

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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Let's go

#CiscoLive



The bridge to possible

# Cisco DNA Center

## New Operational Deployment Models

Shai Silberman, Engineering Product Manager, DNA Center  
@shaidom

PSOENT-1830



#CiscoLive

# 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/#PSOENT-1830>

# Agenda

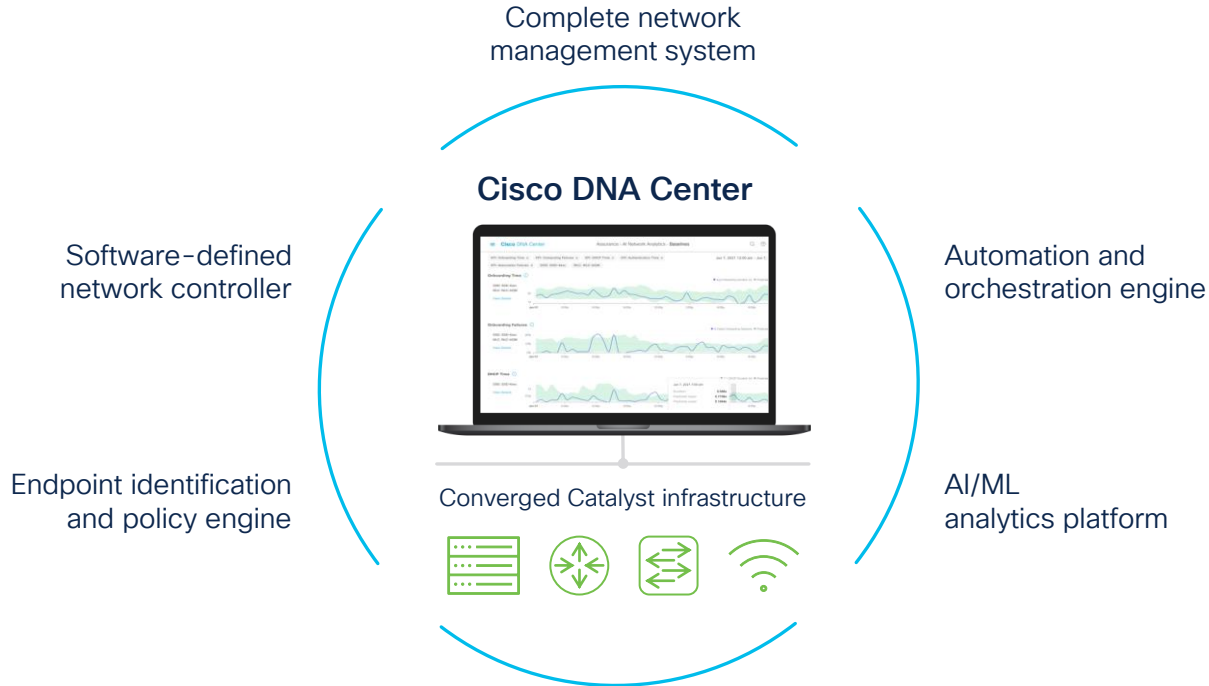
- Introduction
- Cisco DNA Center overview
- Operational models
- Form Factors
  - AWS
  - ESXi
  - Appliance
- Conclusion/resources, etc.
- PSA: CL sessions/WoS

# Introduction

# Cisco DNA Center Overview

# Cisco DNA Center

Command and control center for Cisco Catalyst



# Facilitating the jobs your teams need to do



Visibility



Observability  
and insights



Automation



Zero trust



Programmability

## Cisco DNA Center



Converged Catalyst infrastructure



## NetOps

Simplify building and maintaining complex networks



## AIOps

Predictive analytics for proactive operations



## SecOps

Build and operate a zero-trust network



## DevOps

Untangle the complexities of systems integrations



## Field tech

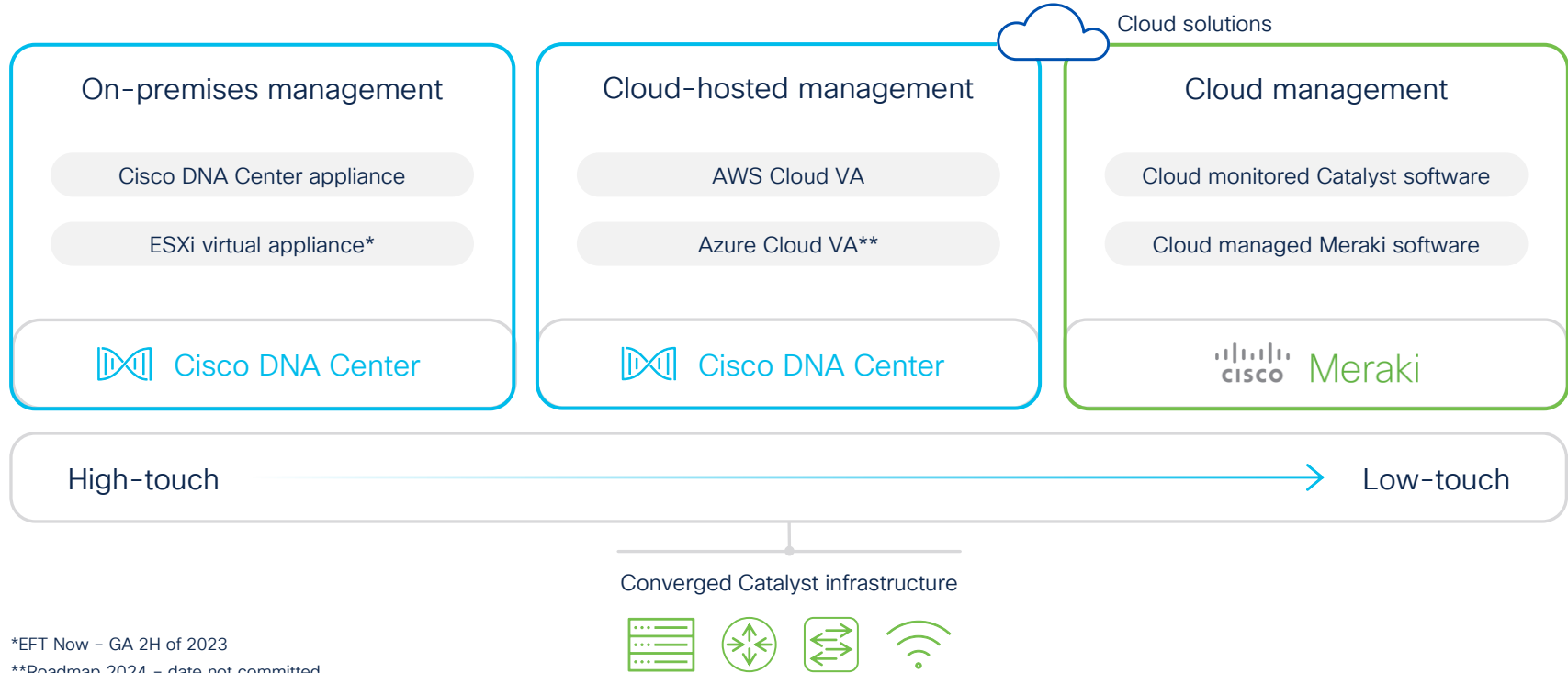
Empower your field technicians with simpler tools



# Operational Models



# Your IT operation model, your way



\*EFT Now – GA 2H of 2023

\*\*Roadmap 2024 – date not committed

# Cisco DNA Center operational evolution and vision

## Scaling to meet your enterprise needs



\*\*Future dates subject to change



# Cisco DNA Center on AWS Cloud



**Virtual appliance hosted  
on AWS Cloud**

**No cost for software**

(AWS charges apply)

Optional support can be purchased.

Quicker time to value

AWS platform native high availability

## Features and scale

**Features** from 2.3.5.x release and above across:

- Automation, assurance, system, SPA, SDA and integrations

**Scale parity** with DN2-HW-APL(44 core appliance):

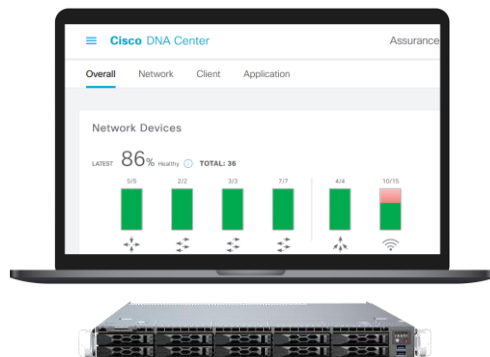
- 25K endpoints
- 5K devices
- 1500 sites

## VA specifications

- CPU: 32vCPU
- Mem: 256GB
- Storage: 2TB-4TB
- IO Bandwidth: 180MB/sec
- IOPS: 2000-2500
- AWS instance type: r5a.8xlarge

[Get Cisco DNA Center on AWS Cloud today](#)

# Cisco DNA Center on VMware ESXi



**Virtual appliance hosted on customer supplied hardware**

**No cost for software**

Optional support can be purchased

Customer-supplied VMWare license  
Operational flexibility and choice

## Features and scale

**Features from 2.3.7.x release and above across:**

- Automation, assurance, system, SPA, SDA and integrations

**Scale parity with DN2-HW-APL(44 core appliance):**

- 25K endpoints
- 5K devices
- 1500 sites (to be confirmed)

## Specifications

### Virtual machine

- CPU: 32vCPU
- Mem: 256GB
- Storage: 2TB-4TB
- IO Bandwidth: 180MB/sec
- IOPS: 2000-2500

### Server

- vCenter and ESXi: 7.0
- Intel CPU 2.1 GHz and above
- Hyperthreading enabled
- RAM: 264 GB (ESXi and VA)
- RAID: Any (must meet IOPS and bandwidth)
- Thin provisioning

\*Planned

# Cisco DNA Center physical appliance

## Scale and hardware specifications

### DN2-HW-APL

VA

- 44 core M5
- 5000 network devices
- 1000 switches and routers
- 4000 APs
- 25000 endpoints (concurrent)

### DN2-HW-APL-L

- 56 core M5
- 8000 network devices
- 6000 AP and 2000 switches/routers
- 40,000 endpoints (concurrent)

### DN2-HW-APL-XL

- 112 core M5
- 18K devices
- 13K AP/5K switches and routers
- 100,000 end points  
(60K wireless/40K wired)



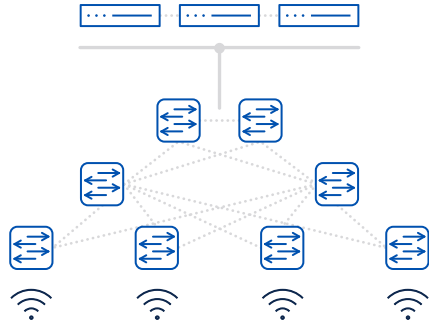
Automation HA available with all models

Cluster members must be of the same appliance type



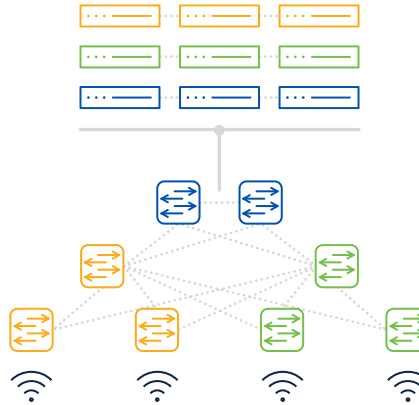
# Cisco DNA Center Multisite architecture

Same data center



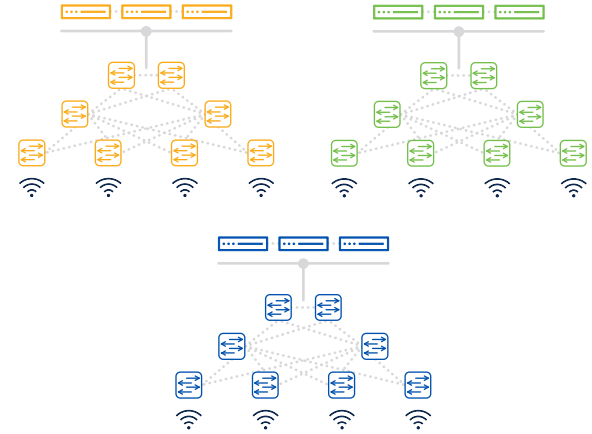
Centralized  
One cluster for the entire  
network/admin domain

Same data center



Multiple cluster for a single  
network but different  
admin domains

Multiple data centers



Region based admin domains  
Separate networks

# Cisco DNA Center: Enterprise scale readiness

Flexible form  
factor appliances



DN2-HW-APL  
DN2-HW-APL-L  
DN2-HW-APL-XL

AWS  
ESXi\*

Disaster recovery



Disaster recovery (DR) for 3 node  
clusters across data centers

Witness support for  
split-brain scenarios

Automatic failover  
(primary>secondary)

User initiated failback  
(secondary>primary)

Cisco DNA Center  
Manager of Managers (DMS)



Simplified single pane of glass  
multi-cluster management of  
distributed Cisco DNA Centers

Centralized visibility and  
monitoring of network

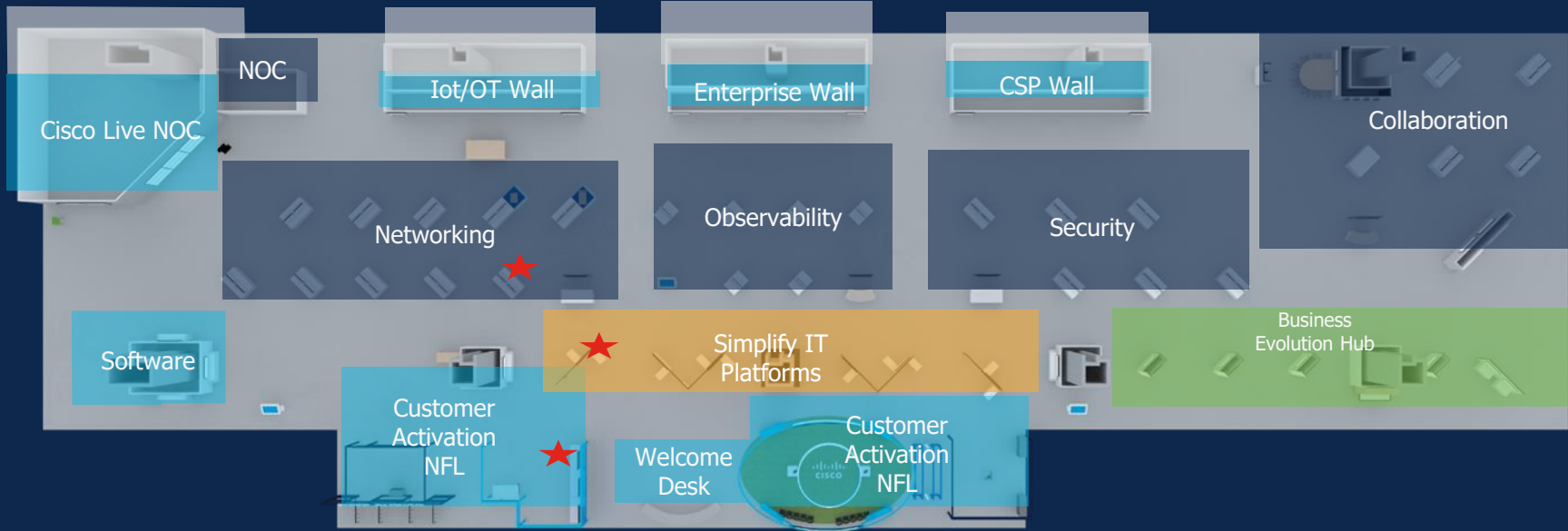
Search support

Future



# Visit Cisco DNA Center demo stations @WoS

Get a demo today



# 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



- 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](https://www.CiscoLive.com/on-demand)

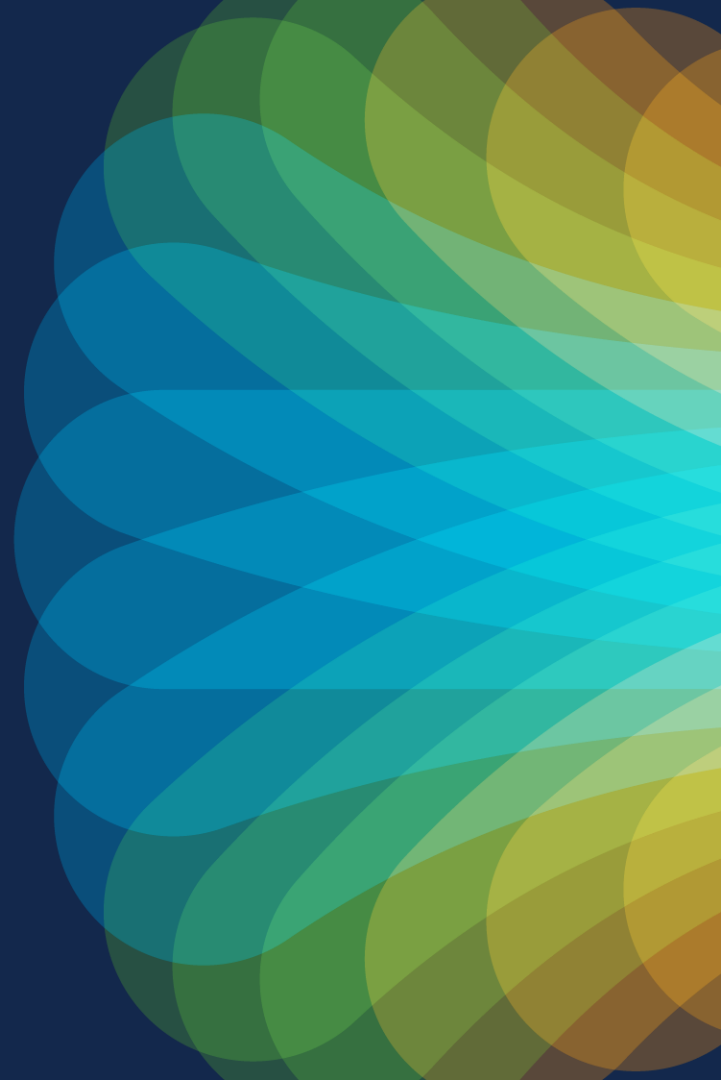


The bridge to possible

# Thank you

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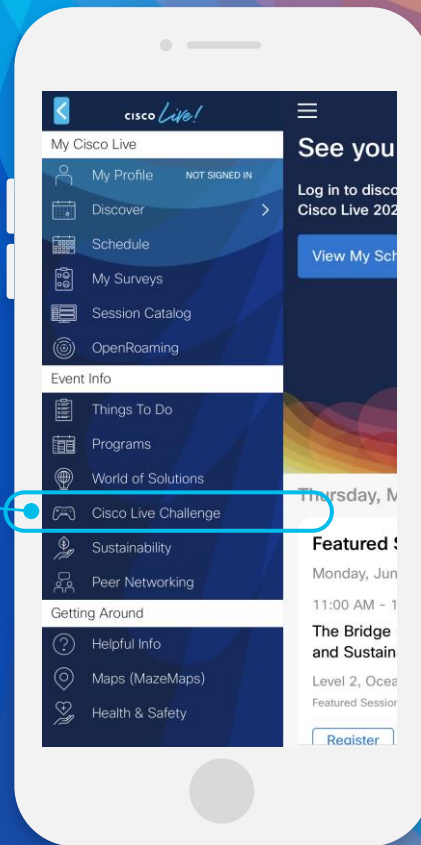


# Cisco Live Challenge

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:



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