

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.

cisco *Live!*

Let's go

#CiscoLive



The bridge to possible

Cisco IT - AIOps Simplifying IT Operations

BRKXAR-2758

June 6, 2023|1:00 PM

Venkat Bongoni - Software Engineering Technical Leader,
Cisco IT



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 June 9, 2023.

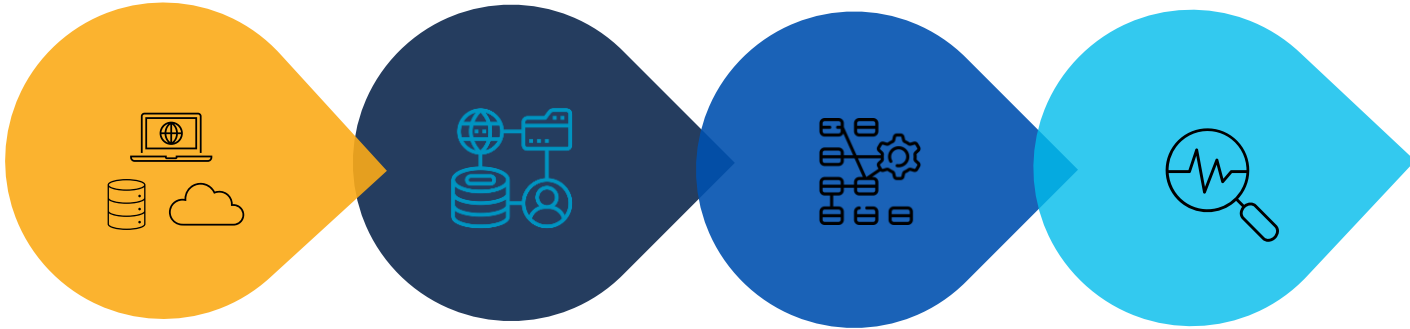


<https://ciscolive.ciscoevents.com/ciscolivebot/#BRKXAR-2758>

Agenda

- IT Complexity
- The Cisco IT Vision
- Operations Transformation using AIOps
- Realized Business Value
- Demo

IT Complexity



Increase in volume
of Applications,
Data, Tools, and
Systems across
hybrid landscape

Increase in
Operational
Complexity

Increase in System
dependencies

Increase in
Monitoring tools

Our Vision

Over the top virtual simplicity, insights, and action

Platform Agnostic

Any platform, any location, any operational domain, easy and fast on-boarding.

Insights

Inter-domain metric and incident correlation, of incidents and services across all operational domains – AppOps, NetOps, InfraOps, SecOps, CollabOps

Unified Visualization

Inter-domain 5 levels of persona-based end-to-end visualization of entire I&O system health on a single screen

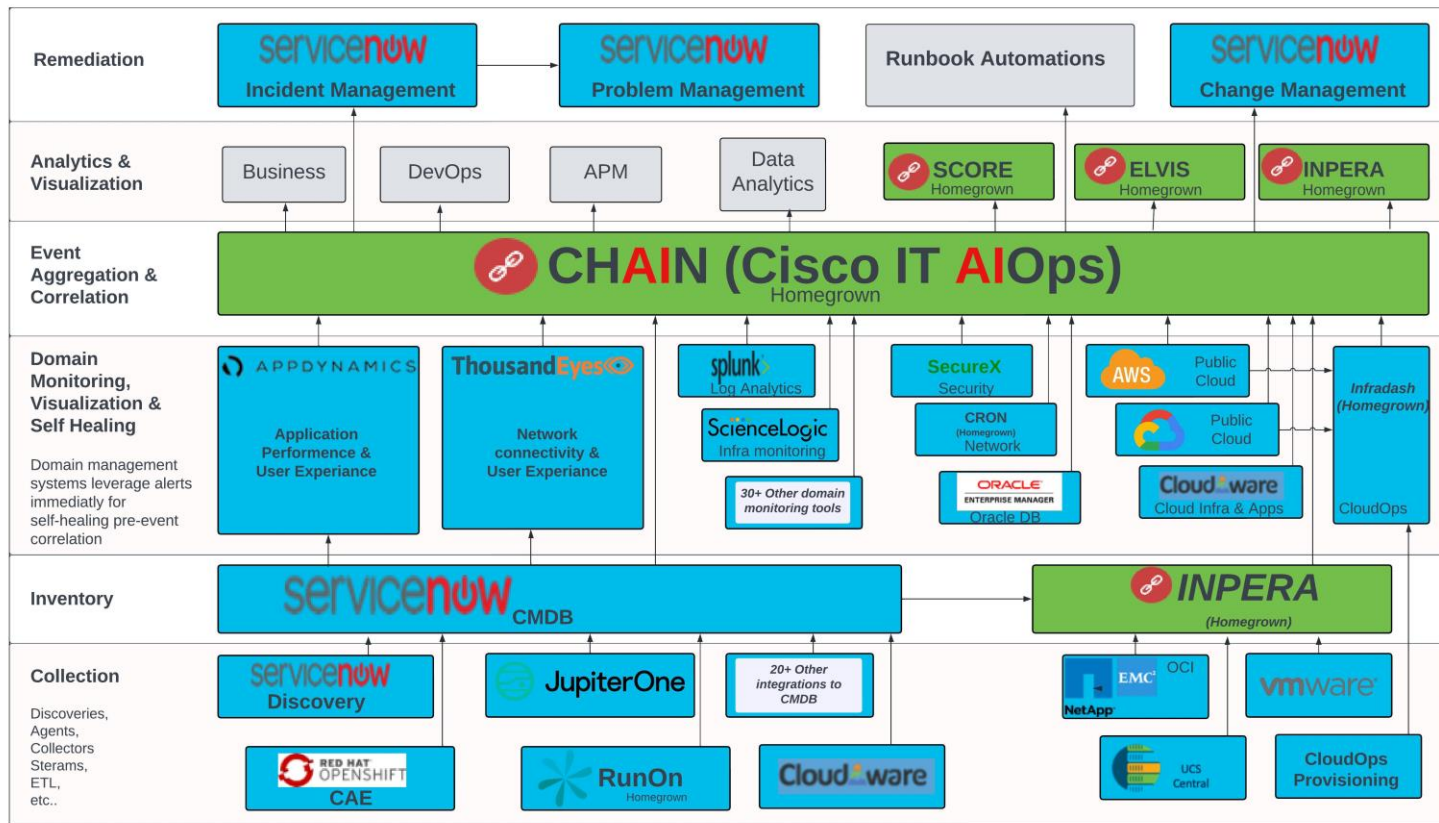
Actions

Discover actionable events from correlated alerts and notifications and act on it

Monitoring & Observability in IT – Today

Aggregating events and metrics into a single view

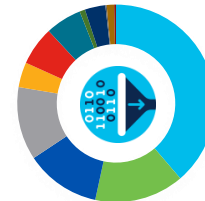
Focusing on Cisco solutions but providing support for a dynamic range of monitoring tools



Cisco IT Observability Landscape



Event Distribution



- Infra-alerts
- Sciencelogic
- Sciencelogic-cms
- AppDynamics
- OEM
- ThousandEyes



4,881
Routers



7,366 LAN
Switches



11,000+ UCS servers



56,553
Virtual Machines



300,000+
Nodes



24,000+
Access points

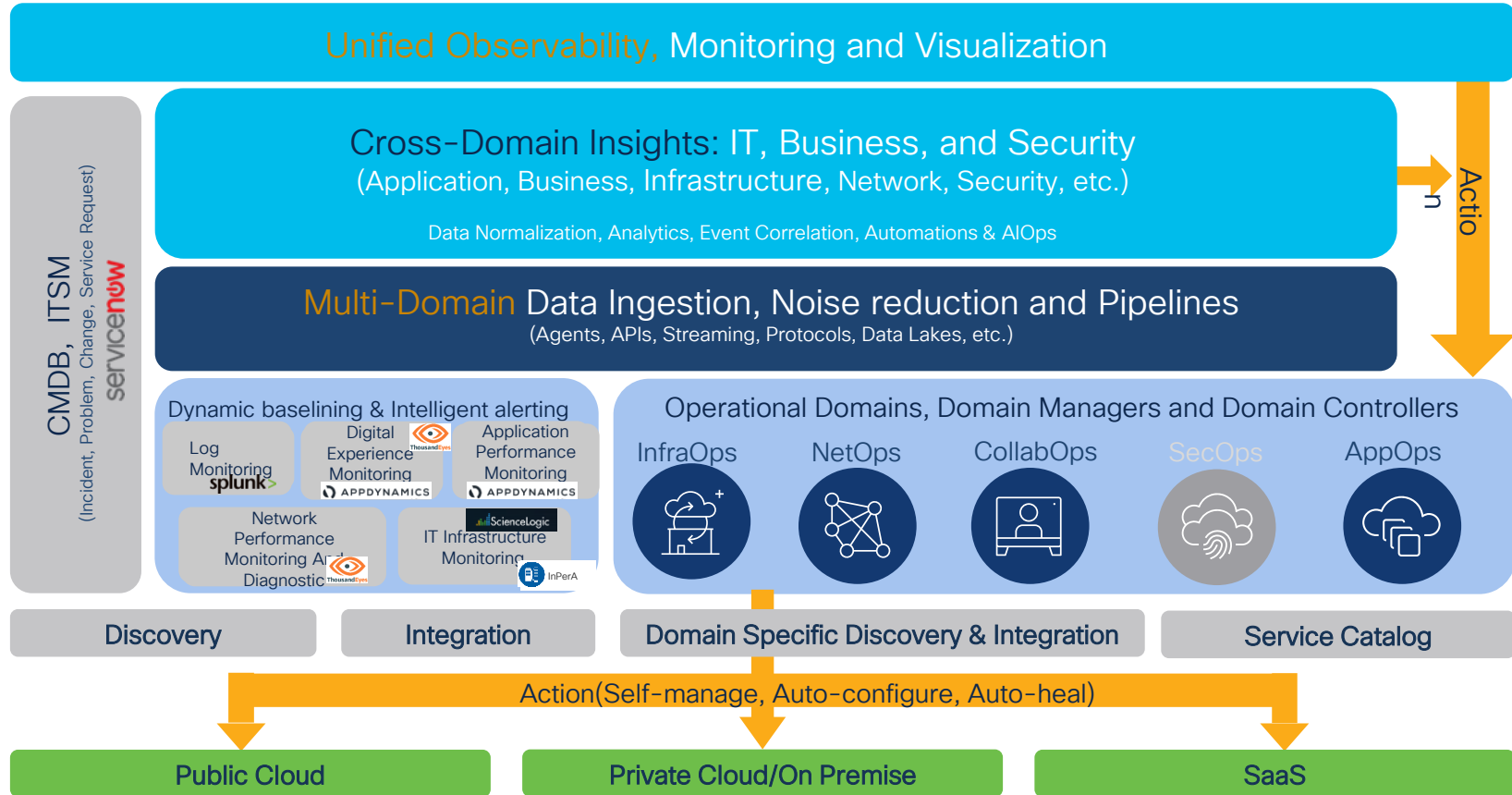


70,000+
Containers

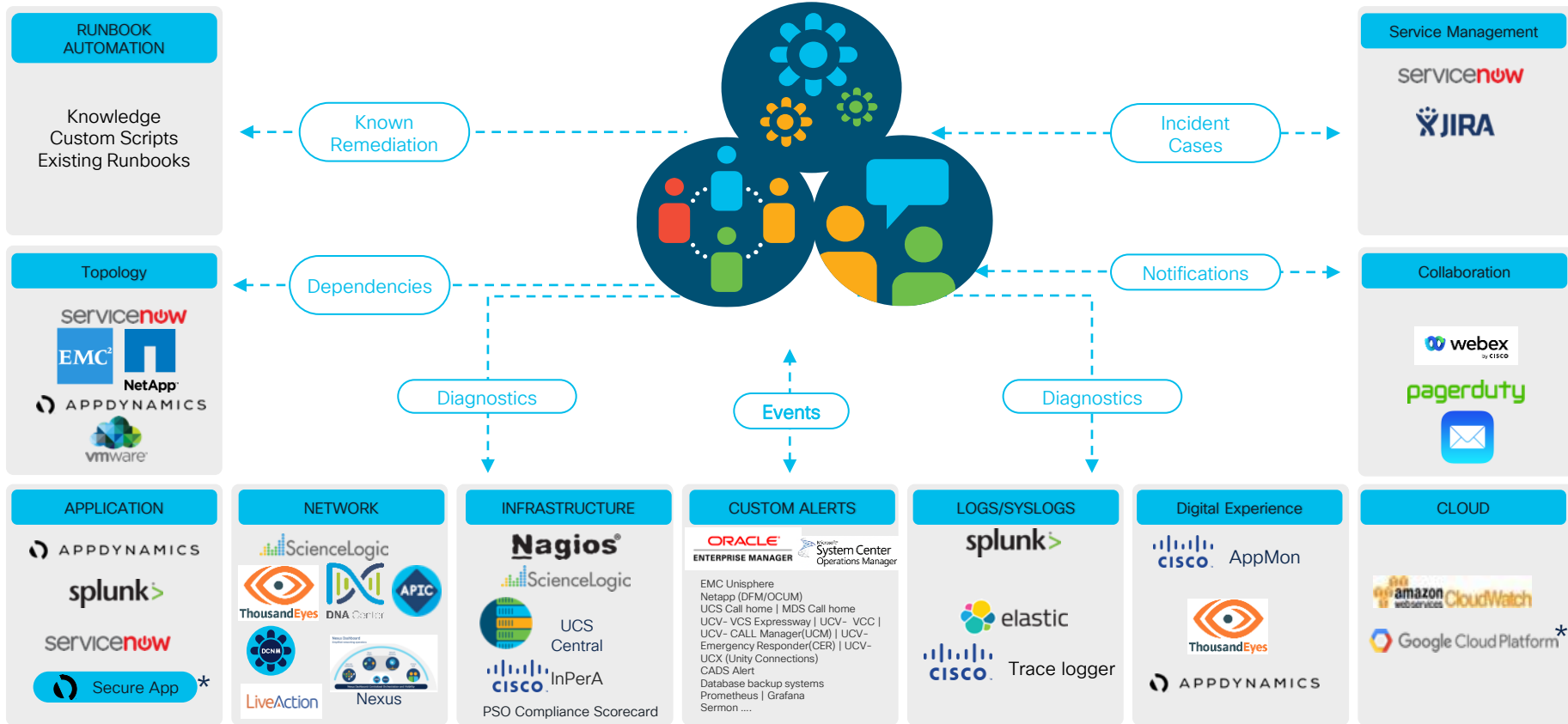


3000+
Databases

Cross Domain Architecture



Out-of-box Brownfield Inter-domain Integrations



* Early Adoption

Key Use Cases



Policy-enforced monitoring | reduce IT noise

Reduce Noise through AI techniques; Automated policy enforcement, detect critical root-cause events and prioritize for faster issue triaging and detection



Cross Domain event correlation for monitoring On-Prem and Cloud based IT Services

Correlate events across various domains (AppOps, SecOps, NetOps, CollabOps, InfraOps) for end-to-end IT service monitoring



Incident Correlation and Self-Remediation

Reduce mean time to resolve issues through AI based advisory ; correlate live events with historical incidents, changes and problems



DevOps



Domain teams/SRE



Duty Managers



Real-time Service Availability Monitoring

Monitor IT Service availability in real-time with insights into impacted services , application and infrastructure components



Outage Prediction with Actions

View predictive alerts for IT services , narrow down to causing application modules , components or end points to make quick decisions



Persona Based Unified Visualization

Visualize Business KPIs and IT's Service performance using the 5-level visualization framework from Domain teams /SRE to Leadership view

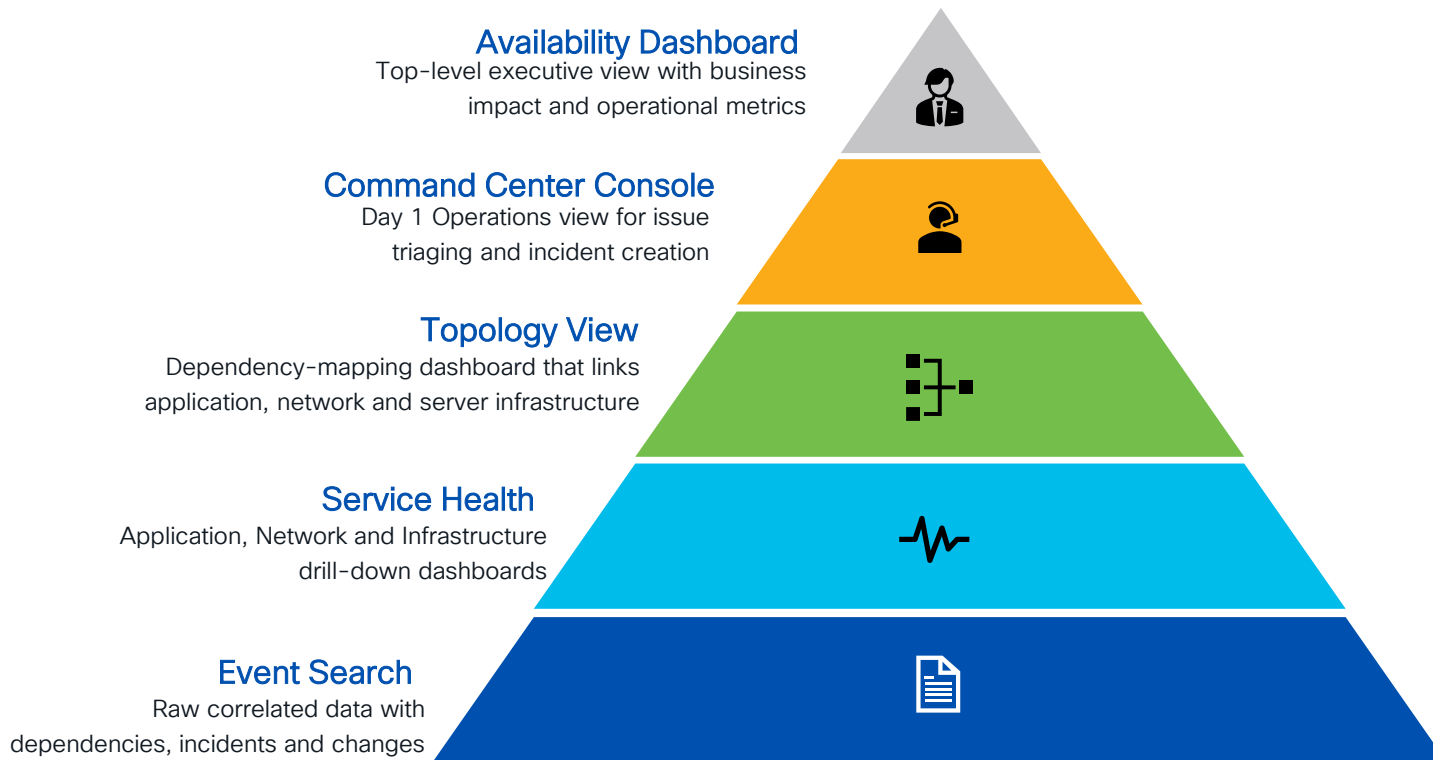


Command Center



Leadership
(Service Management Executives)

Multi-Persona Visualization Framework



Drive Operational Excellence through Cisco IT AIOps

Noise Reduction

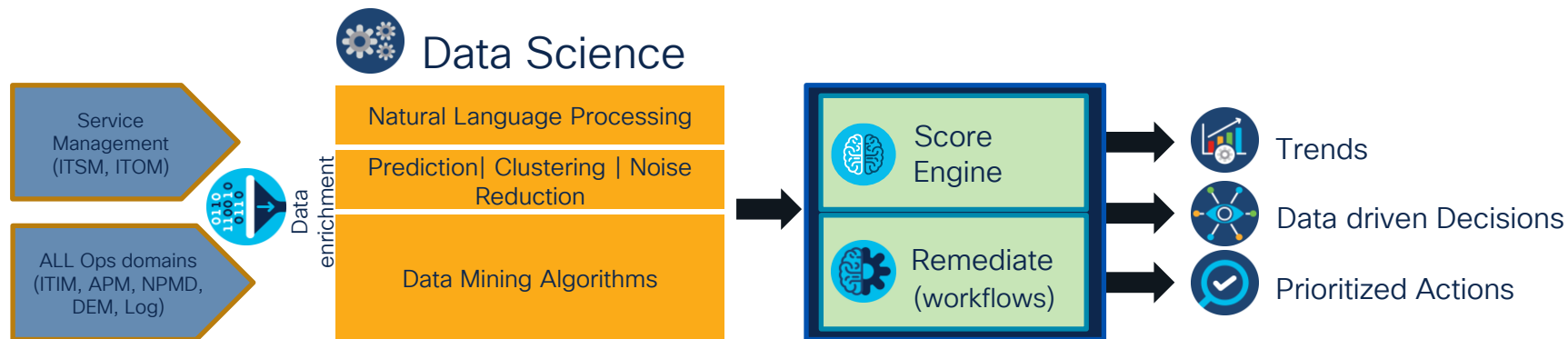
Content and time-based event grouping ; Event Deduplication

Event Clustering

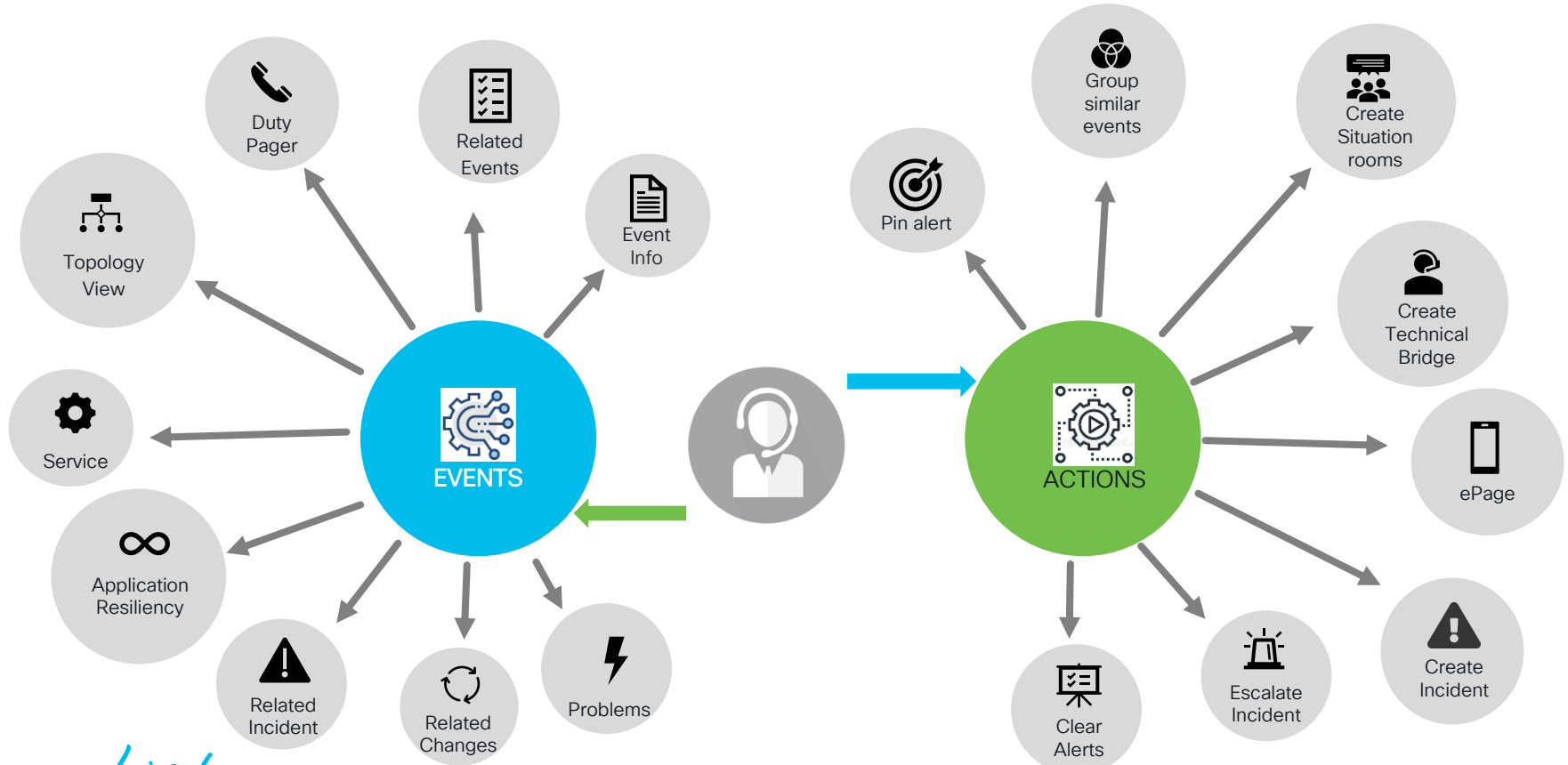
Decision-making based on results from prediction & clustering

Predictive Events

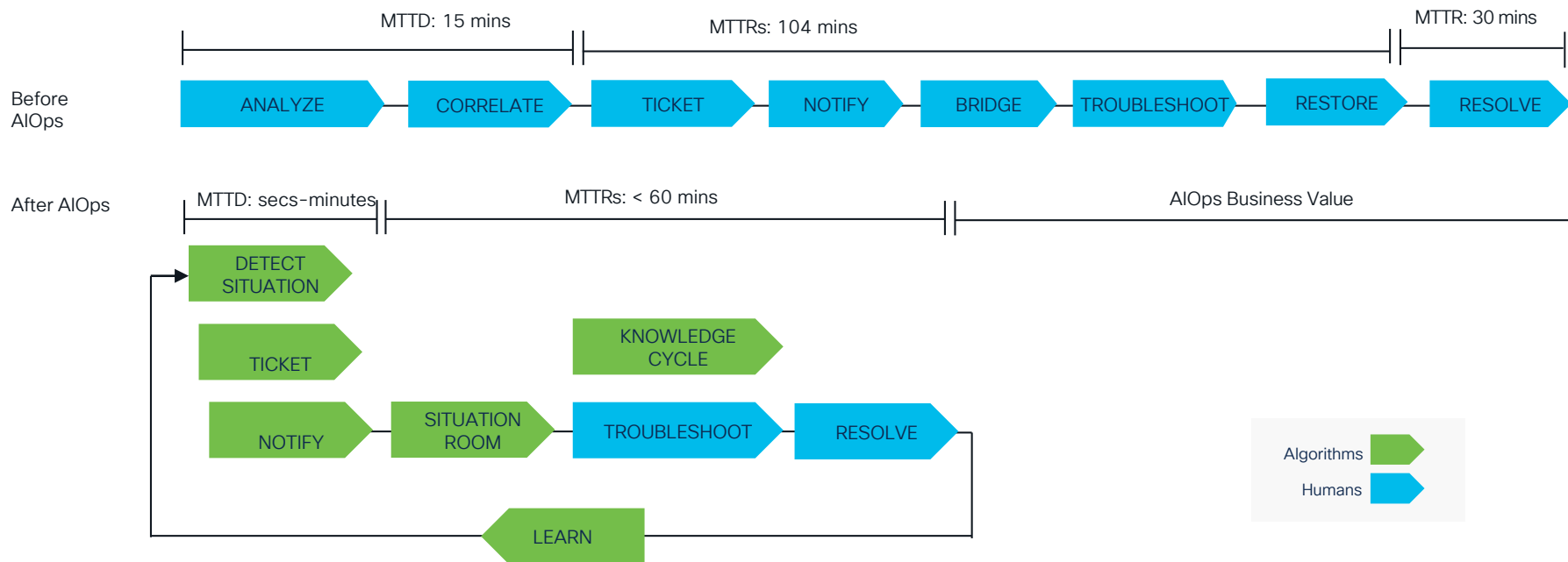
Model training on historical correlated events with incidents data



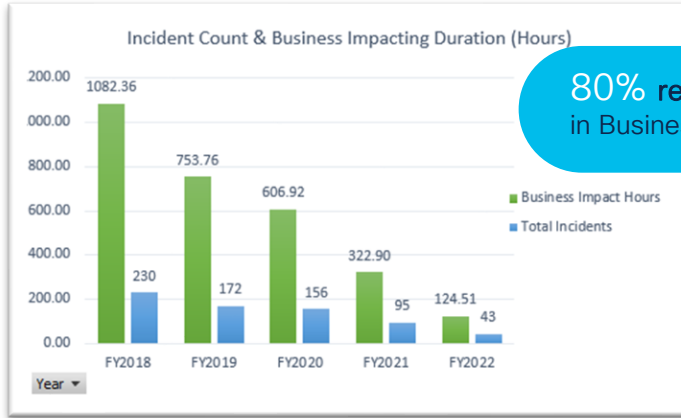
Event Management



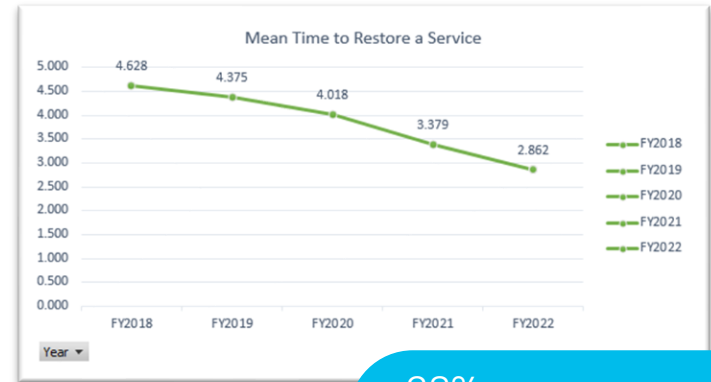
Business Value



IT Operational Metrics



80% reduction
in Business impacting hours



38% reduction
in Mean Time to Restore Service

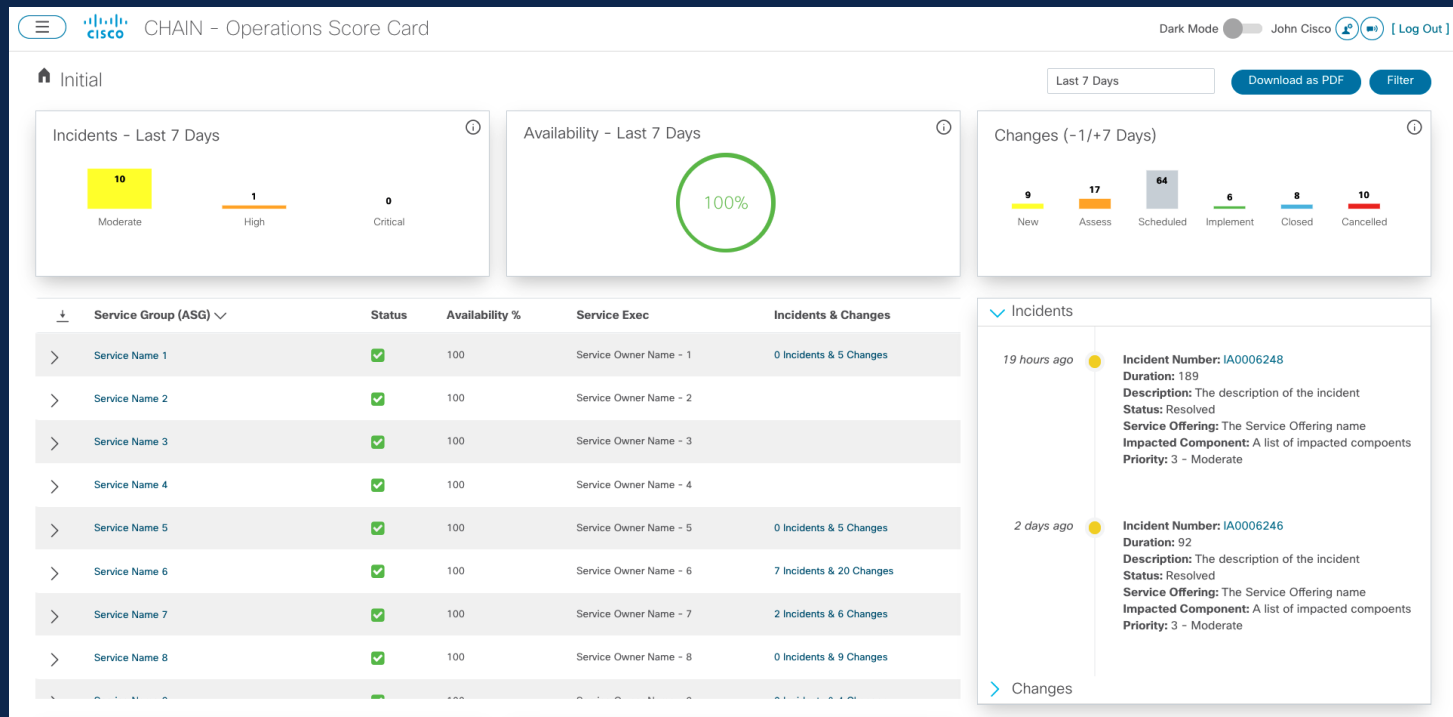
Improved Business **availability** from
99.982 → 99.9992



Demo



Real-time Availability Dashboard with Business Impact



Service Mgmt
/ Execs

CISCO *Live!*

Critical Events represented in the Topology View

The screenshot displays the ELVIS (Cisco Event Log Viewer) interface, powered by CHAIN. The top navigation bar includes the Cisco logo, the text "ELVIS Powered by CHAIN", and user information: "Dark Mode", "John Cisco", and a "[Log Out]" button. The main interface is divided into two panels. The left panel, titled "Events (9)", shows a list of events with columns for "Filter Events", "C3", "Server Name", "WEST1", and a timestamp. The right panel, titled "Upstream/Downstream", displays a topology view. In this view, a central node labeled "Server Nam..." is highlighted with a red circle. This node is connected to several other nodes, each labeled "serverName...". The connections are represented by lines radiating from the central node to the peripheral nodes.

Filter Events	C3	Server Name	WEST1	Timestamp
☆	●	C3 Server Name	WEST1	2022-06-17 15:21
☆	●	C3 Server Name	WEST1	2022-06-17 13:22
☆	●	C3 Server Name	WEST1	2022-06-17 11:21
☆	●	C3 Server Name	EAST1	2022-06-17 10:15
☆	●	C3 Server Name	WEST1	2022-06-17 08:15
☆	●	C3 Server Name	WEST1	2022-06-17 04:21
☆	●	C3 Server Name	WEST1	2022-06-16 10:41
☆	●	C3 Server Name	WEST1	2022-06-16 06:50
☆	●	C3 Server Name	WEST1	2022-06-15 11:46

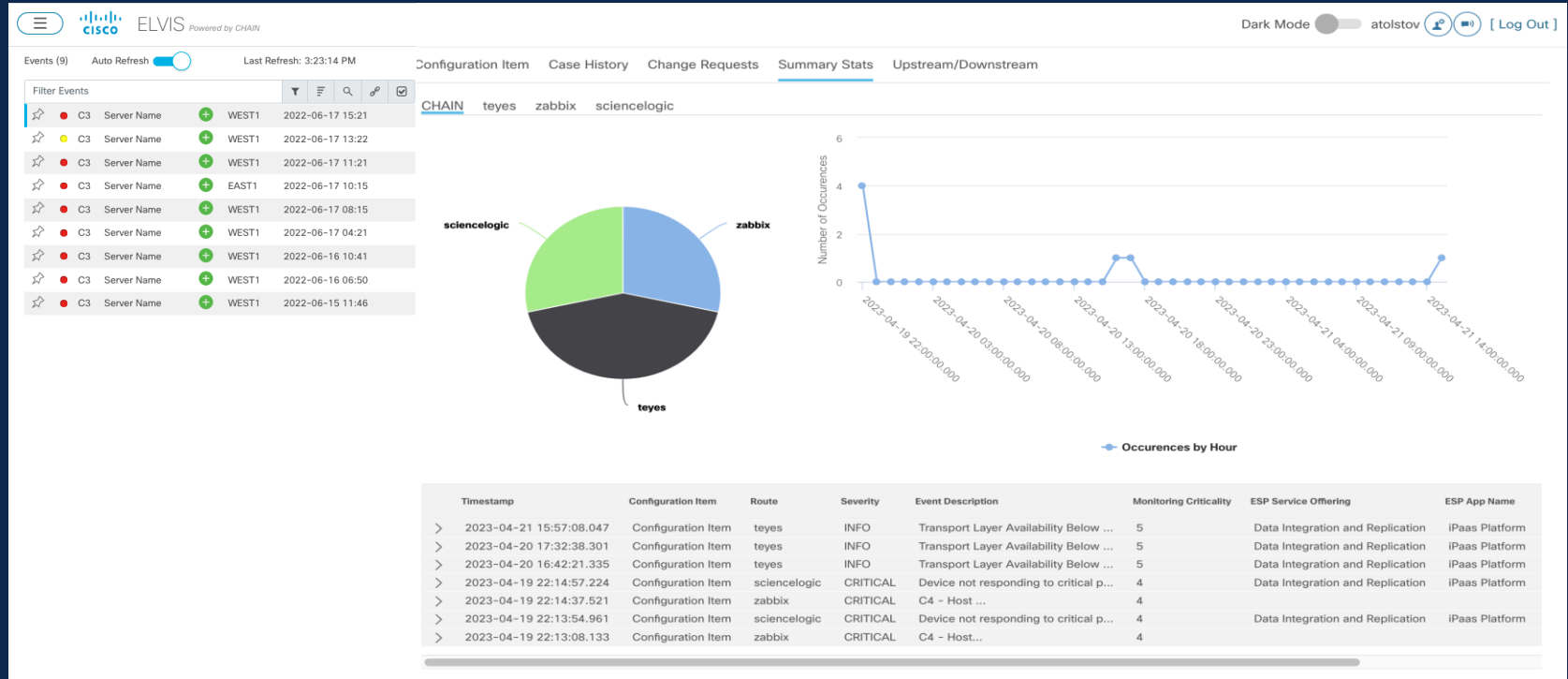


Domain
teams

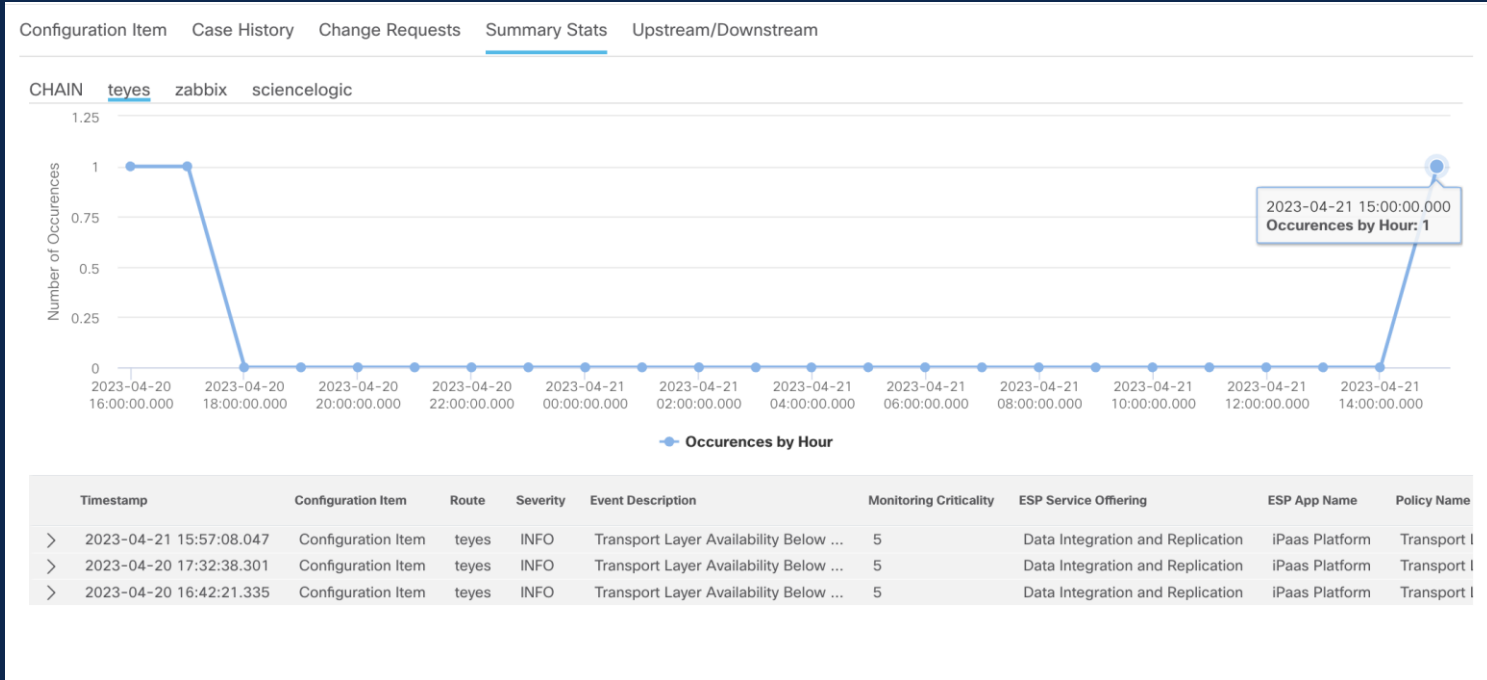


Command
Center

Summary view of correlated critical events



Summary Events drill down by source

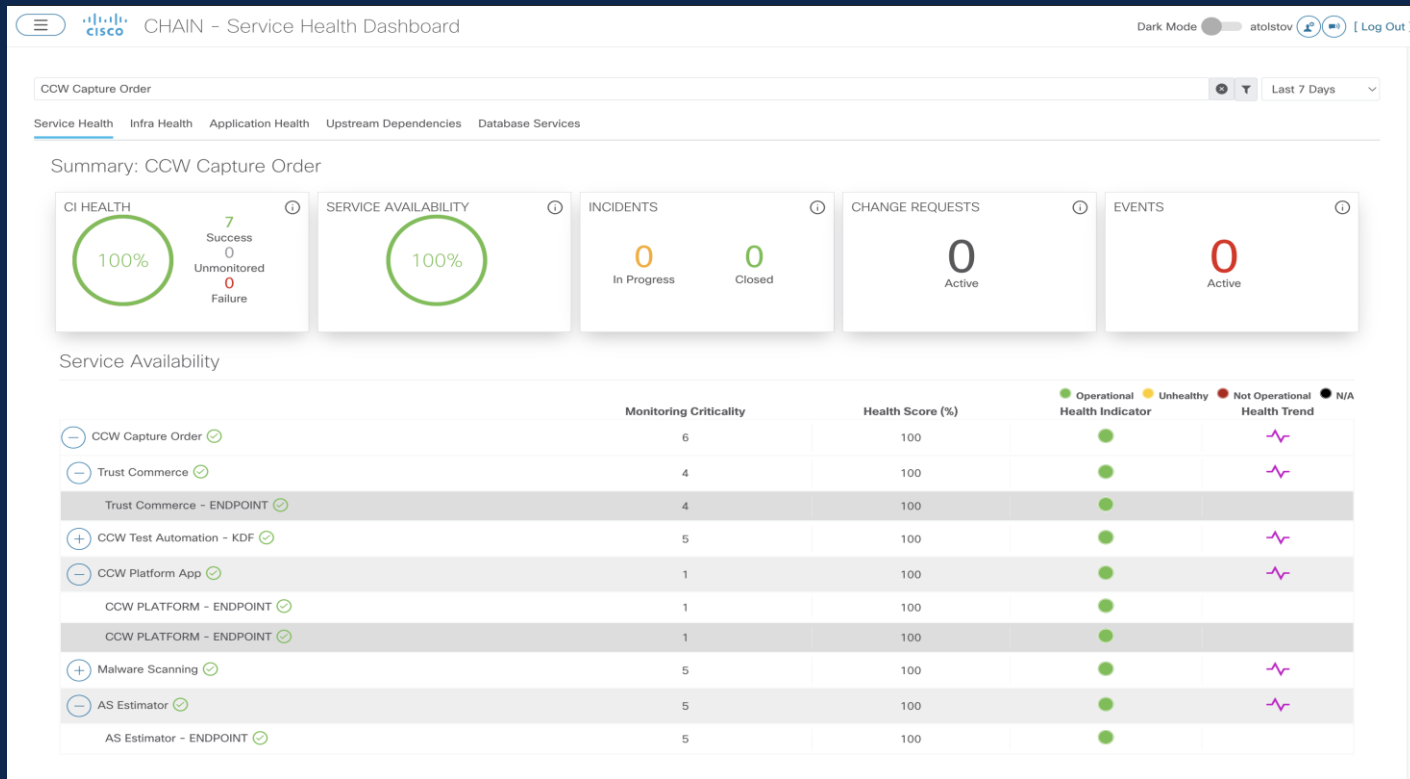


Domain
teams



Command
Center

Health Insights and Application and End point level



Domain
teams



DevOps

Fill out your session surveys!



Attendees who fill out a minimum of four session surveys and the overall event survey will get **Cisco Live-branded socks** (while supplies last)!



Attendees will also earn 100 points in the **Cisco Live Challenge** for every survey completed.



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



Continue your education

CISCO *Live!*

- Learn more about the Journey of migrating Cisco IT's AIOps solution to the Cisco FSO platform - [BRKAPP-2104](#)
- Learn more on How Cisco IT Uses AIOps as it Moves to [Full Stack Observability](#)
- 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

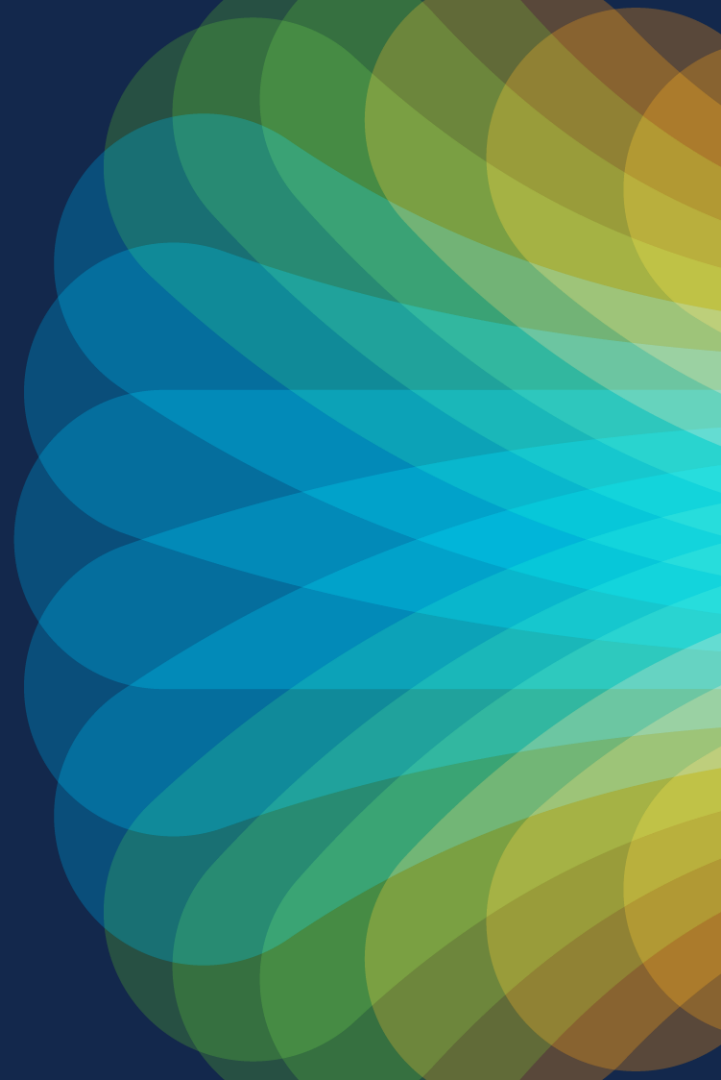


The bridge to possible

Thank you

CISCO *Live!*

#CiscoLive

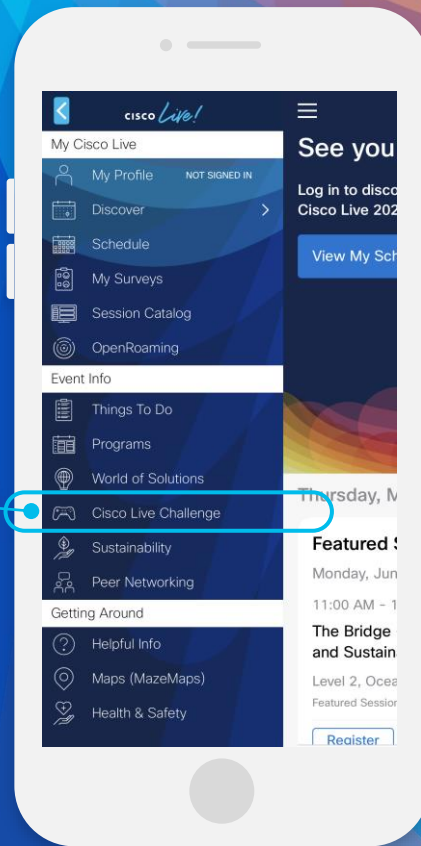
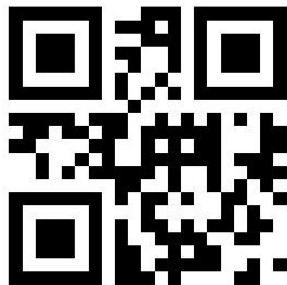


Cisco Live Challenge

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.

cisco *Live!*

Let's go

#CiscoLive