Simplify Data Center Network Operations

with the New Nexus Dashboard

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PSODCN-1123

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

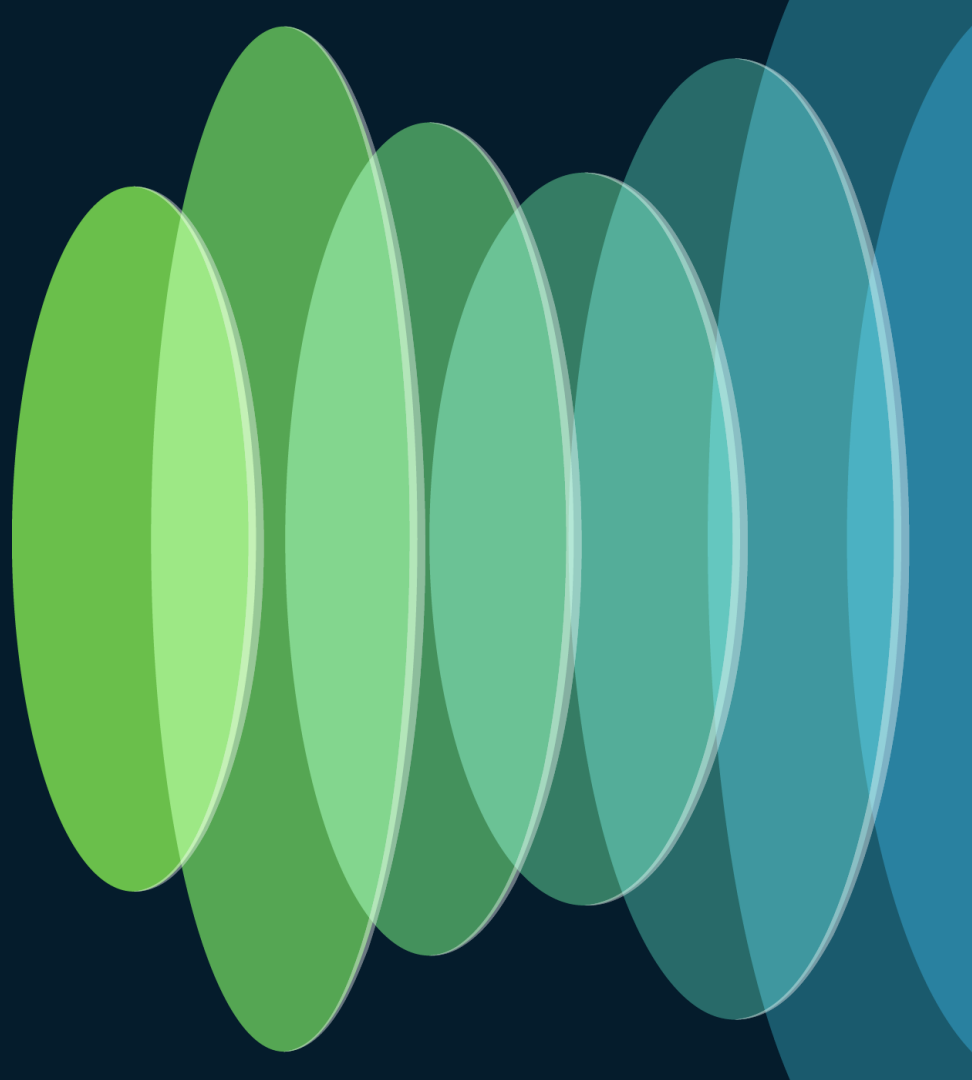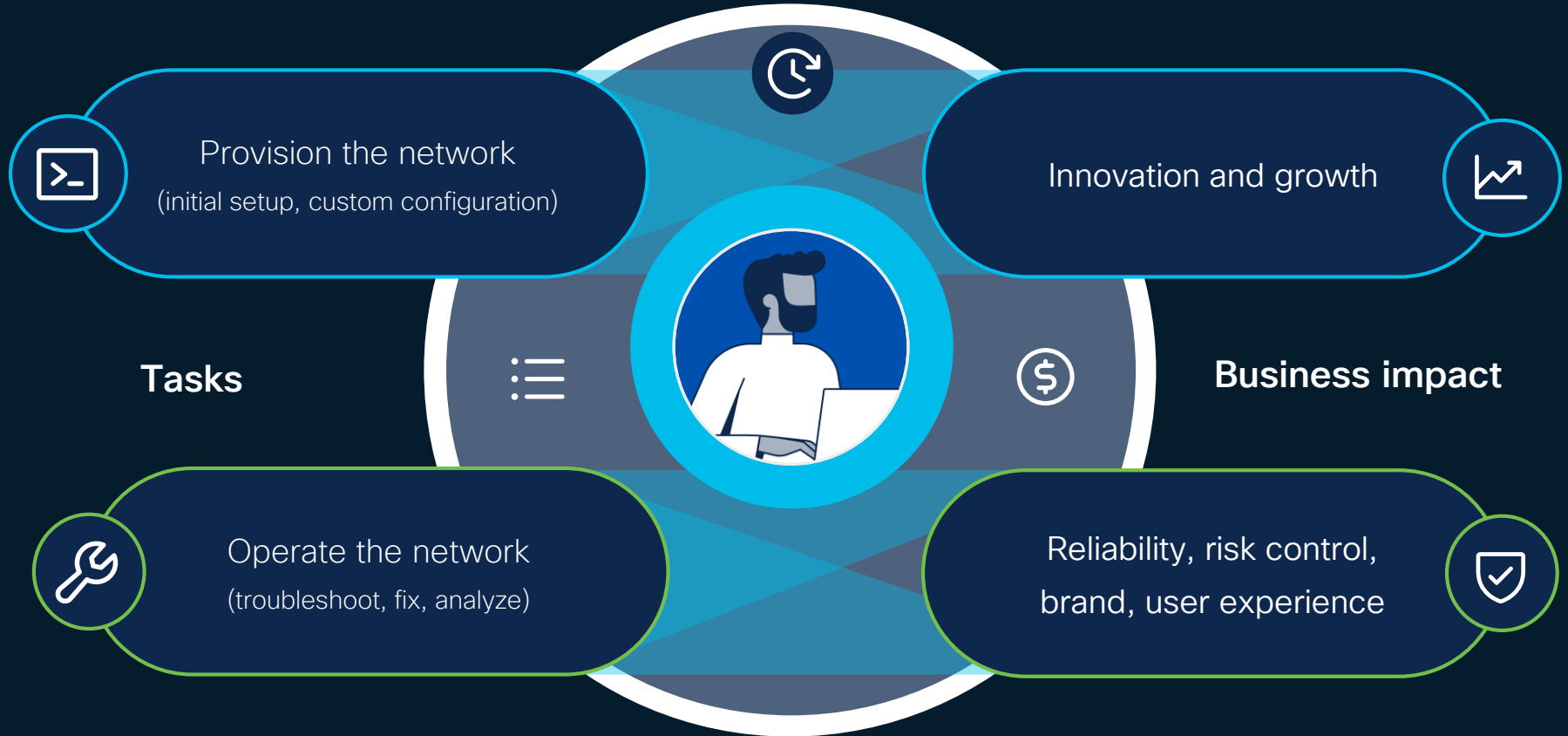Webex spaces will be moderated
by the speaker until June 7, 2024.

CISCO *Live!*

Agenda

- The challenge
- The solution
- Use-cases
- Automate & Manage
- Analyze & Troubleshoot
- Conclusion

The challenge

Life of a [data center] network admin
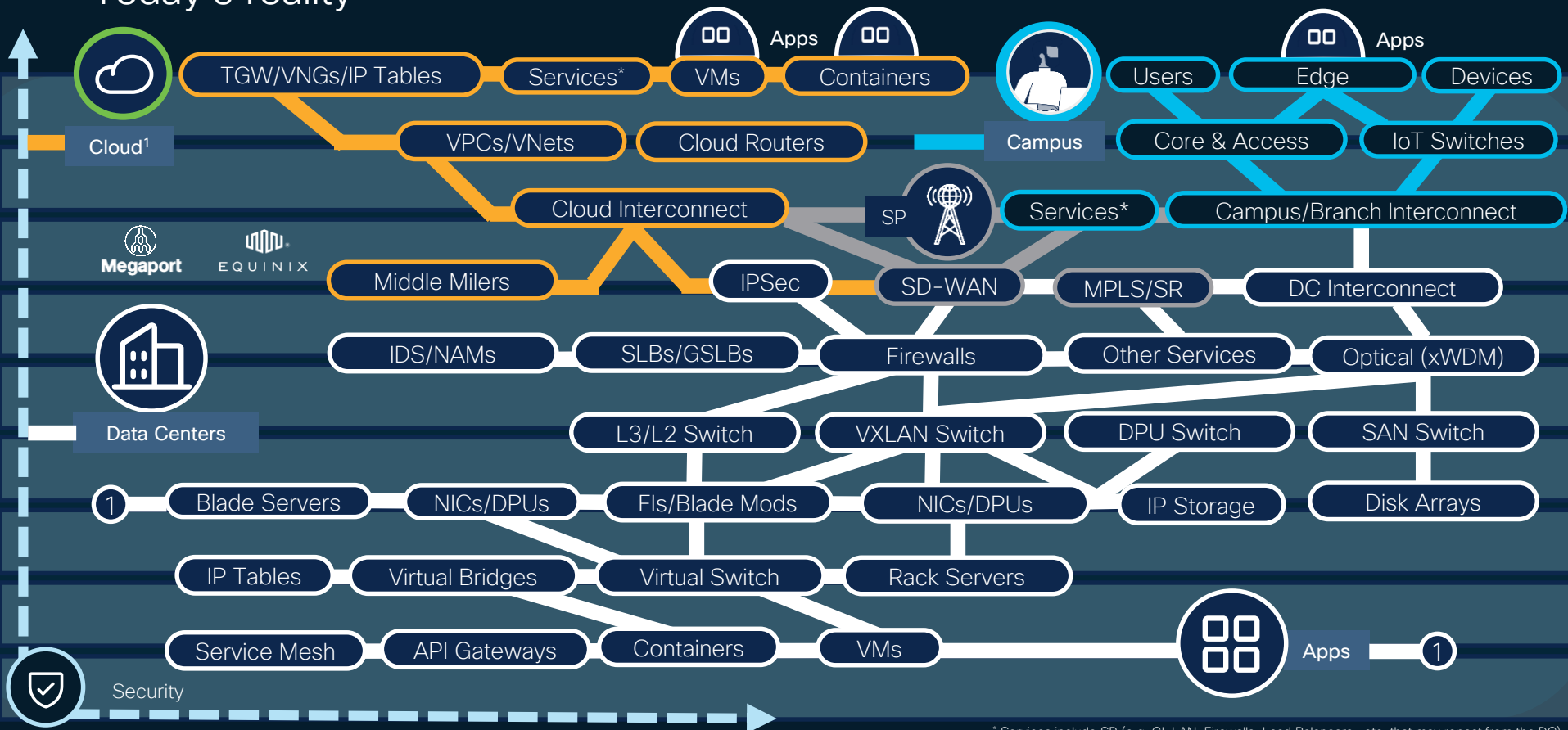
Provision the network
(initial setup, custom configuration)

Innovation and growth

Tasks

Business impact

Operate the network
(troubleshoot, fix, analyze)

Reliability, risk control, brand, user experience

Communication between users/devices and apps
Perception

Communication between users/devices and apps

Today's reality

Cloud[1]

TGW/VNGs/IP Tables — Services* — Apps — VMs — Containers

VPCs/VNets — Cloud Routers

Cloud Interconnect

Campus

Apps — Users — Edge — Devices

Core & Access — IoT Switches

SP

Services* — Campus/Branch Interconnect

Megaport   EQUINIX

Middle Milers — IPSec — SD-WAN — MPLS/SR — DC Interconnect

IDS/NAMs — SLBs/GSLBs — Firewalls — Other Services — Optical (xWDM)

Data Centers

L3/L2 Switch — VXLAN Switch — DPU Switch — SAN Switch

1 — Blade Servers — NICs/DPUs — FIs/Blade Mods — NICs/DPUs — IP Storage — Disk Arrays

IP Tables — Virtual Bridges — Virtual Switch — Rack Servers

Service Mesh — API Gateways — Containers — VMs — Apps — 1

Security

* Services include SP (e.g. GI-LAN, Firewalls, Load Balancers , etc. that may repeat from the DC)

The solution

Key design principles for **Data Center**

Design Principles

- Platform experience
- One Fabric Experience
- AI-native infrastructure

Cisco | Ecosystem
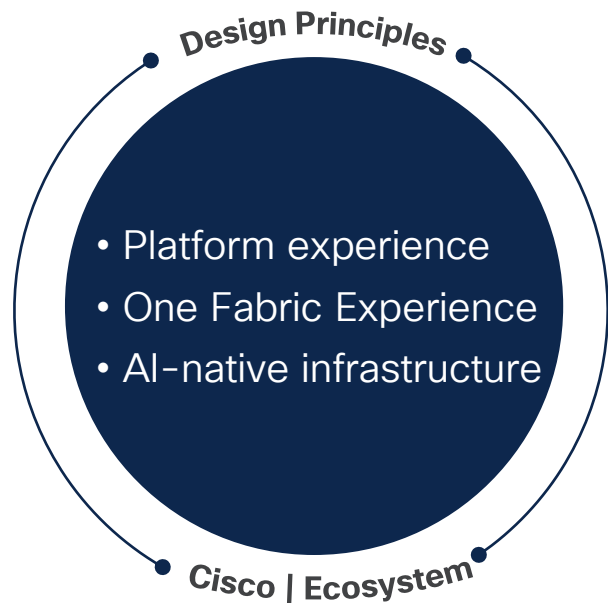
Digital Experience Assurance

Simplified, AI-Native Operations

End-to-End Secure Networking

Cisco Data Center Networking evolution
Toward simplification and unification

2014   2021   2024

Nexus Dashboard
Insights

Nexus Dashboard
Orchestrator

Nexus Dashboard
Fabric Controller
LAN/SAN

Unified
Nexus Dashboard

2-way
integration
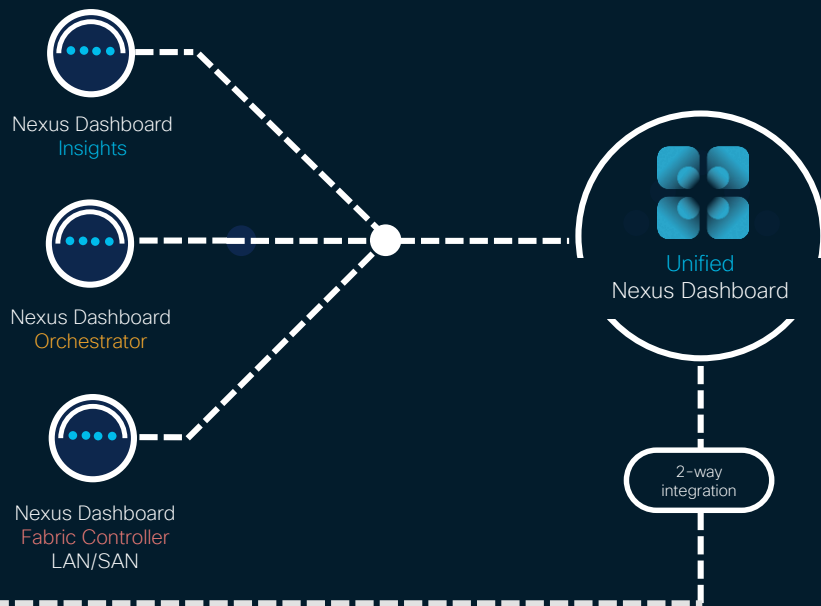
ACI

The new Cisco Nexus Dashboard
Simple, intuitive, powered by Cisco AI

Your key to a simple operational experience

Unify data center network architectures

Accelerate business innovation, minimize risk

Unleash the power of AI for networking

Reactive, proactive and predictive insights

Provision
Once, deploy anywhere

Built-In automation | Infra-as-code

Secure
One source of truth

Segmentation | Zero-Trust
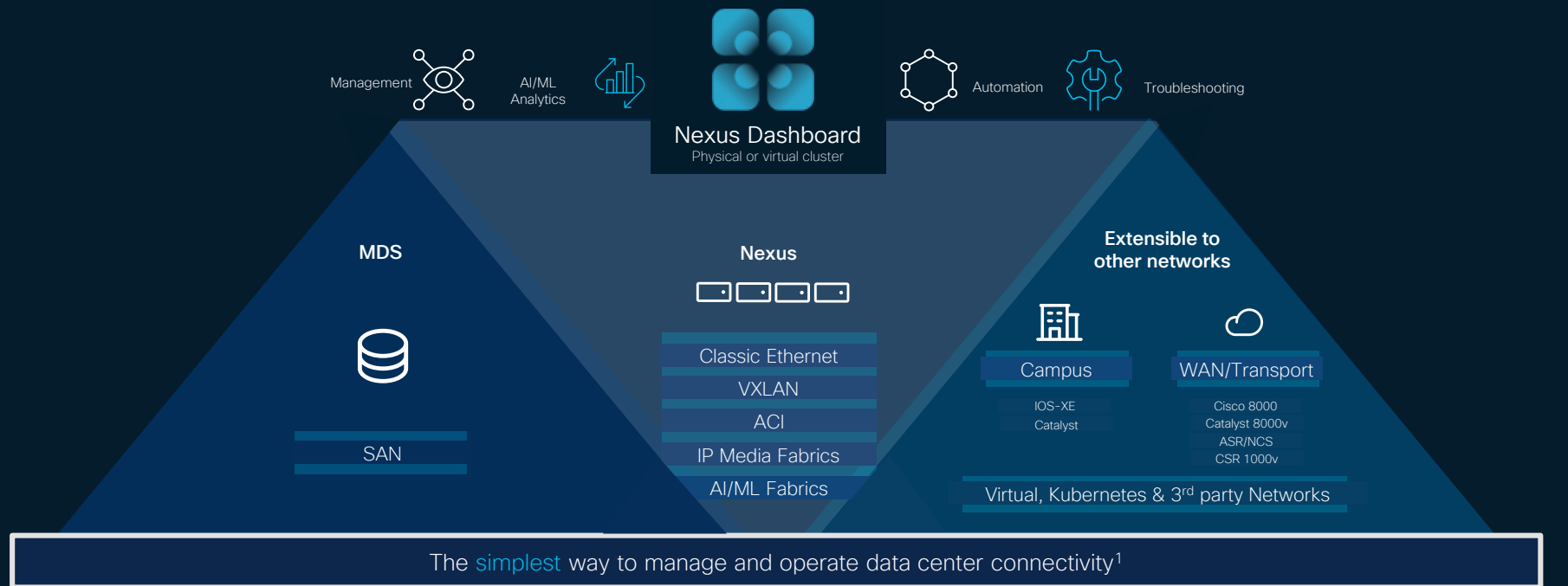
Manage
One logical network

Visibility | Maintenance

Analyze
Identify, troubleshoot, and fix faster

Tools | Reports | Prediction

Unify your operational experience

Management   AI/ML Analytics

Nexus Dashboard
Physical or virtual cluster

Automation   Troubleshooting

MDS

SAN

Nexus

Classic Ethernet
VXLAN
ACI
IP Media Fabrics
AI/ML Fabrics

Extensible to other networks

Campus
IOS-XE
Catalyst

WAN/Transport
Cisco 8000
Catalyst 8000v
ASR/NCS
CSR 1000v

Virtual, Kubernetes & 3rd party Networks

The simplest way to manage and operate data center connectivity[1]

[1] Capabilities may vary by switch model

[2] Applies to Nexus Dashboard Virtual Appliance.
Nexus Dashboard physical appliance or cloud instance cost is not included

Included with every Nexus switch license [2]

Cisco Nexus Dashboard – Platform

Grows with your business
1, 3, & 6 physical or virtual cluster options

Automated deployment
Up and running in just a few minutes

Plug-and-play telemetry[1]
Collection via Inband/Out-of-band networks

Multi-cluster support
Multiple ND clusters managed as one
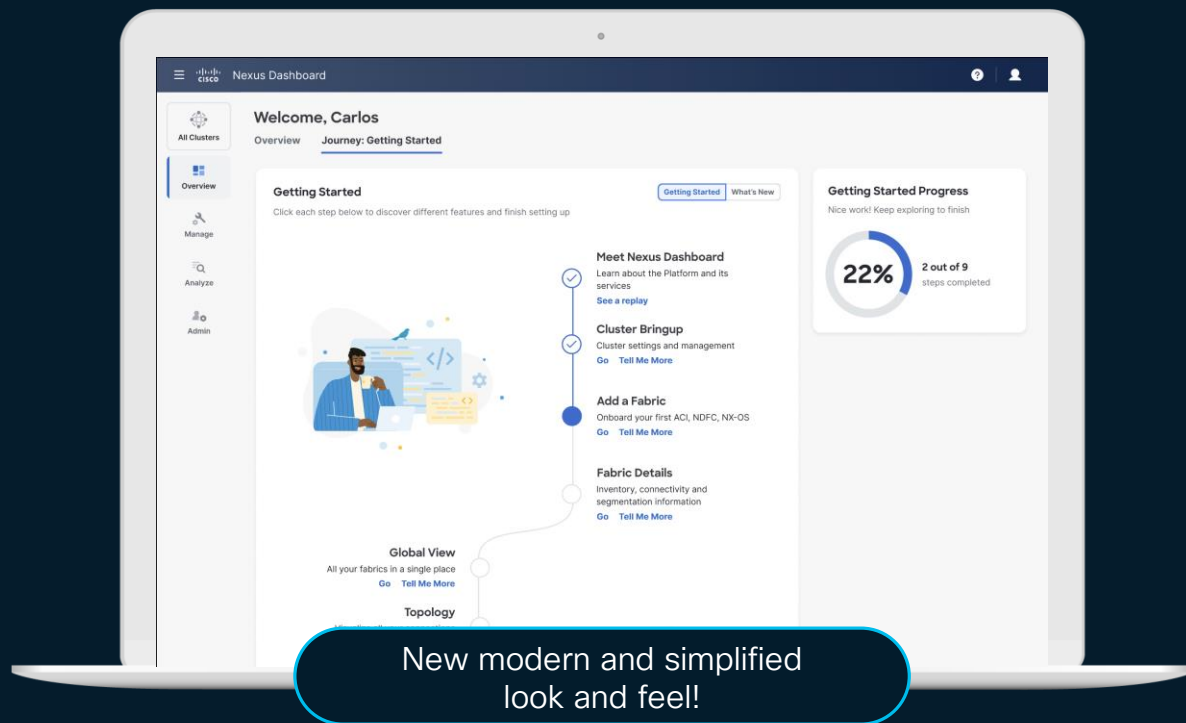
New modern and simplified
look and feel!

*UI displayed above available from Nexus Dashboard 4.0
[1] Out-of-band management telemetry support available for NX-OS from ND 3.2 and ACI from 4.0

Use-cases
Features are included based on purchased Nexus switch license level

Nexus Dashboard

Troubleshoot

Analyze

Automate & Manage

Use-cases

Features are included based on purchased Nexus switch license level

Nexus Dashboard

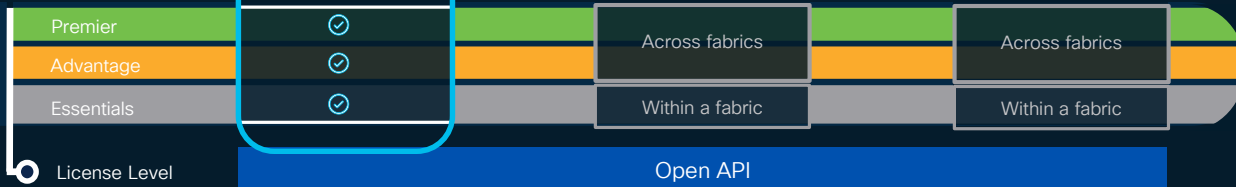**Troubleshoot**

Analyze

Automate & Manage

Onboard
Discover, manage, & replace fabrics, switches, devices/integrations

Automate
ACI, VXLAN, AI/ML, Ethernet, IPFM & SAN fabrics with a few clicks

Reduce risk
Configure & secure once, deploy anywhere consistently

Open API

Use-cases
Features are included based on purchased Nexus switch license level

Nexus Dashboard

Troubleshoot

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Reduce risk
Configure & secure once, deploy anywhere consistently

		Onboard	Automate	Reduce risk
Premier		✓	Across fabrics	Across fabrics
Advantage		✓		
Essentials		✓	Within a fabric	Within a fabric
License Level		Open API		

Use-cases
Features are included based on purchased Nexus switch license level

Nexus Dashboard

Troubleshoot

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Essentials	✓	Within a fabric	Within a fabric

License Level

Open API

Cisco Nexus Dashboard – Manage
Discover, manage, replace → Faster

Onboard

Discover and scale
data–center
networks
automatically
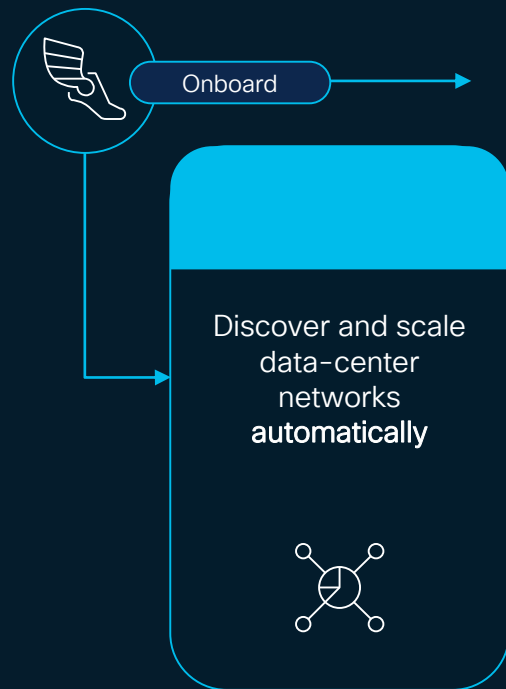
1   Connect a new switch to your network.

2   It will automatically show up in the controller.

3   Register it with 3 clicks
Assign a name, role, and switch ID
Configuration will be bound to the switch ID.

Need to replace a switch?

Assign the same switch ID as the previous switch or apply a Power-on Auto-Provisioning (PoAP) template.

The configuration will be automatically loaded.

Cisco Nexus Dashboard – Manage
Onboarding

Discover new switches
Onboard new & existing in minutes

Cisco NX-OS and other OSs
IOS-XE, XR and 3rd party

Cisco ACI® fabrics
Managed through APIC, 2-way integration[1]

New or existing fabrics
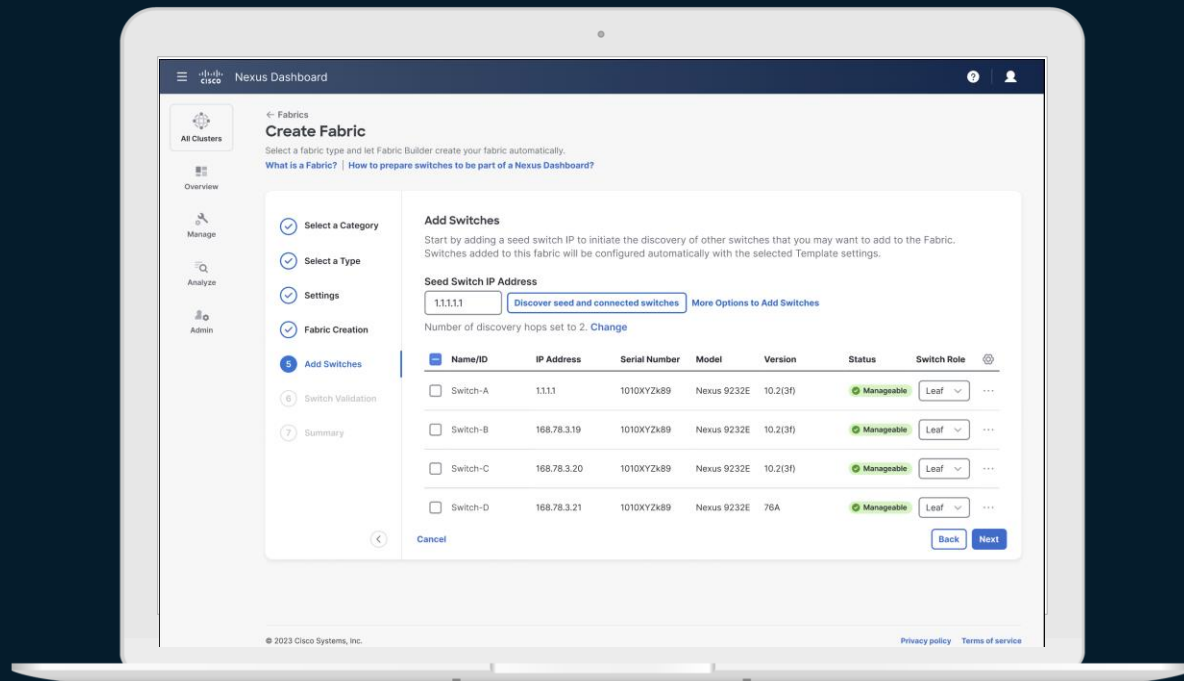
[1] ACI Controller two-way integration to Nexus Dashboard Option in roadmap
[2] Nexus Dashboard UI displayed above available on versions 4.0 and later
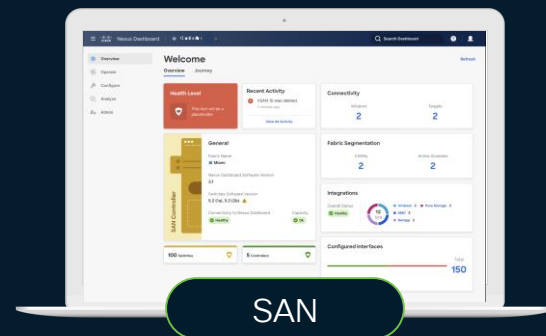
Cisco Nexus Dashboard - Fabric Types

LAN
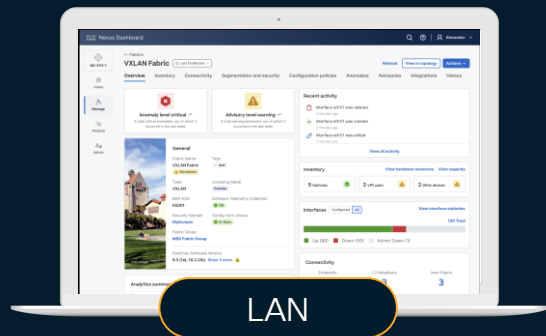
Classic, VXLAN, AI/ML, Routed, IP Fabric for Media, and more

Nexus® 9000, Cisco Catalyst® 9000, IOS-XR and others[2]

Cisco ACI®[1]

APIC* required
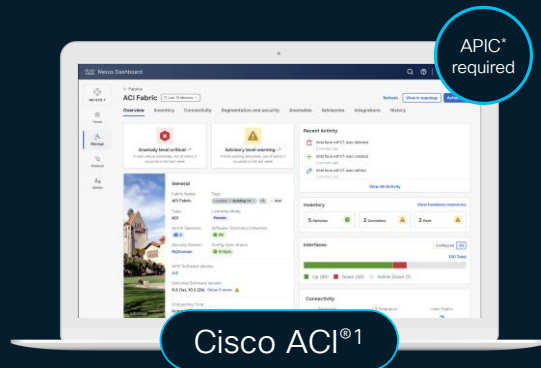
VXLAN network with policy-oriented model

Nexus 9000

SAN

FibreChannel, iSCSI and FICON support for storage networks

Cisco MDS 9000

Simple and modern UX*

Open APIs
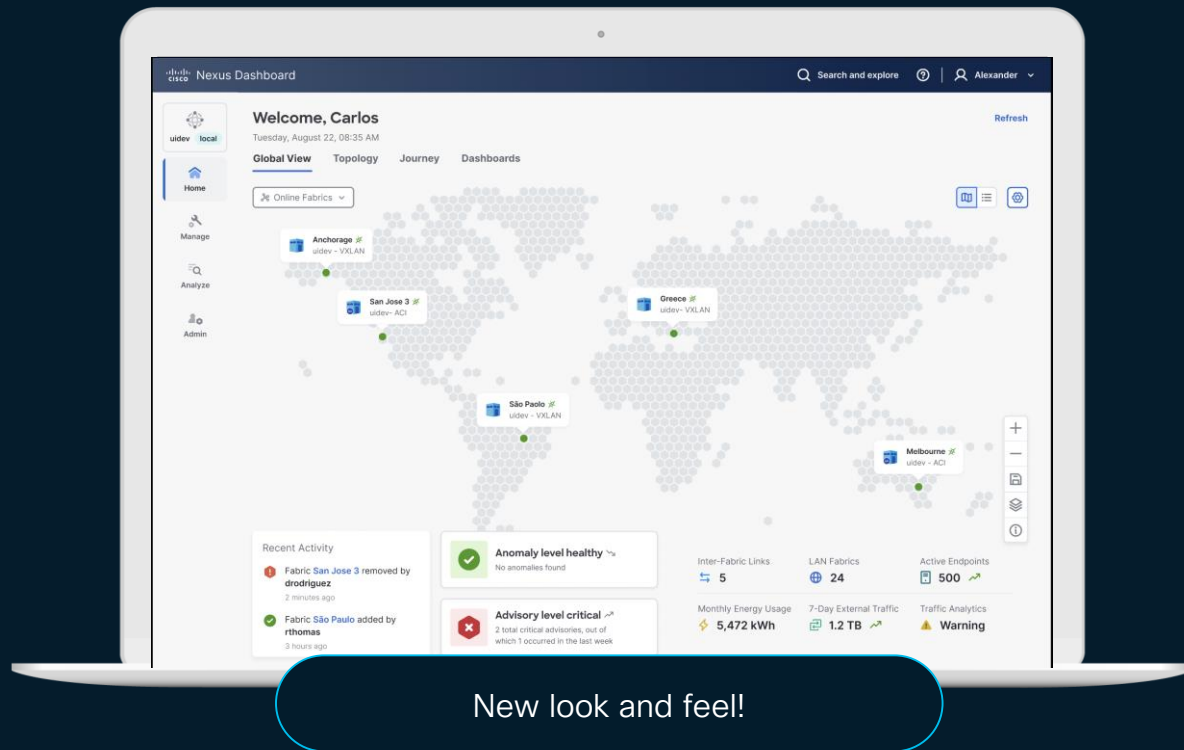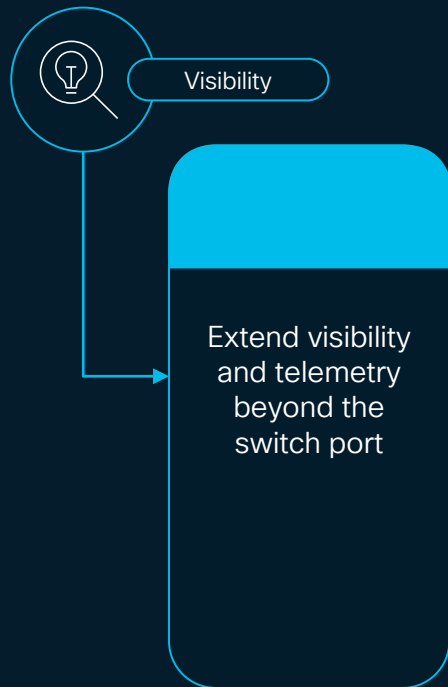with Ansible, Terraform

Operate multiple switches
as one logical unit

* New UX for ACI starting in 6.1.1

[1] Future 2-way integration for ACI Controller (APIC) and Cisco Nexus Dashboard

[2] Support for other Cisco IOS XR and third-party platforms

Cisco Nexus Dashboard – Manage
A single place to manage your data center networks

Visibility

Extend visibility and telemetry beyond the switch port

New look and feel!

Cisco Nexus Dashboard – Manage
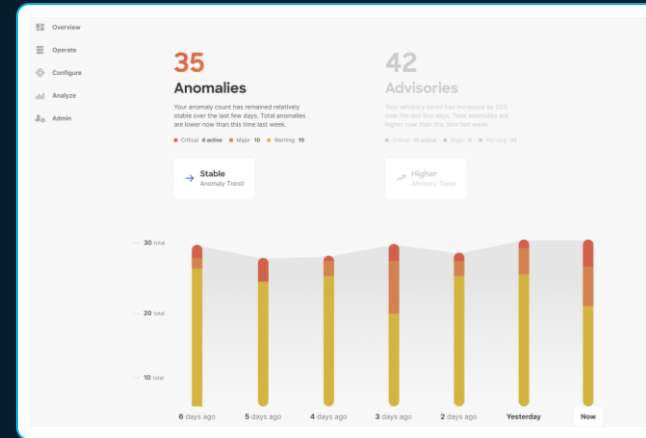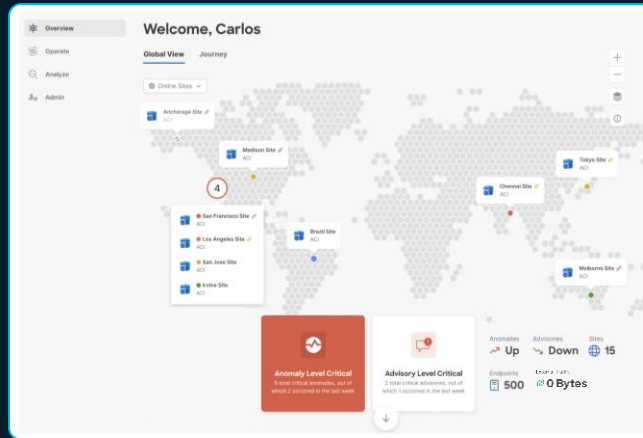A single place to manage your data center networks

Visibility

Manage
Global view

View and access all your fabrics from a single place
Learn about anomalies and advisories in your network
Observe trends, traffic stats, and inventory
Zoom in from global map to a fabric, switch, interface, and VM/endpoint
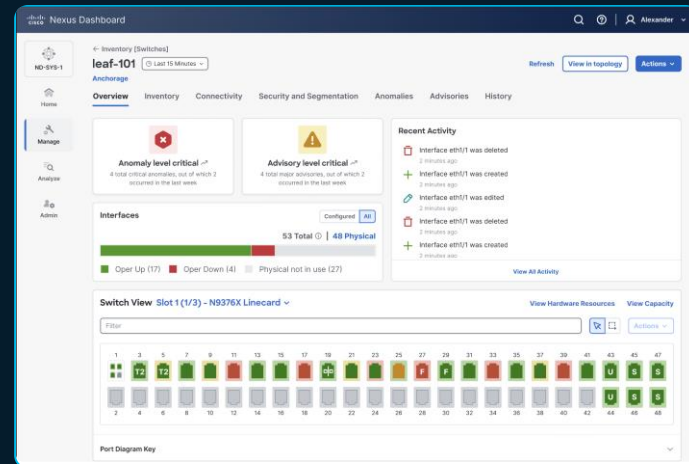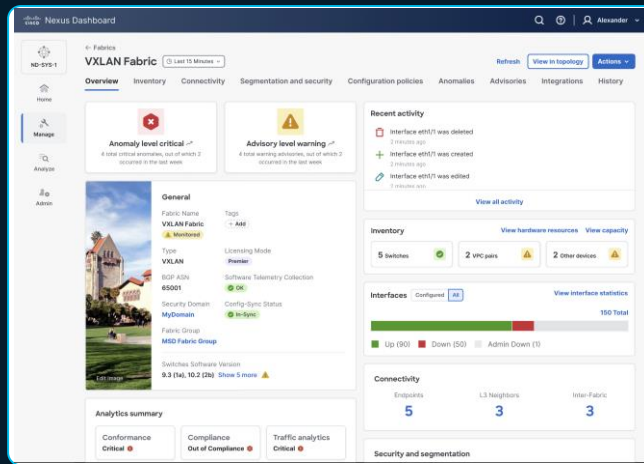
Cisco Nexus Dashboard – Manage
A single place to manage your data center networks

Visibility

Manage
Fabrics

Easily onboard Cisco NX-OS[1], ACI, Catalyst, IOS-XR and 3rd party fabrics
Telemetry is streamed to Cisco Nexus® Dashboard.
Inventory, anomalies, and advisories displayed within minutes
Site snapshots option for NX-OS/ACI sites that can't connect initially

Support for standalone NX-OS switches from ND 3.1

Cisco Nexus Dashboard – Manage

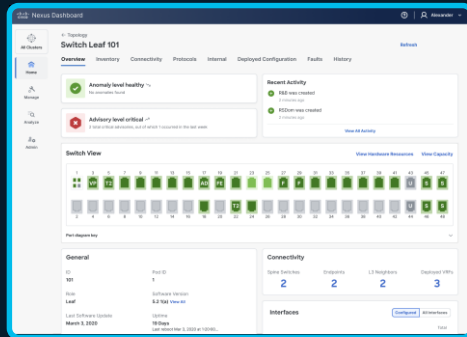A single place to manage your data center networks

Visibility
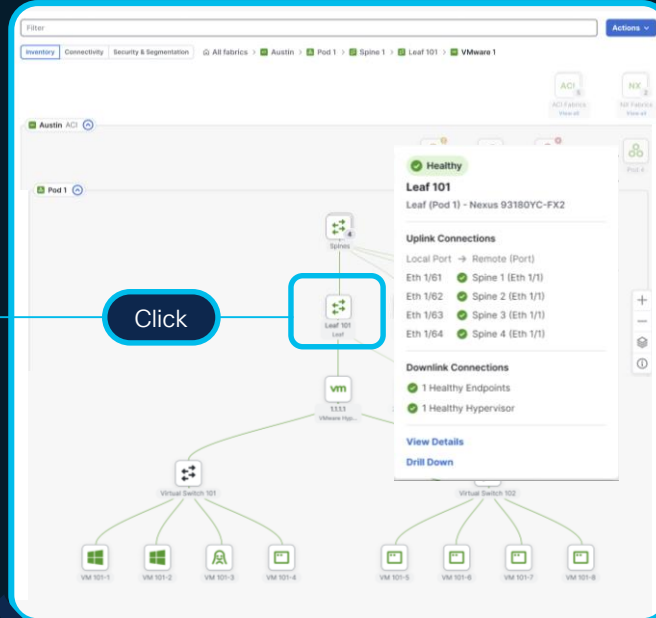
Manage
Topology

Have always-updated topology diagrams
Get embedded health-scores and site/switch details
Be provided with connecting interface(s) information
Drill down or search for specific IPs, switches, and interfaces

Click

[1] New topology available from Cisco Nexus® Dashboard 3.2

Cisco Nexus Dashboard – Manage

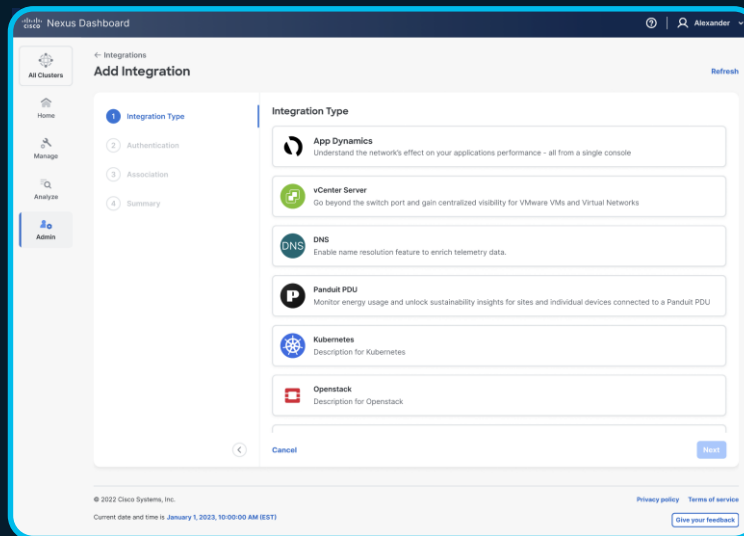A single place to manage your data center networks

Visibility

Manage
Integrations

Visibility beyond the data center switch port
Virtual Machines: VMware
Containers: Kubernetes Platforms
Sustainability: Panduit PDUs
Others: DNS, Infoblox IPAM, AppDynamics, Splunk

Use-cases

Features are included based on purchased Nexus switch license level

Nexus Dashboard

Troubleshoot

Analyze

Automate & Manage

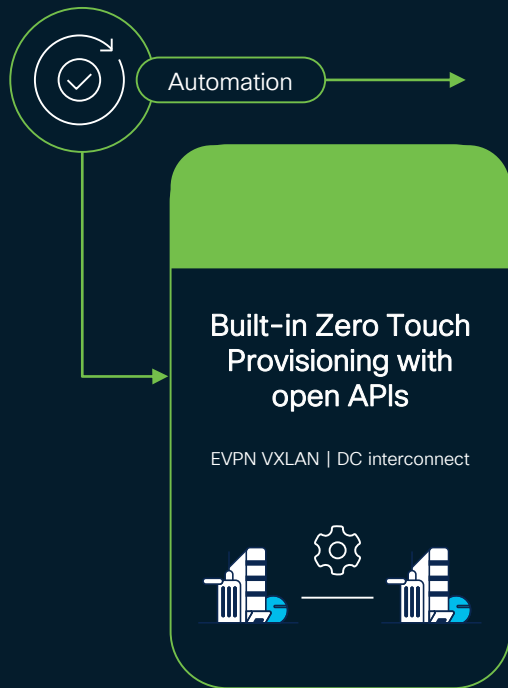|	Onboard Discover, manage, & replace fabrics, switches, devices/integrations	Automate VXLAN, ACI, AI/ML, Ethernet, IPFM & SAN fabrics with a few clicks	Reduce risk Configure & secure once, deploy anywhere consistently
Premier	✓	Across fabrics	Across fabrics
Advantage	✓		
Essentials	✓	Within a fabric	Within a fabric
License Level	Open API		

Cisco Nexus Dashboard – Automate
Leverage the power of automation

Automation

Built-in Zero Touch Provisioning with open APIs

EVPN VXLAN | DC interconnect

1 Nexus Dashboard can fully automate AI/ML, ACI, Ethernet settings or VXLAN on your fabric (including underlay and overlay).

2 With VXLAN, VM mobility is enabled anywhere within your fabric with no spanning tree and using equal-cost multipathing.

3 Extend VXLAN beyond the data center for DR, migration, and active/active deployments

Need to automate further?

Leverage templates and REST APIs or your favorite Infrastructure-as-Code tools (such as Terraform and Ansible)

Cisco Nexus Dashboard – Automate
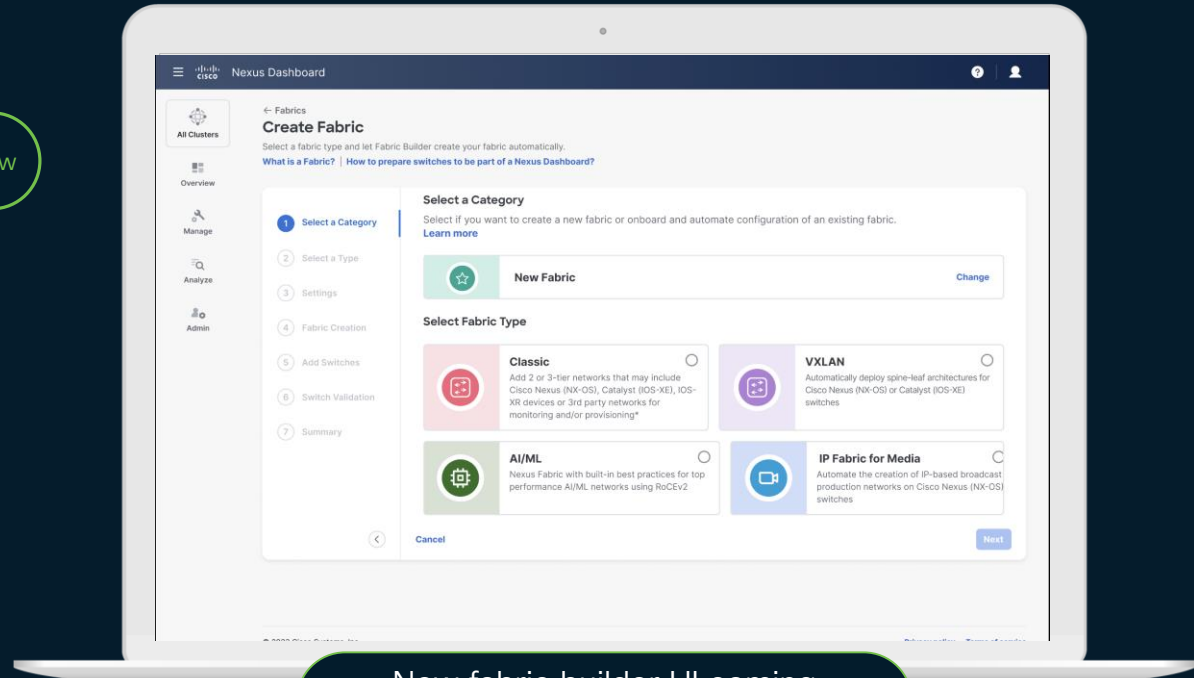## New and existing network deployments

Simple and modern UX

New

Just takes a few clicks
Fully automated following best practices

Multiple fabric types
AI/ML, ACI, Classic Ethernet, VXLAN, etc

Open APIs and ecosystem
Ansible, Terraform

≡ ᴵᴵᴵᴵᴵ Nexus Dashboard   ⓘ 👤
   CISCO

All Clusters   ← Fabrics
                    Create Fabric
                    Select a fabric type and let Fabric Builder create your fabric automatically.
Overview   **What is a Fabric? | How to prepare switches to be part of a Nexus Dashboard?**

Manage   ① Select a Category   **Select a Category**
                                              Select if you want to create a new fabric or onboard and automate configuration of an existing fabric.
                    ② Select a Type   Learn more
Analyze
                    ③ Settings   ⭐ **New Fabric**   Change
Admin
                    ④ Fabric Creation   **Select Fabric Type**

                    ⑤ Add Switches   🔲 **Classic**   ○   🔲 **VXLAN**   ○
                                                 Add 2 or 3-tier networks that may include   Automatically deploy spine-leaf architectures for
                    ⑥ Switch Validation   Cisco Nexus (NX-OS), Catalyst (IOS-XE), IOS-   Cisco Nexus (NX-OS) or Catalyst (IOS-XE)
                                                 XR devices or 3rd party networks for   switches
                    ⑦ Summary   monitoring and/or provisioning*

                                              ⚙ **AI/ML**   ○   📹 **IP Fabric for Media**   ○
                                                 Nexus Fabric with built-in best practices for top   Automate the creation of IP-based broadcast
                                                 performance AI/ML networks using RoCEv2   production networks on Cisco Nexus (NX-OS)
                                                                                               switches

                    ‹   Cancel   Next

**New fabric builder UI coming
in ND 4.0!**

[1] Expected for Nexus Dashboard 4.0 (Q4CY24-Q1CY25)

Use-cases
Features are included based on purchased Nexus switch license level

Nexus Dashboard

Troubleshoot

Analyze

Automate & Manage

Onboard
Discover, manage, & replace fabrics, switches, devices/integrations

Automate
Create VXLAN, AI/ML, Ethernet, IPFM & SAN fabrics with a few clicks
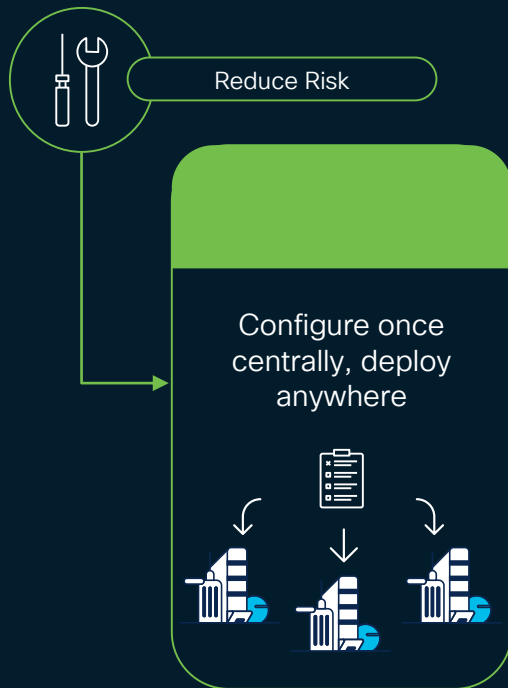
Reduce risk
Configure & secure once, deploy anywhere consistently

License Level	Onboard	Automate	Reduce risk
Premier	✓	Across fabrics	Across fabrics
Advantage	✓		
Essentials	✓	Within a fabric	Within a fabric
License Level	Open API		

Use-cases

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License Level

Open API

Cisco Nexus Dashboard – Automate
New and existing network deployments

Reduce Risk

Configure once centrally, deploy anywhere

1. Configure your network and/or security policies once.

2. Select the switches and interfaces in your fabric where you'd like to deploy such configuration.

3. After deployment, all your switches in your fabric will have consistent configurations reducing human errors.

Have multiple sites or fabrics?

Centralize your network and security configurations with versioning control to ensure consistency anywhere.

Cisco Nexus Dashboard – Automate
Network automation for all fabric types
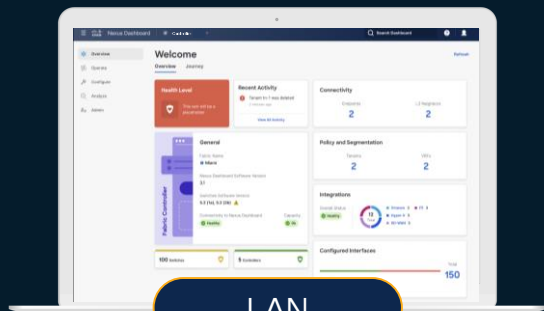
LAN

Nexus Dashboard configures networks once and security policies[2], then deploy anywhere through policies and templates

Consistent configurations on physical networks visibility on virtual and container networks

Cisco ACI®[1]

Requires APIC Cluster
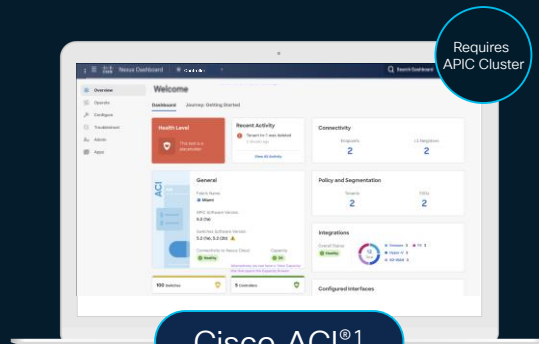
APIC and/or Nexus Dashboard configures networks & security policies once, deploy anywhere

Consistent configurations and visibility on physical, virtual, and container networks
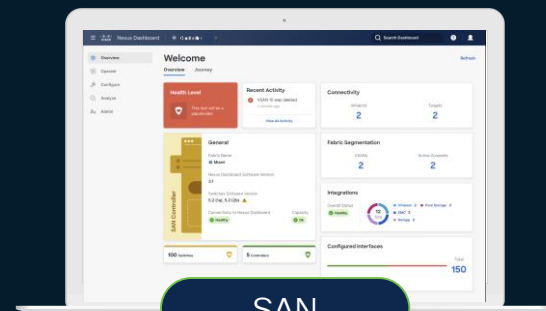
SAN

Nexus Dashboard configures zoning/services once per fabric and replicates to the rest

Consistent configurations on SAN fabrics visibility extended to initiators and targets (VMs/storage)

[1] Future 2-way integration between ACI Controller (APIC) and Cisco Nexus® Dashboard
[2] VXLAN Security Groups available from ND 3.1

Cisco Nexus Dashboard – Automate
Switch and Interface configuration

Simplified Workflow Assistant

New

L2 and L3 interfaces

Answer a few questions or provision via policies/templates

Open APIs and ecosystem Ansible, Terraform
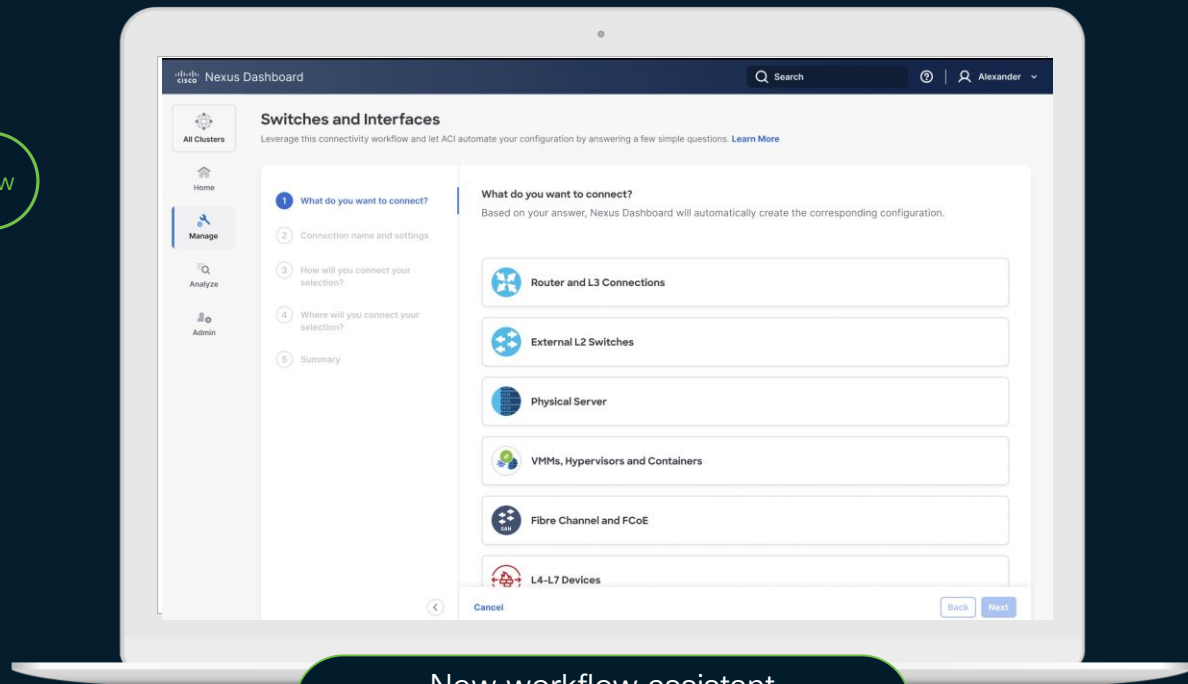
New workflow assistant available soon![1]

[1] New workflow assistant available from Nexus Dashboard 4.0 will also be available on ACI in a future release
Not all use-cases may be covered initially
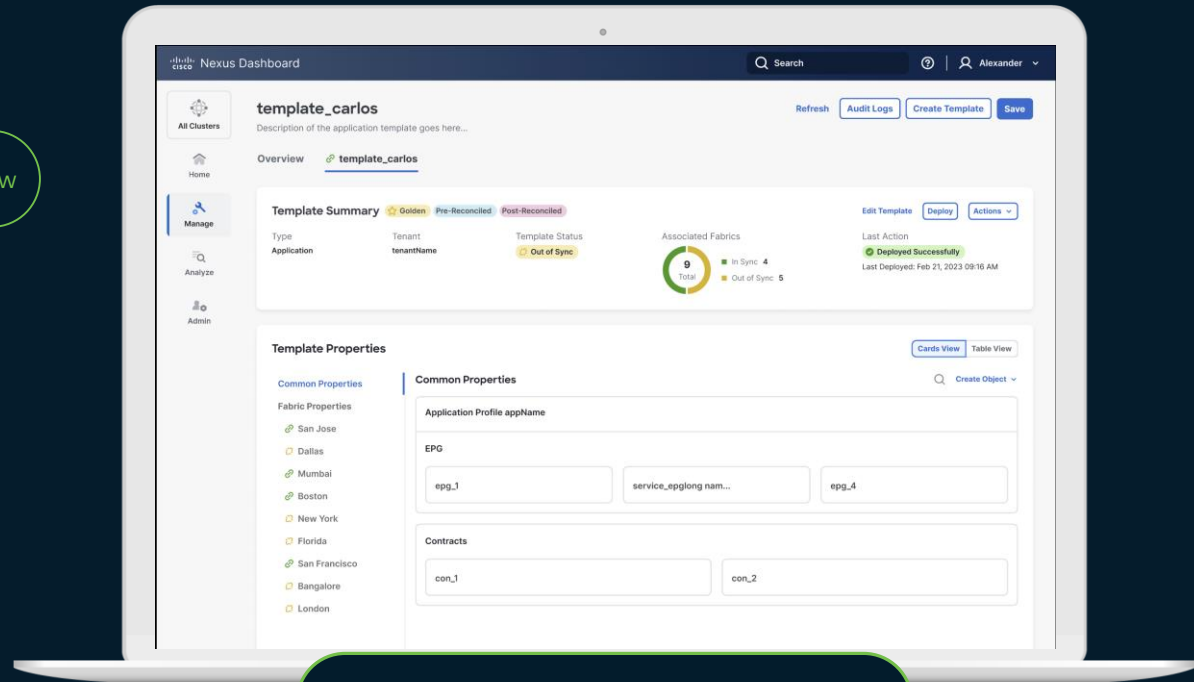
Cisco Nexus Dashboard – Automate
Fabric Interconnect

Simplified Workflow Assistant

New

Interconnect fabrics with a few clicks

Support for Cisco ACI®, NX-OS and Campus networks

Open APIs and ecosystem Ansible, Terraform

New workflow assistant available soon![1]

Cisco Nexus Dashboard – Automate
Templates & Orchestration

Simple and modern UX

New

Cisco ACI® & NX-OS fabrics

Network & Policy templates

Versioning and change control

New templates look and feel!

Use-cases
Features are included based on purchased Nexus switch license level

Nexus Dashboard

Troubleshoot

Analyze

Automate & Manage

Custom Dashboards and Reports

Identify issues
Anomalies & Advisories
Pre-change analysis
Historical information

Traffic analytics
Latency, congestion,
drops, flows
Real-time statistics

Sustainability
kW/h, cost,
CO_2 emissions

Compliance
Configuration and
communication rules

CAM Analysis
Top rules/contracts
consuming resources

Conformance
HW/SW End of Support
Scale

Open API

Use-cases

Features are included based on purchased Nexus switch license level

Nexus Dashboard

Troubleshoot

Analyze

Automate & Manage

Custom Dashboards and Reports

Identify issues
Anomalies & Advisories
Pre-change analysis
Historical information

Traffic analytics
Latency, congestion,
drops, flows
Real-time statistics

Sustainability
kW/h, cost,
CO_2 emissions

Premier

Advantage

Essentials

+ All anomalies
+ All advisories
+ Pre-change analysis
+ Routing table diffs
+Historical information

+ Panduit integration
support

Switch/interface down
anomalies only
Sev-1 PSIRT advisories

License Level

Open API

Cisco Nexus Dashboard – Analyze

Leverage the power of telemetry and analytics

Analytics

Simplify network operations with AIOps

Proactively detect, correlate and resolve issues through anomaly detection to minimize downtime.

Learn about best-practices, field notifications, and PSIRTs affecting your network through advisories.

Make a difference by knowing your network's CO_2 emissions, associated costs, and kWh consumption.

Reduce finger-pointing.

Traffic analytics automatically discover services and flow records running in your network based on L4 ports reporting congestion, latency, and drops

Cisco Nexus Dashboard – Analyze

Leverage the power of telemetry and analytics

Analytics

Analyze
Anomalies

Detect potential issues that may impact uptime
Know what is wrong, the impact of anomalies, and how to fix them
Toggle between grouped and ungrouped views
Link to online sites and snapshot view options with historical information
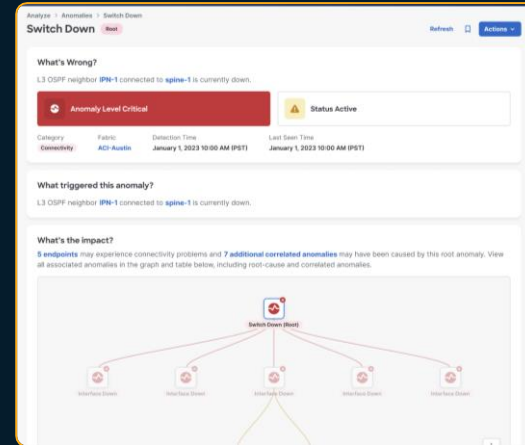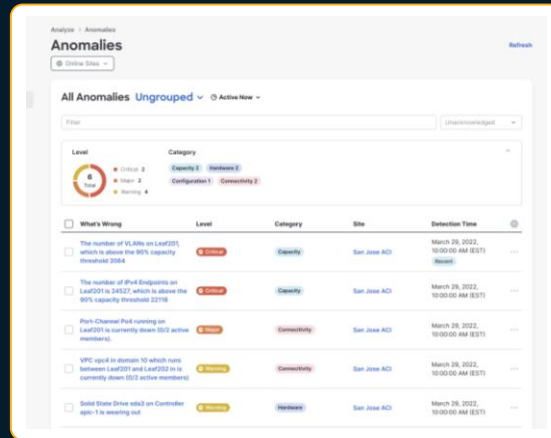
Cisco Nexus Dashboard – Analyze
Leverage the power of telemetry and analytics

Analytics

Analyze
Advisories

Avoid wasting time finding release notes, and reduce risk

Get instant software and hardware End-of-Life (EoL) notifications

Receive PSIRTs and field notices affecting your environment

Get Cisco best-practice recommendations based on your configuration
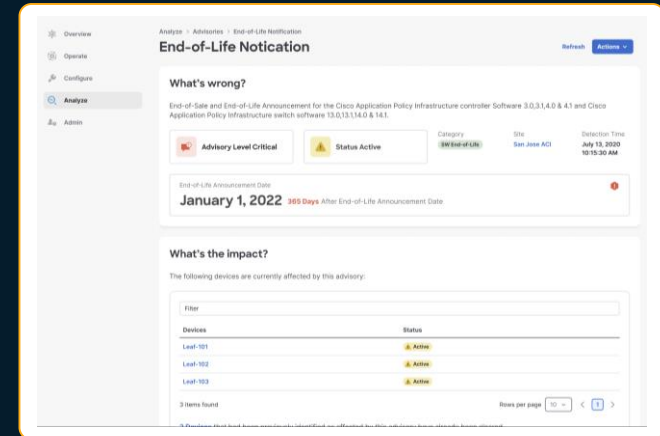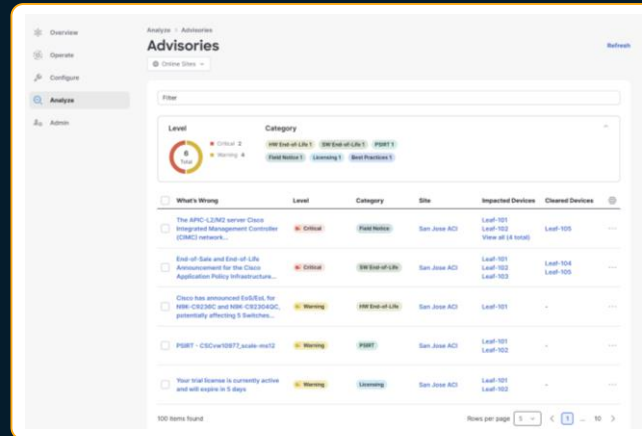
Cisco Nexus Dashboard – Analyze
Leverage the power of telemetry and analytics

Analytics

Analyze
Traffic Analytics

Automatically detect services in your network at scale

Use built-in service categories or create your own

Collect a service baseline using well-known L4 ports

Latency, drops and flow deviations reported for services/clients
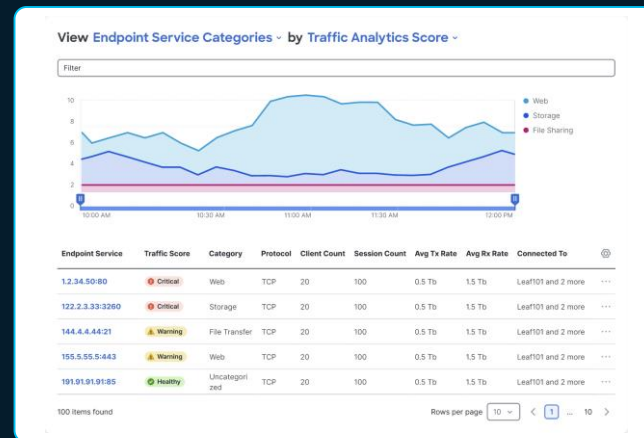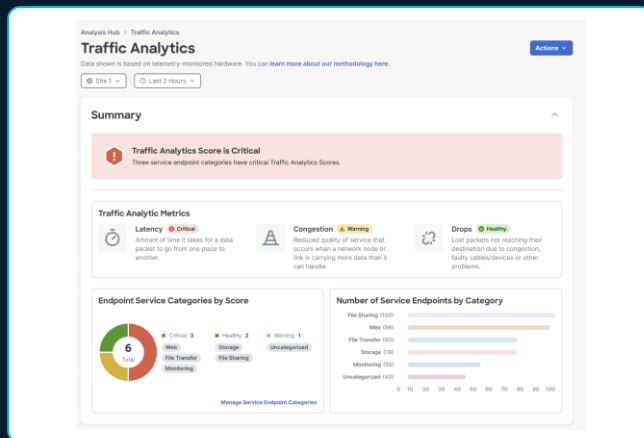
[1] Traffic Analytics available on Cisco Nexus® Dashboard 3.1 for NX-OS. ACI to be supported on version 3.2

Cisco Nexus Dashboard – Analyze

Leverage the power of telemetry and analytics

Analytics

Analyze
Sustainability[1]

Understand the carbon footprint of managed devices
Learn about the energy sources your fabrics consume
Get historical views and progress, including kWh and cost
Integrate to Panduit PDUs for increased visibility[1]
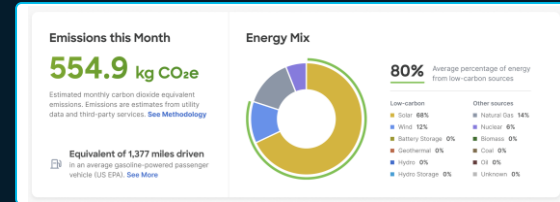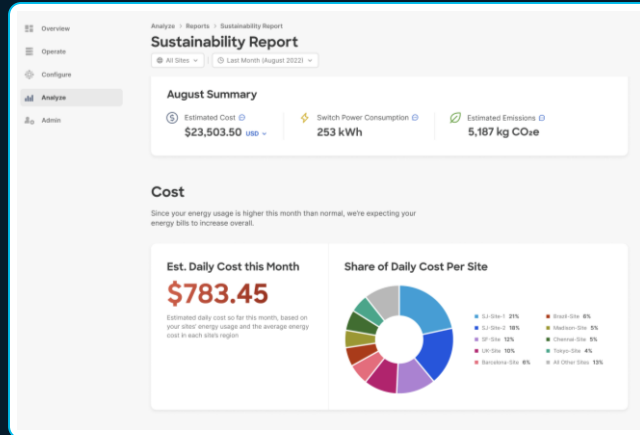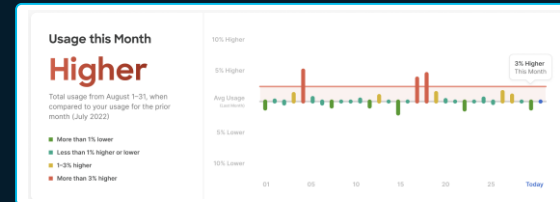
[1] Panduit integration available on Cisco Nexus® Dashboard 3.1

Use-cases

Features are included based on purchased Nexus switch license level

Custom Dashboards and Reports

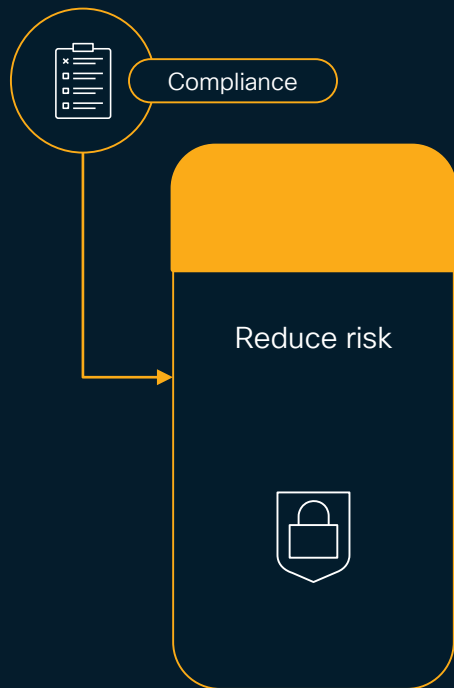Nexus Dashboard

Troubleshoot

Analyze

Automate & Manage

License Level			
Premier	✓	✓	+ Verified Scalability
Advantage			Hardware/Software EoL
Essentials			

Compliance
Configuration and communication rules

CAM Analysis
Top rules/contracts consuming resources

Conformance
Avoid running under unsupported conditions

Open API

Cisco Nexus Dashboard – Analyze
Leverage the power of telemetry and analytics

Compliance

Reduce risk
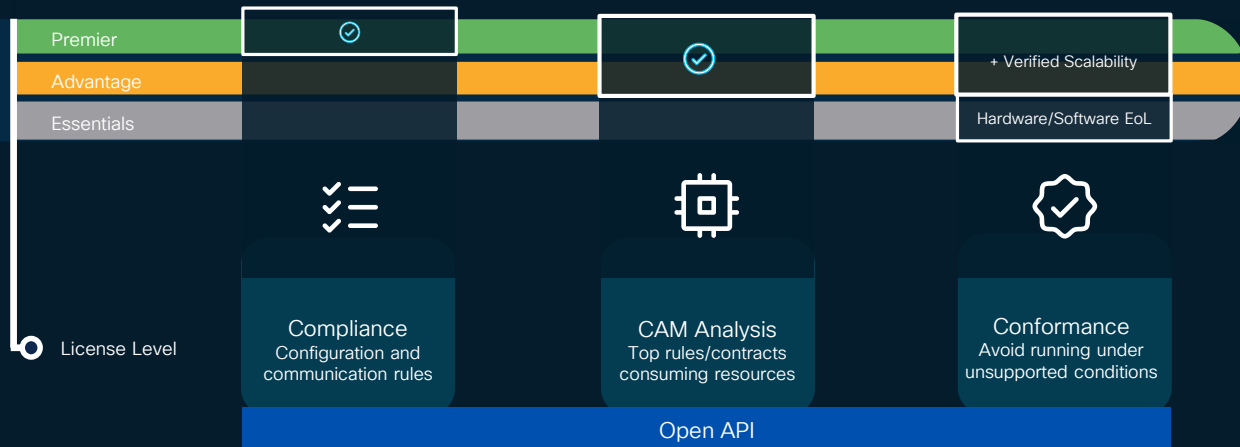
Enforce compliance by defining your own configuration rules and get notified when they are not met.

Enforce conformance and avoid running End-of-Support inventory while keeping your networks under Cisco Verified Scalability Limits without manual searches.

Save time with software recommendations and minimize risk with customized upgrade plans and pre- and post-upgrade analysis.

No more TFTP servers[1]
Directly download recommended software images from Cisco and accelerate upgrades.

Cisco Nexus Dashboard – Analyze
Leverage the power of telemetry and analytics

Compliance

Analyze
Compliance

Ensure network configurations adhere to your compliance rules
Define naming conventions and settings that must be followed
Receive compliance anomalies if rules are violated

*New UI on Nexus Dashboard 3.1
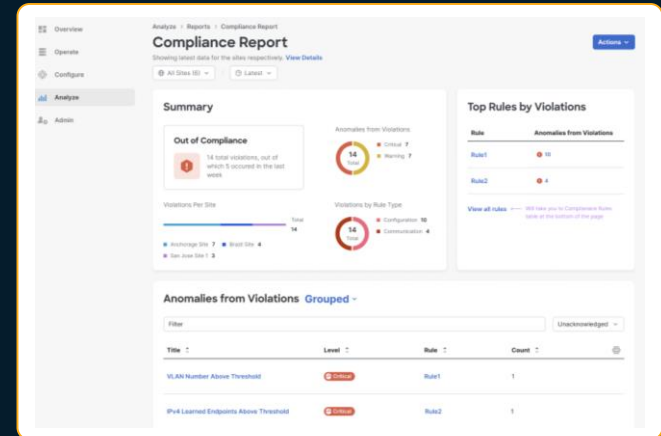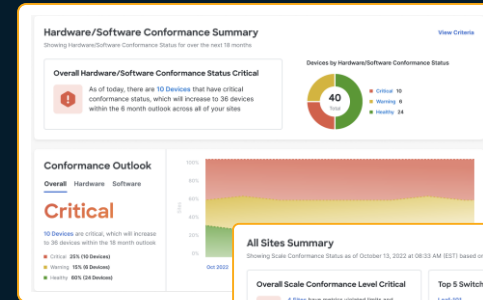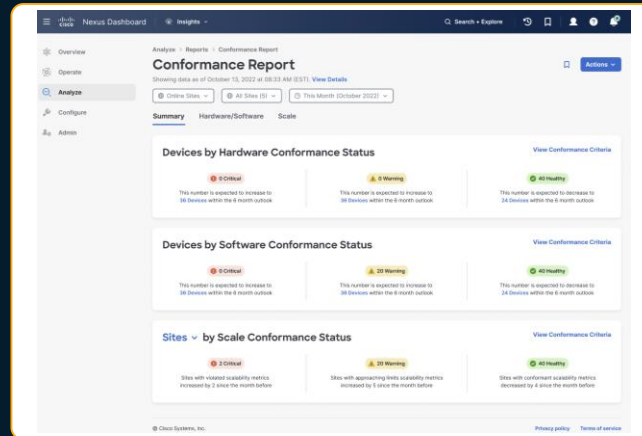
Cisco Nexus Dashboard – Analyze
Leverage the power of telemetry and analytics

Compliance

Admin
Conformance

Reduce risk by keeping your network in conformance with Cisco

Learn about software or hardware running under EoL

Get a 6- and 18-month outlooks to prevent End of Support

Find if your network is running above Cisco Scalability Limits
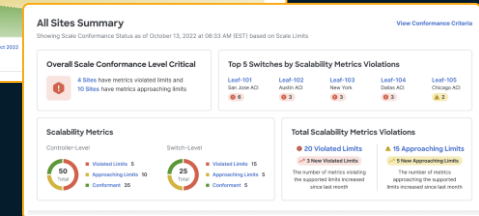
Use-cases

Features are included based on purchased Nexus switch license level

Nexus Dashboard

Custom Dashboards and Reports

Premier	✓	✓	✓
Advantage			
Essentials			

Troubleshoot

Analyze

Automate & Manage

License Level

Delta
Configuration and operational changes

Connectivity
Trace the path & issues between endpoints

Bug Scan
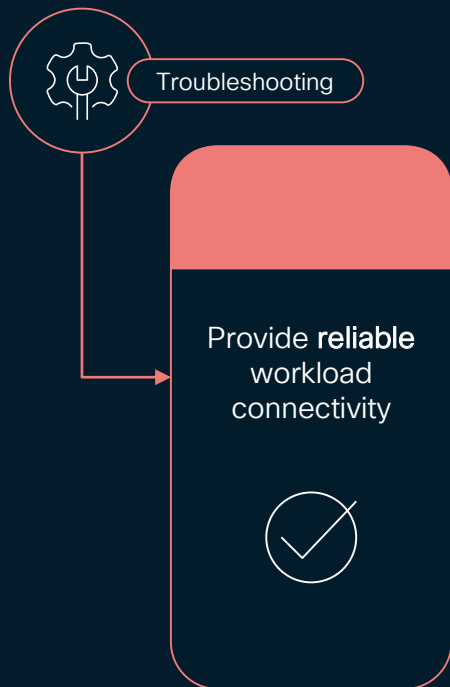Active, known and susceptible bugs

Open API

Virtual Assistant | Search and Explore

Connected TAC

Cisco Nexus Dashboard – Troubleshoot
Leverage the power of telemetry and analytics

Troubleshooting

Provide **reliable** workload connectivity

Search and explore IPs, MACs, and switches across your sites and get to the information you need faster

Analyze connectivity between two endpoints and display the forwarding path and policies between them

With Delta Analysis, learn about changes in your network between two points in time.

Need to go back in time?
Access historical information for anomalies, advisories, sustainability, and more.
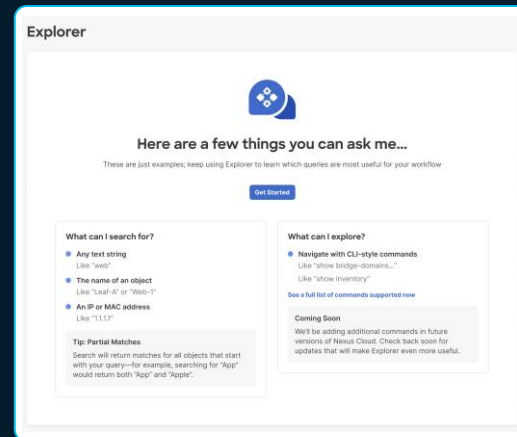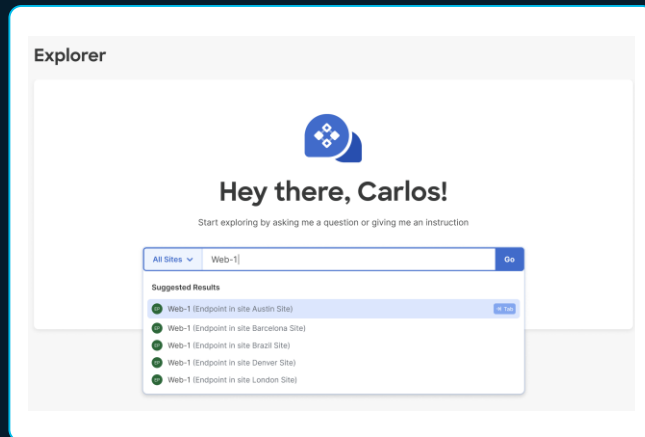
Cisco Nexus Dashboard – Troubleshoot
Leverage the power of telemetry and analytics

Troubleshooting →

Search and Explore[1]

Quickly search and find what you are looking for
Search for strings or query through CLI-style commands
Fill-ahead help accelerates finding results.
Filter results based on site and time range

Explorer

Hey there, Carlos!

Start exploring by asking me a question or giving me an instruction

| All Sites ∨ | Web-1 | | Go |

Suggested Results

Web-1 (Endpoint in site Austin Site)
Web-1 (Endpoint in site Barcelona Site)
Web-1 (Endpoint in site Brazil Site)
Web-1 (Endpoint in site Denver Site)
Web-1 (Endpoint in site London Site)

Explorer

Here are a few things you can ask me...

These are just examples; keep using Explorer to learn which queries are most useful for your workflow

Get Started

What can I search for?

• Any text string
  Like "web"

• The name of an object
  Like "Leaf-A" or "Web-1"

• An IP or MAC address
  Like "1.1.1.1"

Tip: Partial Matches
Search will return matches for all objects that start
with your query—for example, searching for "App"
would return both "App" and "Apple".

What can I explore?

• Navigate with CLI-style commands
  Like "show bridge-domains..."
  Like "show inventory"

See a full list of commands supported now

Coming Soon
We'll be adding additional commands in future
versions of Nexus Cloud. Check back soon for
updates that will make Explorer even more useful.

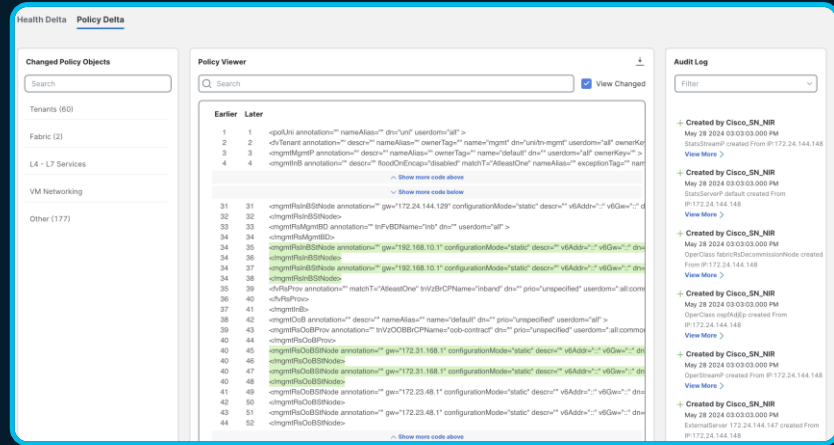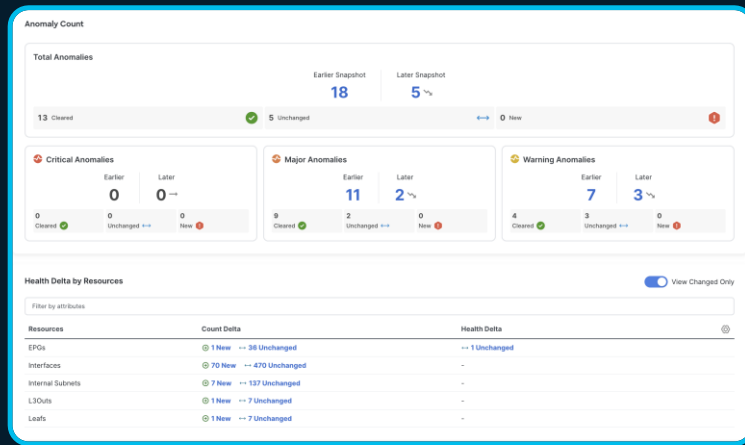# Cisco Nexus Dashboard – Troubleshoot
Leverage the power of telemetry and analytics

Troubleshooting →

Analyze
Delta
Analysis[1]

Compare two points in time
Get anomaly and advisory status changes
Learn about routes and endpoints changes
Easily identify configuration changes
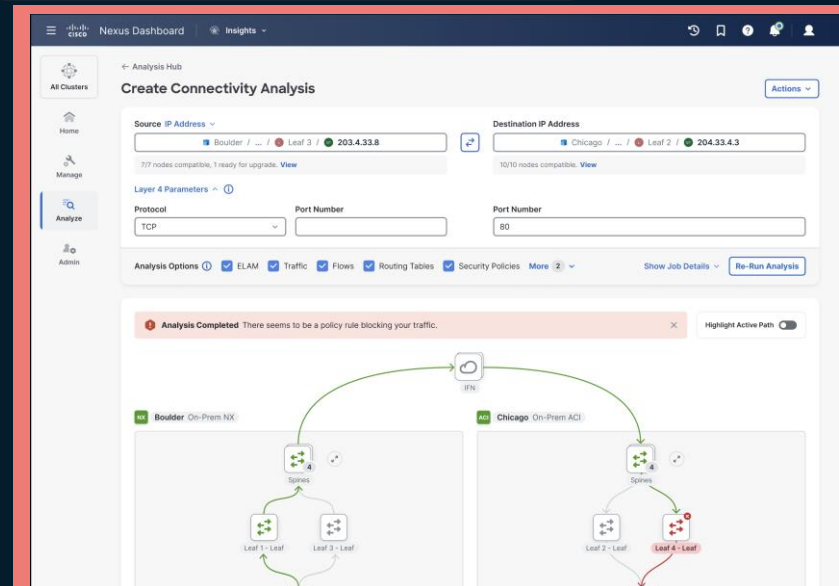
Cisco Nexus Dashboard – Troubleshoot
Leverage the power of telemetry and analytics

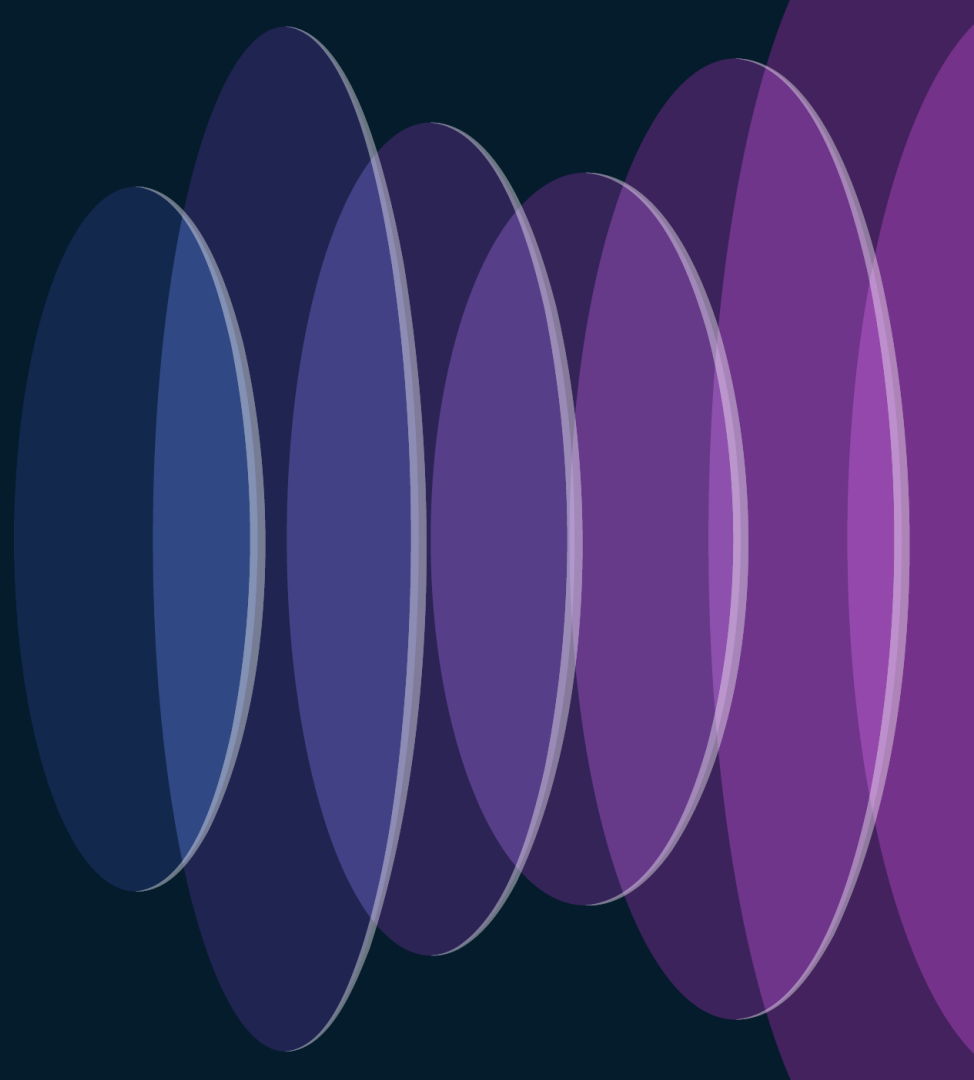Troubleshooting →

Analyze
Connectivity Analysis[1]

Learn how endpoints communicate
Visualize transit routes, ports, and policies*
Add ELAM information, OAM and interface consistency checks
Integrate latency, drops, and flows to your analysis*

* Flow, Traffic, Security and Routing Table integrations in roadmap

Licensing

Tuning the Licensing Tiers

Select Nexus Dashboard Insights features now in Essentials and Advantage tiers

Nexus Dashboard
Services

	Essentials	Advantage	Premier
Insights	New	New	All Features
Orchestrator		✓	✓
Controller	✓	✓	✓

No Nexus **without** Nexus Dashboard

Tuning the Licensing Tiers

Capabilities		Essentials	Advantage	Premier
Conformance	Hardware/software lifecycle & EoS	✓	✓	✓
	Verified scale		✓	✓
Topology	One fabric at a time	✓	✓	✓
	Across fabrics		✓	✓
Anomalies + Advisories	Switch/interface down + Sev-1 PSIRT & EoS	✓	✓	✓
	All anomalies and advisories		✓	✓
Software Upgrade Support[3]	Basic upgrade checks & TAC Assist	✓	✓	✓
	Full upgrade analytics			✓
Analytics and Troubleshooting	Sustainability		✓[1]	✓[2]
	Bug Scan, CAM Analyzer		✓	✓
	Flow and Traffic			✓
	Connectivity and Explorer			✓
	Delta (pre/post)			✓
	Compliance			✓

[1] Fabric-Level Sustainability only   [2] Integration with Panduit   [3] Software Upgrade from Insights in roadmap, only Pre-Upgrade Analysis available on ND 3.0 and 3.1

Detailed list available on ND ordering guide

Capabilities		Essentials	Advantage	Premier ☆
Inventory 📋	Global, fabric, switch, ports, endpoints, VMs	✓	✓	✓
	L3 neighbors, IPv4/v6 routing tables*, capacity		✓	✓
AI/ML and QoS	PFC/ECN (NX-OS/NDFC Only)		✓	✓
	Microbursts		✓	✓
Integrations 🔌	VMware	✓	✓	✓
	DNS		✓	✓
	All (Splunk, ServiceNow, AppD, Panduit, etc)			✓
Others	Journey, ND multi-cluster support	✓	✓	✓
	Multicast PIM, IGMP (NX-OS/NDFC only)		✓	✓
	Log collector		✓	✓
	Snapshots (ACI only) and Snapshot Assistant		✓	✓
	Customized alerts and compliance rules			✓
	Customizable dashboards			✓
	Pre-change analysis (ACI only)			✓

* Roadmap item

Detailed list available on ND ordering guide

Summary
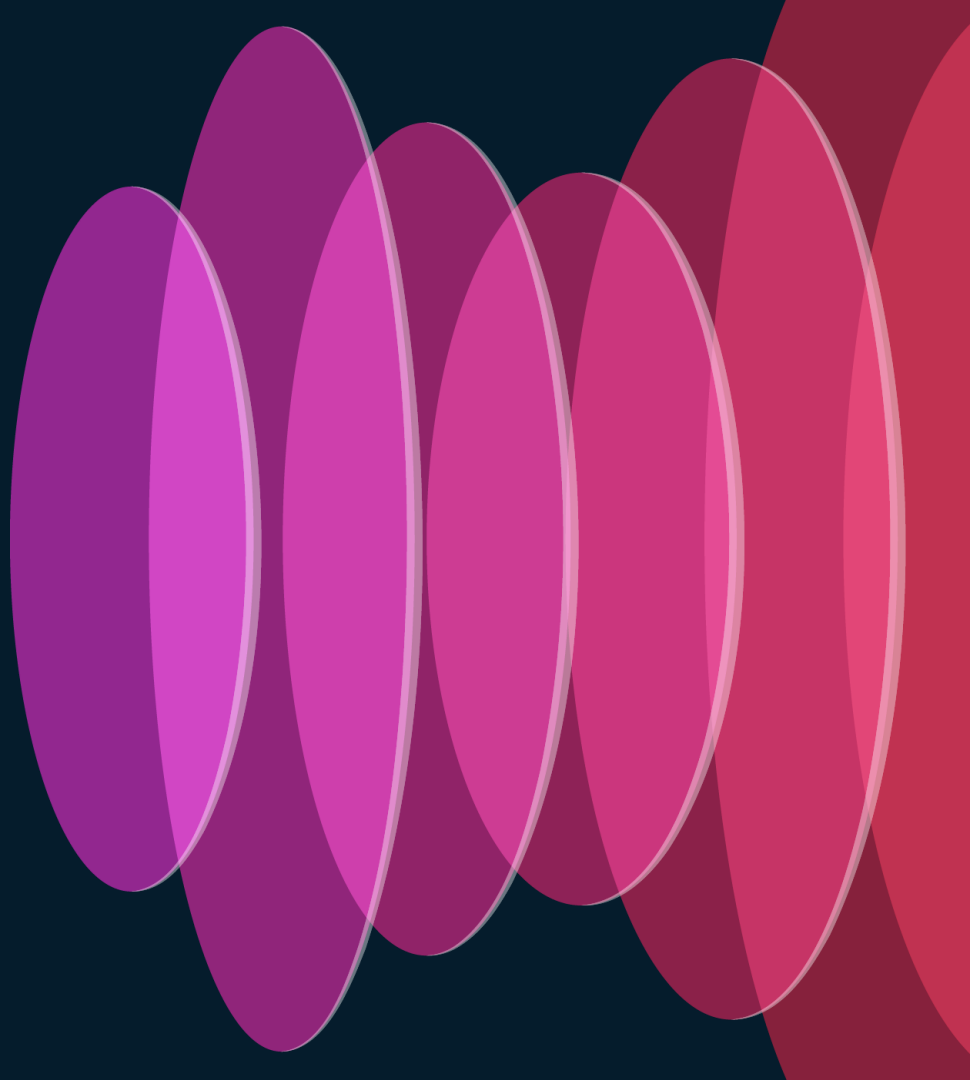
Maximize the power of connectivity

Accelerate innovation and sustainability

Increase business value

Minimize downtime

Included with every Cisco Nexus 9000

Tiered licensing purchase

Consumption choice, single licensing

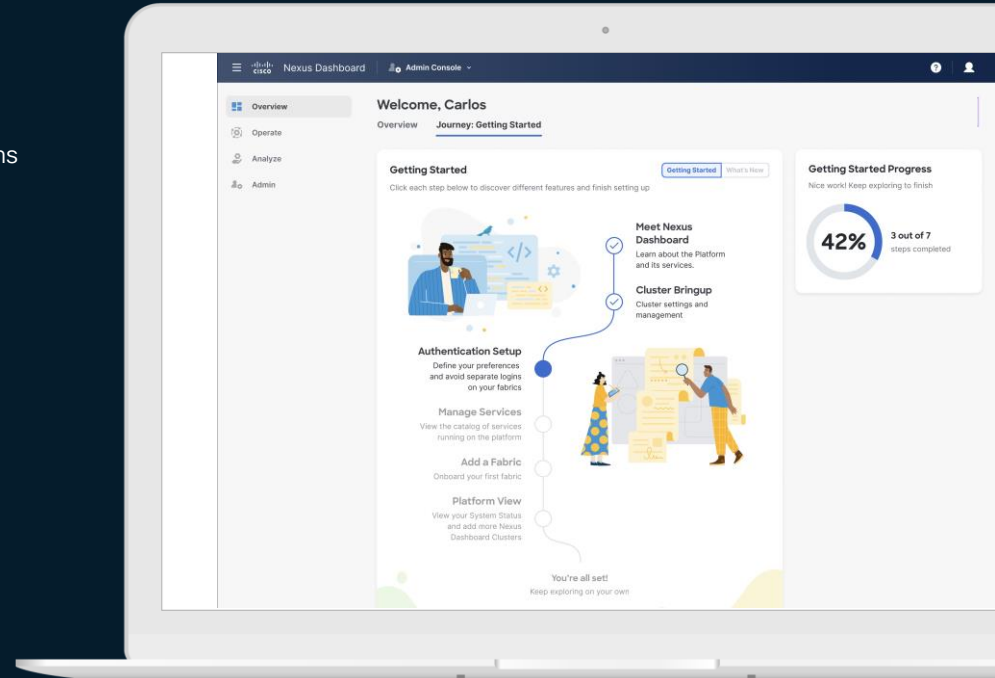Cisco Nexus® Dashboard: Provisioning and/or Day-2 operations

Simple, modern, useful

Cisco Nexus Dashboard 3.2: Available soon! (July)
Appliance-based (physical or virtual)

Innovate and minimize risk and downtime

Leverage the power of automation and analytics.
Go beyond the switch port.
Always connected to Cisco® TAC[1].

[1]When connected to Cisco Intersight® and leveraging Cisco TAC Assist

Additional resources

Nexus Dashboard capacity planning
Resources needed by form factor and scale

CN Product Compatibility Matrix
Product version compatibility

Nexus Dashboard Insights user guides
Feature functionality & limits

Nexus Dashboard Roadmap deck (internal only)
Refreshed monthly for upcoming features

Complete Your Session Evaluations

Complete a minimum of 4 session surveys and the Overall Event Survey to be entered in a drawing to **win 1 of 5 full conference passes** to Cisco Live 2025.

Earn 100 points per survey completed and compete on the Cisco Live Challenge leaderboard.

Level up and earn **exclusive prizes!**

Complete your surveys in the **Cisco Live mobile app.**

Continue your education

- Visit the Cisco Showcase for related demos

- 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

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