

The background features a vibrant, multi-colored abstract design. On the left, there are overlapping, wavy bands of color in shades of orange, red, and yellow. On the right, a bright white light source emits a series of colorful rays in shades of blue, green, and yellow, creating a sunburst effect. The overall composition is dynamic and energetic.

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Let's go

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The bridge to possible

Empower a new observability ecosystem with an open and extensible Cisco FSO Platform

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BRKAPP-1013



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Agenda

- Why and What of Full Stack Observability
- Introducing the Cisco FSO Platform
- Building on the Platform
- FSO Applications and Modules



Application is down

IT Blame Game

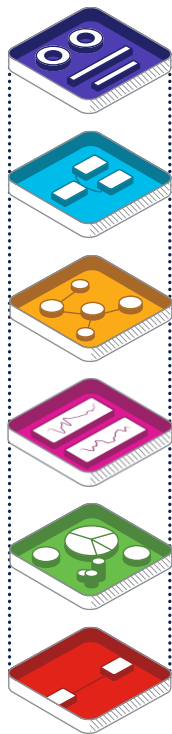


KEEP
CALM
AND
BLAME
THE
NETWORK

IT Blame Game

KUBERNETES FAILURE

Why Full Stack Observability: The Solution



BUSINESS



Correlate performance metrics with business outcomes

USER
EXPERIENCE



Provide a flawless user experience, every time

APPLICATION



Improve application performance (APM) and ensure quality software delivery.

INFRASTRUCTURE



Monitor and manage on-premise and cloud

NETWORK



Isolate performance issues across third party networks, monitor the internet, and SaaS apps

SECURITY



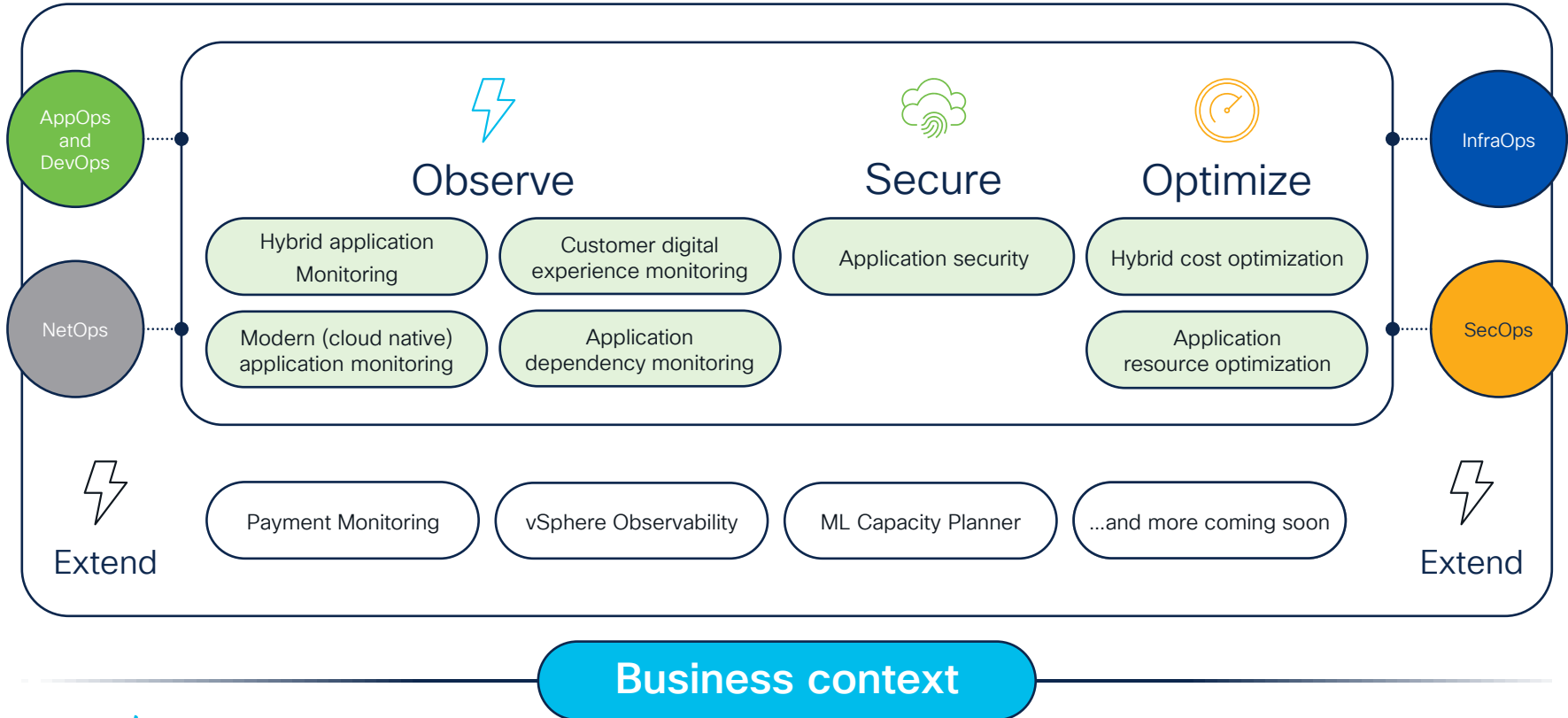
Automate and continuously adapt application security

A photograph of three IT professionals in a server room. A woman with glasses and a blue shirt stands in the background. A man with glasses and a light blue shirt sits in the middle, wearing headphones. A man with a beard and a grey hoodie leans over his shoulder from the right. They are all looking at multiple computer monitors displaying code or data. The room has glass partitions and server racks in the background.

71%

believe that unified
observability is
critical to delivering
best digital experience

How Cisco Full-Stack Observability can help





Introducing the Cisco FSO platform

Empowering a new observability ecosystem



Fully extensible



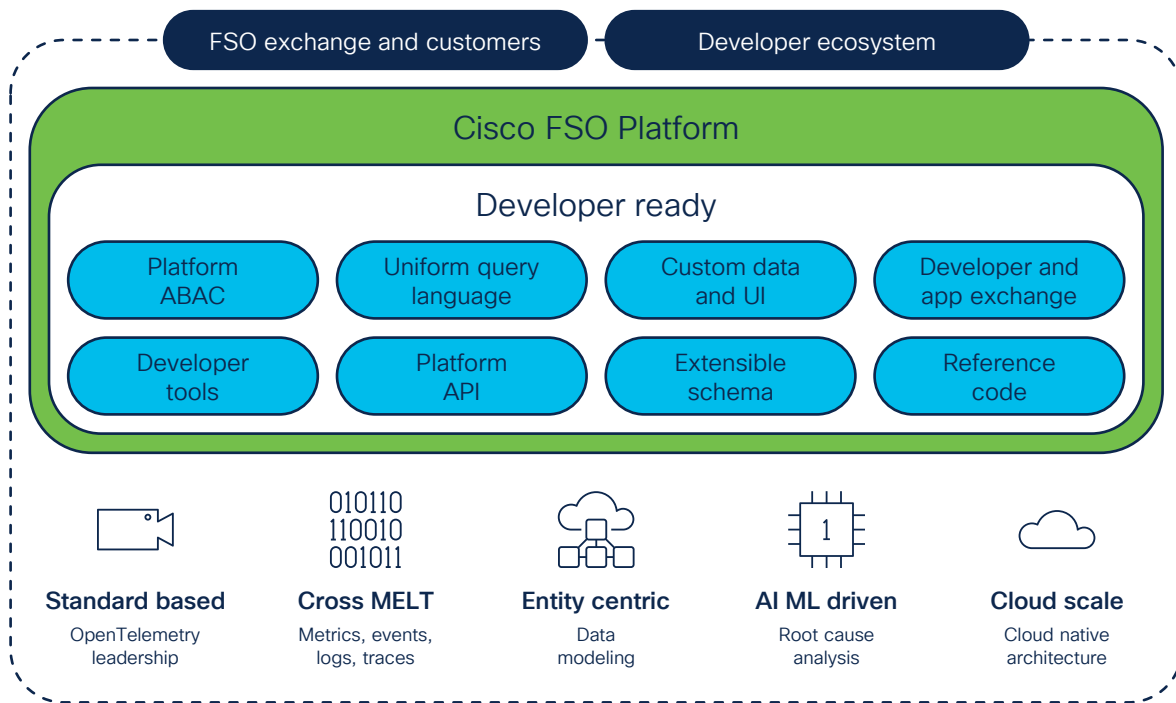
Natively supports
OpenTelemetry



Anchored on MELT



Provides Unified
Query Language (UQL)



Benefits of the Cisco FSO Platform

Empowers an extensible observability ecosystem



Single view of data

Data from cloud and non-cloud sources combined to provide a unified view to reduce mean time to detect (MTTD)



Out of box correlation

Users can derive insights from multiple domains across business, application and infrastructure



Create value-added solutions

Built your own applications and/or extend Cisco Cloud-Native Application Observability with modules, dashboards, custom experiences

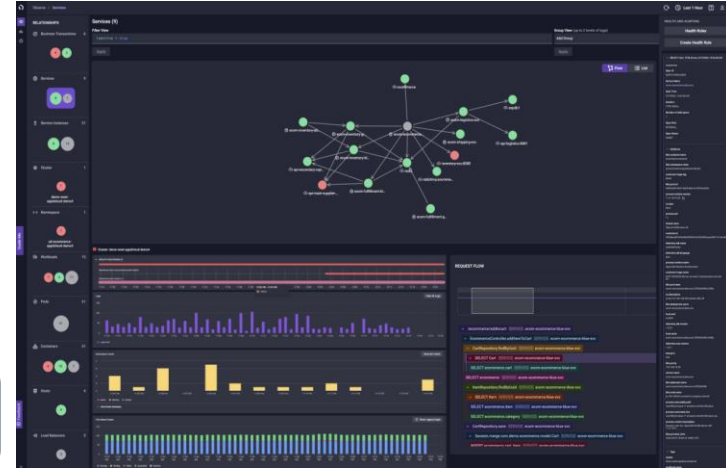


Empower solution developers

Giving third-party developers the tools to build new applications and modules

Platform in Action

Cloud Native Application Observability – 1st Application powered by the Platform



Application

Cloud Native Application Observability

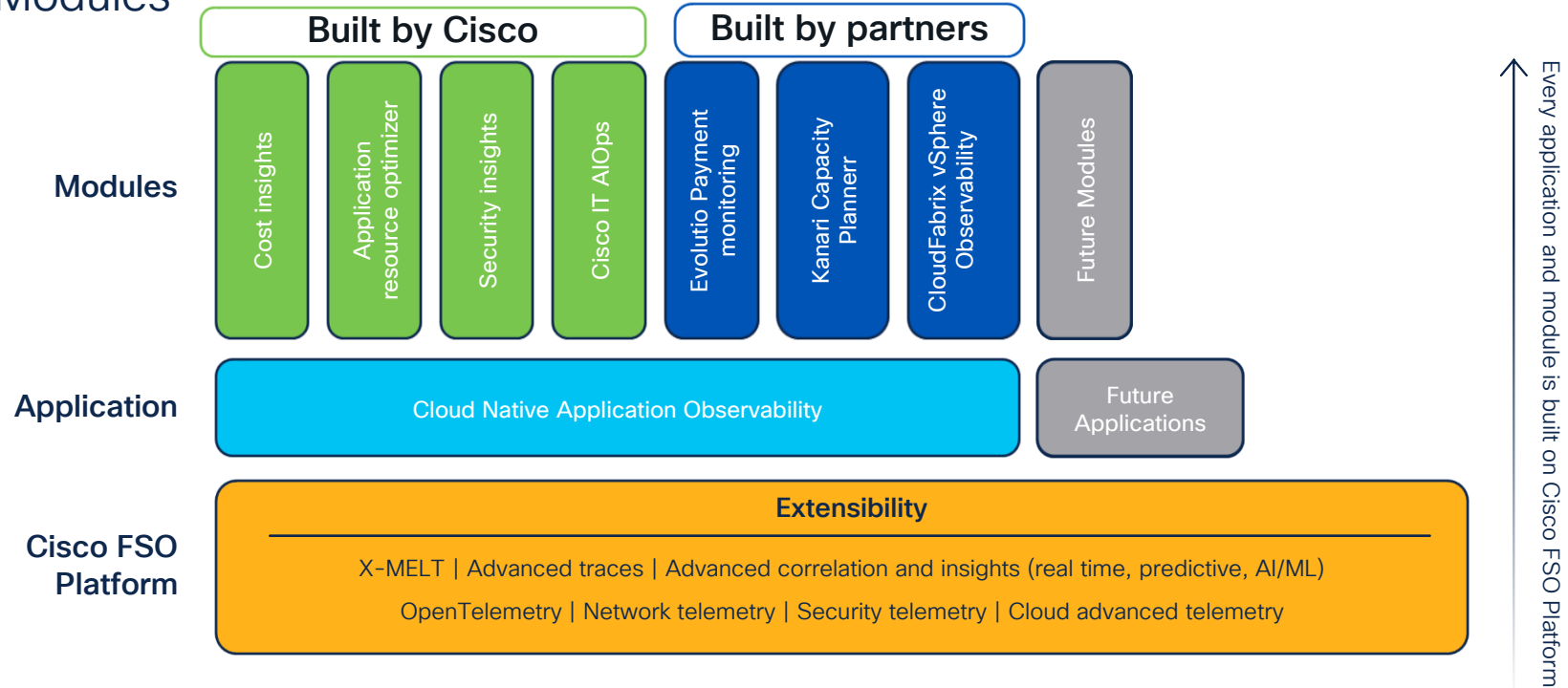
Cisco FSO
Platform

Extensibility

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

Platform in Action

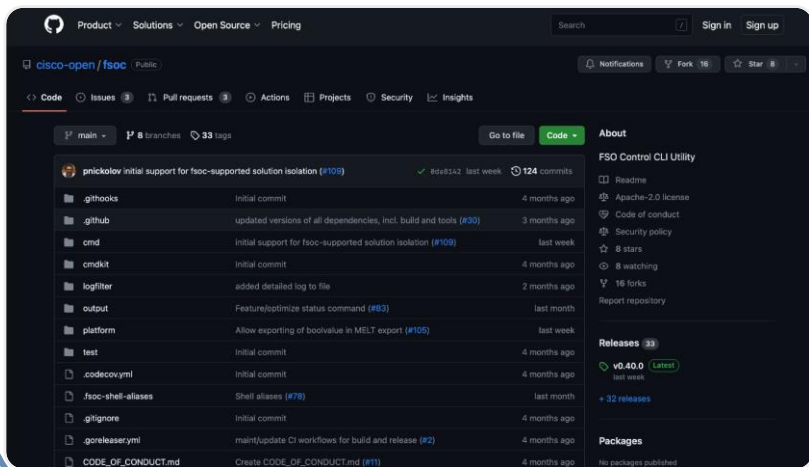
Cloud Native Application Observability – Extended with Cisco and Partner built Modules



FSO Platform Experience

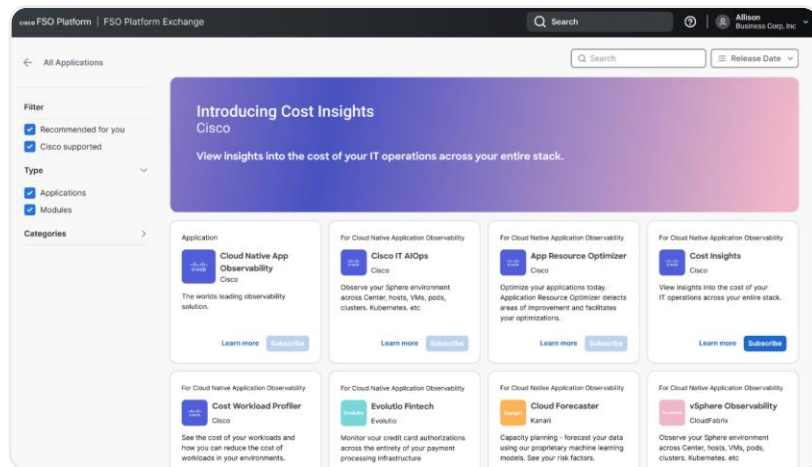
Developers

Developer tools and environment
for applications and modules development



Users

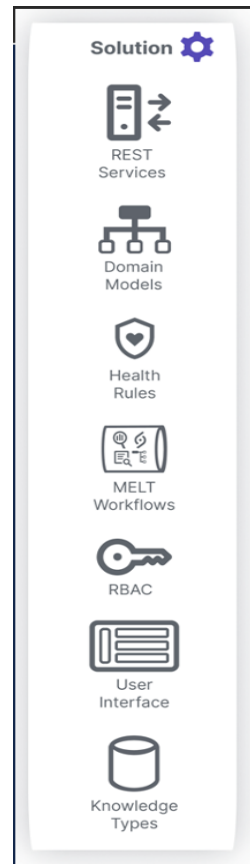
Search, browse, and discover modules
through FSO Platform Exchange



Anatomy of a FSO Module

Developers can now build CNAO modules

- CNAO modules are manifested by building a solution package and submitting it to the FSO Platform
- Solution package can comprise of new or extended entity domain models, MELT configs, data transformation workflows, REST services, new or extended UI templates etc.



Developer Experience Demo



Zoom to namespace

common

infra

k8s

db

apm

aws

azure

cloud

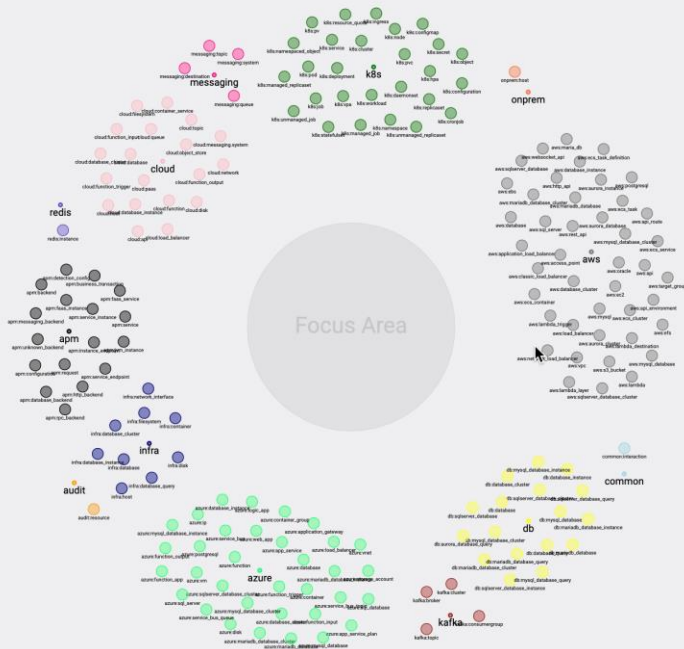
kafka

redis

onprem

audit

messaging



Schema

Entities (178)

Metrics (742)

Events (7)

FSO Modules

<10%

Average K8S node utilization

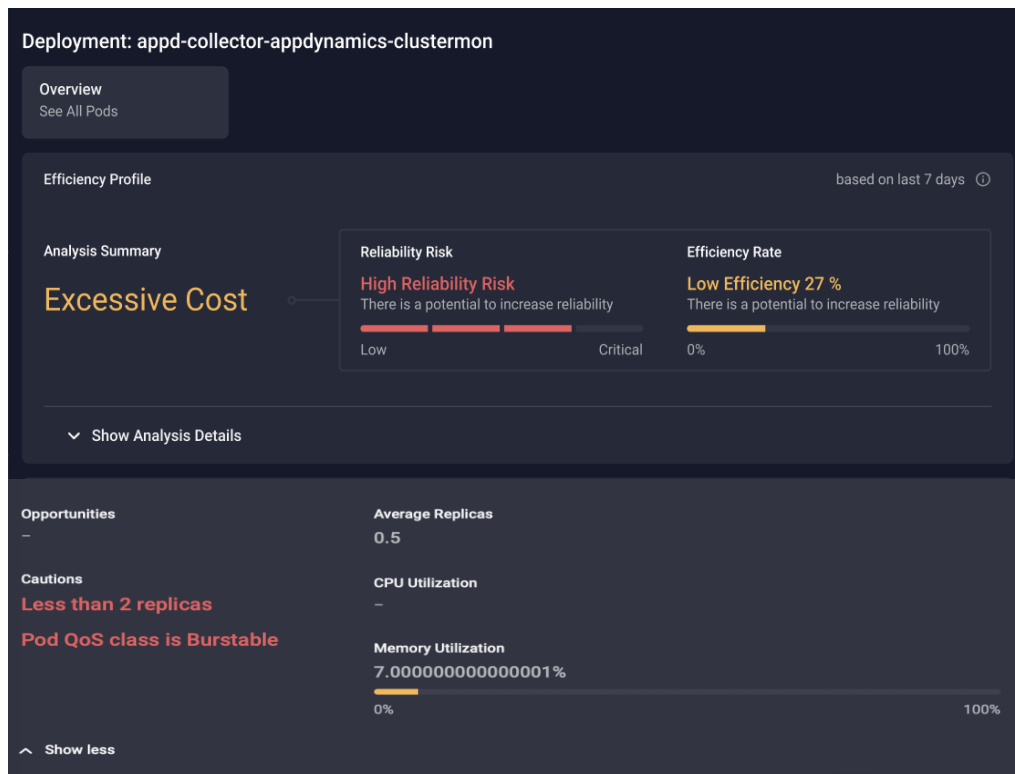
32%

Enterprise Cloud Spend YoY Growth

Cost and Workload Profiler

Efficiency and Risk profiler
for K8s workloads

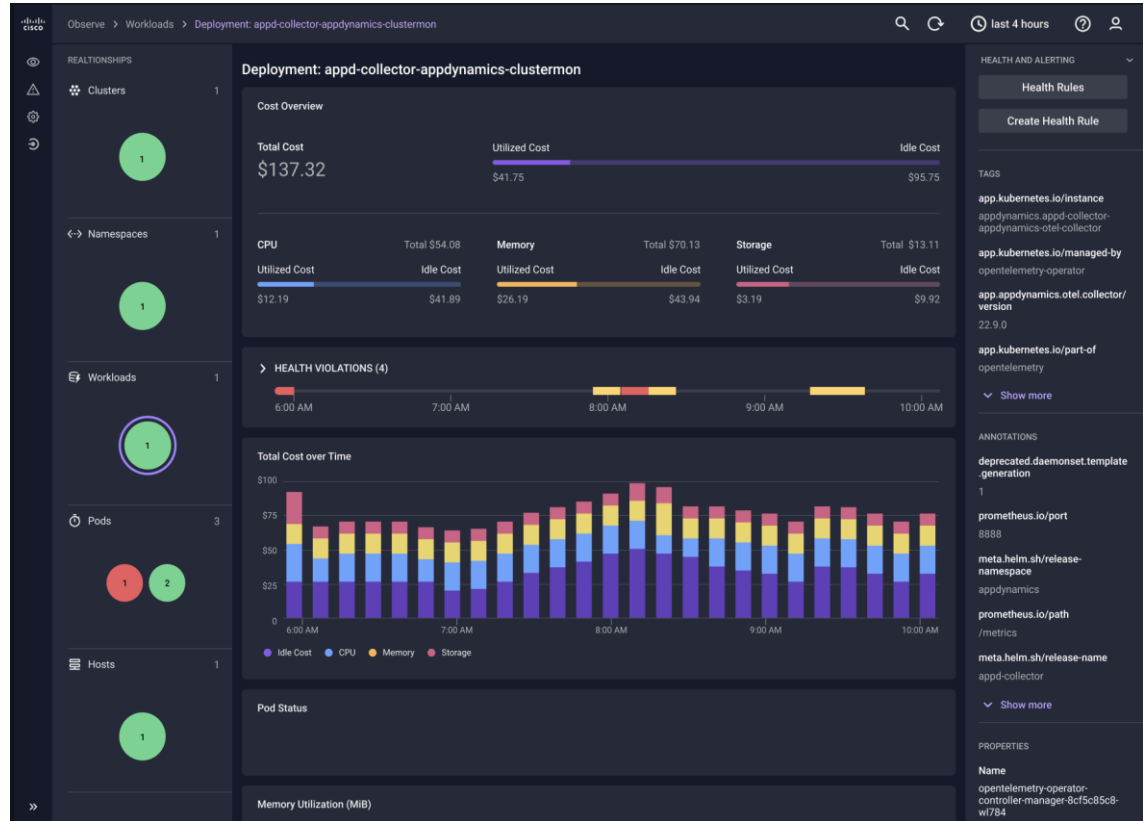
- Identify inefficient or over-subscribed k8s resource assignments
- Identify reliability and availability risks based on throttling, replicas, etc.
- Leverage existing OTel K8s collector for metrics collection



Cost Insights

Gain cost visibility into your K8s envs

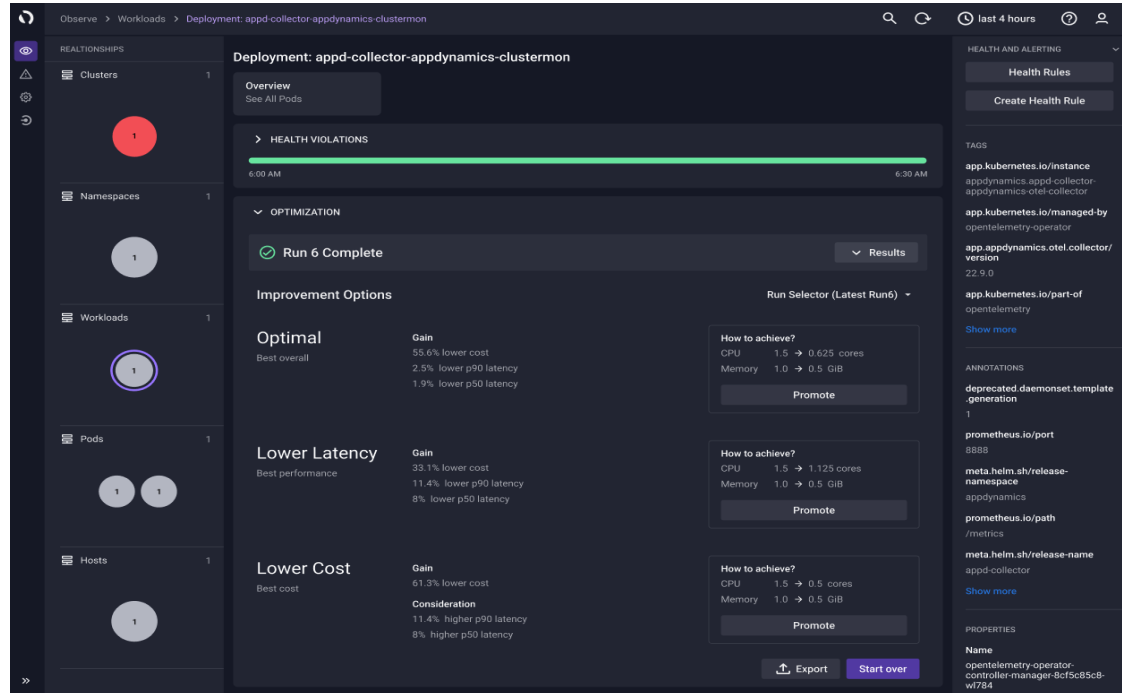
- Review cost of k8s resources including clusters, pods, workloads etc. in real time
- Compare cost of actual utilization vs. allocated resources for CPU, Mem, and storage
- Track cost of K8s resources over time to make informed cost management decisions



Application Resource Optimizer

Tune your resources to your performance and cost needs

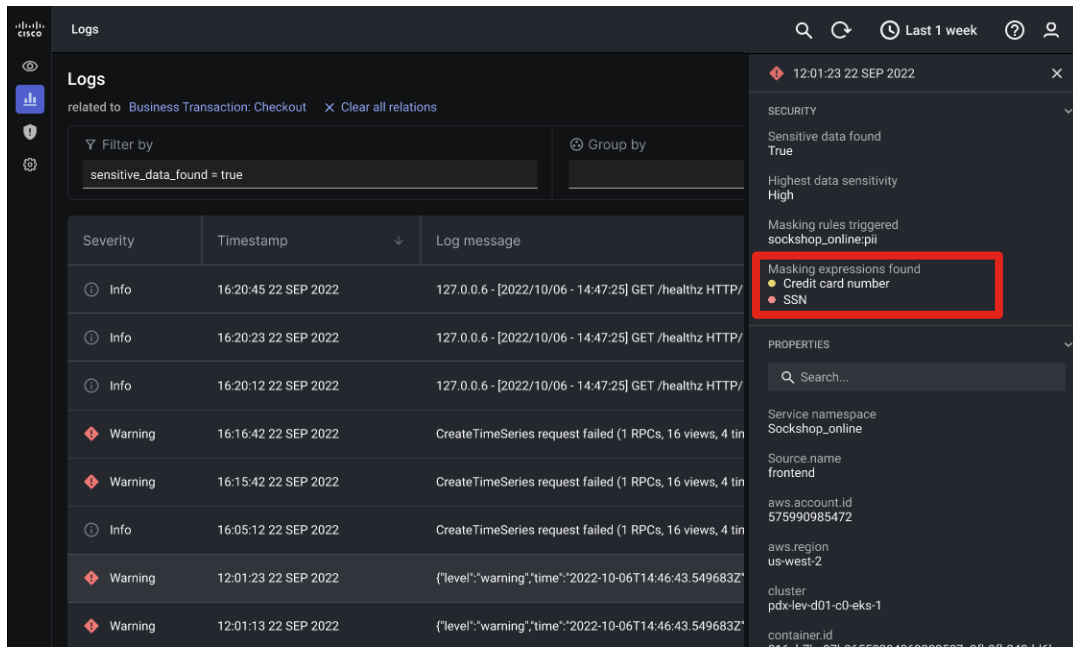
- Provide deeper insights into a K8S workload and provide visibility into the workload's resource utilization
- Analyse and optimize application workloads to maximize resource usage and reduce excessive cloud spend



Security insights

Proactively prevent exploits and data leaks with business risk observability in your Cloud Native Applications

- **Container security** scans for threats and vulnerabilities to ensure secure deployment of modern apps
- **Runtime data security** detects and protects against leakage of sensitive data reducing risk of PII data leakage
- **Business risk scoring** combines container and data security with business impact and runtime behavior to identify your biggest risks



The screenshot displays the Cisco Logs interface. The main panel shows a list of logs with columns for Severity, Timestamp, and Log message. The log entry for 12:01:23 22 SEP 2022 is highlighted in red. The right sidebar provides details for this log entry, including 'Sensitive data found: True', 'Highest data sensitivity: High', and 'Masking rules triggered: sockshop_online:pii'. A red box highlights the 'Masking expressions found' section, which lists 'Credit card number' and 'SSN'.

Severity	Timestamp	Log message
Info	16:20:45 22 SEP 2022	127.0.0.6 - [2022/10/06 - 14:47:25] GET /healthz HTTP/1.1
Info	16:20:23 22 SEP 2022	127.0.0.6 - [2022/10/06 - 14:47:25] GET /healthz HTTP/1.1
Info	16:20:12 22 SEP 2022	127.0.0.6 - [2022/10/06 - 14:47:25] GET /healthz HTTP/1.1
Warning	16:16:42 22 SEP 2022	CreateTimeSeries request failed (1 RPCs, 16 views, 4 tin
Warning	16:15:42 22 SEP 2022	CreateTimeSeries request failed (1 RPCs, 16 views, 4 tin
Info	16:05:12 22 SEP 2022	CreateTimeSeries request failed (1 RPCs, 16 views, 4 tin
Warning	12:01:23 22 SEP 2022	{"level":"warning","time":"2022-10-06T14:46:43.549683Z"
Warning	12:01:13 22 SEP 2022	{"level":"warning","time":"2022-10-06T14:46:43.549683Z"

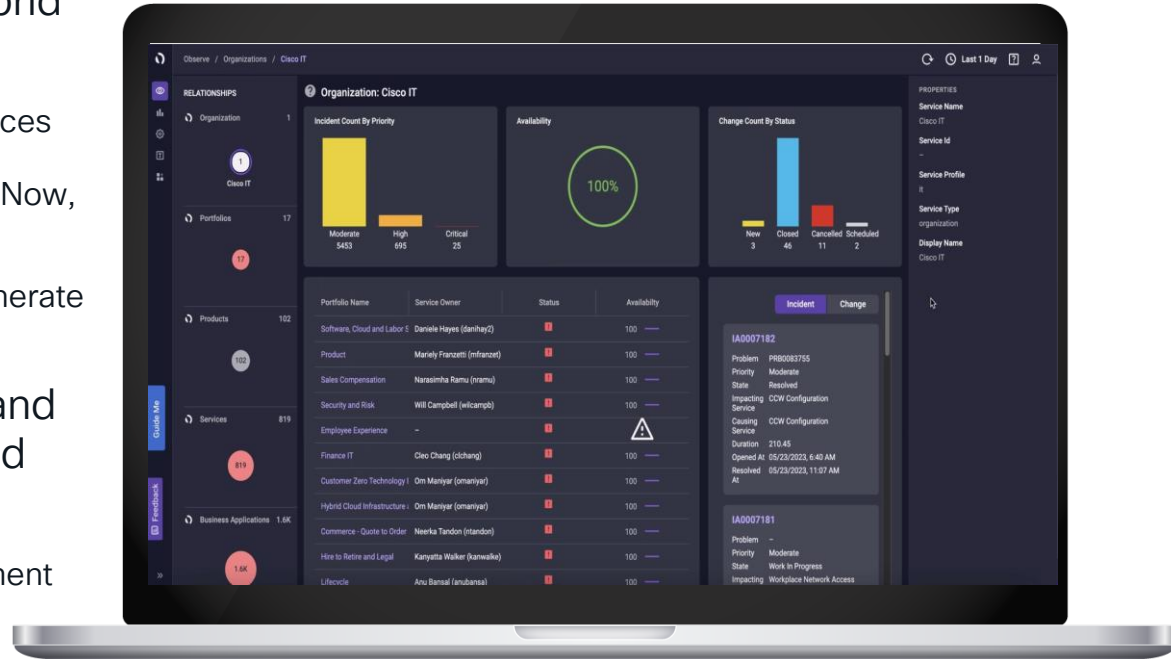
Details for 12:01:23 22 SEP 2022:

- SECURITY
- Sensitive data found: True
- Highest data sensitivity: High
- Masking rules triggered: sockshop_online:pii
- Masking expressions found
 - Credit card number
 - SSN
- PROPERTIES
 - Service namespace: sockshop_online
 - Source name: frontend
 - aws.account.id: 57590985472
 - aws.region: us-west-2
 - cluster: pdx-lev-d01-c0-eks-1
 - container.id: 036617b6-c7b0-55020-456022557e0d0b9-2/2022-10-06-14:46:43.549683Z

ITSM and AIOps module for hybrid cloud

IT Service Management and AIOps by CiscoIT

- Full stack view across your hybrid cloud environment
 - Ingest data from various different sources such as ScienceLogic, ThousandEyes, ServiceNow, Cisco InPERA, and AppDynamics
 - Correlate and visualize together to generate actionable insights
- Get a single view for incident and tickets across your hybrid cloud environment
 - Unified Incident and Service Management across disparate systems



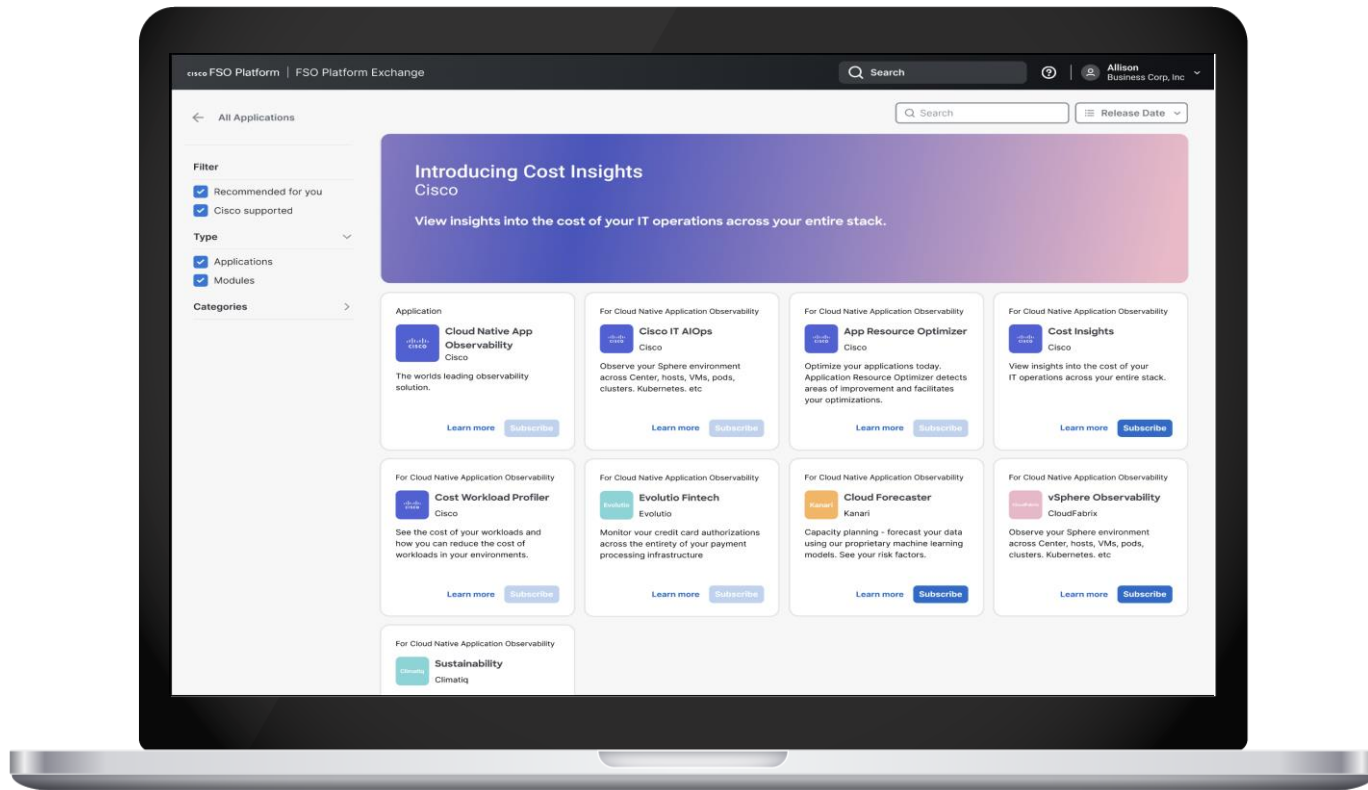


Expand Eco-system with FSO Platform Exchange



FSO Platform Exchange

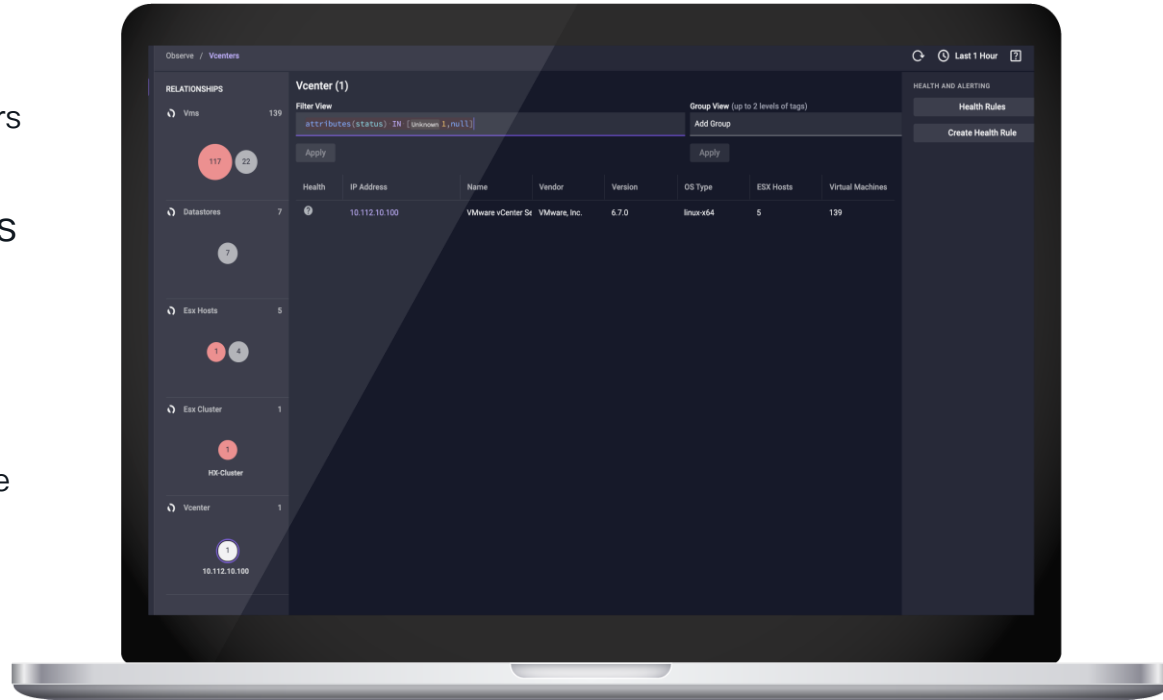
Hub for FSO Applications and Modules



VMware vSphere Observability Module

CloudFabrix module to observe vSphere environments

- Observe vSphere through the FSO Platform
 - Locate how and where an attack occurs with business transaction mapping
- Enrich your vSphere and vROps data with your environment's Kubernetes and Infrastructure data
 - Powerful correlation between K8S clusters and hosts living within vSphere environment



FinOps Business Insights Module

Payments monitoring by Evolutio

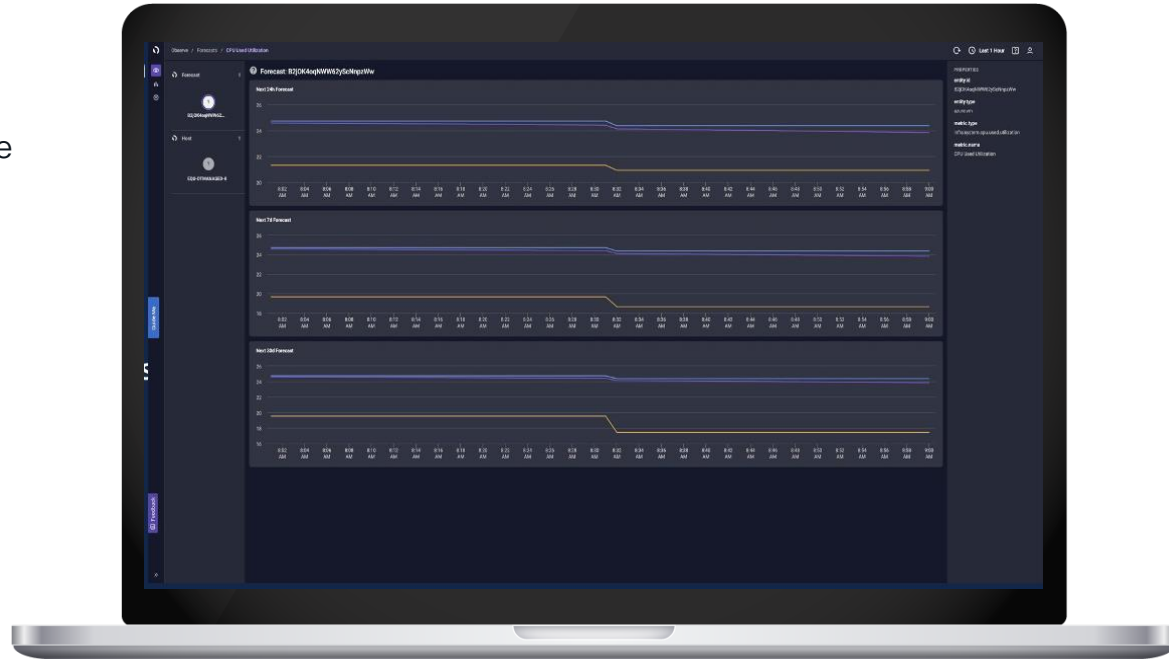
- Reduce revenue losses for financial customers' resulting from credit card authorization failures
 - by monitoring financial customers' KPIs such credit card authorizations
- Get KPIs and insights across regions and sites
 - correlating business KPIs with infra health
- Draw business insights such as infra health impact on hourly credit card authorization
 - by grouping and aggregating based on metadata like region, schemes, infra components (gateways/protocols) etc.



Kanari Capacity Planner and Forecaster Module

Capacity planning and forecasting through predictive ML algorithms

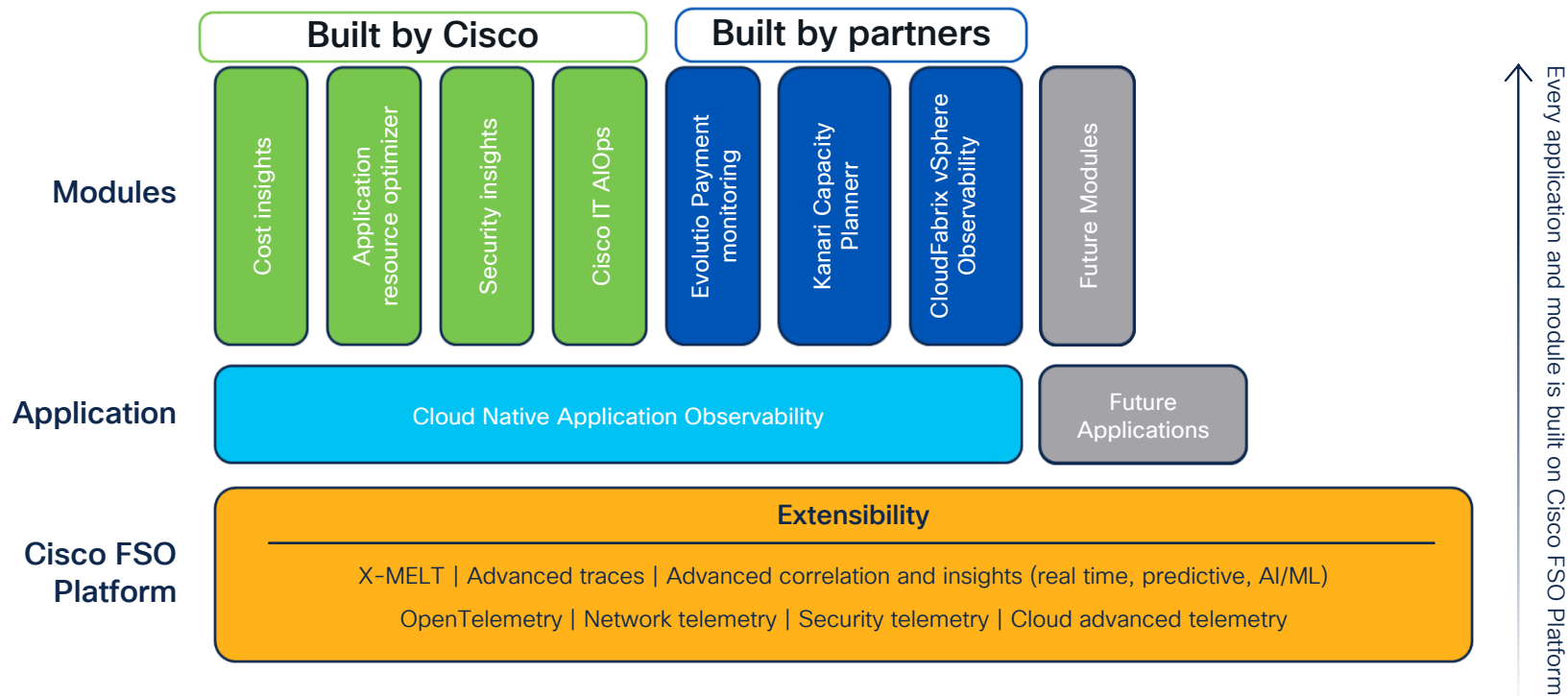
- Insights on infrastructure risk factors and derive capacity forecasts
 - by using predictive ML algorithms like ARIMA, SARIMA, LSTM
- Baseline and track capacity forecast overtime to analyse how capacity needs are changing over time
 - through time series graphs



FSO Ecosystem

[FSO Ecosystem Demo](#)

Powering the Observability future with the Cisco FSO platform



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- Book your one-on-one Meet the Engineer meeting
- Attend the interactive education with DevNet, Capture the Flag, and Walk-in Labs
- Visit the On-Demand Library for more sessions at www.CiscoLive.com/on-demand

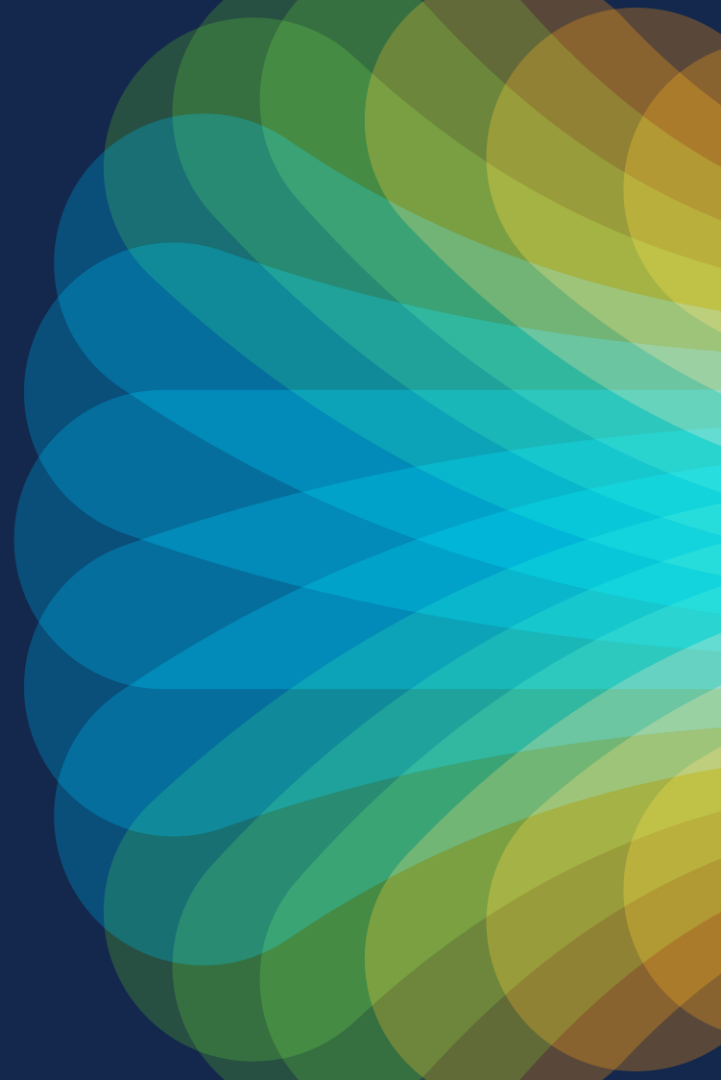


The bridge to possible

Thank you



#CiscoLive

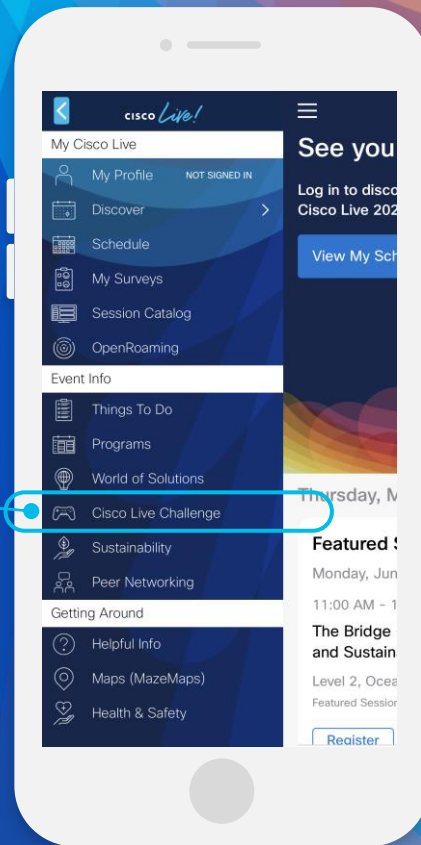


Cisco Live Challenge

Gamify your Cisco Live experience!
Get points for attending this session!

How:

- 1 Open the Cisco Events App.
- 2 Click on 'Cisco Live Challenge' in the side menu.
- 3 Click on View Your Badges at the top.
- 4 Click the + at the bottom of the screen and scan the QR code:



The background is a vibrant, abstract graphic. It features a central bright white light source from which numerous colorful rays emanate, creating a sunburst or starburst effect. The rays transition through a spectrum of colors including yellow, orange, red, and various shades of blue and green. Overlaid on this are several large, semi-transparent, wavy shapes in similar color tones, giving the overall image a sense of motion and energy.

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