

AI-driven IT operations with Cisco Intersight

Subtitle placeholder

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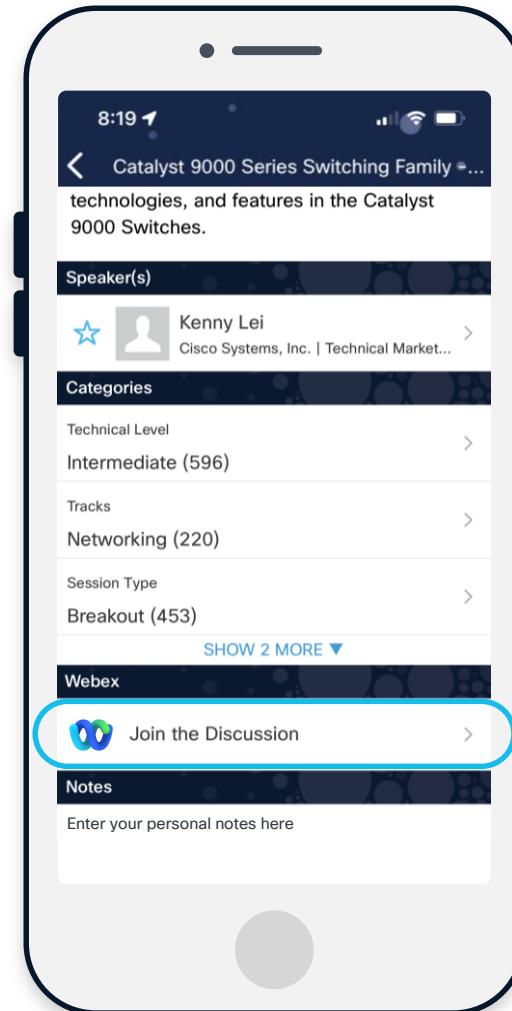
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Agenda

- 01 **The rise of AI in IT operations**
- 02 **AI-driven capabilities in Intersight**
- 03 **Looking Forward**
- 04 **Demo**

IT operations has become too complex for humans to keep up

258 days

Average time for security teams to identify and contain a data breach¹

\$380 billion

Global spend on edge computing market by 2028²

10x

The amount of power AI workloads can demand over traditional workloads³

90%

Percentage of organizations that will suffer a critical tech skills shortage by 2026

¹TechTarget, Jan 2025 | ²ComputerWeekly.com, March 2025 | ³Data Center Frontier, March 2025 | ⁴Computerworld, May 2024

A faint, out-of-focus background image of a stack of coins, possibly quarters, arranged in a pyramid shape.

for IT vendors

AI capabilities are table stakes

The foundation: unified operations and intelligence

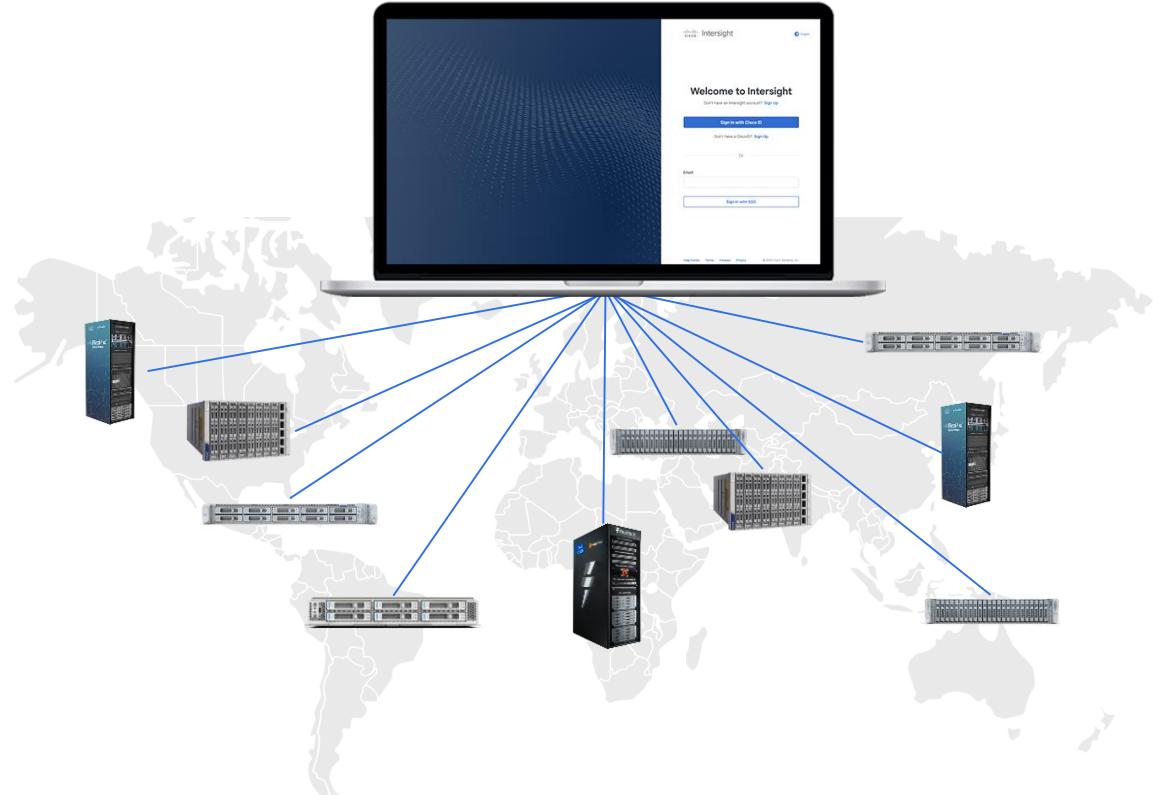


Unified operations

- SaaS-based platform
- Centralized operations and visibility

Unified intelligence

- Knows your infrastructure
- Collects telemetry/device data
- Contextual assistance tailored to your data center and edge infrastructure



Comprehensive infrastructure support



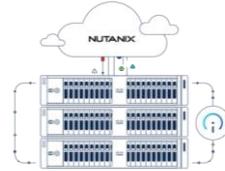
Cisco UCS

Configure, deploy, operate, and maintain C-Series and X-Series rack and blade servers, anytime and anywhere

● FlexPod  FlashStack

Cisco converged infrastructure with UCS X-Series

See converged infrastructure inventory and incorporate into orchestrated workflows



Cisco Compute Hyperconverged with Nutanix

See and control your entire hyperconverged infrastructure fleet in one place—spanning clusters globally



AI-ready infrastructure

Cisco AI Pods: Deploy, monitor, and support AI inferencing solutions on-premises and at the edge

Intersight provides the most comprehensive set of infrastructure management capabilities for any UCS server form factor and most generations in one place.

Other vendors either provide less functionality, cannot cover their full server suite, or require you to use multiple tools.

AI-driven capabilities in Intersight

Deliver predictive insights

HCL alerts, contract status

Predict potential failures

Enriched topology view with network bandwidth/utilization

Give contextual alerts, enhance security

Custom field notices, security advisories

Self-heal

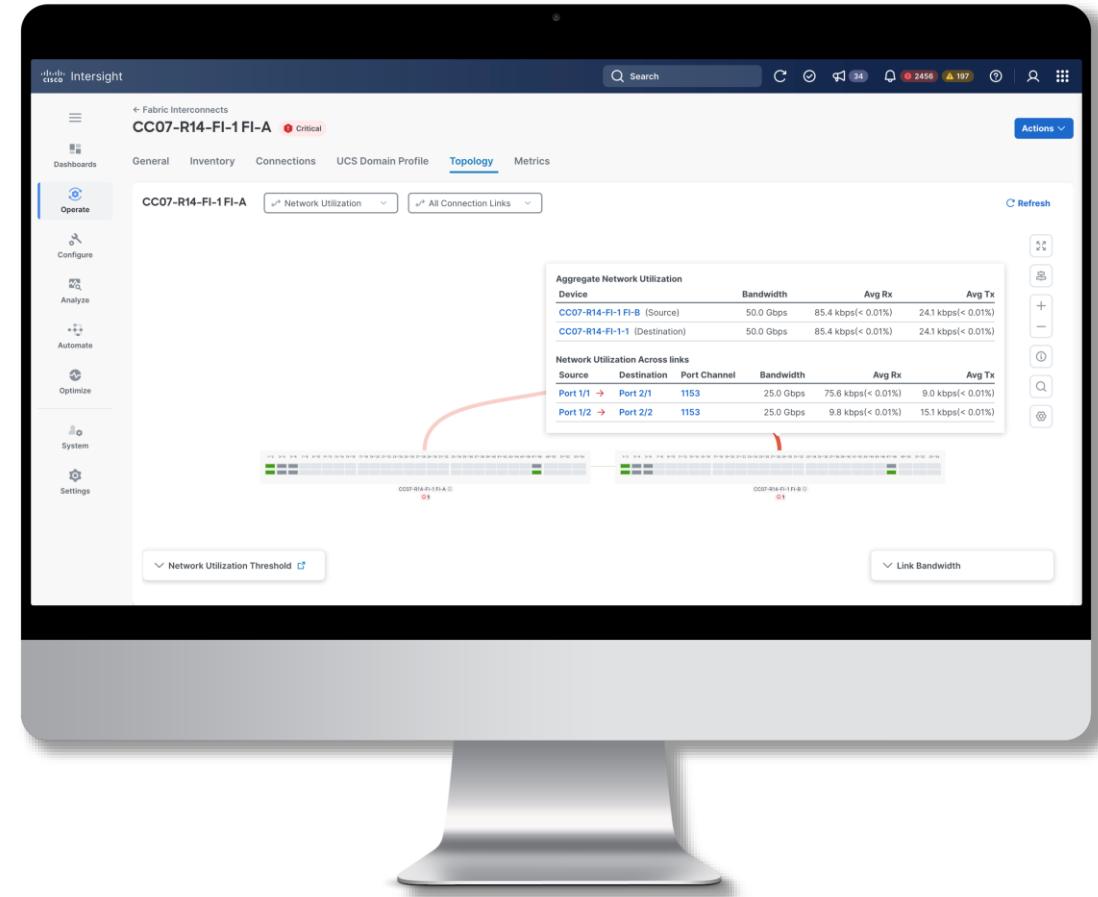
Proactive RMAs

Automate routine tasks

Automatic log collection, Connected TAC

Deliver real-time and historical metrics

Analyze performance, troubleshoot, forecast and budget



Cisco Intersight – Splunk integrations

Cisco Intersight Add-On for Splunk

Bring Intersight data into Splunk Enterprise/Splunk Cloud

Why Ingest Intersight Data into Splunk?

Enhanced Infrastructure Visibility

Combine Cisco Intersight's real-time infrastructure monitoring with Splunk Enterprise's log analytics and AI-driven insights.

Optimized IT Operations

Unify data from Compute and other platforms to gain a comprehensive understanding of IT operations, driving informed decision-making and improved mean time to resolution (MTTR).

Proactive Issue Detection

Leverage Splunk's predictive analytics to identify potential issues in Cisco Intersight-managed infrastructure, enabling proactive remediation.

Security and Compliance

Strengthen security posture by integrating Cisco Intersight's infrastructure insights with Splunk Enterprise's advanced threat detection and compliance monitoring.

*** The Only X86-Server integration available on Splunkbase

The screenshot shows the Splunk Enterprise interface with a search bar containing the query `index="intersight_demo" sourcetype="cisco:intersight:compute"`. The search results show 4,964 events from 1/31/25 2:30:00.000 AM to 2/1/25 3:04:45.000 AM. The interface includes tabs for Events (4,964), Patterns, Statistics, and Visualization. The Visualization tab is active, showing a timeline format with a green bar chart. Below the interface is a diagram comparing Cisco Intersight SaaS and Intersight Appliance integration with Splunk. The diagram shows two main sections: 'splunk> Cisco Intersight Add-On for Splunk' and 'Rest API'. The 'splunk>' section has three icons: 'inventory', 'alarms', and 'Audit rec'. The 'Rest API' section has two sub-sections: 'Intersight SaaS' and 'Intersight Appliance'. The 'Intersight SaaS' section shows a network diagram with 'SaaS simplicity' and 'Actionable Intelligence'. The 'Intersight Appliance' section shows a network diagram with 'Customer Environment' and 'Cisco Services'. Below these sections is a text box stating 'Cisco UCS Servers, Fabric Interconnects, Chassis' and 'IMM, UMM, ISM modes. SaaS, CVA/PVA form factors'.

Key features

01

UCS/Profiles Inventory

Alarms, Advisories, Audit

Alarms checkpointing to
avoid/minimize the duplicate events

02

OAuth token-based authentication

Token expiry notifications

05

Pre-built panels

[Server Profile Status](#)

Profile Name, Assigned Server, State, and reason for Failed State.

[Server Alert status](#)

Dashboard panel that shows servers with active Alarms and the count of each Alarm severity

[Unused Server Slots](#)

Dashboard panel that shows the number of unused server-slots of X-series Chassis per UCS domain

[Metrics Panels](#)

- CRC Errors
- Correctable ECC errors
- Uncorrectable ECC errors

Looking Forward: AI assisted Operations

Less firefighting, more strategic work!

Unlock smarter, faster operations with AI-powered insights



Smart Suppression

Automatically detect actions and suggests suppressing alarms, streamlining workflows.



Correlation and Clustering of Alarms

Reduce alarm noise and accelerate troubleshooting by intelligently clustering correlated alarms.



Intersight Assisted Operations

Enables faster, data-driven decisions by filtering noise and spotlighting critical issues. It speeds up root cause analysis, predicts outages, and reduces manual effort through automation.



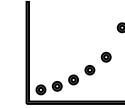
Enriched Topology with Timeline of Events and Anomaly Detection

Enable customers to view (and replay) the historical topology view, overlaying major events that affect the physical devices.



Sustainability Insights

Correlate server workload utilization with power consumption to provide actionable power saving insights.



Predictive Forecasting

Proactively prevent issues with forecast-based alarms.

Looking Forward: Intersight AI Assistant

What you are telling us



Data center executives

Balance cost and value by leveraging GenAI-native and hybrid approaches to improve business outcomes like employee productivity and customer satisfaction

Unlock CX and efficiency gains by investing in the latest GenAI technology, driving better business outcomes.

Invest in vendors with **re-usable conversational AI capabilities** that can support multiple future use cases.



Infrastructure and operations managers

Cisco authorized help tool to access **latest reliable documentation** and provide contextual assistance tailored to our Infrastructure environment

Access to Infrastructure Health check summaries and subsequent remediation, while automating my team's **repetitive tasks** around building workflows

Dialogue management capabilities to facilitate Natural Language Understanding (NLU) and leverage Cisco CVDs to build Smart solutions on our Infrastructure using **Natural Language queries**

Use cases

of Intersight's GenAI-powered AI Assistant

Security insights & recommendations

Monitor contract status
and renew contract

Guided configuration based on
customer infrastructure

Ingest documentation and community
knowledge on Cisco websites

Health check summary and
subsequent remediation

Track lifecycle of TAC cases

Contextual assistance tailored to
user's environment

Demo

Intersight

← Fabric Interconnects **dd4t1 FI-A** Critical

General Inventory Connections UCS Domain Profile Topology Metrics

Operate

Health Critical

Name **dd4t1 FI-A**

Peer Switch **dd4t1 FI-B**

User Label -

UCS Domain Profile **dd4t1-dp**

UCS Domain Profile Status OK

Model **UCS-FI-64108**

Serial **FDO23360Y9J**

Management IP **10.193.205.81**

Mode **Intersight**

Bundle Version -

NX-OS Version **9.3(5)i43(4a.149)**

Contract Coverage -

Details

Properties

Cisco UCS-FI-64108 Front Rear

Locator LED Off Health Overlay

Mode **Access**

Ethernet Switching Mode **end-host** IP Address **10.193.205.81**

FC Switching Mode **end-host** Subnet Mask **255.255.255.0**

Admin Evacuation Mode **Disabled** Default Gateway **10.193.205.254**

Operational Evacuation M... **MAC** **00:3A:9C:A5:9C:90**

VLAN Details **FC Zone Count**

VLAN Port Limit **108000** FC Zone Limit -

Access VLAN Port Count **22** FC User Zone Limit -

Border VLAN Port Count **352** FC Zone Count -

Compressed Optimization... **3** FC User Zone Count -

Compressed VLAN Port ... -

Events

Alarms 3 Critical 7 Warning 4 Info

Active **Acknowledged**

Severity All

EtherPortLinkDown Feb 27, 2025 11:25 PM
Port dd4t1/switch-A/slot-1/ethport-68 is link-down due to Link failure or not-connected

EtherPortLinkDown Feb 27, 2025 10:43 PM
Port dd4t1/switch-A/slot-1/ethport-17 is link-down due to Link failure or not-connected

EtherPortLinkDown Feb 13, 2025 7:58 PM
Port dd4t1/switch-A/slot-1/ethport-103 is link-down due to Link failure or not-connected

EtherPortLinkDown Feb 13, 2025 7:58 PM
Port dd4t1/switch-A/slot-1/ethport-65 is link-down due to Link failure or not-connected

EtherPortLinkDown Feb 13, 2025 7:58 PM
Port dd4t1/switch-A/slot-1/ethport-66 is link-down due to Link failure or not-connected

EtherPortLinkDown -

AI Assistant

AI Assistant

I found details about the fabric interconnects in San Jose. Below is a summary of the fabric interconnects, including their models, serial numbers, total Ethernet ports, available ports, and the number of chassis currently used.

Name	Model	Serial	Total Ethernet Ports	Available Ports	Used Chassis Count
dd4t1 FI-A	UCS-FI-64108	FDO23360Y9J	108	76	1
dd4t1 FI-B	UCS-FI-64108	FDO23250C3H	108	79	1
hh19 FI-B	UCS-FI-6454	FDO21301Y3Z	50	32	1
hh19 FI-A	UCS-FI-6454	FDO21301Y22	46	28	1

Conclusion

Based on the available ports and current usage, the domain **dd4t1** with fabric interconnects **FI-A** and **FI-B** is recommended for adding a new chassis in San Jose. This domain has the highest number of available ports, ensuring sufficient capacity for the new addition.

Ask the AI Assistant a question

[View User Guide](#) to learn more.

Search



33



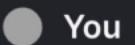
10039



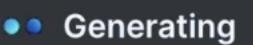
363



AI Assistant



You
How do I view server metrics?



Generating

ry

C | ...

Series

• B 55
• X 28
• C 21

04

Total

17

Standalone

87

Managed

d

Status Summary

C | ...



55

Incomplete



2

Validated



2

Not Evaluat...

Takeaways



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Live customer panel featuring executives from Dakota State University and Groq. Don't miss it!

KDDDCN-1001*

Wednesday, June 11 | 2:30 – 3:30pm
Upper Level, Ballroom 20 BC
San Diego Convention Center



Tom Gillis
SVP and General Manager
Infrastructure & Security
Cisco



*Eight lucky attendees will win an Apple Watch. Must be present to win!

Thank you

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