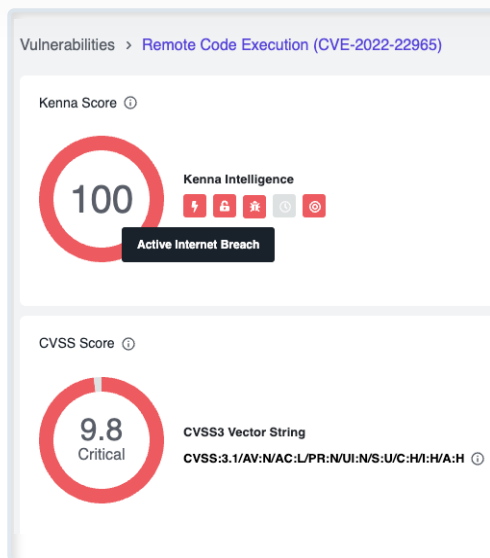
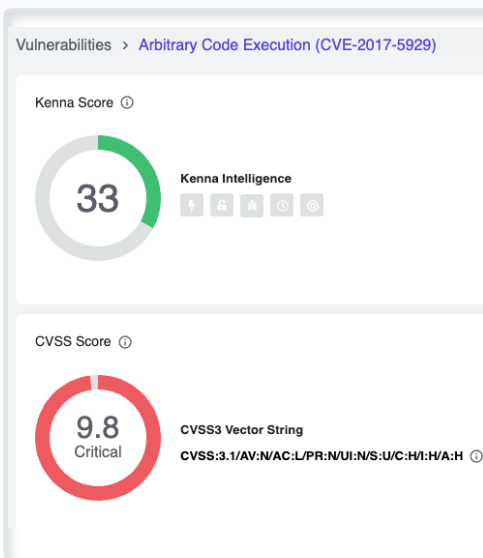
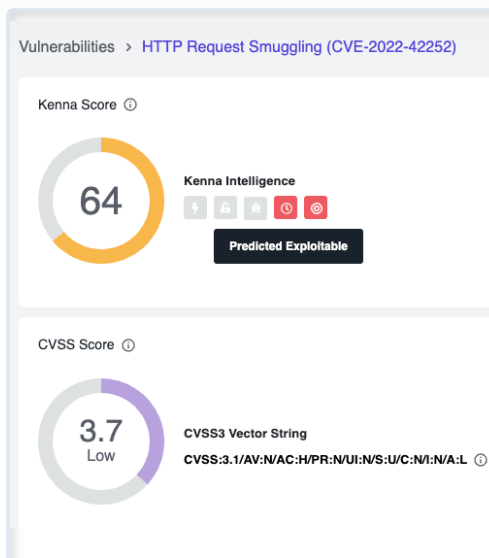
Per Business Transaction

High risk of exploitation with a correlated high business impact. Operator must act due to active nature of threat.

Differentiate between what's important versus what's urgent. High severity, but low likelihood of exploitation or business impact

Operator often ignore this case due to low CVSS score, but must act because of high business risk and impact potential

Real-time Score:
Estimate of the likelihood of exploitation based on what is happening in real-time.



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 - CloudFabrix Modules

Cisco Observability Platform

Simplified experiences and Extensibility

Scale
and performance

Unified
experience

Extensible



Anchored
on MELT



Provides fully
extensible entity-
based data model



Natively supports
OpenTelemetry



Provides Unified
Query language

Extensibility

X-MELT | Advanced traces | Advanced Correlation and insights (real time and predictive) | Transformation | AI / ML
OpenTelemetry | Network telemetry | Security telemetry | Cloud advanced telemetry

Cisco FSO Platform – Extensibility and solutions

Architecture, Differentiation and Ecosystem

Solutions / Apps / Modules

(from Cisco and Ecosystem of Partners*)

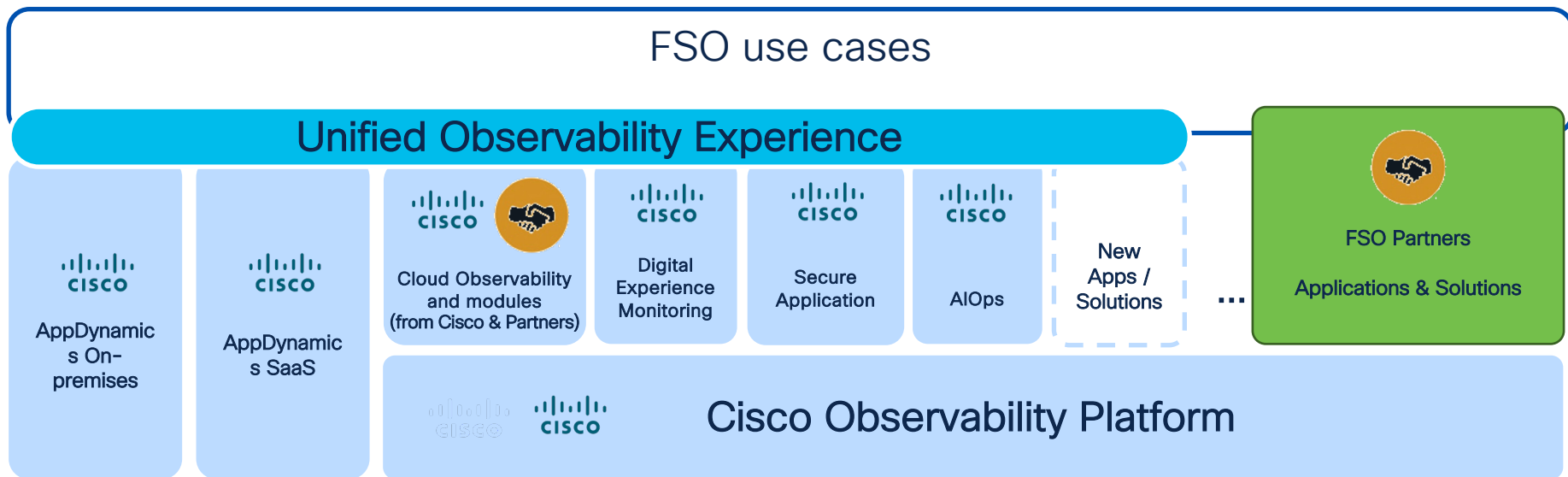
Extensibility*

(Entity and object models / MELT workflows / IO / RBAC / User Interface, etc.)

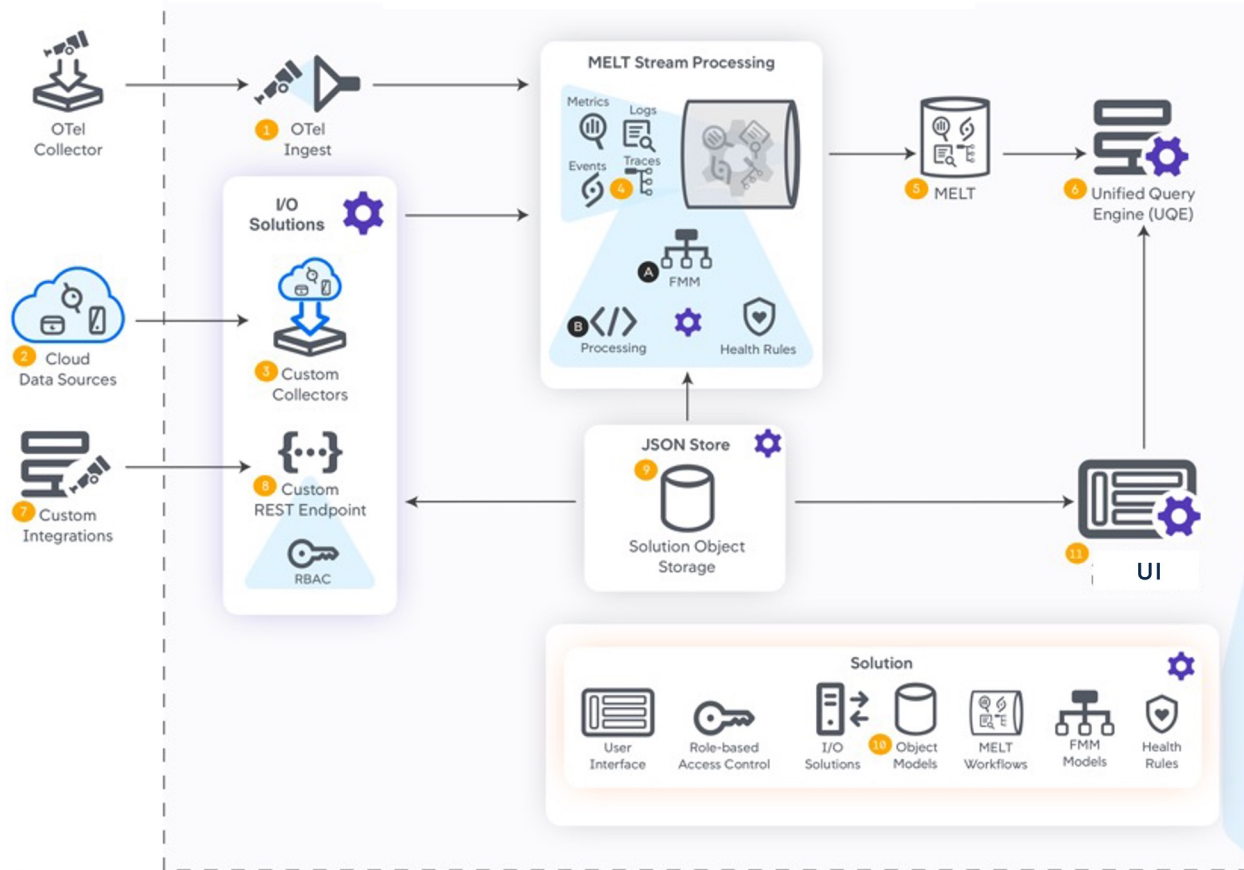
X – MELT | Advanced Traces* | Advanced Correlation and Insights (Real Time and Predictive) | Transformation | AI/ML
OpenTelemetry | Network Telemetry* | Security Telemetry* | Cloud Advanced Telemetry

*Cisco differentiation

Cisco Full-Stack Observability – Future State

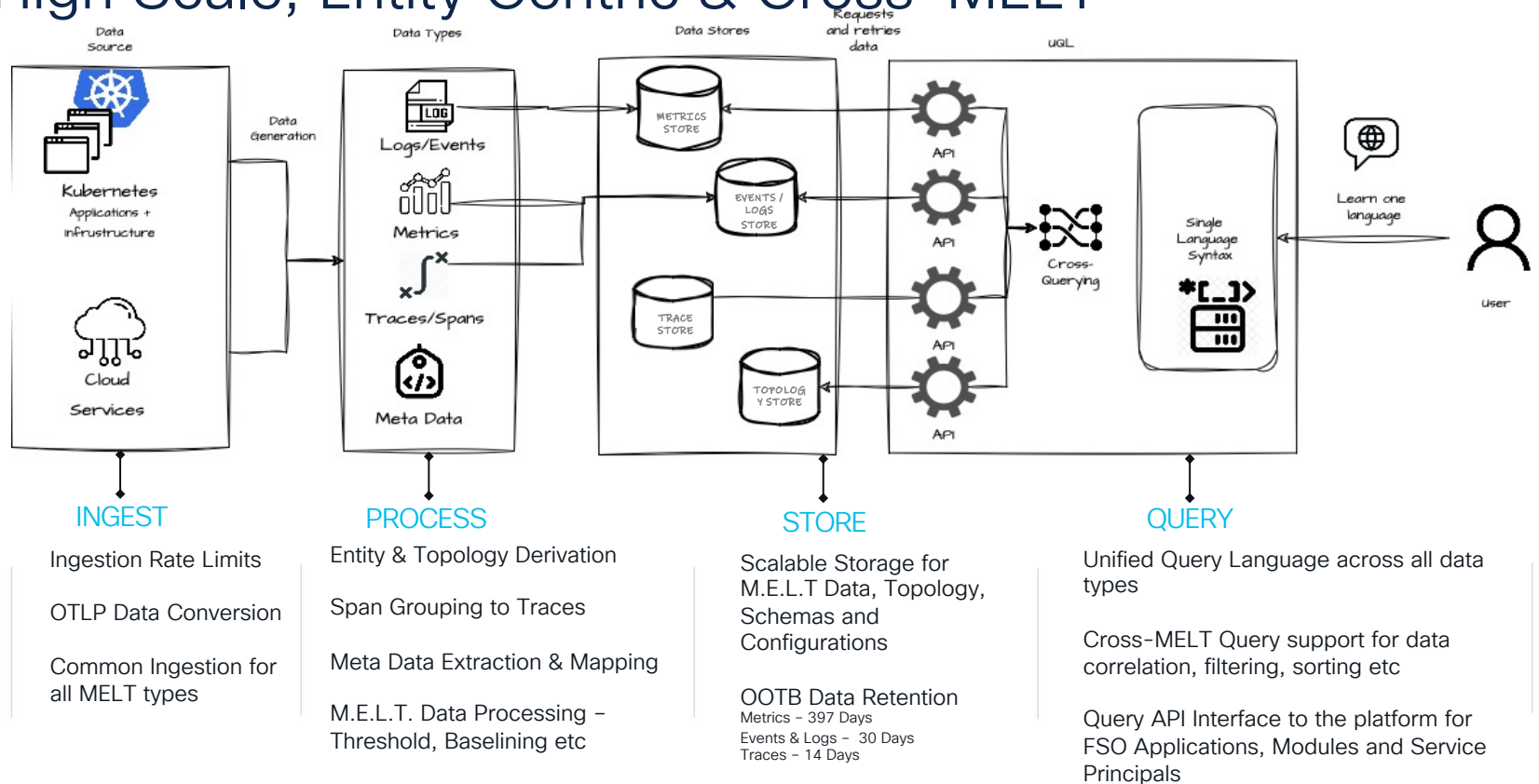


Cisco Observability Platform

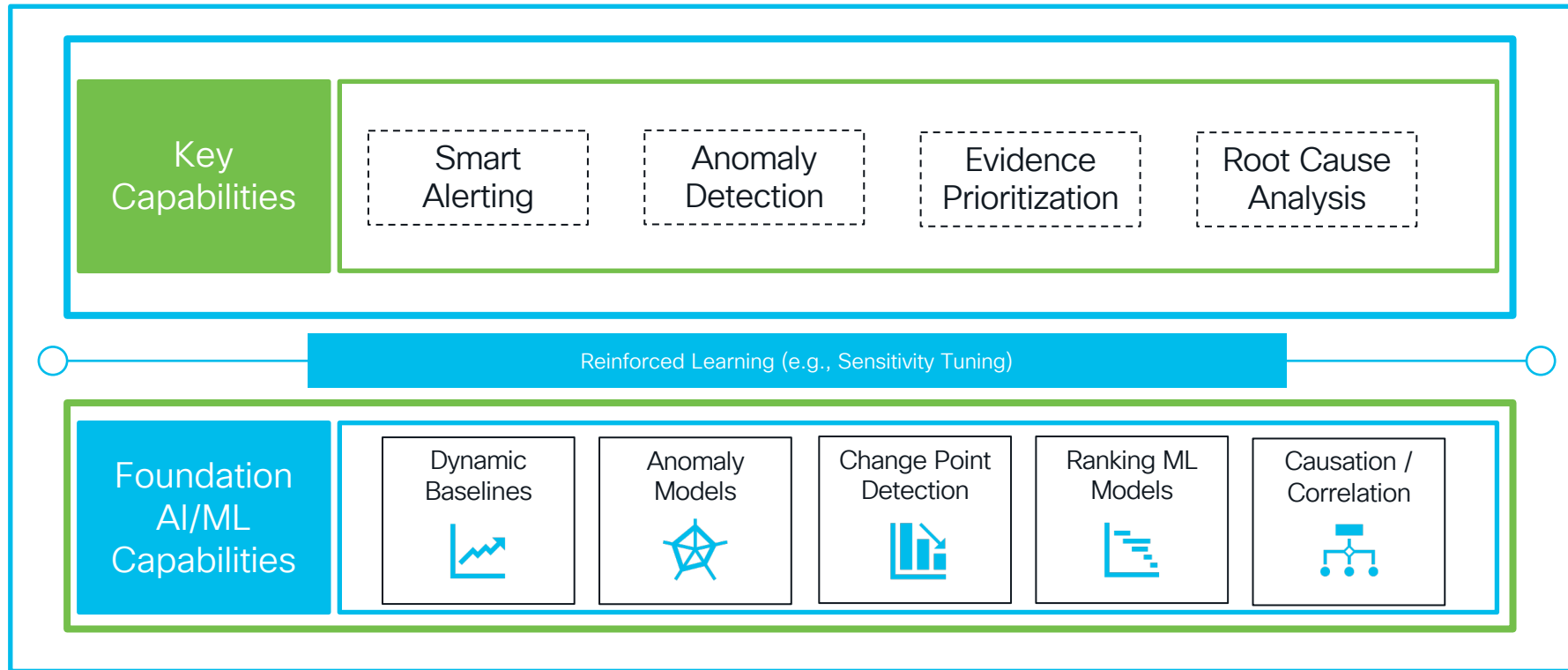


Cisco Observability Platform

High Scale, Entity Centric & Cross-MELT



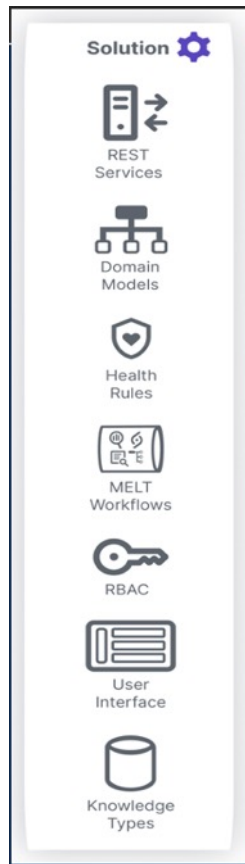
AI/ML Driven



Anatomy of a Module

Developers can build Observability modules / enrichments

- Cisco Cloud Observability modules are manifested by building a solution package and submitting it to the Cisco Observability Platform
- Model it once, reuse for multiple use-cases leading to operations optimization at scale
- Solution package can comprise of
 - new or extended entity domain models,
 - MELT configs,
 - data transformation workflows,
 - REST services and custom collectors
 - new or extended UI templates etc.



Cisco Observability Platform Extensibility Solution Package

A declarative collection of Cisco FSO platform components, the instruction set programmed by the user and packaged as a zipfile



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Cisco Observability Platform

Apps & Modules (by Dec/2023)

Cloud Native Application Observability

 **Cost Insights**
Cisco

Cost Insights provides granular cost data and analysis to help leaders and Financial Ops (FinOps) understand and manage costs associated with an application and infrastructure in the cloud.

[Learn More](#) [Subscribed](#)

 **Application Resource Optimizer**
Cisco

Application Resource Optimizer provides the ability to optimize cloud workloads and provides recommendations to cloud practitioners on how to optimally run workloads in the cloud.

[Learn More](#) [Request](#)

 **Kanari Capacity Forecaster**
Kanari

The Kanari Capacity Forecaster adds machine learning capabilities to the FSO platform. Leveraging the powerful ecosystem of Azure Data Factory and Kanari algorithms, proactive management based on any metric will be available.

[Learn More](#) [Request](#)

 **Cisco Secure Application**
Cisco

Cisco Secure Application provides business risk based visibility of security issues so DevOps teams can prioritize fixes for cloud native applications to reduce the risks associated with an application, its data and infrastructure in the cloud.

[Learn More](#) [Subscribed](#)

 **E-Commerce by Evolutio**
Evolutio, LLC

Our E-commerce solution is designed for enterprise retailers to track a shopper's journey while highlighting retail operations such as the cart service, inventory, checkout, shipping, and their KPIs

[Learn More](#) [Subscribed](#)

 **SAP Observability**
CloudFabrix Software, Inc.

Insights into SAP Landscapes across Infrastructure, Business and Applications

[Learn More](#) [Subscribed](#)

 **Service Level Objectives (SLO)**
Nobi9, Inc.

Display and track Nobi9's service level objectives (SLOs) in the FSO platform.

[Learn More](#) [Subscribed](#)

 **K8s Cost and Workload Profiler**
Cisco

The AppDynamics Cloud Efficiency and Risk Profiler analyzes workloads running on a Kubernetes cluster to identify performance and reliability risks and inefficient configurations.

[Learn More](#) [Subscribed](#)

 **Fintech by Evolutio**
Evolutio, LLC

For banks, financial institutions, and other highly transactional businesses to gather and view multiple data sources in a single place to best understand user experience. This module allows CIOs to correlate different bank objects, such as physical branches, financial data centers, POS, networks, cloud environments, geographies and more. This is a module built by Evolutio exclusively for the Cisco FSO platform.

[Learn More](#) [Subscribed](#)

 **vSphere Observability**
CloudFabrix Software, Inc.

This module seamlessly integrates vSphere telemetry into Cisco FSO Platform with enriched and open observability. It transforms vSphere metrics, events, and logs into Open Telemetry format and adds contextual intelligence, establishes end-to-end application dependency map, and visualizes all this data in AppDynamics Cloud for enhanced and unified observability experience.

[Learn More](#) [Subscribed](#)

 **Claims by Evolutio**
Evolutio, LLC

Our claims solution enables insurance providers to know exactly where processing stands, in real-time, by state, region, policy types, and more. These claims process insights help identify any stalls or issues that arise.

[Learn More](#) [Subscribed](#)

 **Campus Analytics**
CloudFabrix Software, Inc.

Analytics and Insights for Return to Work use case for Enterprise and Telco Campus Networks

[Learn More](#) [Subscribed](#)

 **Cloud Carbon Insights**
Climatiq Technologies GmbH

Automatically measure and monitor the the carbon footprint of your cloud infrastructure.

[Learn More](#) [Subscribed](#)

 **MLOps by Evolutio, Powered by DataRobot**
Evolutio, LLC

MLOps by Evolutio, Powered by DataRobot seamlessly merges best-in-class machine learning monitoring with streamlined operational efficiency. Experience enhanced anomaly detection, centralized data management, and advanced model categorization, ensuring your machine learning deployments are always at peak performance.

[Learn More](#) [Subscribed](#)

Example: Cost Insights module

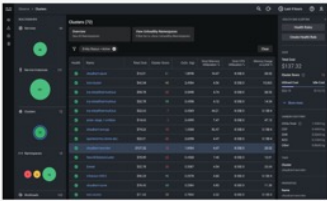
FSO Platform Exchange

Cloud Native Application Observability

← Back

 **Cost Insights**
a Cisco FSO Module

Subscribed



Information

Cost Insights is a module built on the Cisco Full Stack Observability (FSO) Platform that enriches Cloud Native Application Observability. The Cost Insights module leverages the existing customer metrics of the FSO platform, analyzes the workloads running in cloud and cloud-native infrastructures, and generates detailed cost data for all infrastructure workloads and services. The module then ingests the cost information as a new metric displayed in AppDynamics Cloud in the entity-centric pages (ECPs) such as APM, Kubernetes®, and Hosts.

Version
1.0.0

Developer
Cisco
fso-request@cisco.com

Support
[Documentation](#)
[Support Site](#)

Benefits

This Module will add the following items to Cloud Native Application Observability:

- Cost Insights can provide cost details on the most granular level of your infrastructure, such as containers and pods, and those cost details can be rolled up to all types of workloads, namespaces, and clusters.
- Cost Insights integrates with your FSO tenant and tracks key usage and cost metrics.
- Each persona will be able to see the total cost of their spending and the breakdown into efficiency (utilized cost vs. idle cost) of the resources. As a result, it enables them to make informed decisions to reduce costs or make better investments.

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#CiscoLiveAPJC

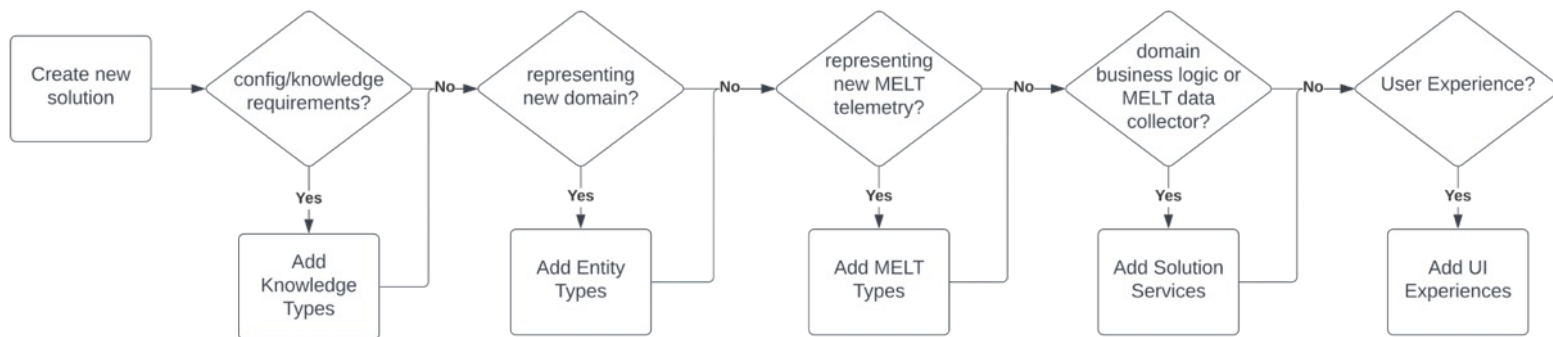
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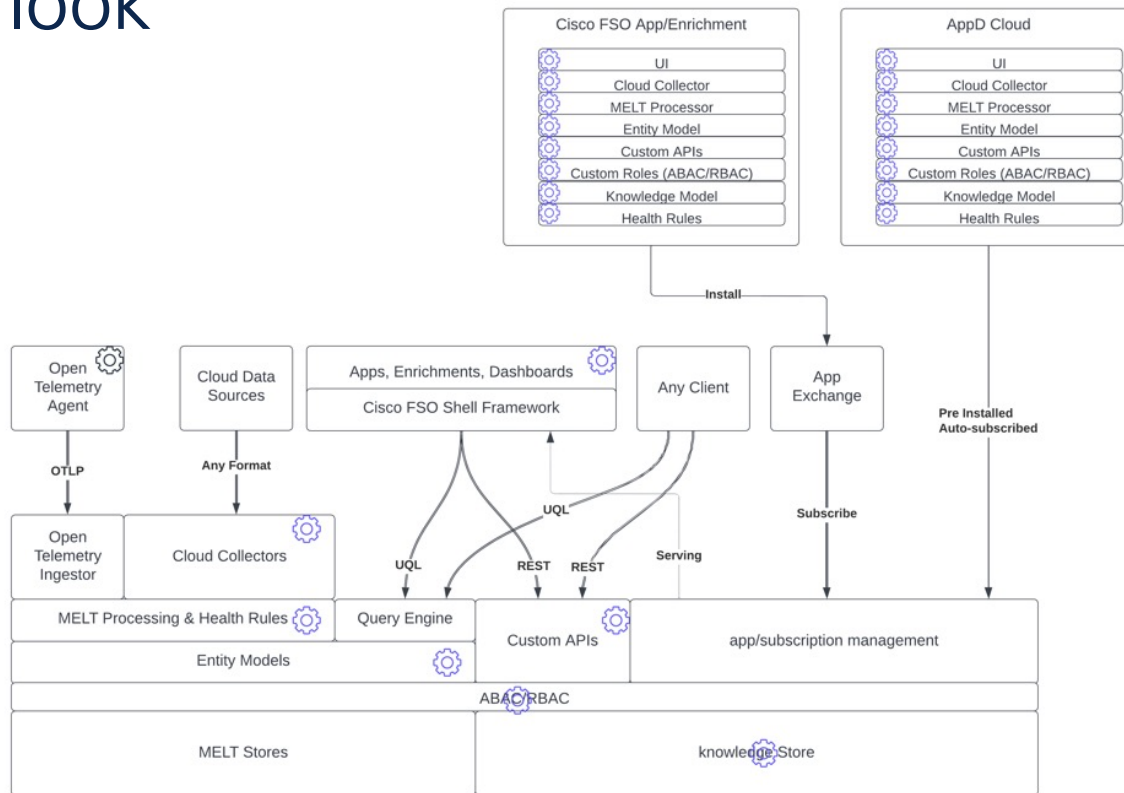
33

Cisco Observability Platform – Extensibility flow

Solution package creation flow example

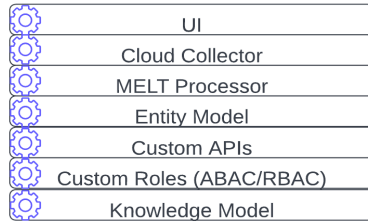


Cisco Observability Platform Extensibility – a deeper look

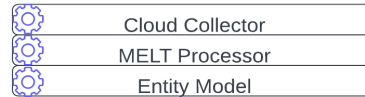


Cisco Observability Platform comprehensive Solution model

Complex Standalone Cisco FSO App



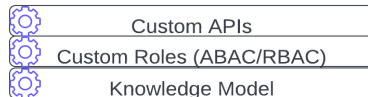
Data Ingestion App



Visualizations App/Enrichment



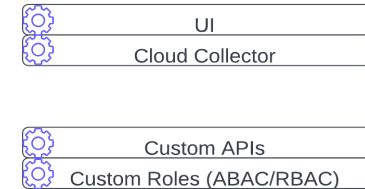
Knowledge Modeling App/Enrichment



Cloud/Infra Models

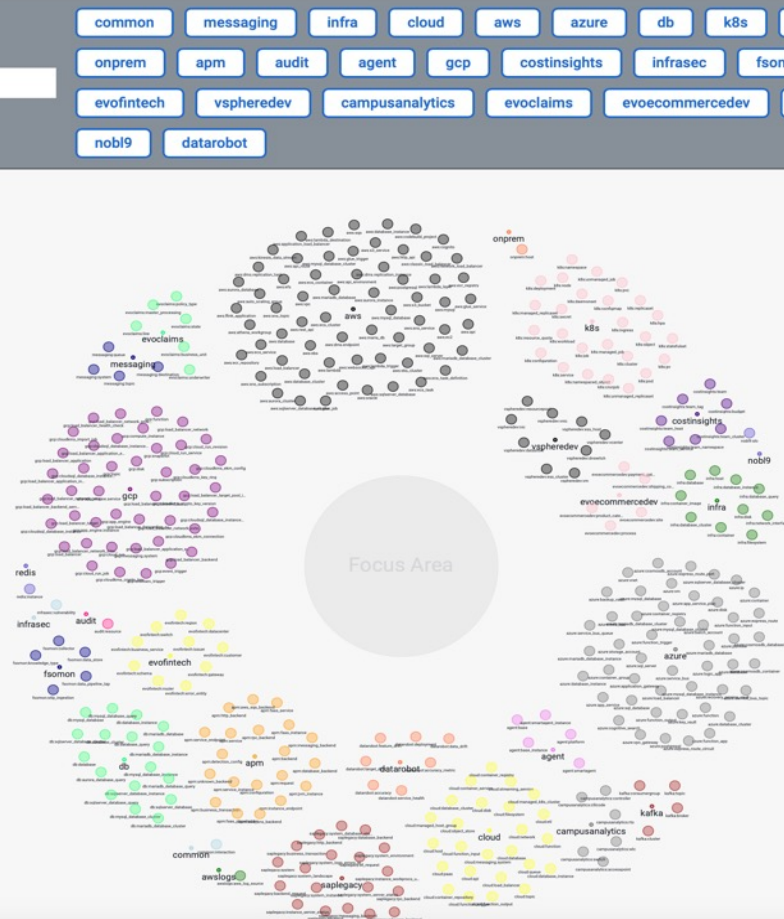


Integration App



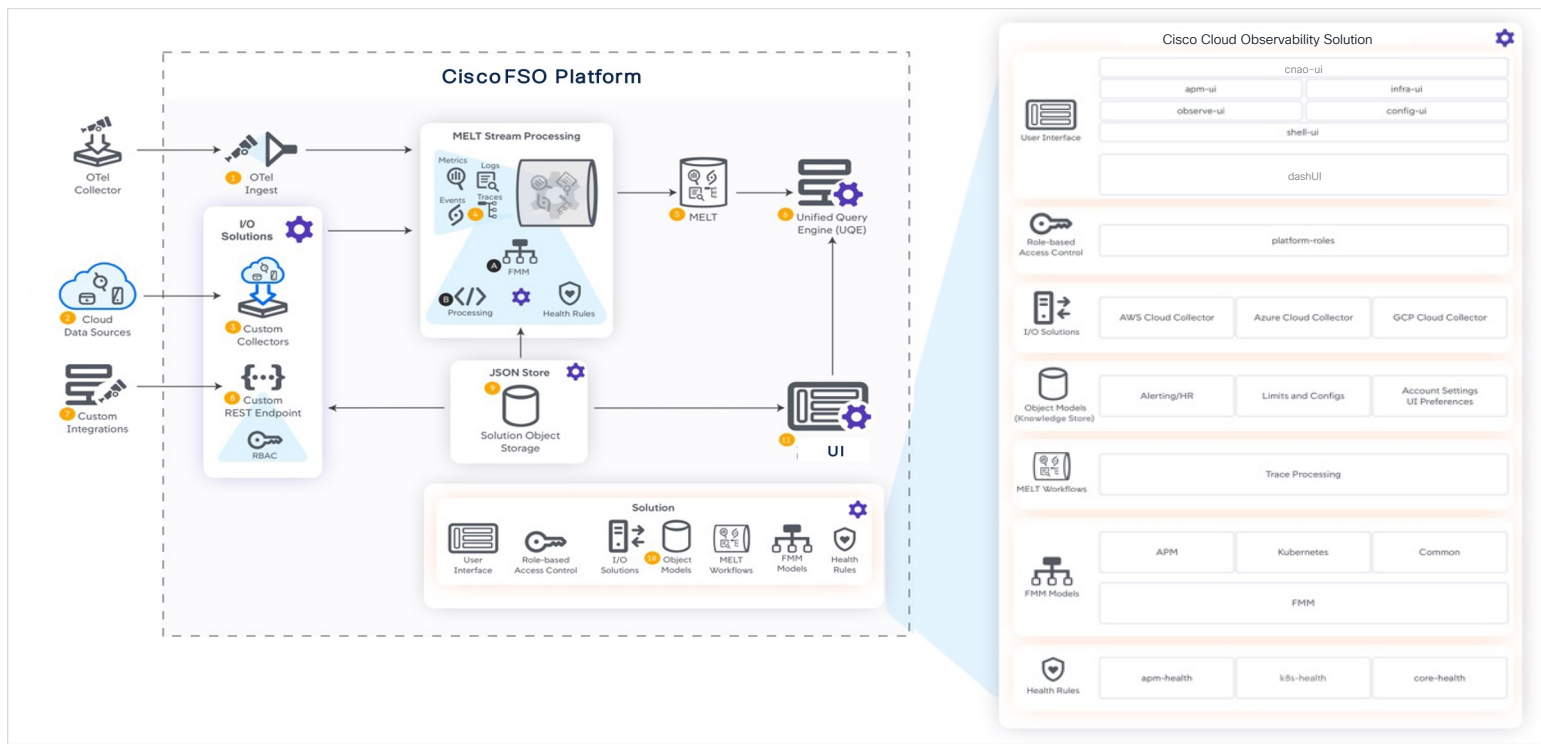
🔍 Filter by name

Events (50)

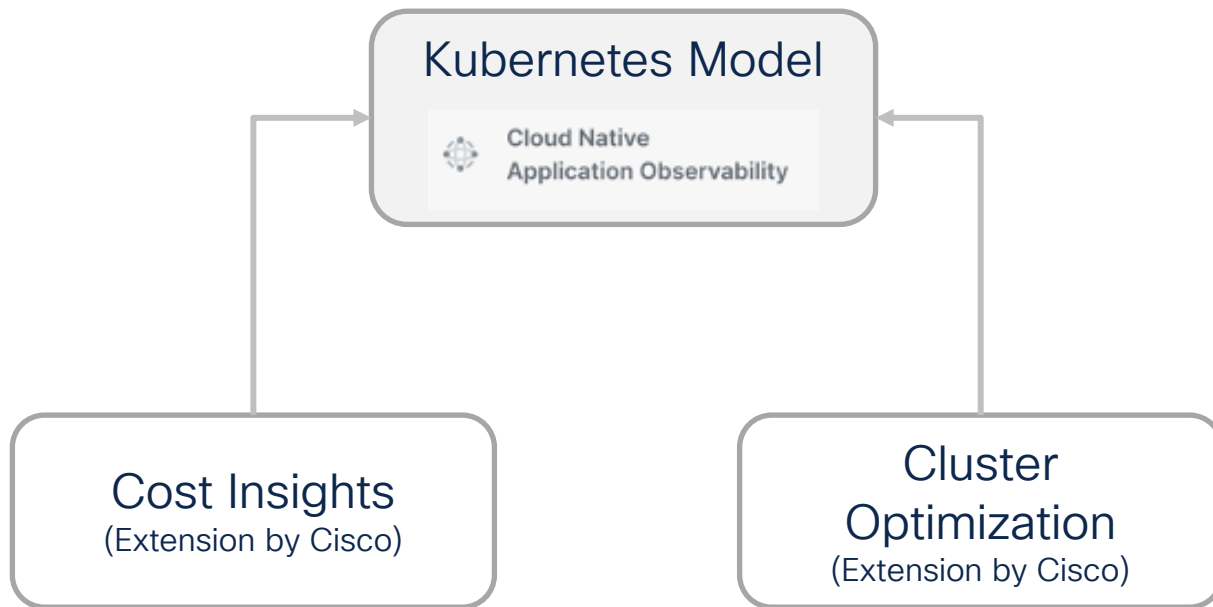


Example: Cisco Cloud Observability app / solution

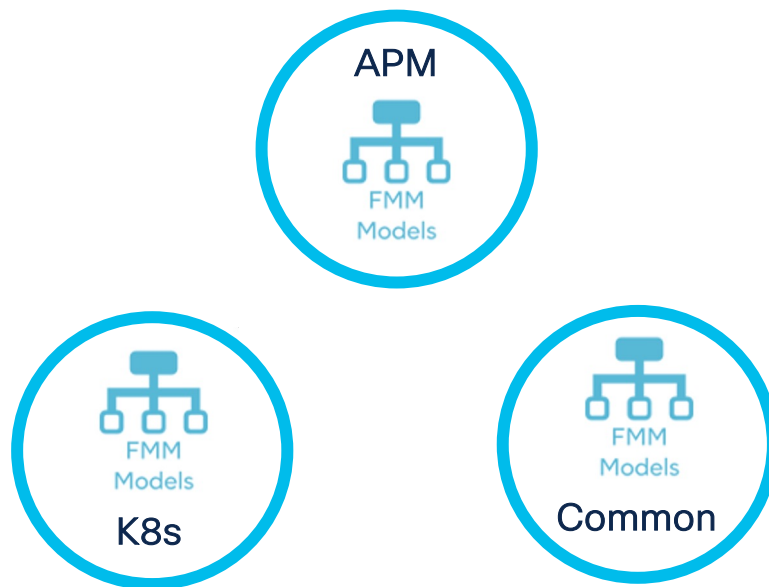
A complete application on Cisco Observability Platform



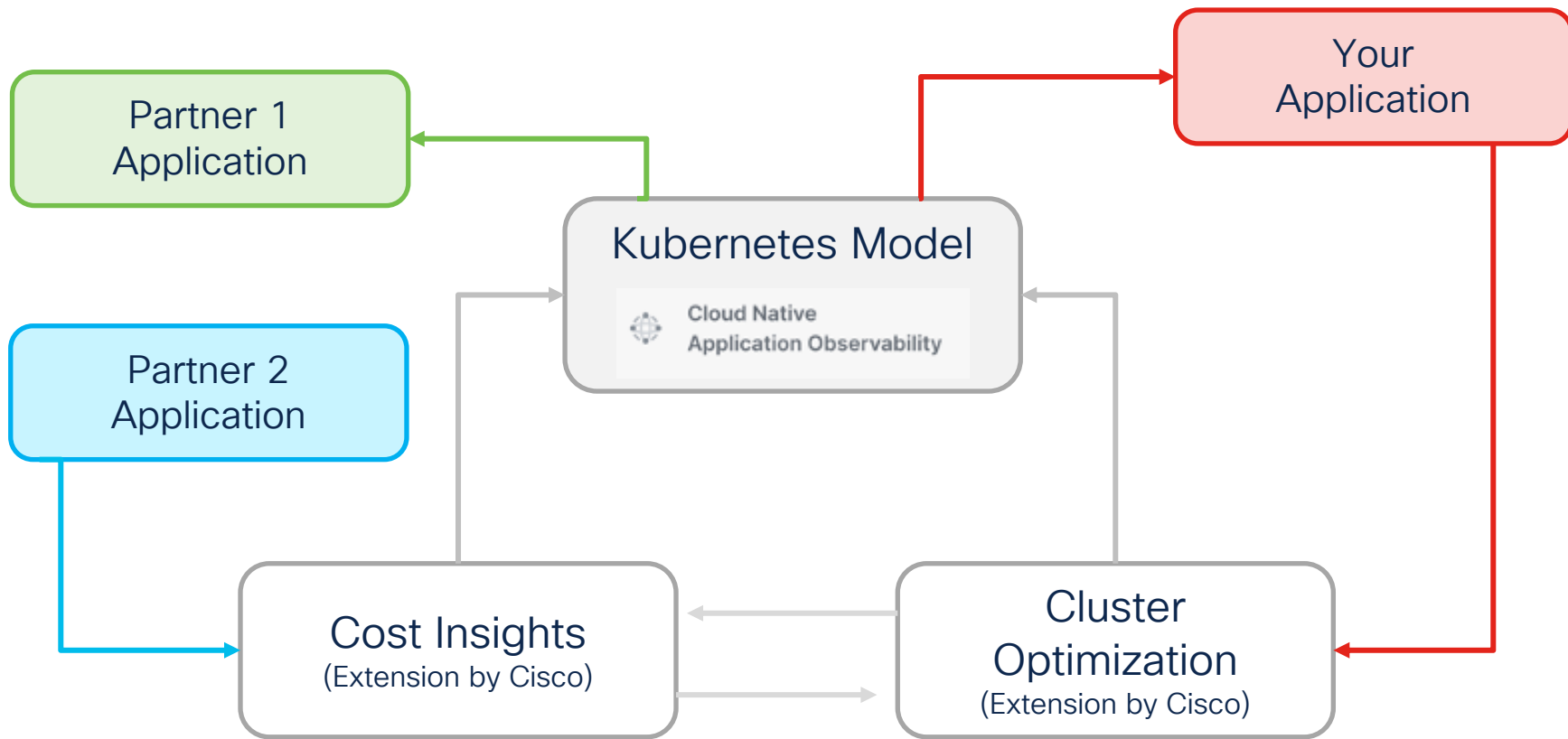
Example: Extensibility via entity model enrichments



Ex.: Cost Insights @ Cisco Cloud Observability



Example: mutually beneficial relationships



Security Insights Module



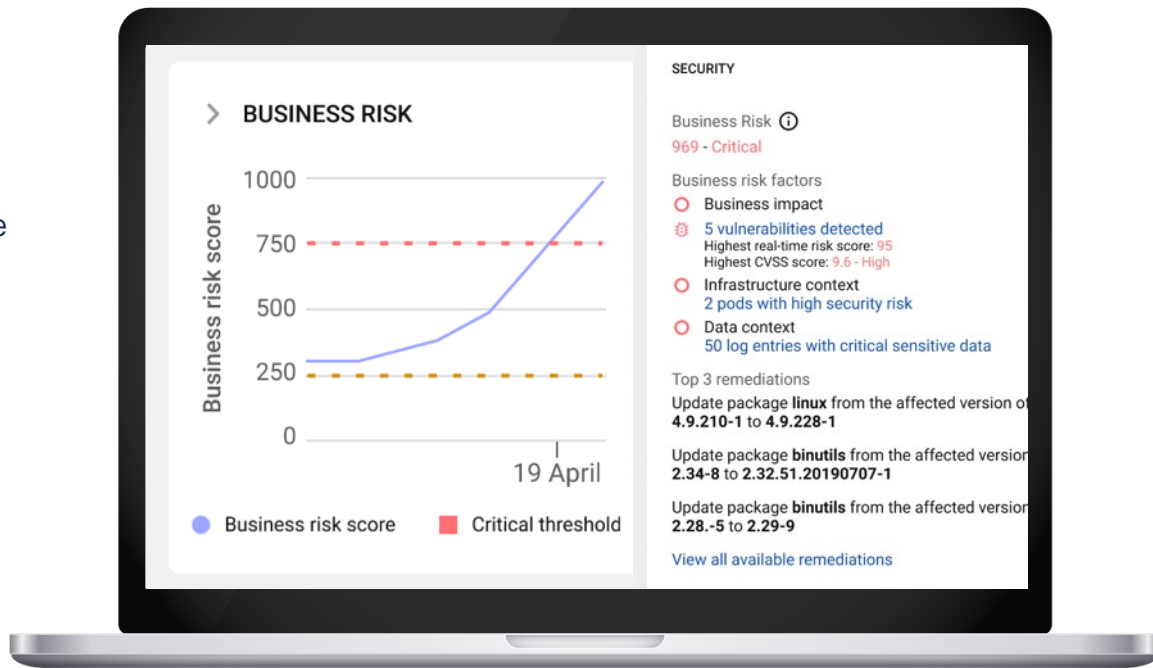
Locate and highlight threats and vulnerabilities across k8s and containers, securing deployment of modern applications on k8s



Detect and protect against leakage of sensitive data with pre-defined expressions to ensure compliance



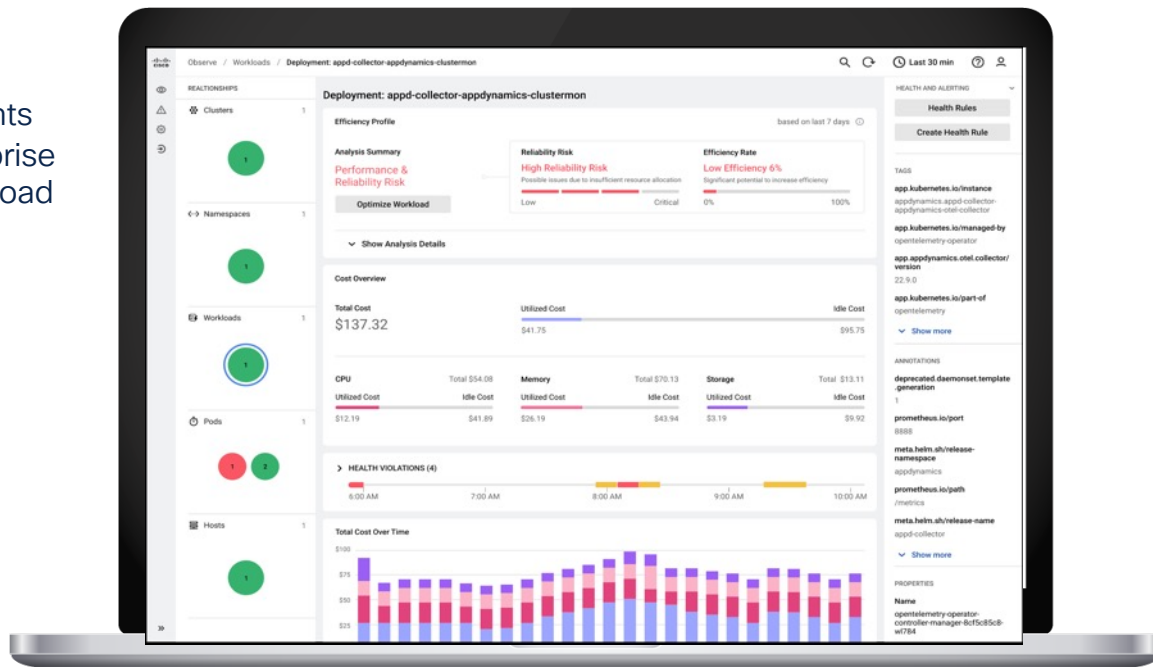
Combine threat and vulnerability intelligence from Cisco Kenna and Panoptica with business impact and runtime behavior to provide a business risk score



Cost Workload Profiler



Provide efficiency and risk insights on Kubernetes workloads to apprise customers of the potential workload efficiency opportunities



Cost Insights



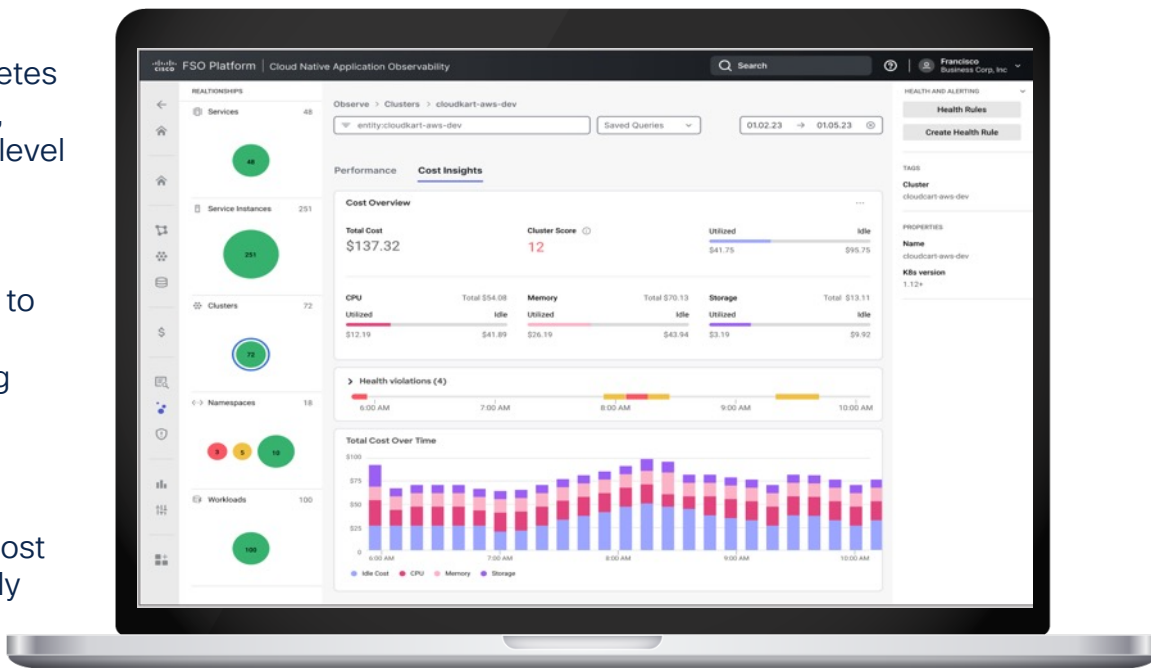
Provides cost analysis of Kubernetes resources and visibility at cluster, workloads, namespace and pod level for an application helping to gain deeper visibility into cloud spend



Compare allocation of resources to their usage and identify over-provisioned resources and saving opportunities



Ability to track costs overtime to understand spend and manage cost of cloud native services effectively



Application Resource Optimizer



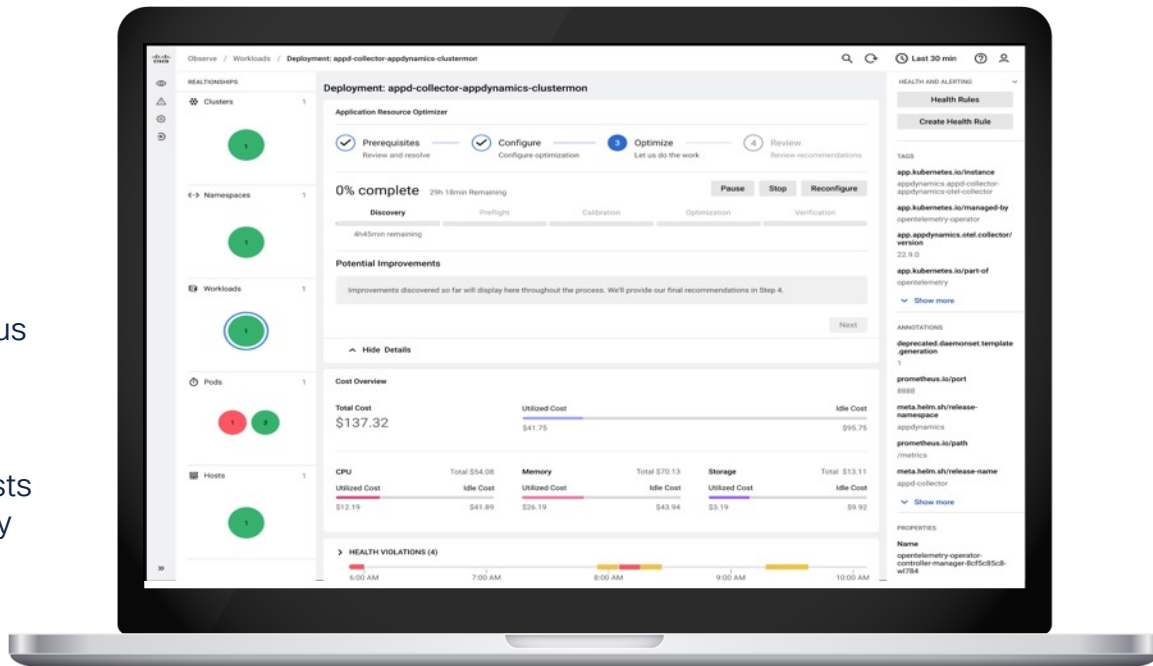
Provide deeper insights into a Kubernetes workload and provide visibility into the workload's resource utilization



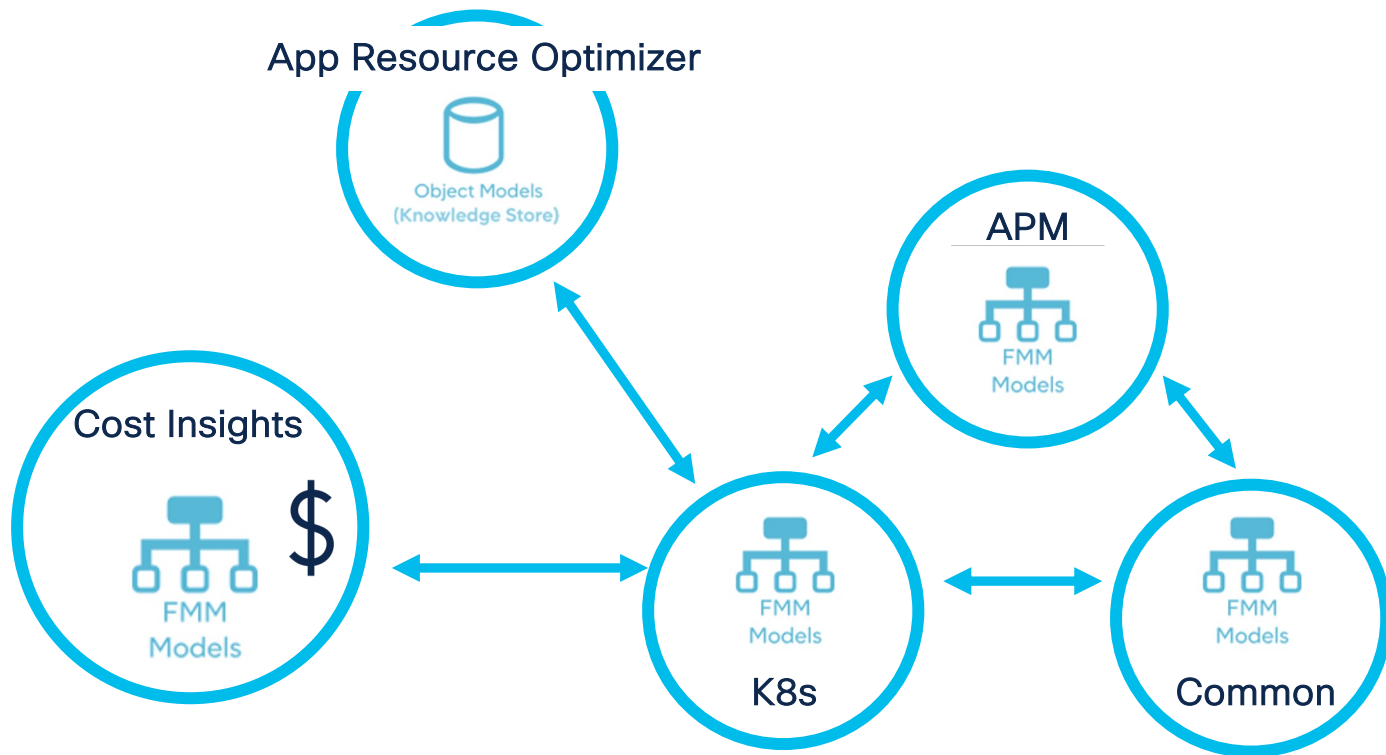
Analyze and optimize application workloads to maximize resource usage and reduce excessive cloud spend by running continuous experiments on workloads



Provide recommendations to optimize workloads and bring costs down, from optimal, lower latency or lower cost perspective

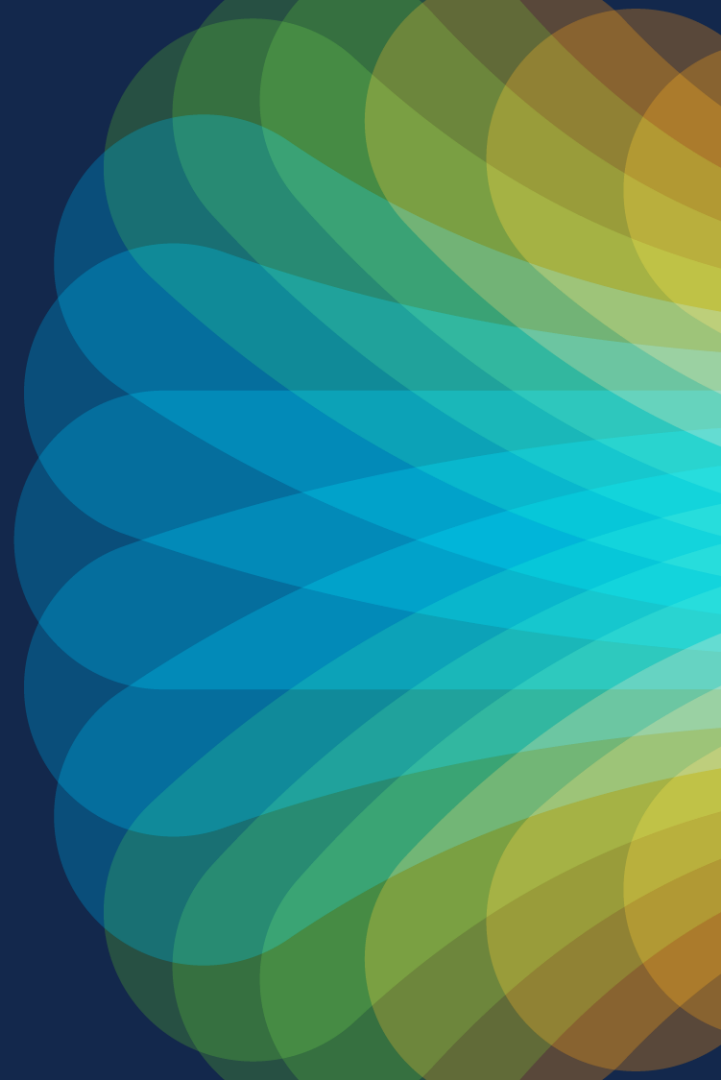


Ex.: App Resources Optimizer @ Cisco Cloud Observability



Cisco Observability Platform

DEMO



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 - CloudFabrix Modules

Who is Evolution ?



TRUSTED BY:

ally

PILOT
COMPANY

Elavon

CCC

TRAVELPORT

EQUIFAX

USbank

TRANSAMERICA
TRANSFORM TOMORROW

PROGRESSIVE



Cisco Observability Platform Modules

Evolutio's Four Solutions

1. [Banking] Fintech
2. [Retail] eCommerce
3. [Insurance] Claims
4. MLOps AI Monitoring

Fintech



Insurance



eComm



MLOps



Industry

Fintech, Financial, & Banking

Business

Transformation

with **ēVolutiō**

CISCO *Live!*



LIVE! on the Cisco Observability Platform

Fintech Evolution

Bank Execs can Observe:

- Key regions, such as Chicago vs Atlanta
- Tie to business KPIs and key clients
- Drill into data centers, retailer health, branches, & more...



Retail & eCommerce

Industry

Retail & eCommerce

Business

Transformation

with **ēVolutiō**

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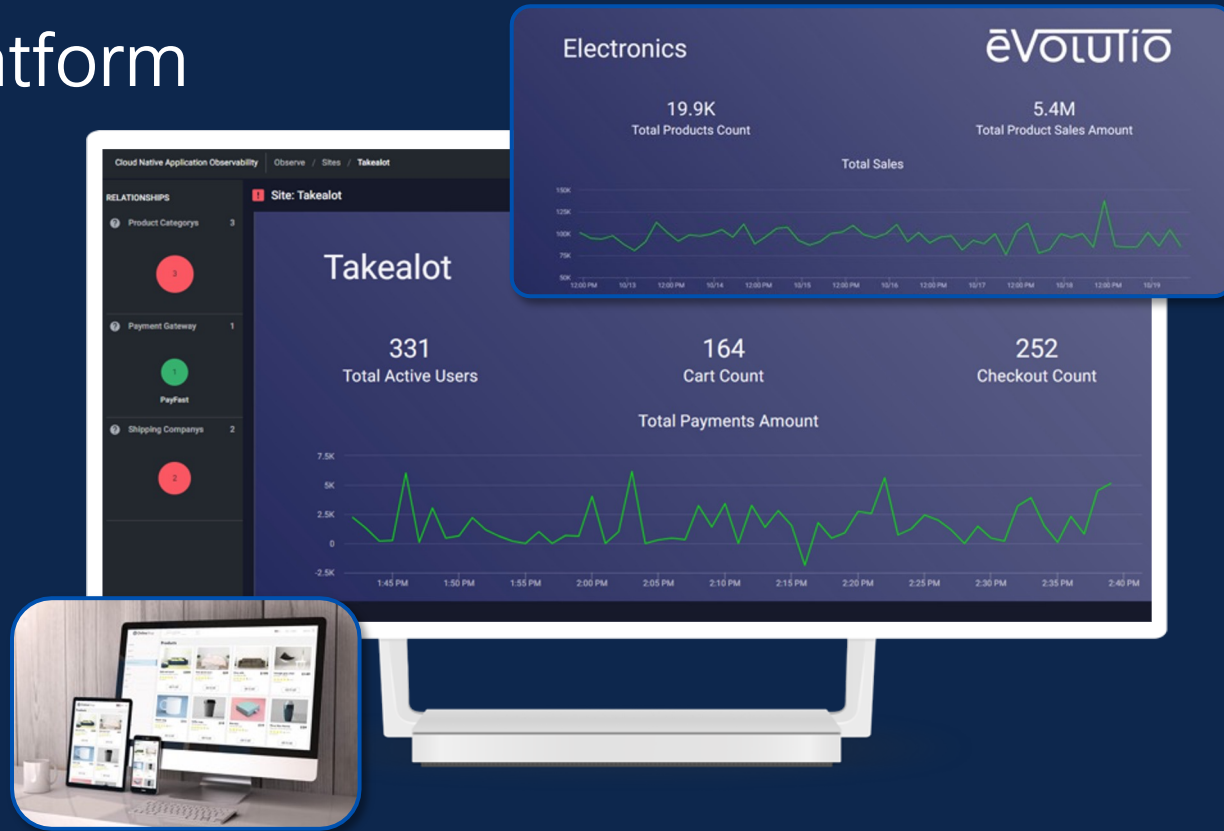


LIVE! on the Cisco Observability Platform

eCommerce App by Evolutio

Retail Execs can Observe:

- Cart service, active users, checkout count, payments
- Tie to retail product lines, business revenue, payment gateway health
- Drill into shipping, logistics, and other operations...



Industry

Insurance & InsurTech

Business

Transformation
with

ēVOLUTiō

CISCO *Live!*

#CiscoLiveAPJC

BRKAPP-2475

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56



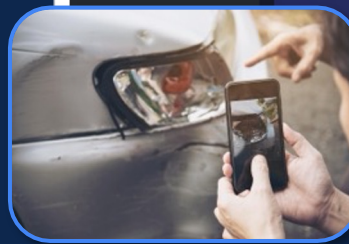
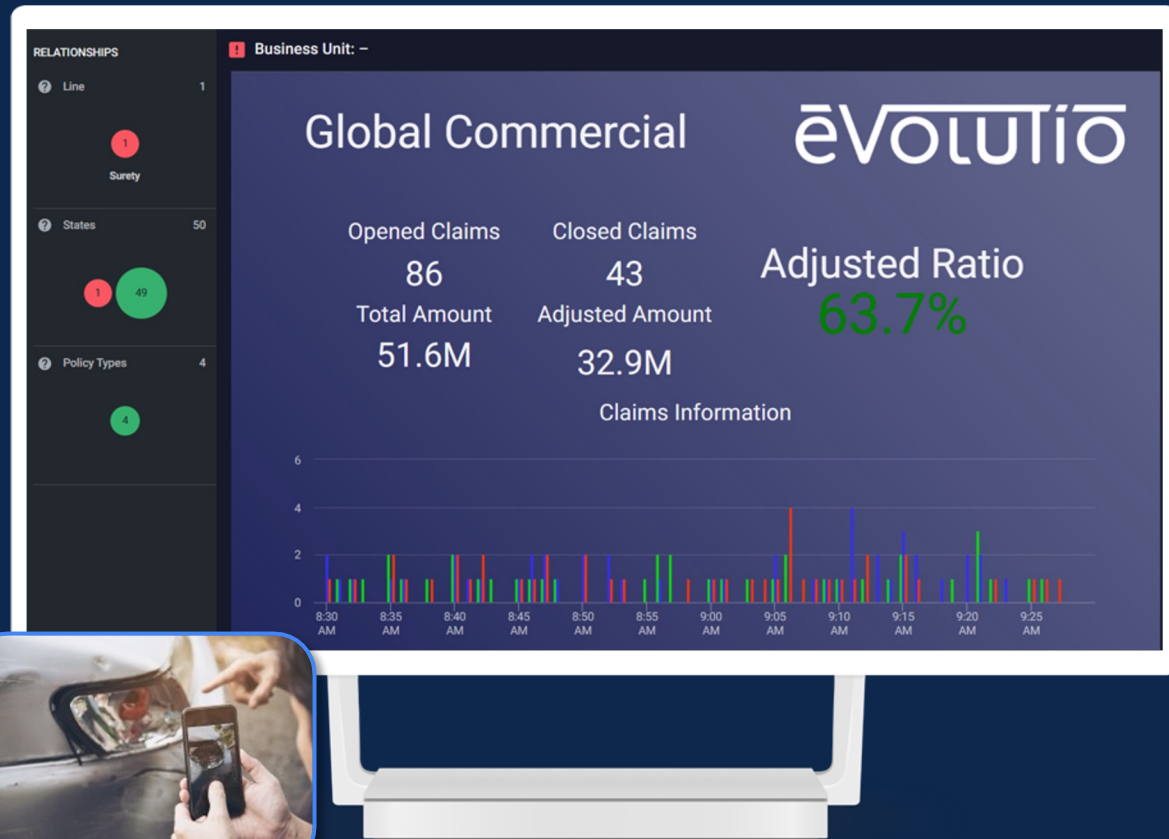
LIVE! on the Cisco Observability Platform

Claims

Evolutio

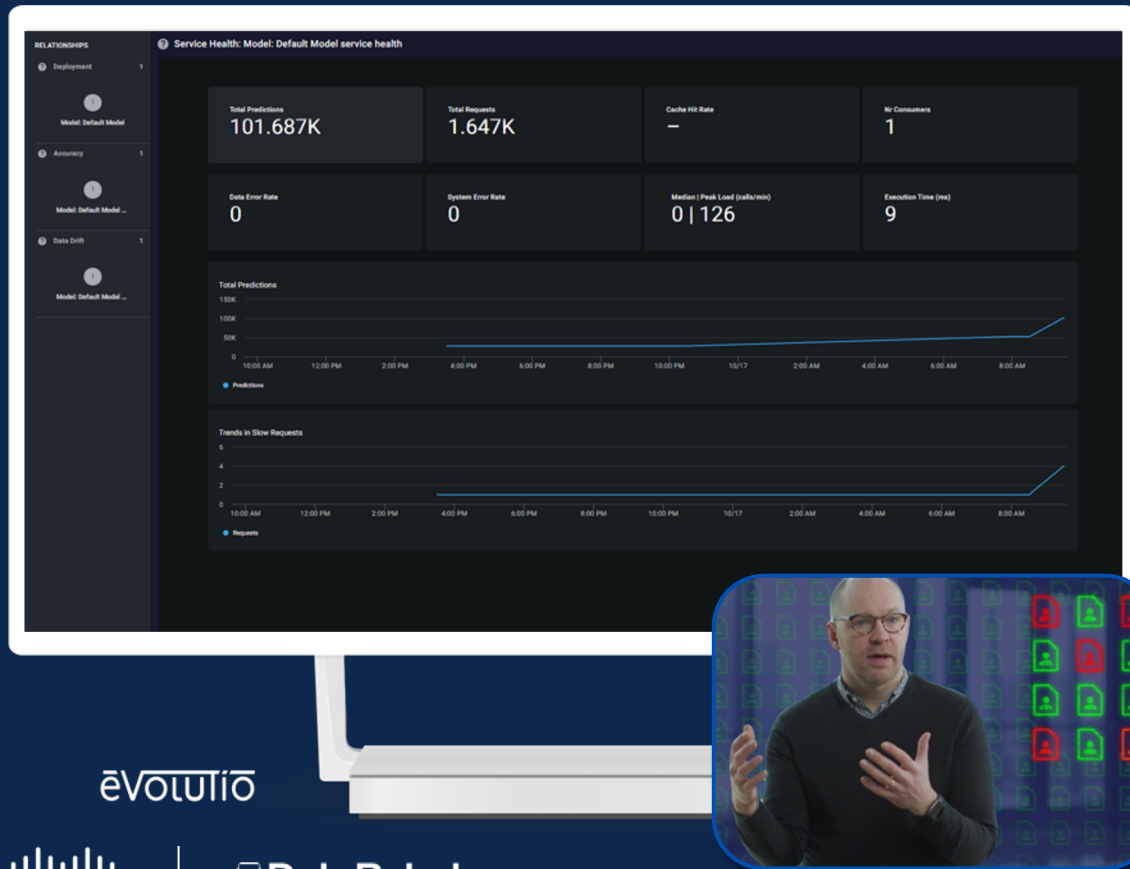
Insurance Execs Observe:

- Between underwriters and policy types
- Correlate by state and other regions
- Understand open, closed, and adjusted claims by dollars...



LIVE! on the Cisco Observability Platform

MLOps by Evolutio – Powered by DataRobot



Model Health Metrics Monitored:

- **Service Health:** Monitors operational efficiency and error occurrences.
- **Data Drift:** Tracks differences between incoming and training data.
- **Accuracy:** Compares predictions against actual outcomes.



CISCO *Live!*

Industry (COMING SOON)

Manufacturing & Goods

Business

Transformation

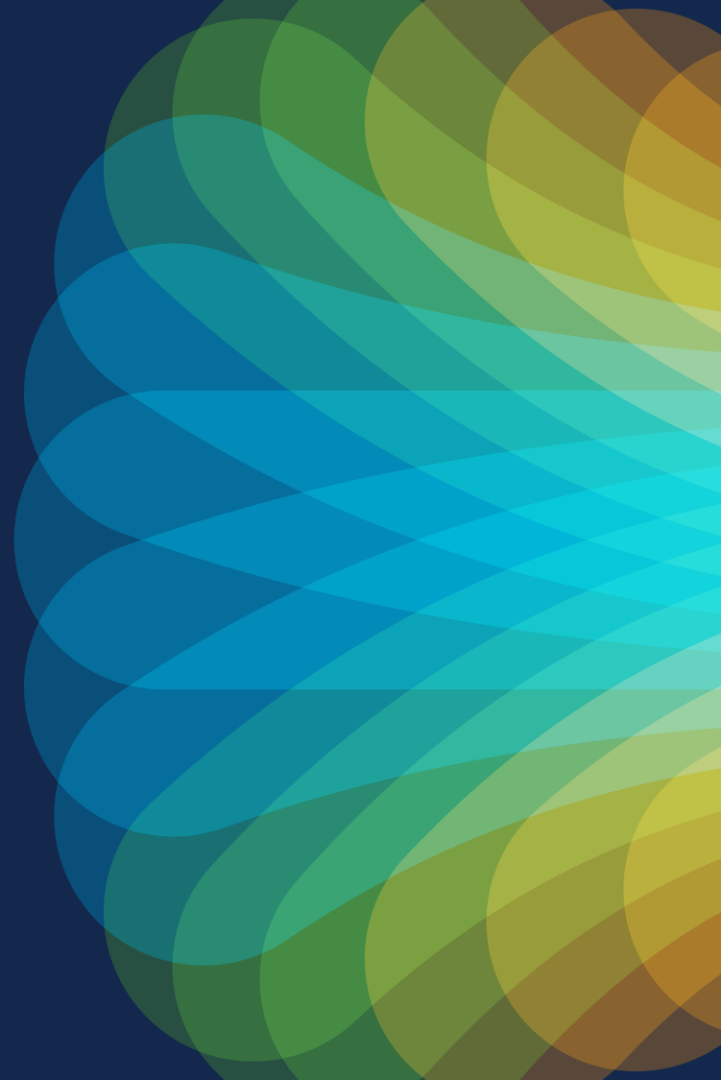
with

ēVOLUTION



Making Pathways to FSO Real

CloudFabrix Modules Powered by
Cisco Observability Platform



Agenda

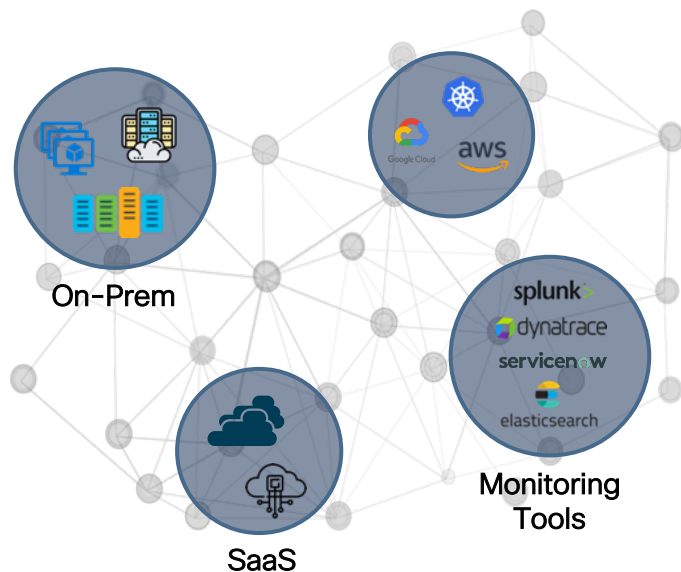
Today Challenge and Opportunity

Cisco Observability Platform &
CloudFabrix

CloudFabrix Apps

- ❑ Infra Observability
- ❑ Asset and Operational Intelligence
- ❑ vSphere Observability

Todays IT and Challenges



20+

Data Silos: 53% of enterprises employ over 20 tools and lack a unified source of truth

1M+

Noisy Data: 40% of IT organizations receive 1M+ daily alerts, 11% face 10M+; costing an average of \$1.27M annually.

\$400K

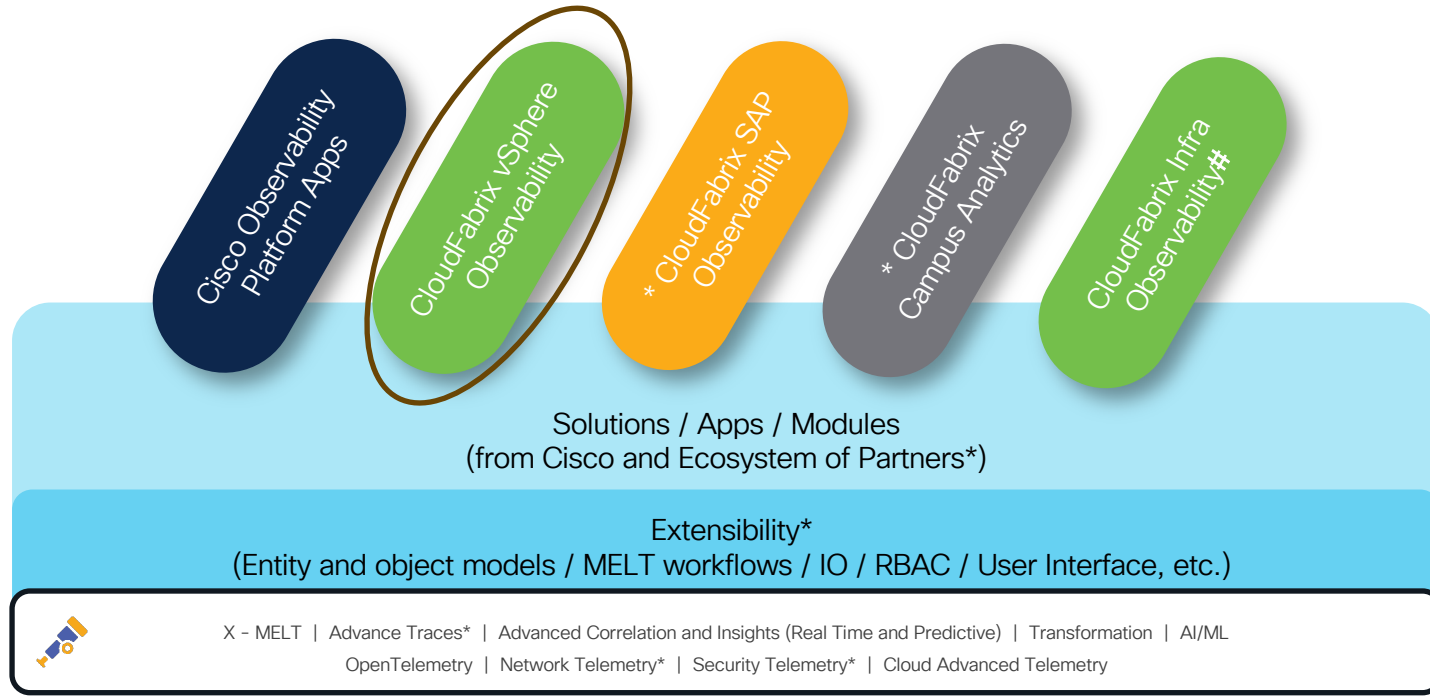
Incident Costs: Each incident costs Average of \$10,700 with MTTR > 7 Hrs; cost of single service outage - \$400K

Navigating through challenges is #1 priority for IT leaders

What's is
Important?

Customer
Satisfaction is
the New KPI

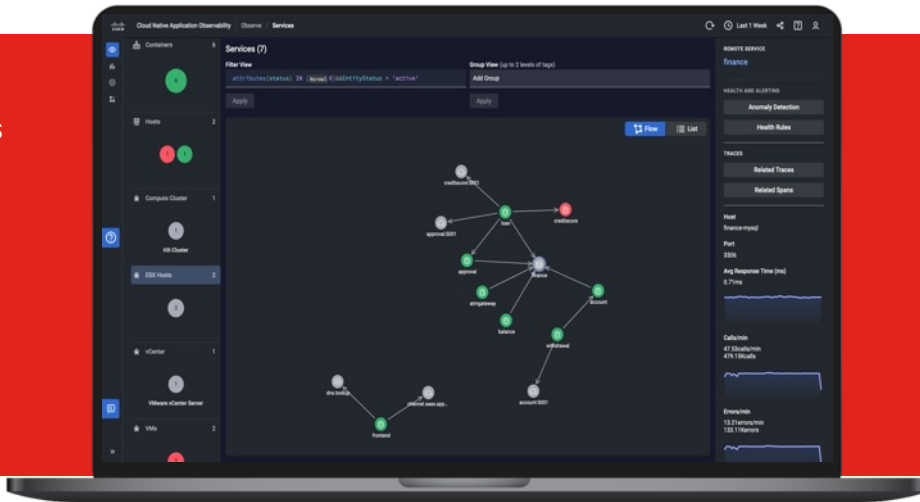
Cisco Observability Platform – CloudFabrix Modules



vSphere Observability Module

vSphere Observability Module overview

- The vSphere Observability module seamlessly integrates vSphere telemetry into FSO
- Gain full stack visibility into business to application to infrastructure down to the VMs, cluster, network and storage of vSphere environments, and understand the impact based on full stack app dependency map.



Relevant Cisco
products and
modules

Cisco Full-Stack
Observability Platform

Cisco Cloud Native
Application Observability

vSphere Observability
and Data Modernization.
FSO module

How Cisco FSO's vSphere Observability works



Key Cisco differentiators

- Glean Insights and Operational intelligence from Hybrid Applications running on VMware / vSphere, NSX networking, Datastores and Infrastructure with Full Stack Observability



Data sources

vSphere workload data

vSphere Infrastructure data



Core benefits

- Reduce the overall TCO of hybrid environments by simplifying operational complexity
- Unify & enhance cross-domain linkage to establish application dependencies connecting Business to Application and Infrastructure.
- Enhance observability and visibility at multiple layers within an application, VM's, VM Clusters, Network and Storage.

Cisco + CloudFabrix: Path Full Stack Observability

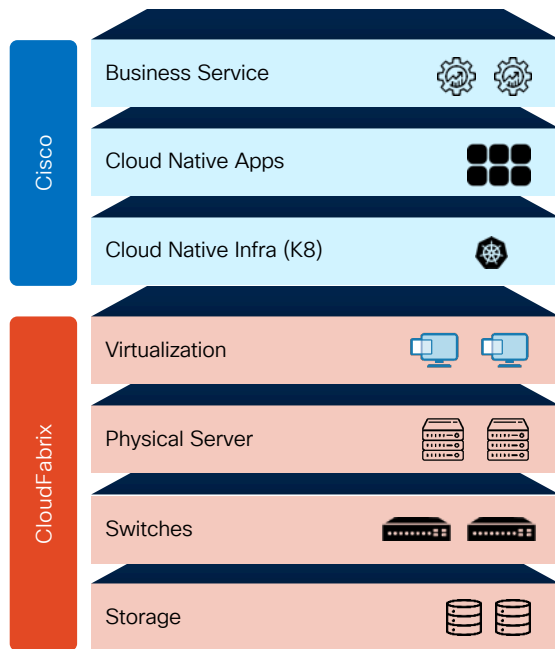
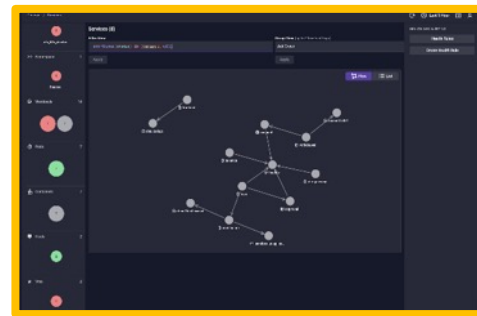
The CloudFabrix Story



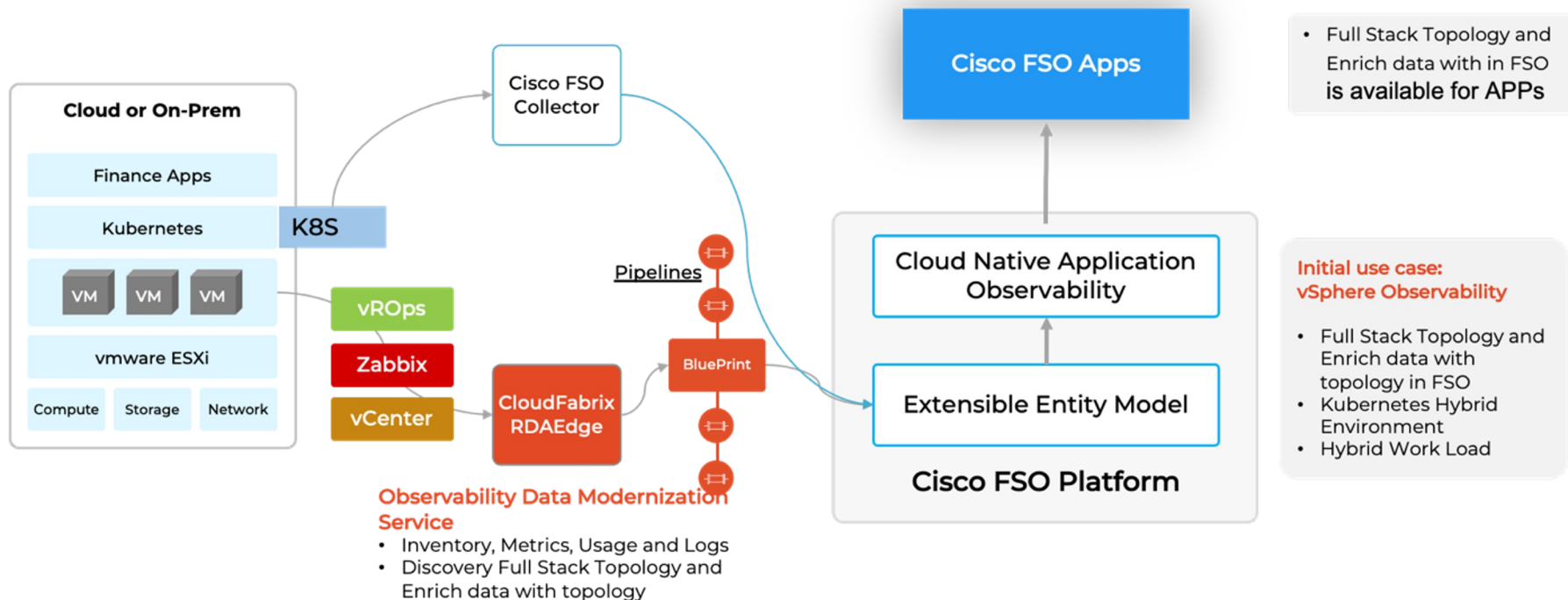
Cloud-Native Apps,
Kubernetes etc.



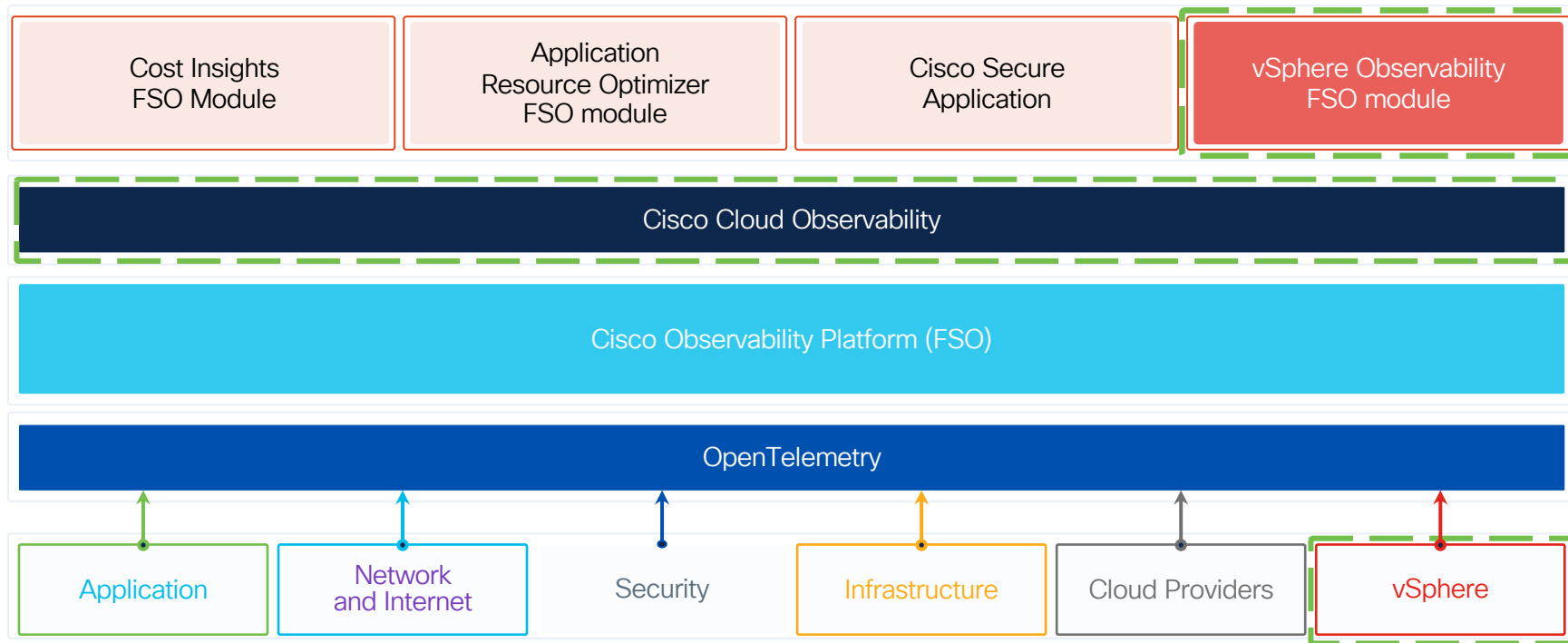
CloudFabrix Modules –vSphere,
Network, Storage, vrOps, etc.



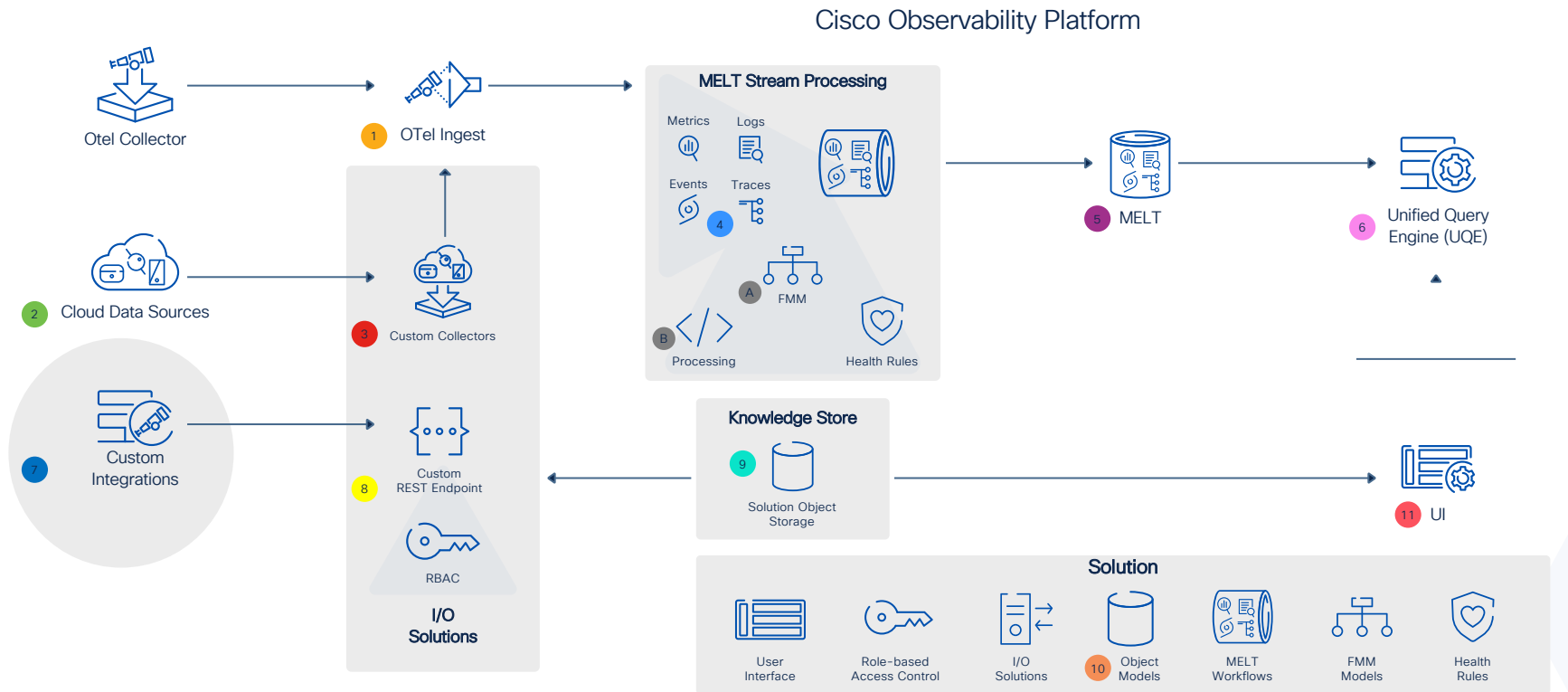
Hybrid App Observability on Cisco FSO Platform



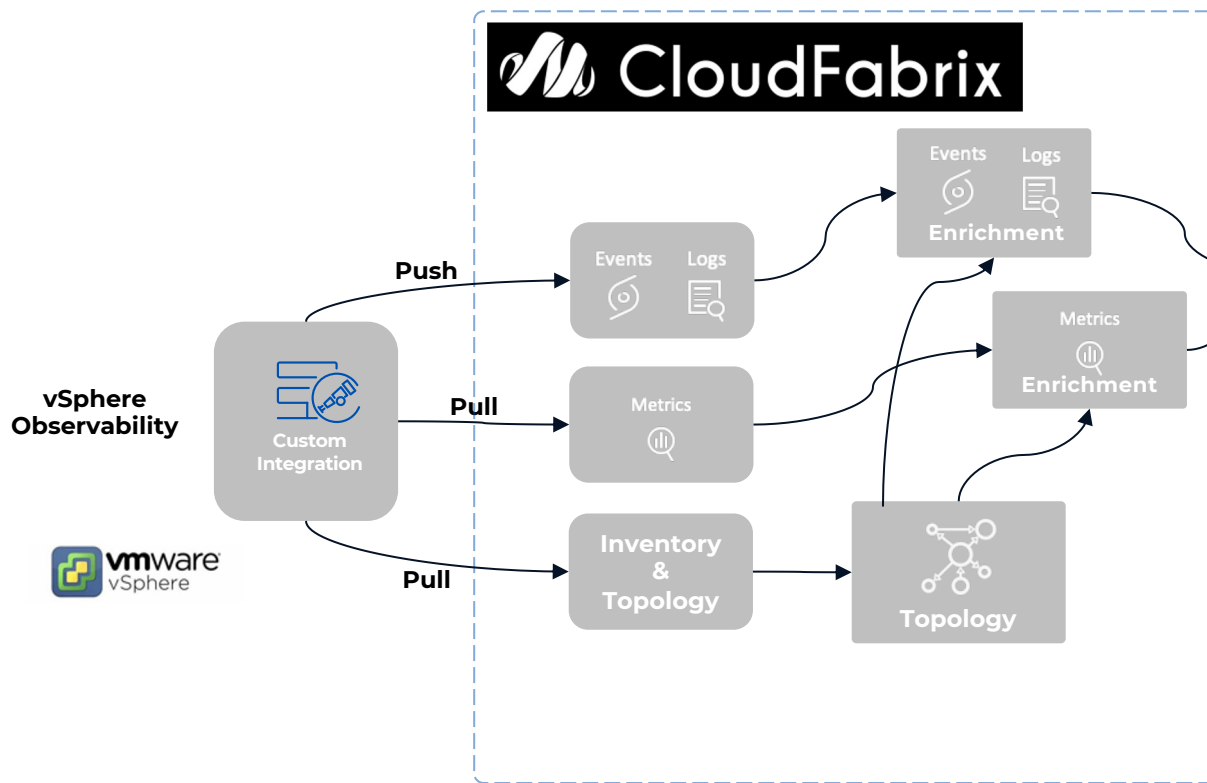
vSphere Observability Arch. for Hybrid Workloads



A quick recap of the Observability Platform Architecture

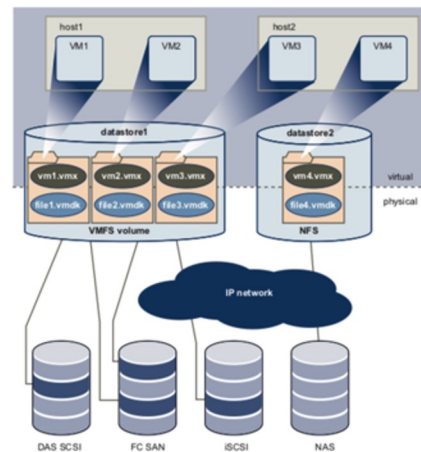


The CloudFabrix RDA Edge Architecture

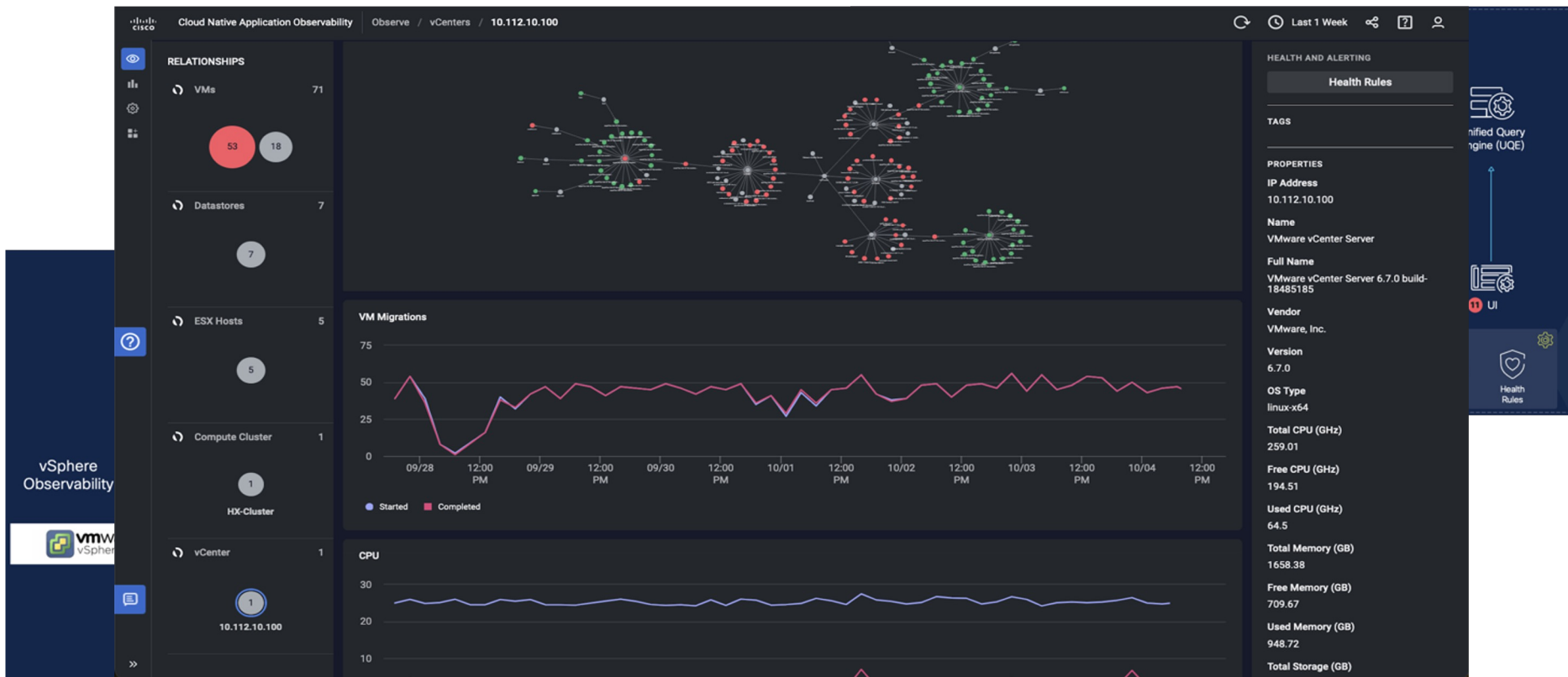


Network Architecture
Compute Architecture
Storage Architecture

Figure 1-10: Storage Architecture



The FSO and CloudFabrix RDA Edge



vSphere Observability Scenario



Challenge

- End to End visibility across vSphere hybrid application environments via single pane pose enormous challenge when it comes to observability.
- Business and IT telemetry cannot be looked at in silos, they need to be correlated and consolidated
- Multiple tools to manage and monitor vSphere hybrid environments



Solution

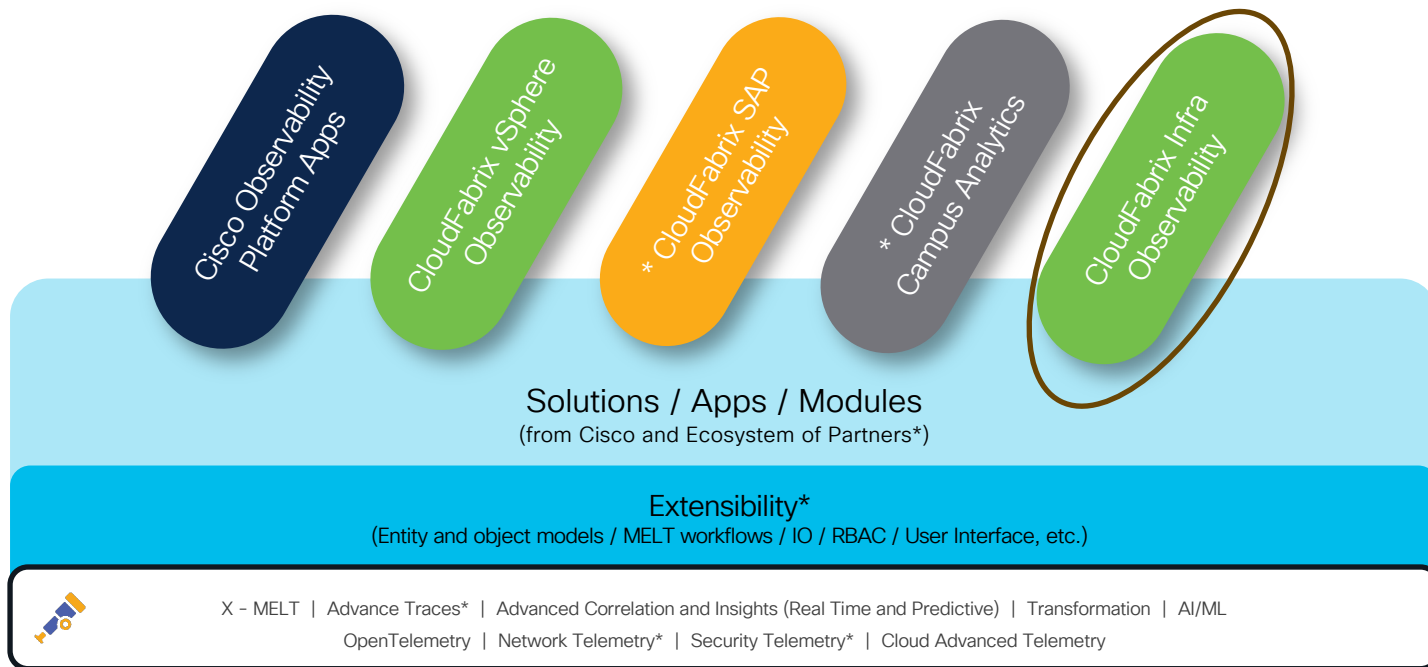
- Customers using VMware vSphere now can observe vSphere environments through the Cisco FSO platform
- Get unified insights across vSphere & cloud native environments



Result

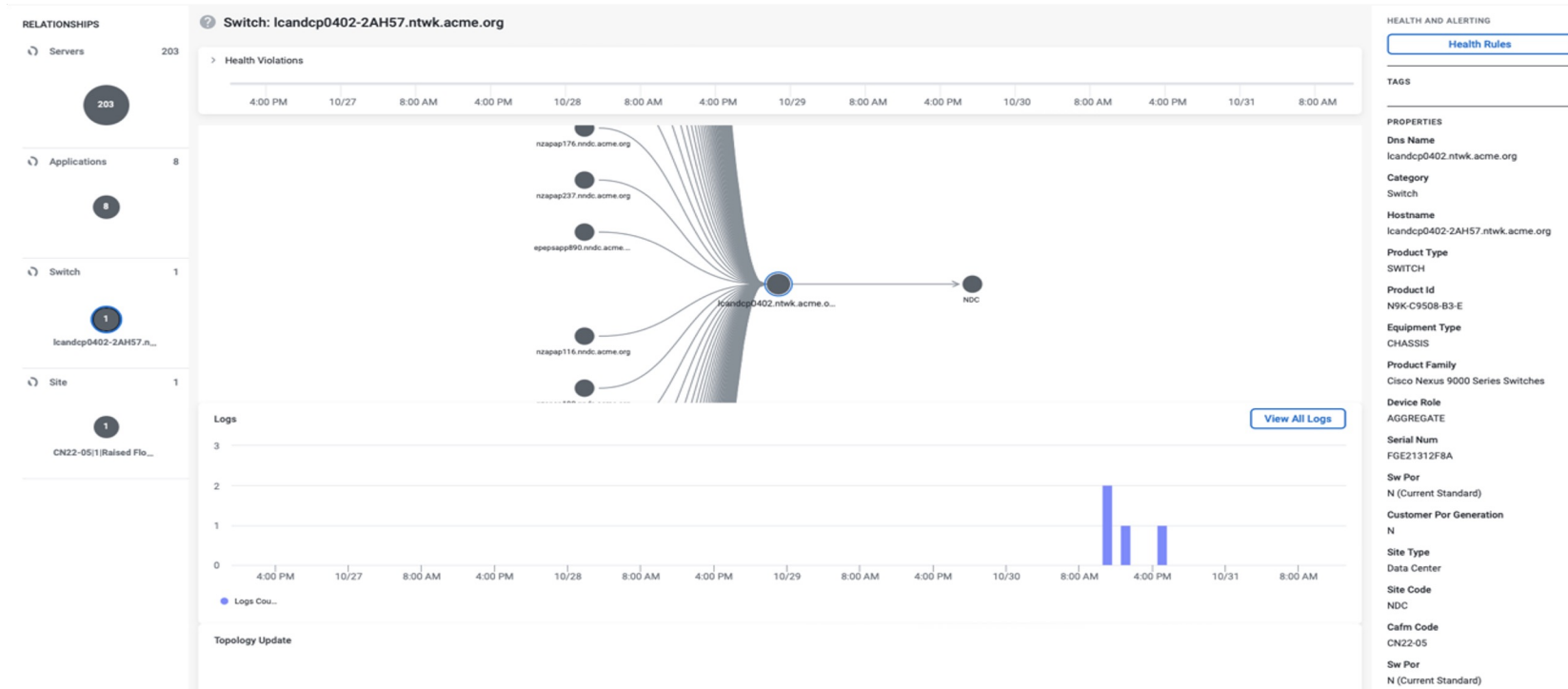
- Accurate correlation and root cause analysis
- Enhanced user and observability experience
- Hybrid Cloud application and environment support

Cisco Observability Platform – CloudFabrix Modules



Asset Intelligence Solution

Dynamic Package: Fully Automated Solution Creation Example 1



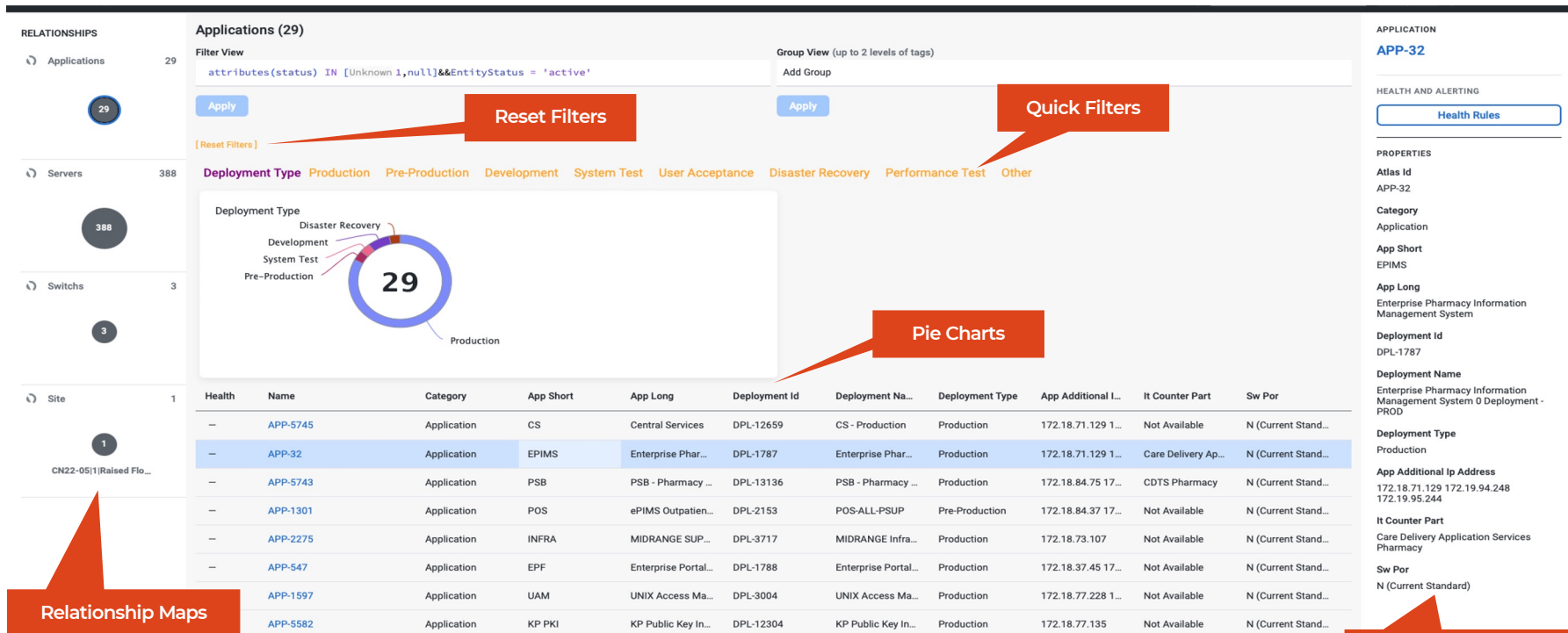


Examples solutions created from Data in RDA using fully automated approach in less than 1 day

- Asset Intelligence
- Operational Intelligence

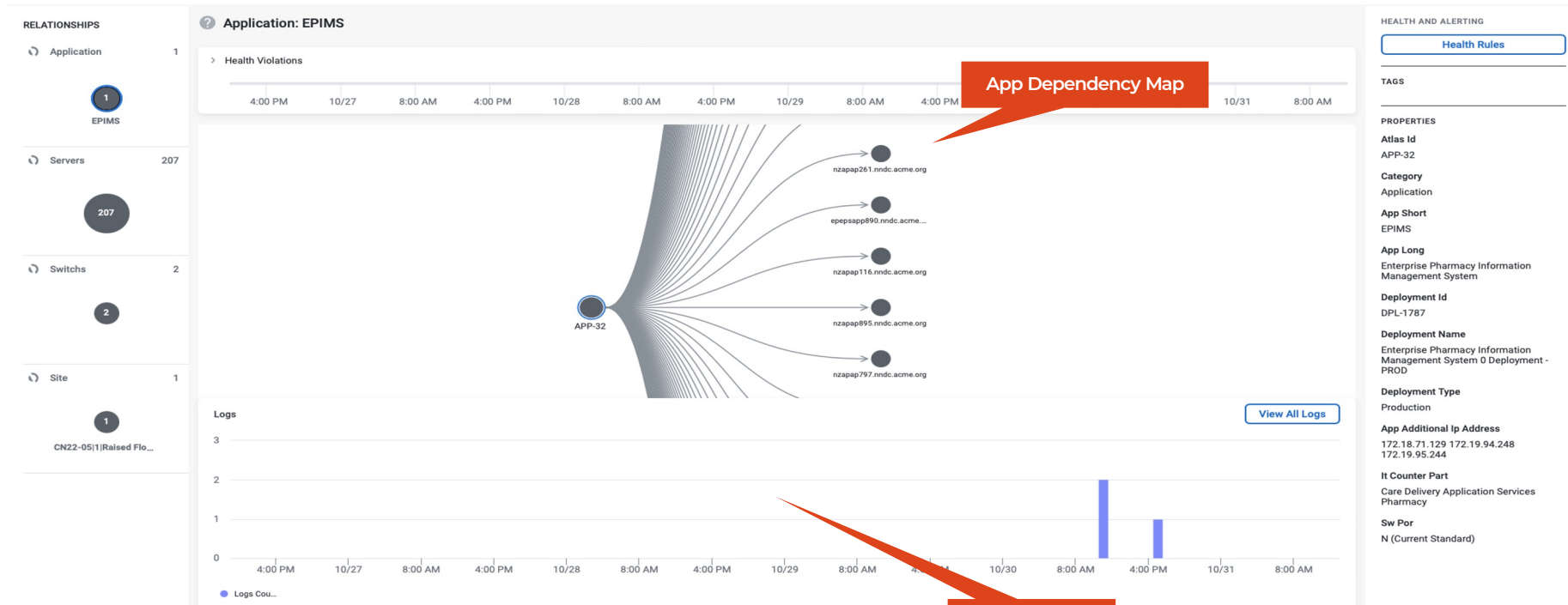
Asset Intelligence Solution

Dynamic Package: Fully Automated Solution Creation Example 1



Asset Intelligence Solution

Dynamic Package: Fully Automated Solution Creation Example 1



Asset Intelligence Solution

Dynamic Package: Fully Automated Solution Creation Example 1

RELATIONSHIPS

Applications4

Servers207

Switches2

Site1

Servers (207)

related to Application: EPIMS clear all relations

Filter View

attributes(status) IN [Unknown 1,null]

Apply

Group View (up to 2 levels of tags)

Add Group

Apply

[Reset Filters]

Server Nature Virtual Server Server

Platform Windows Server Linux Server AIX Server Server Solaris Virtual Server Virtual Server Solaris Server UNIX Server

Operating System

Platform

Health Name Category Server Name Server Nature Operating System Server Platform Server Serial Num... Server Status Sw Por

—	nzapap880.nndc.acme.org	Server	NZAPAP880	Virtual Server	AIX 7.2	AIX Server	78-DF20X-LPAR-19	In use	N (Current Standard)
—	epepsapp75.nndc.acme.org	Server	NZAPWA75	Virtual Server	AIX 7.2	AIX Server	78-DF1DX-LPAR-07	In use	N (Current Standard)
—	nzapap117.nndc.acme.org	Server	NZAPAP117	Virtual Server	AIX 7.2	AIX Server	78-E111X-LPAR-54	In use	N (Current Standard)
—	nzapap261.nndc.acme.org	Server	NZAPAP261	Virtual Server	AIX 7.2	AIX Server	78-E10FX-LPAR-10	In use	N (Current Standard)
—	nzapap163.nndc.acme.org	Server	NZAPAP163	Virtual Server	AIX 7.2	AIX Server	78-E10FX-LPAR-15	In use	N (Current Standard)
—	nzapap742.nndc.acme.org	Server	NZAPAP742	Virtual Server	AIX 7.2	AIX Server	78-DF1FX-LPAR-22	In use	N (Current Standard)
—	nzapap258.nndc.acme.org	Server	NZAPAP258	Virtual Server	AIX 7.2	AIX Server	78-E112X-LPAR-21	In use	N (Current Standard)

SERVER

[nzapap880.nndc.acme.org](#)

HEALTH AND ALERTING

Health Rules

PROPERTIES

Host Dns

[nzapap880.nndc.acme.org](#)

Category

Server

Server Name

NZAPAP880

Server Nature

Virtual Server

Operating System

AIX 7.2

Server Platform

AIX Server

Server Serial Number

78-DF20X-LPAR-19

Server Status

In use

Sw Por

N (Current Standard)

Asset Intelligence Solution

Dynamic Package: Fully Automated Solution Creation Example 1

RELATIONSHIPS

Servers385

Applications26

Switches2

Site1

CN22-051(Raised Flo...

Switches (2)

related to some Servers and Application: EPIMS clear all relations

Filter View

attributes(status) IN [Unknown 1,null]

Apply

Group View (up to 2 levels of tags)

Add Group

Apply

[Reset Filters]

Product FamilyCisco Nexus 9000 Series SwitchesCisco Nexus 5000 Series SwitchesCisco Nexus 6000 Series SwitchesCisco Nexus 3000 Series SwitchesMissing Product Family

ComplianceN (Current Standard)N-1 (Previous Standard)N-X (Unacceptable)PID not in SW POR

Device RoleACCESSAGGREGATEFEX

Product Family

2

Cisco Nexus 9000

Device Role

ACCESS

2

AGGREGATE

Compliance

2

N (Current Standard)

Health	Name	Category	Hostname	Product Type	Product Id	Equipment Type	Product Family	Device Role	Serial Num	Sw Por
—	lcandcp0402.ntwk.acme.org	Switch	lcandcp0402-2A...	SWITCH	N9K-C9508-B3-E	CHASSIS	Cisco Nexus 900...	AGGREGATE	FGE21312F8A	N (Current Stand...
—	lcandcp12048.ntwk.acme.org	Switch	lcandcp12048-N...	SWITCH	N9K-C93180YC...	CHASSIS	Cisco Nexus 900...	ACCESS	FDO23210S0M	N (Current Stand...

SWITCH

lcandcp0402.ntwk.acme.org

HEALTH AND ALERTING

Health Rules

PROPERTIES

Dns Name

lcandcp0402.ntwk.acme.org

Category

Switch

Hostname

lcandcp0402-2AH57.ntwk.acme.org

Product Type

SWITCH

Product Id

N9K-C9508-B3-E

Equipment Type

CHASSIS

Product Family

Cisco Nexus 9000 Series Switches

Device Role

AGGREGATE

Serial Num

FGE21312F8A

Sw Por

N (Current Standard)

Customer Por Generation

N

Site Type

Data Center

Site Code

NDC

Cafm Code

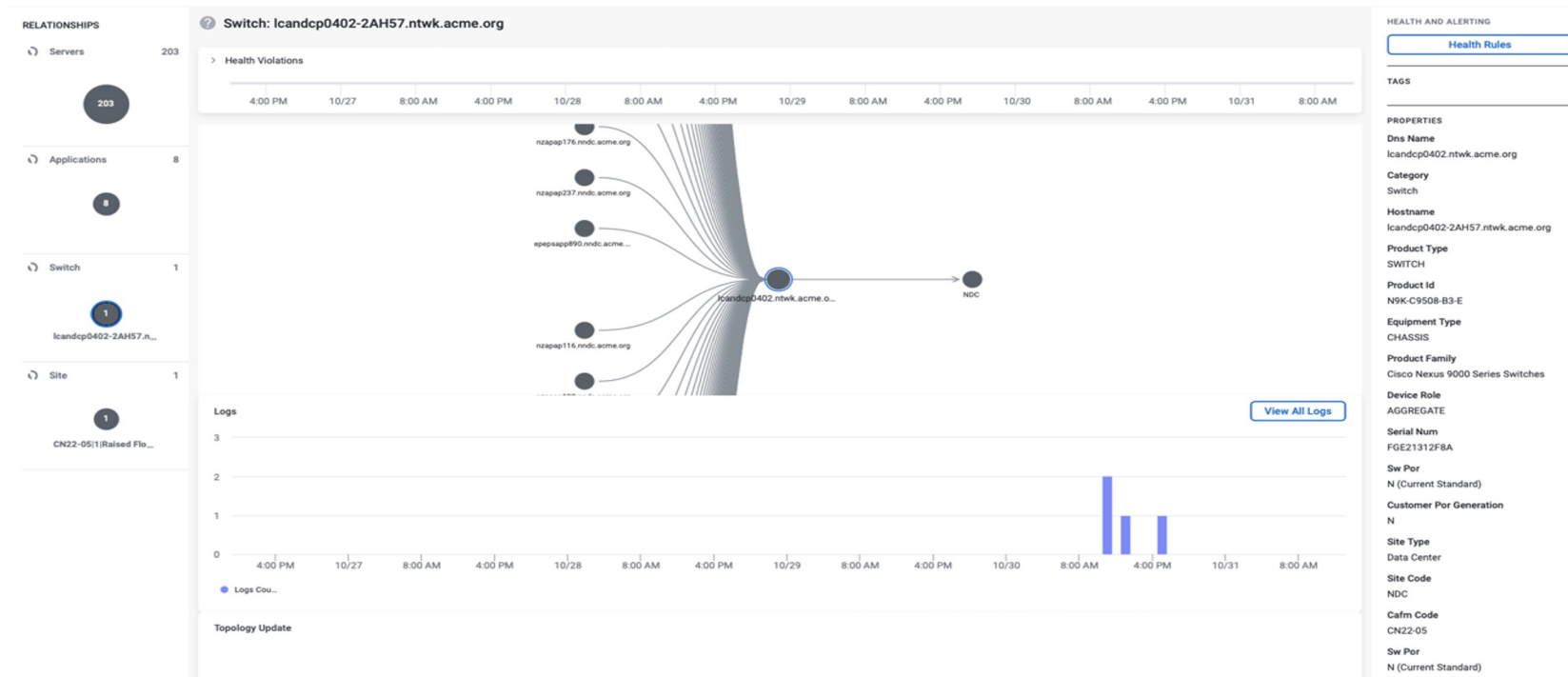
CN22-05

Sw Por

N (Current Standard)

Asset Intelligence Solution

Dynamic Package: Fully Automated Solution Creation Example 1



Asset Intelligence Solution

Dynamic Package: Fully Automated Solution Creation Example 1

RELATIONSHIPS

- Applications: 7
- Servers: 13
- Switches: 2
- Site: 1

Servers (13)

Filter View: `attributes(cfxadm.server.server_platform) = 'Linux Server'`

Group View (up to 2 levels of tags): Add Group

Apply

[Reset Filters]

Server Nature Virtual Server Server

Platform Windows Server Linux Server AIX Server Server Solaris Virtual Server Virtual Server Solaris Server UNIX Server

Operating System

- Red Hat Enterprise Linux 7.7
- Red Hat Enterprise Linux 7.9
- Oracle Enterprise Linux

Platform

- Linux Server

Quick Filter Applied

Health	Name	Category	Server Name	Server Nature	Operating System	Server Platform	Server Serial Num...	Server Status	Sw Por
—	nzxpap1041.nndc.acme.org	Server	NZXPAP1041	Server	Red Hat Enterprise ...	Linux Server	2M202607KF	In use	N (Current Standard)
—	nzxpap1040.nndc.acme.org	Server	NZXPAP1040	Server	Red Hat Enterprise ...	Linux Server	2M202607KG	In use	N (Current Standard)
—	nzepdb025x.nndc.acme.org	Server	NZEPDB025XM	Server	Oracle Enterprise Li...	Linux Server	1833XC305J	In use	N (Current Standard)
—	nzcladb02x.nndc.acme.org	Server	NZCLADB02XM	Server	Oracle Enterprise Li...	Linux Server	1645NM114D	In use	N (Current Standard)
—	nzcladb03x.nndc.acme.org	Server	NZCLADB03XM	Server	Oracle Enterprise Li...	Linux Server	1728NM186F	In use	N (Current Standard)
—	nzepdb021x.nndc.acme.org	Server	NZEPDB021XM	Server	Oracle Enterprise Li...	Linux Server	1625NM105F	In use	N (Current Standard)
—	nzcladb04x.nndc.acme.org	Server	NZCLADB04XM	Server	Oracle Enterprise Li...	Linux Server	1728NM186K	In use	N (Current Standard)
—	nzepdb182x.nndc.acme.org	Server	NZEPDB182XM	Server	Oracle Enterprise Li...	Linux Server	1740XC3085	In use	N (Current Standard)
—	nzepdb184x.nndc.acme.org	Server	NZEPDB184XM	Server	Oracle Enterprise Li...	Linux Server	1740XC3088	In use	N (Current Standard)
—	nzepdb183x.nndc.acme.org	Server	NZEPDB183XM	Server	Oracle Enterprise Li...	Linux Server	1740XC305A	In use	N (Current Standard)

SERVER

[nzxpap1041.nndc.acme.org](#)

HEALTH AND ALERTING

[Health Rules](#)

PROPERTIES

Host Dns
nzxpap1041.nndc.acme.org

Category
Server

Server Name
NZXPAP1041

Server Nature
Server

Operating System
Red Hat Enterprise Linux 7.9

Server Platform
Linux Server

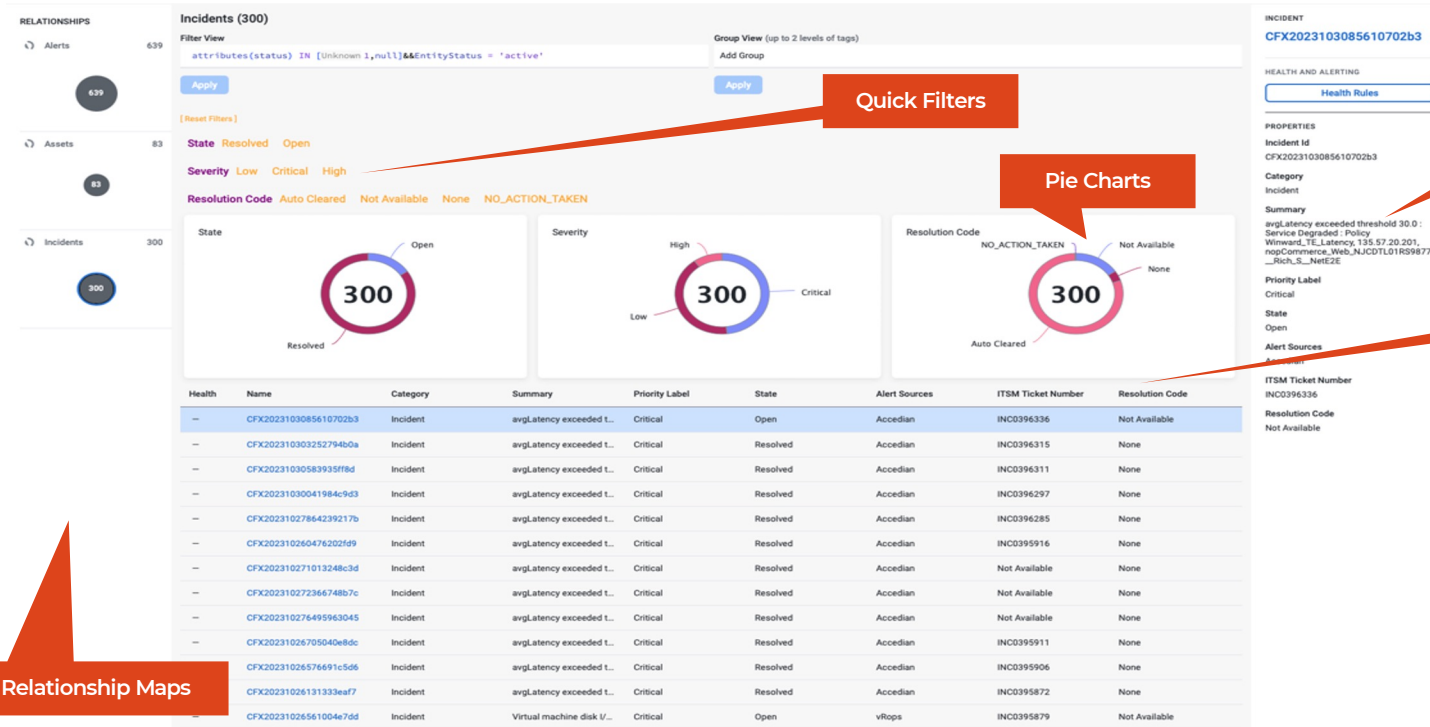
Server Serial Number
2M202607KF

Server Status
In use

Sw Por
N (Current Standard)

Operational Intelligence Solution

Dynamic Package: Fully Automated Solution Creation Example 2



Relationship Maps

Quick Filters

Pie Charts

Important Attributes

Service Now Ticket Number

Operational Intelligence Solution

Dynamic Package: Fully Automated Solution Creation Example 2

RELATIONSHIPS

Alerts 327

Assets 69

Incidents 197

Incidents (197)

Filter View

attributes(cfxdynamicioa.incident.i_priority_label) = 'Critical'

Apply

[Reset Filters]

Group View (up to 2 levels of tags)

Add Group

Apply

Quick Filter Applied

State Resolved Open

Severity Low Critical High

Resolution Code Auto Cleared Not Available None NO_ACTION_TAKEN

State

Open

Resolved

197

Severity

Critical

197

Resolution Code

NO_ACTION_TAKEN

Not Available

Auto Cleared

None

197

Health	Name	Category	Summary	Priority Label	State	Alert Sources	ITSM Ticket Number	Resolution Code
—	CFX20231022542334ee27	Incident	Virtual machine disk I/...	Critical	Open	vRops	INC0393925	Not Available
—	CFX202310220918653845	Incident	Virtual machine CPU u...	Critical	Open	vRops	INC0393927	Not Available
—	CFX202310224386291a18	Incident	Virtual machine disk I/...	Critical	Resolved	vRops	INC0393840	Auto Cleared
—	CFX202310222336023bdc	Incident	Adapter instance Objec...	Critical	Open	vRops	INC0393912	Not Available
—	CFX20231022811339b4eb	Incident	Virtual machine disk I/...	Critical	Resolved	vRops	INC0393871	Auto Cleared
—	CFX2023102297833420a7	Incident	Virtual machine disk I/...	Critical	Resolved	vRops	INC0393898	Auto Cleared
—	CFX20231022189999fd39	Incident	Virtual machine has CP...	Critical	Resolved	vRops	INC0393889	Auto Cleared

INCIDENT

CFX2023103085610702b3

HEALTH AND ALERTING

Health Rules

PROPERTIES

Incident Id

CFX2023103085610702b3

Category

Incident

Summary

avgLatency exceeded threshold 30.0 : Service Degraded : Policy Winward_TE_Latency, 135.57.20.201, nopCommerce_Web_NJCDDL01R59877_Rich_S_NetE2E

Priority Label

Critical

State

Open

Alert Sources

Accedian

ITSM Ticket Number

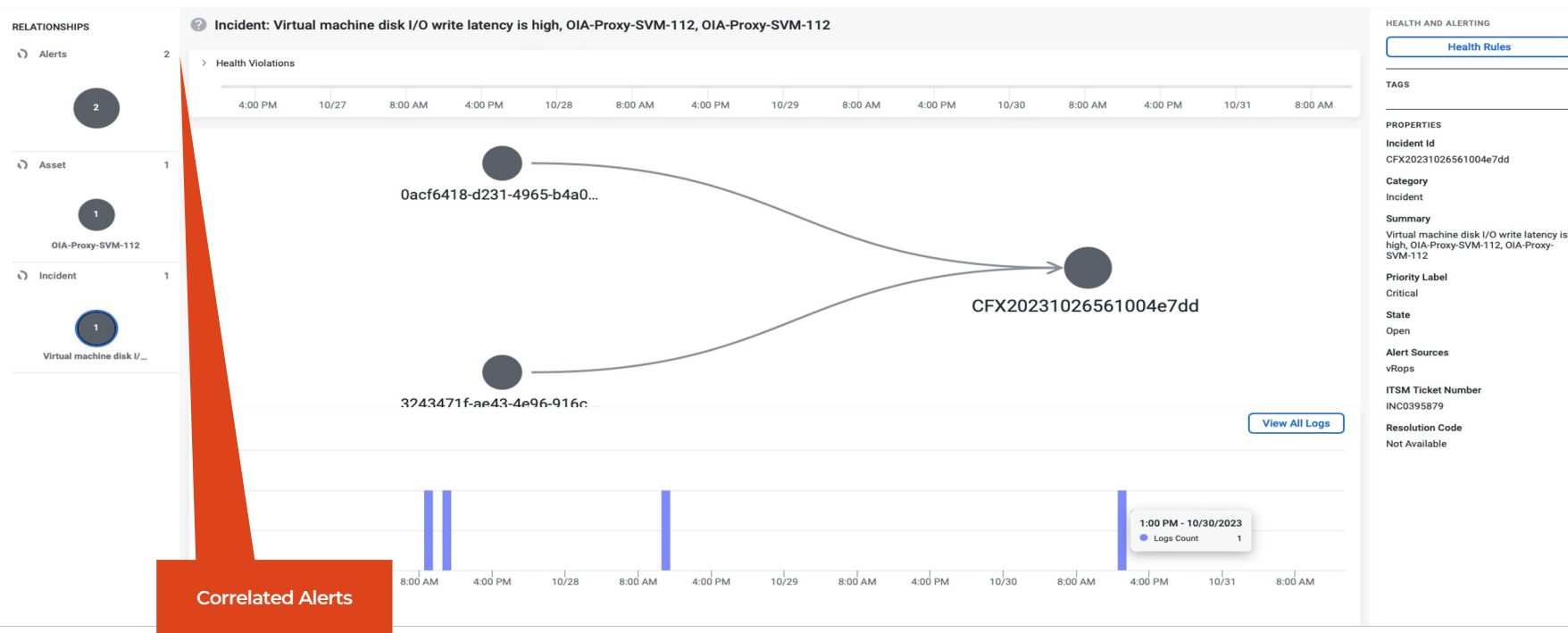
INC0396336

Resolution Code

Not Available

Operational Intelligence Solution

Dynamic Package: Fully Automated Solution Creation Example 2





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Tuesday	3:00pm – 7:00pm
Wednesday	11:15am – 7:00pm
Thursday	9:30am – 4:00pm
Friday	10:30am – 1:30pm

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The bridge to possible

Thank you

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The background is a vibrant, abstract graphic featuring a rainbow color palette. On the left, there are horizontal, wavy bands of color transitioning from red at the top to blue at the bottom. On the right, a bright white light source emits a series of sharp, triangular rays of color in a radial pattern, also using the rainbow spectrum. The overall effect is energetic and celebratory.

cisco *Live!*

Let's go

#CiscoLiveAPJC