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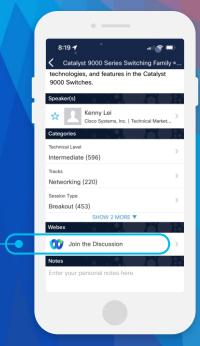
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# Extend Observability with Cisco FSO Platform

Yogesh Ranjan, Director Product Management, Cisco FSO Platform PSOAPP-1009



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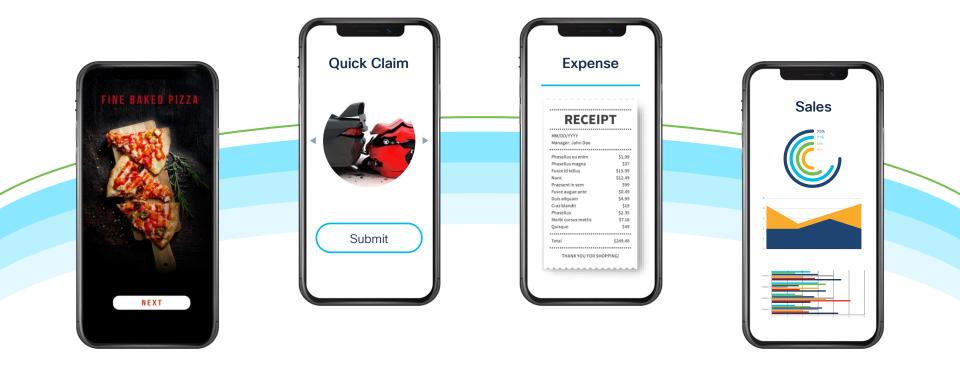
- Introduction
- Cisco FSO Platform
- Anatomy of Solution
- Cisco FSO Platform modules
- Demo
- Summary

## We live in an evolving and expanding digital world



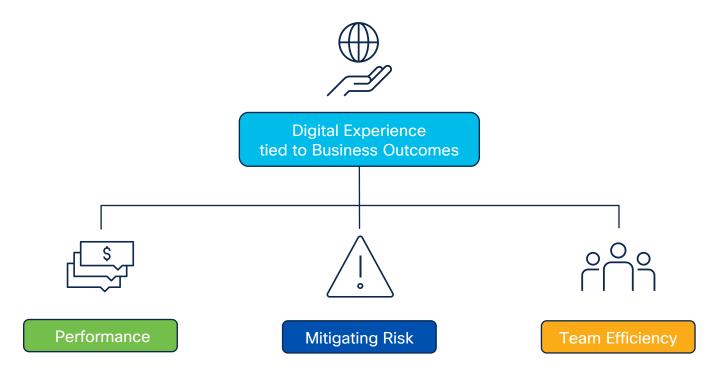


## Applications are the front door for digital experiences



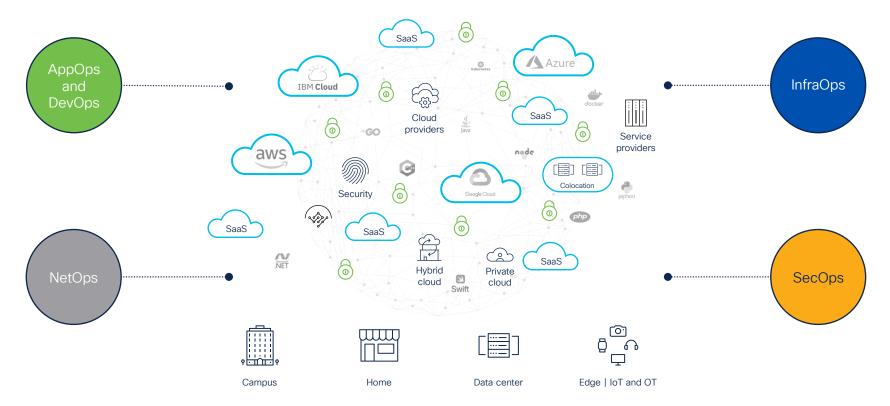


# Where digital experience is the new business KPI





# But applications are built in complex environment





#### Which leads to

56% Use more than 10 application observability/monitoring tool

60%

Say most observability tools serve narrow requirements and fail to enable a complete view

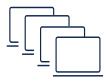
Struggle with data collection and correlation



Complexity



Data overload



Tool sprawl



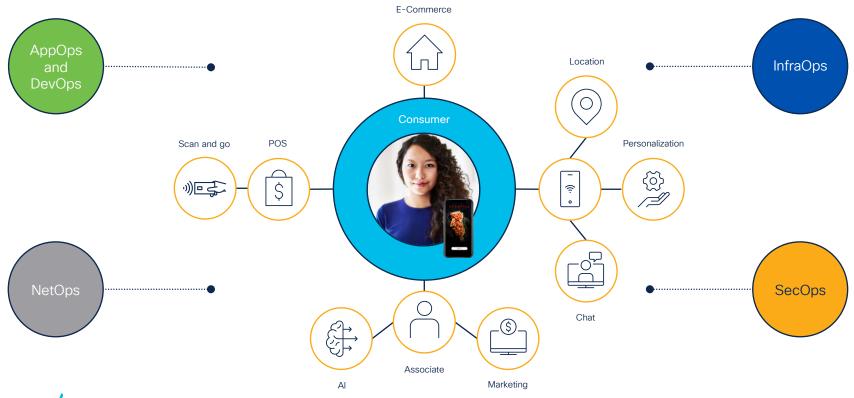
Friction between teams





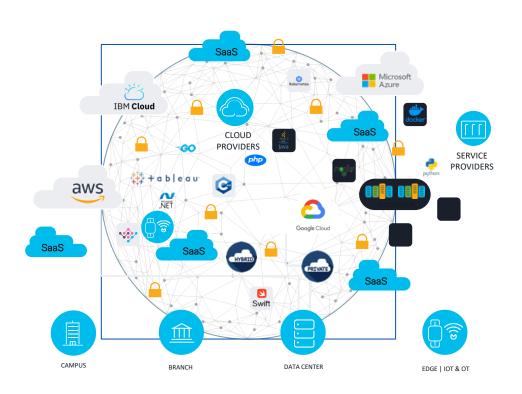
## So, teams need to see the full stack of available data

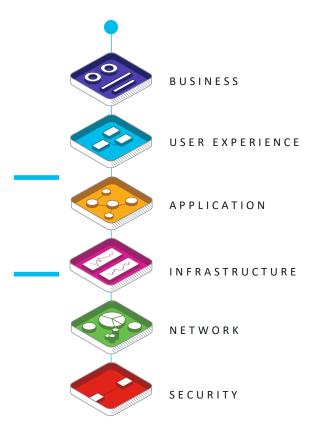
Shared context across the digital experience





#### **Full-Stack Observability**







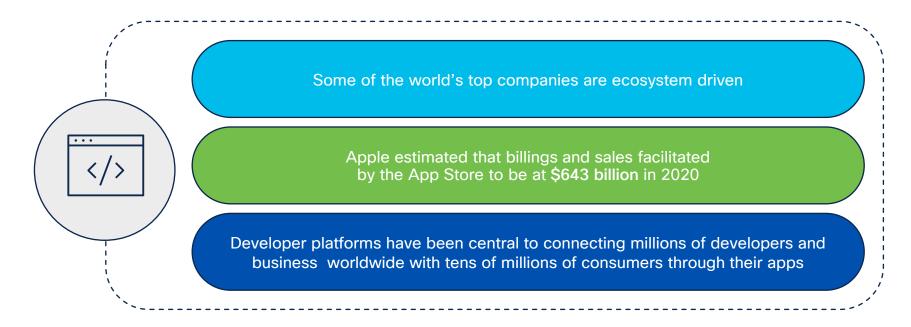
# 65%

say they want a
programmable and
extensible observability
solution that can be
used for use cases
specific to their business
and environment



# Developer platform is a growth strategy

Unleash a new Observability eco-system to fuel growth and open new opportunities and route-to-markets





# Unleash a new observability ecosystem

Expedite time-to-market and deliver more choices to customers through amplified innovation and expanded ecosystem



IT organizations face constant pressures to deliver new, updated applications and capabilities to meet the needs of their business



Businesses that arrive to market six months late will lose 33% of their profit compared to other organizations



500 Million applications are going to be developed in the next 3 years and organizations cannot do it alone



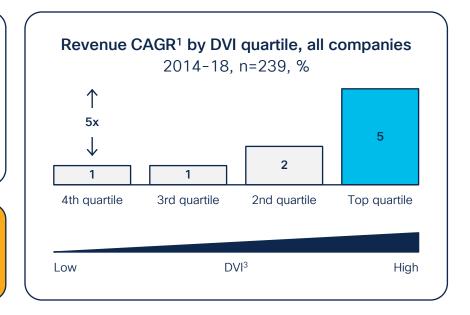
#### Accelerate growth with extensible architecture

Developer Ready Platform is all about creating a seamless and collaborative environment and remove points of friction among internal and external development teams

Organizations that fall into the top quartile of McKinsey's DVI index have extensible and flexible software architectures where different software components can be built independent of each other

55% higher innovation

4x+
faster growth





#### 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 to provide **unified visibility**, derive **real-time insights** and recommend **actions** helping to:



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



Reduce time to resolution of incidents and performance issues;



Minimize tool sprawl



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



# A developer ready FSO platform

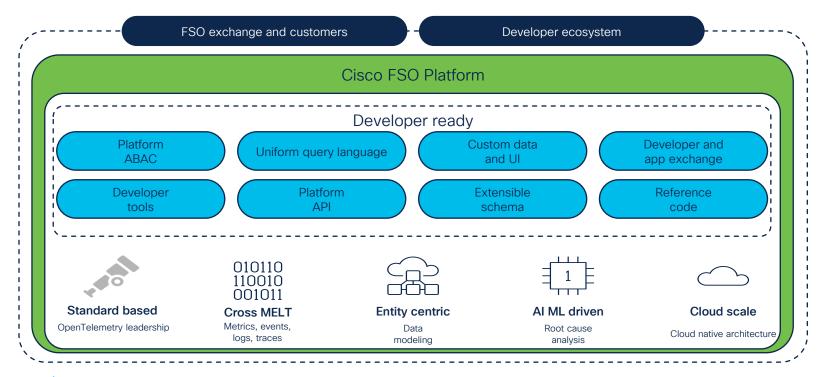




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# What is Cisco FSO platform?

Empowers a new observability ecosystem

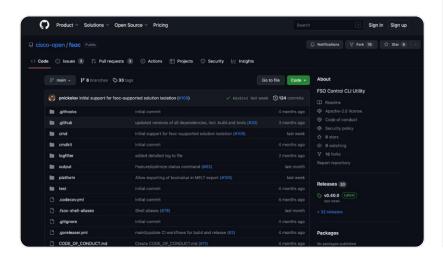




# FSO Platform Experience

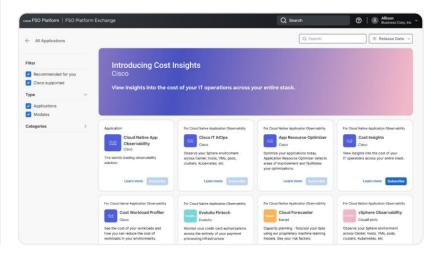
#### Developers

Developer tools and environment for applications and modules development



#### Users

Search, browse, and discover modules through FSO Platform Exchange





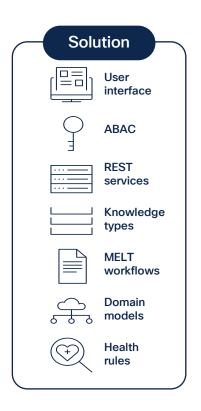
# Building on FSO Platform



# Anatomy of a Solution

#### Build Modules with the FSO Platform

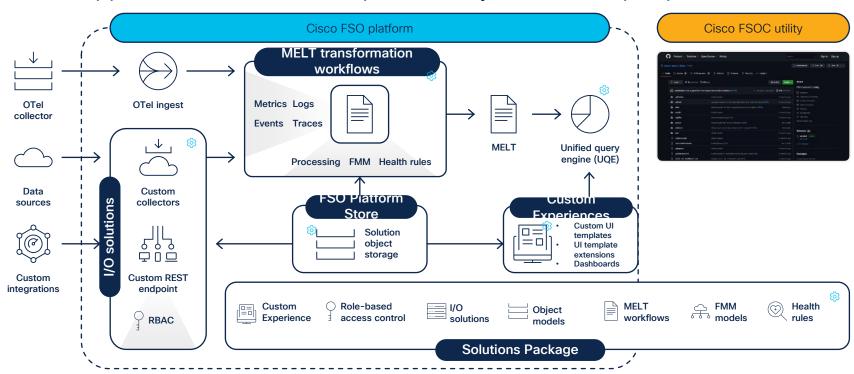
- FSO modules are manifested by building a solution package and submitting it to the FSO Platform
- Solution package is a zip file comprising of collection of JSON configs
- Solution package can comprise of new or extended
  - entity domain models,
  - MELT configs,
  - custom data collectors,
  - data transformation workflows,
  - REST services,
  - new or extended UI templates





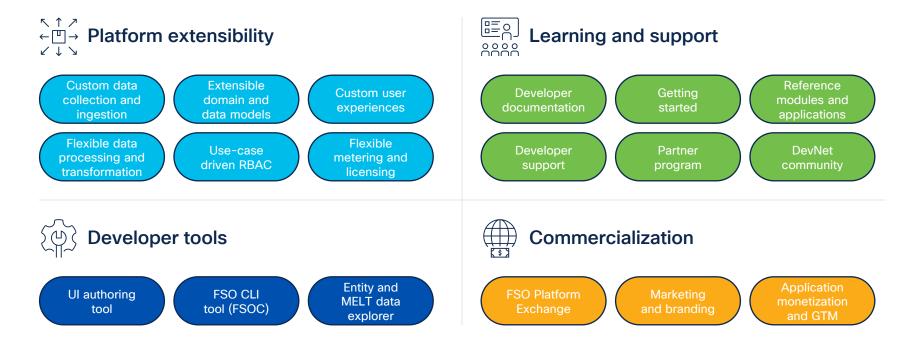
# Building on the Cisco FSO platform

Create applications and modules powered by FSO developer platform services



# Building on the Cisco FSO platform

FSO developer platform accelerates creation of new observability experiences



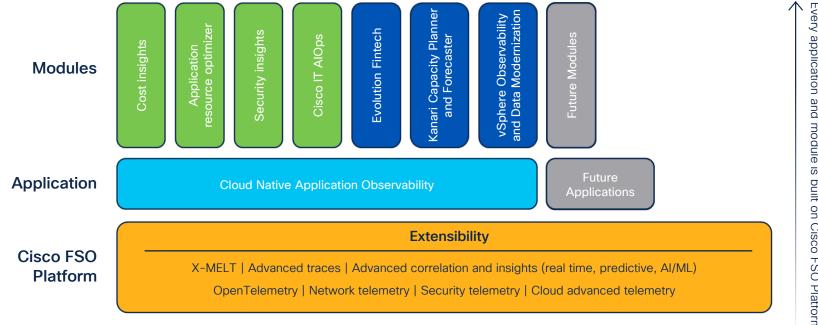


FSO Platform
Exchange –
Applications and
Modules



#### Cisco FSO Platform

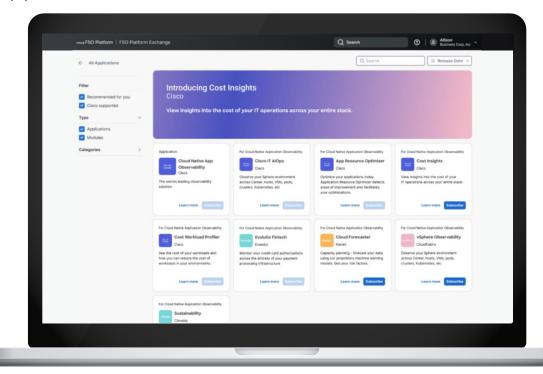
#### Applications and Modules





# Cisco FSO Platform Exchange

Hub for FSO applications and modules





# Cisco 1<sup>st</sup> Party Applications and Modules



# Cloud Native Application Observability

#### Monitor Cloud Native Applications



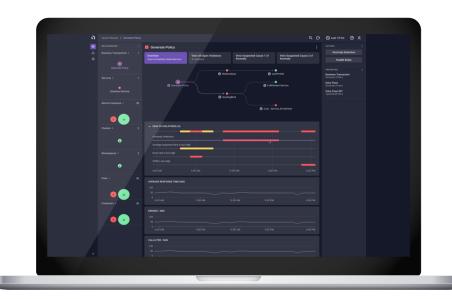
Ready-made domain models and correlated data across domains for full-stack observability up, down, and across the stack



Observe modern applications built on cloud and for cloud



Purpose built from the ground up on Cisco FSO Platform



Cloud Native Application Observability



#### Cisco built Applications and modules on FSO Platform







Cisco IT service management







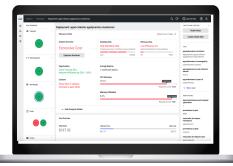
Security insights

**Cloud Native Application Observability** 



#### FSO Platform Optimization and Insights in Action

Visibility



K8S Cost and Workload Profiler

Insights

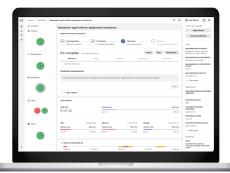




**Cost Insights** 

Action





Application Resource Optimizer



#### K8S Cost and Workload Profiler

#### Efficiency Profile on K8S workloads

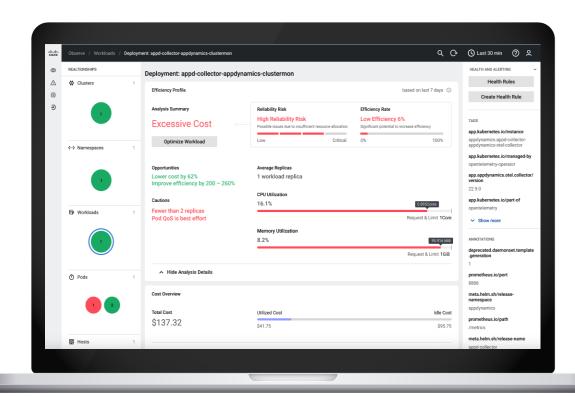
- First level of visibility for K8s
- Highlight efficiency & resource usage for K8S workloads

#### Risk profile of K8S workloads

- Highlight Reliability Risks user might not be aware of
- Analyze resource usage and identify low resource usage to enable savings

#### Free Module

- No additional charge with FSO
- Leverages existing data to provide analysis





#### Cost Insights

#### Cost Insight Module for Cloud Native Application Observability

#### Cost Analysis for K8s Resources

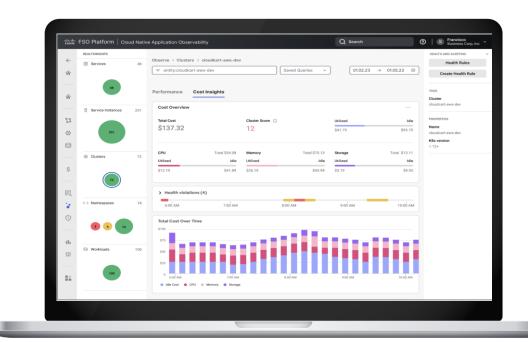
- Understanding costs for K8s components
- · Visibility at Clusters, Workloads, Namespaces, Pods
- Gain a deeper visibility into Cloud Spend

#### Allocation vs Utilization

- Compare allocation of resources to usage
- Understand usage trends of Compute and Memory
- Identify over-provisioned resources and saving opportunities

#### Cost Insights for APM services

- Correlate Cost data from Infrastructure with APM
- Ability to track costs over time to understand spend
- · Manage Cost for cloud native services effectively



#### Application Resource Optimizer

#### Optimization on K8s Workloads

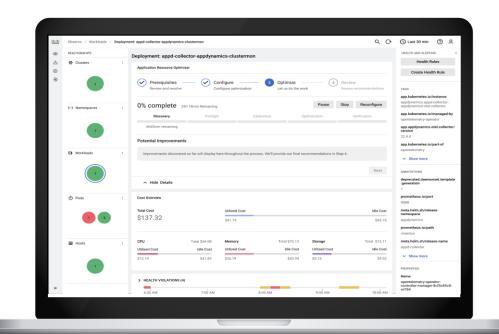
- Run continuous tests on K8s workloads
- Improve your resource allocation & performance
- Reduce your cloud spend by identifying excess allocation

#### AI/ML Engine to Power Optimizations

- Leverage Machine Learning to provide recommendations
- Continuous optimization to assist with every release
- Suggest recommendations that Humans won't even think of

#### Providing Optimization Recommendations

- Leverage recommendations to bring costs down
- Optimal, Lower Latency and Lower Cost Options
- · Apply tested recommendations with confidence





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#### Application security

Security insights Module for business risks insights on CNAO



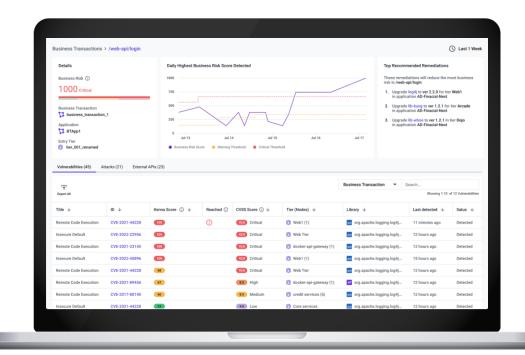
Locate how and where an attack occurs with business transaction mapping



Leverage threat intelligence feeds from Cisco Talos, Kenna and Panoptica to quickly assess the likelihood a threat will be exploited



Combine threat and vulnerability intelligence with business impact and runtime behavior to provide a business risk score





## ITSM and AlOps module for hybrid cloud

IT Service Management and AlOps by CiscolT

# 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





# <u>Demo</u>



# Extend – 3P Applications and Modules



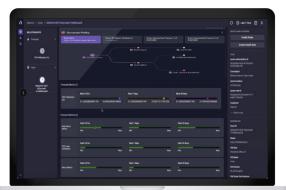
## Unleash the eco-system with partner modules

Modules built by Partners





Payment Monitoring -Evolutio



vSphere Observability - CloudFabrix

Capacity Forecaster - Kanari

#### VMware vSphere Observability Module

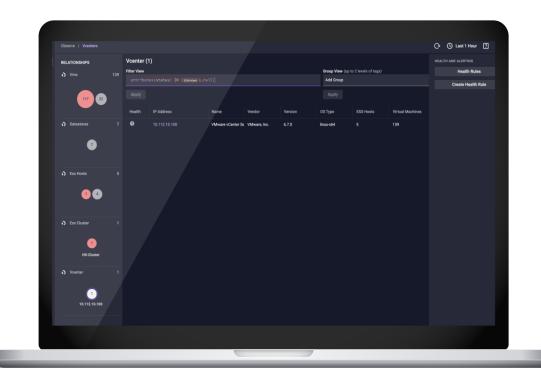
CloudFabrix module to observe vSphere environments

#### 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

 by ingesting business data and 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 and plans based on it

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





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#### Benefits of Cisco FSO Platform

Empowers a new observability ecosystem



Natively supports OpenTelemetry







**Provides Unified** Query Language (UQL)



#### OTEL based Unified View of Data

MELT data from multiple cloud & noncloud sources are combined for a single entity view to reduce MTTD



#### Out of box correlation

Users can derive insights from multiple domains across business, apps & infrastructure



#### Create value-added solutions

Build your own applications and/or extend existing applications with modules, domain-models, dashboards, and custom experiences



#### Empower developers

Provide 3rd party developers the tools and processes to build new applications and modules



# How to buy

#### **FSO Essentials**

+ Other CX offers (TBD)

+ CX QuickStart

+ \*\*Product add-ons

Extend observability with Cisco FSO Platform

Application security

Modern application monitoring

Hybrid application monitoring

FSO Essentials package provides full stack visibility, insights, and actions, tied to business context, across application monitoring and application security

#### **FSO Advantage**

+ Other CX offers (TBD)

+ CX QuickStart

+ \*\*Product add-ons

Extend observability with Cisco FSO Platform

Digital experience monitoring

Application dependency monitoring

Application security

Modern application monitoring

Hybrid application monitoring

**FSO Advantage** package provides full stack visibility, insights, and actions, tied to business context, across application monitoring, network and application security

#### **FSO Premier**

+ Other CX offers (TBD)

+ CX QuickStart

+ \*\*Product add-ons

Extend observability with Cisco FSO Platform

Application resource optimization

Hybrid cost optimization

Digital experience monitoring

Application dependency monitoring

Application security

Modern application monitoring

Hybrid application monitoring

FSO Premier package provides full stack visibility, insights, and actions, tied to business context, across application monitoring, network and application security and helps you to optimize resources

# List of Related Sessions

Session#	Title	Time
LABCLD-1011	Full Stack Observability - Monitoring and troubleshooting a sample application -	Walk In Any Time
DEVLIT-1294	Empower a new observability ecosystem with an open and extensible Cisco FSO Platform	Tue Jun 6, 4 - 4:30 pm
PSOAPP-1009	Extend observability with Cisco FSO Platform	Tue Jun 6, 2:30 - 3:00 pm
DEVLIT-1297	Optimize Cost and Resources with Cisco Full-Stack Observability	Tue Jun 6, 3 - 3:30 pm
PSOAPP-1009	Cisco FSO Platform: Product and Engineering SME's answer all your questions -	Wed Jun 7, 1- 2 pm
BRKAPP-1916	New - Optimization with Cisco Full-Stack Observability for Kubernetes Workloads	Thu Jun 8, 8 - 9am

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These points help you get on the leaderboard and increase your chances of winning daily and grand prizes



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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



# Thank you





# Cisco Live Challenge

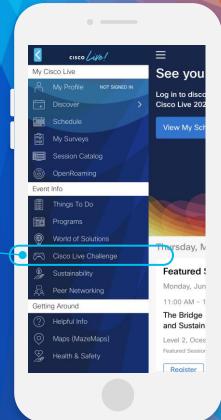
Gamify your Cisco Live experience! Get points for attending this session!

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- 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:







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