



Cisco Intersight

The Future of Workload Management

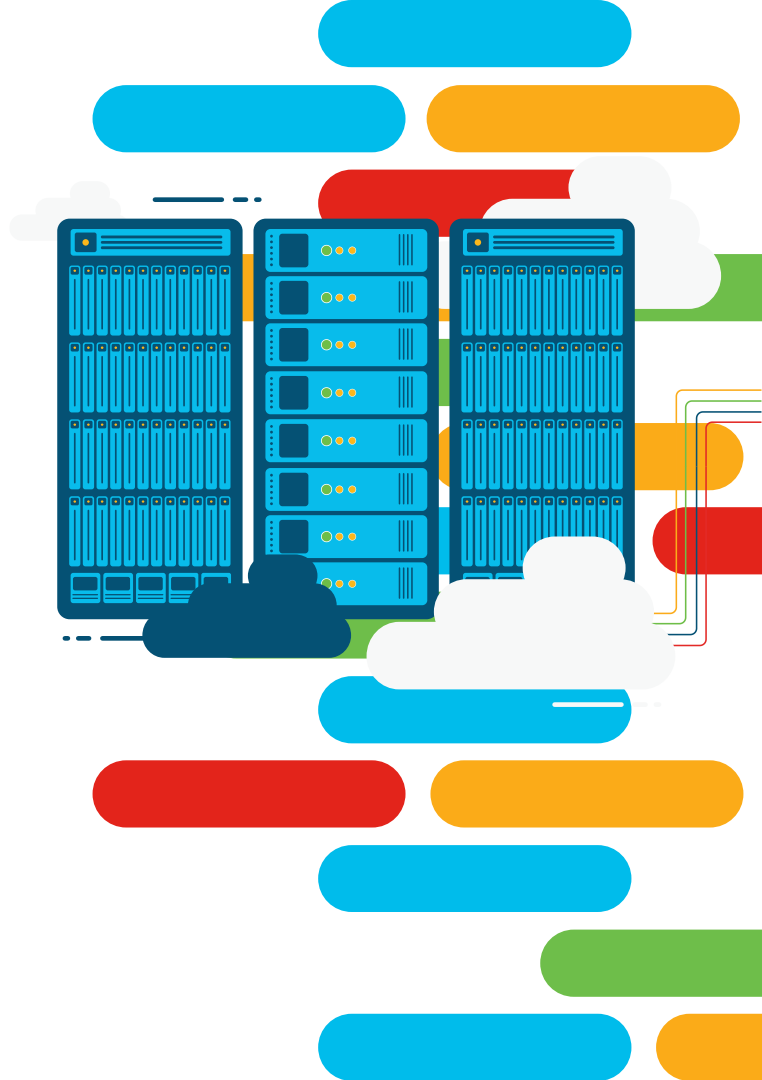
Greg Scarlett

Technical Solutions Architects – DC and Cloud

CISCO *Live!*

Virtual Event APJC • 1-2 April 2020

#CiscoLiveAPJC



Changing the World by Seizing Transitions

Second 5 years

Emergence of cloud and data

Helping customers address agility requirements, big data, HCI, Flash and competing against cloud as a platform

First 5 years

Virtualization strategy

Winning the architectural battle, focus on addressing customer cost
Virtualization, consolidation and CI

Next 5 years

Intuitive

Cloud way of life – simple, elastic
On-premises stays, boundaryless
IT, Developers rule

Start with radical simplification...

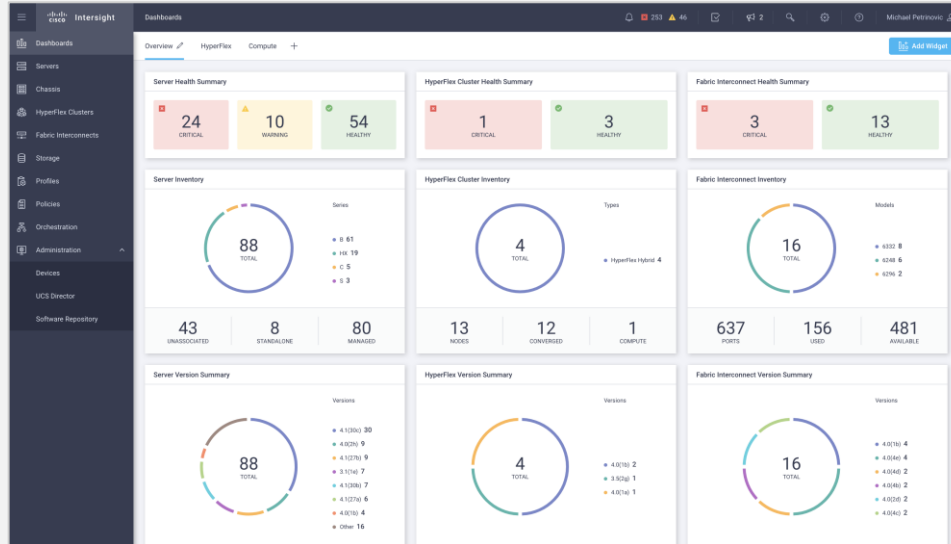
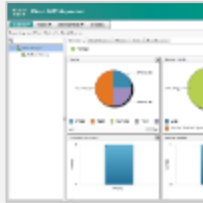
Opera

Single Interface / Single API

i-Site



Remote/ Bra



Converged



Cloud-managed infrastructure

Cisco Meraki™

Cloud-controlled networking



Cisco Intersight™

Cloud-controlled computing and convergence



Cisco Intersight Feature Areas



Cloud-Delivered Infrastructure Management

Centralized Management
Global Policies

Intuitive
Experience



Enhanced
Support



Proactive
Guidance



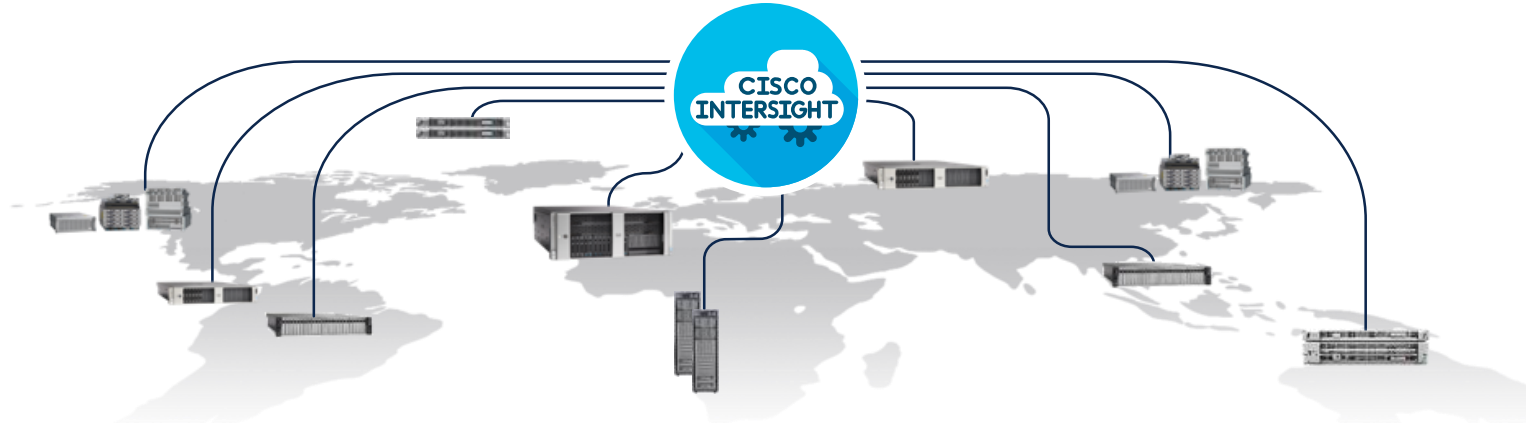
Secure and
Extensible



SaaS
Delivered



Comprehensive Automation
Single Pane of Glass



SaaS Consumption Model

Free customers from care and feeding of management tools and eliminate upgrade dependencies



Seamless Extensibility

Simplify management across technologies and geography



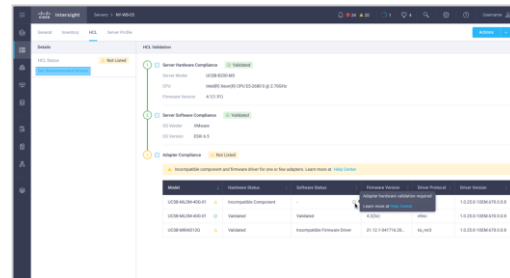
Continuous Feature Integration

Rapid development, delivery and customer feedback

Contract Status



Security Advisories



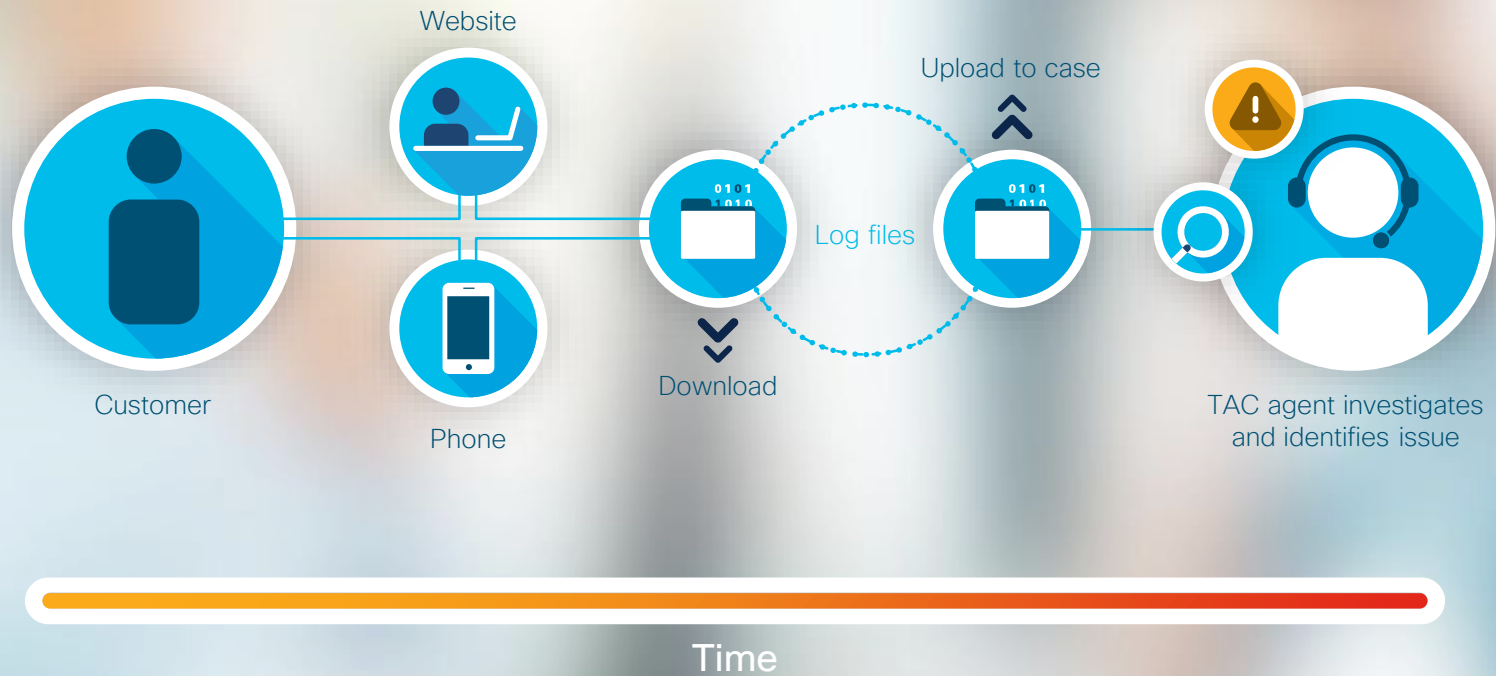
Supportability & Telemetry



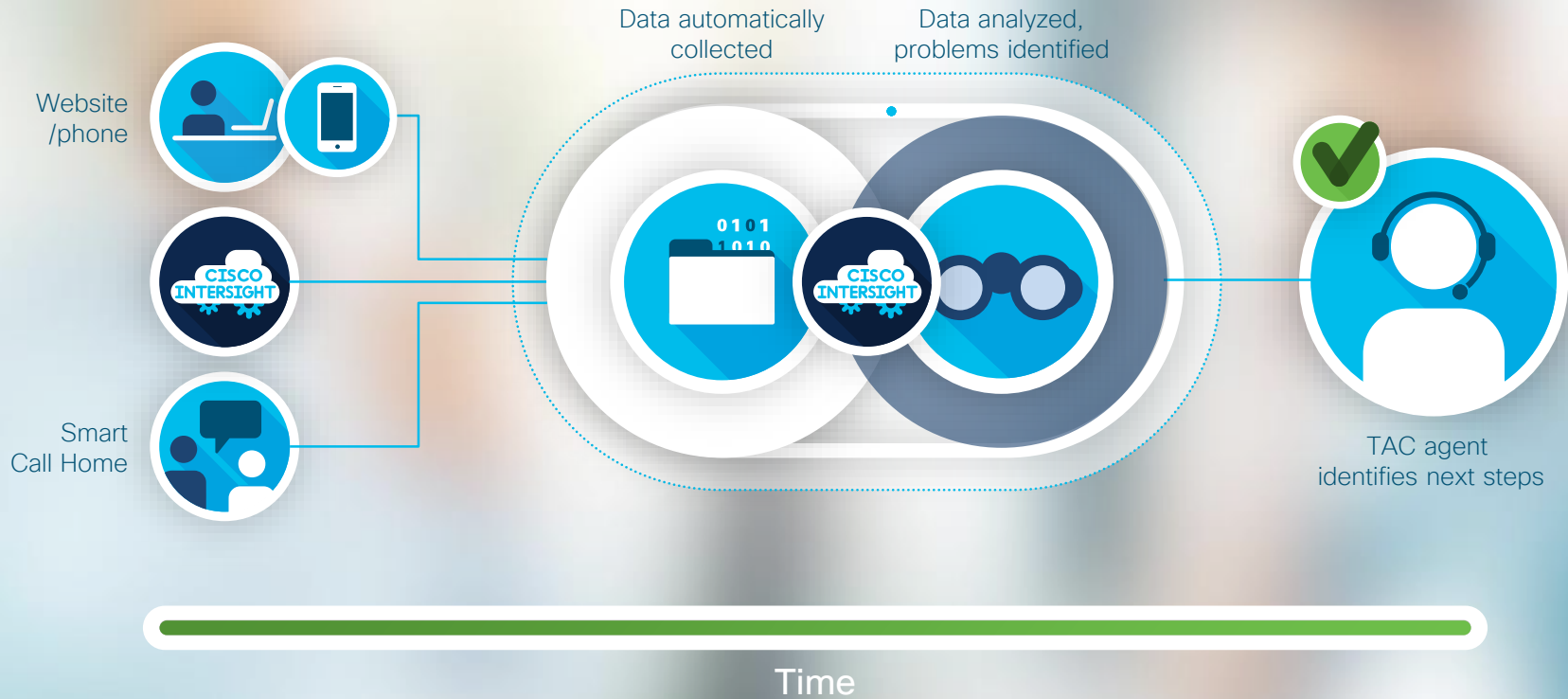
You make customer experience **possible**

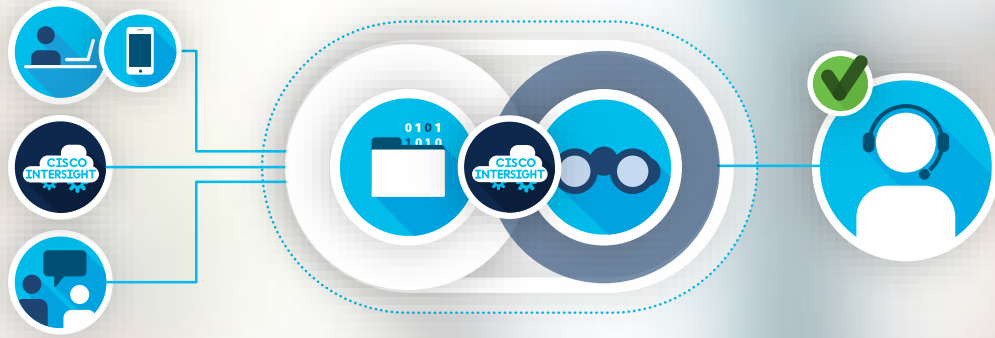


Our **old** process



Our **new** process





Time
reduced
to **minutes**

Increased
accuracy

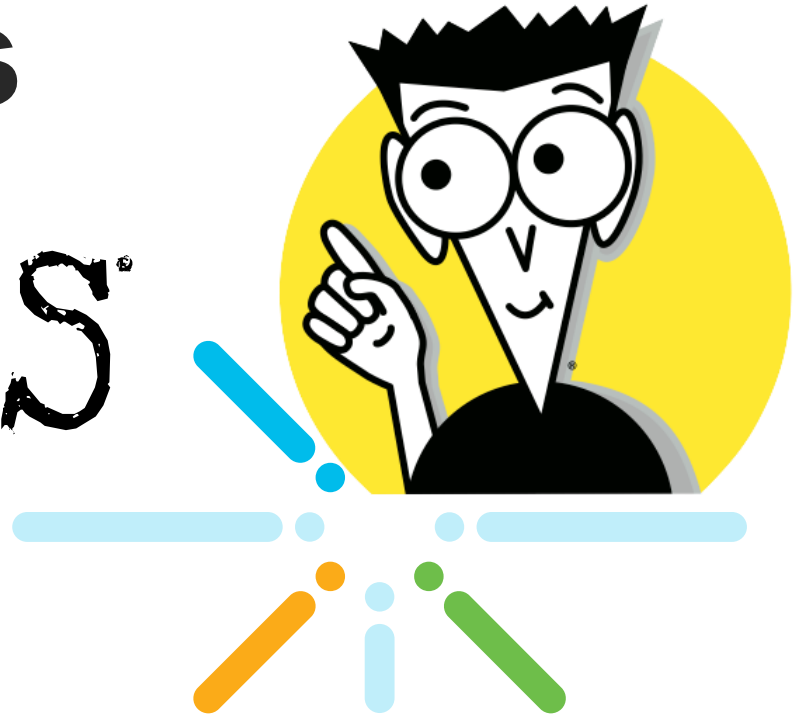
Less
**customer
involvement**

Save
money

12,306 hours (~513 days) | 15,000 auto-generated support files | 12,500 manually (TAC) created


Risk Analysis FOR DUMMIES

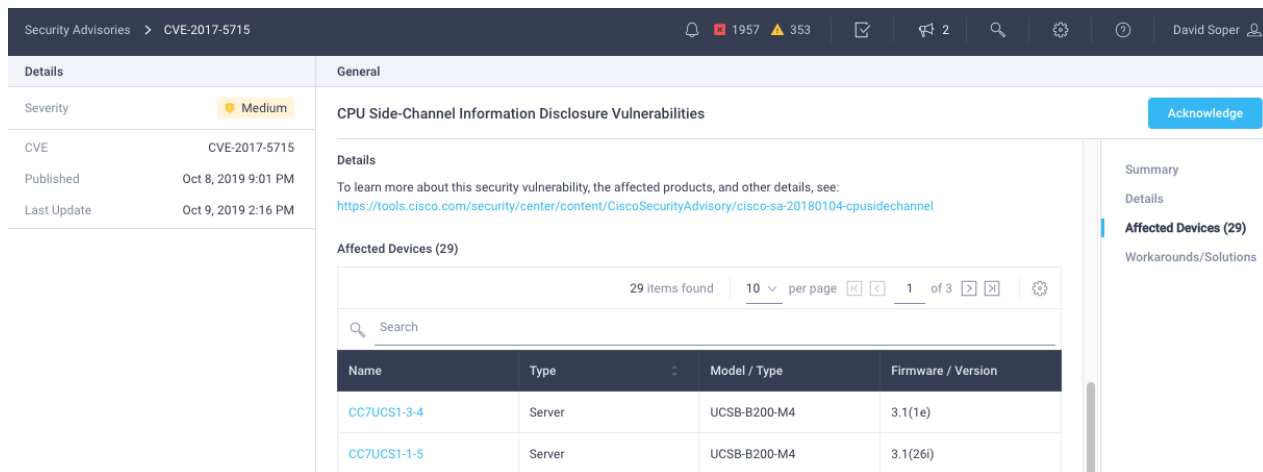
a.k.a Compliance



You make networking **possible**

Advisories (CVEs)

- Intersight displays devices impacted by Cisco Security Advisories
 - Advisories available in the menu bar of the UI 
- CVE IDs and links for more information are provided
- User can acknowledge (hide) and unacknowledge Advisories

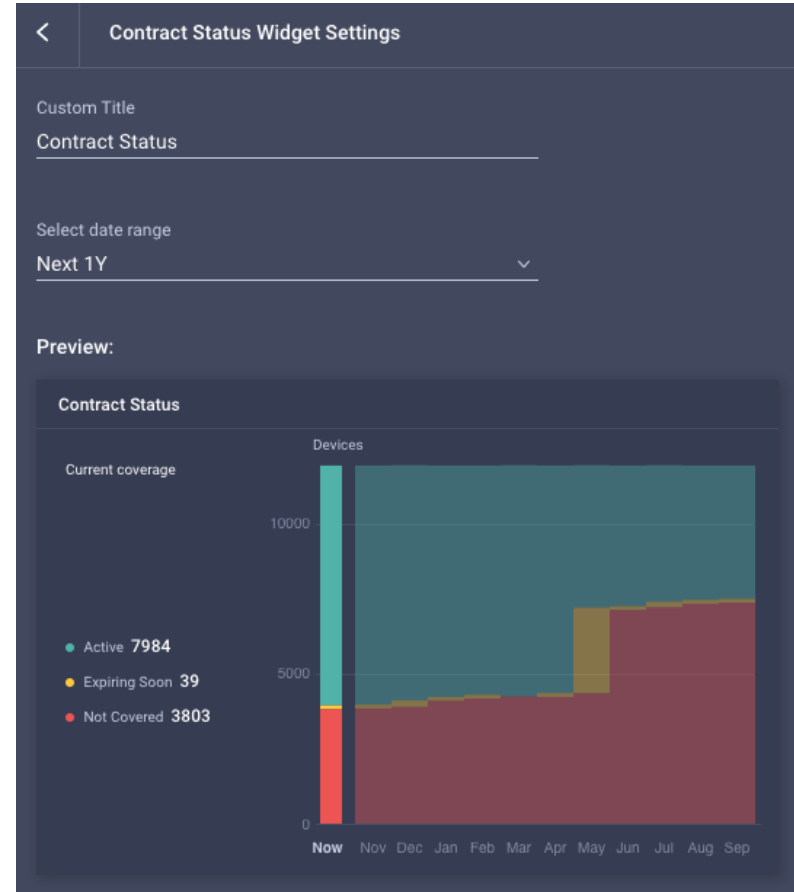


The screenshot shows the Cisco Intersight Security Advisories interface. The top navigation bar includes 'Security Advisories > CVE-2017-5715' and a user profile 'David Soper'. The left sidebar shows 'Details' with fields for Severity (Medium), CVE ID (CVE-2017-5715), Published date (Oct 8, 2019 9:01 PM), and Last Update (Oct 9, 2019 2:16 PM). The main content area is titled 'General' and 'CPU Side-Channel Information Disclosure Vulnerabilities'. It includes a link to the Cisco Security Advisory page and a table of affected devices. The table has columns for Name, Type, Model / Type, and Firmware / Version. The right sidebar shows 'Summary', 'Details', and 'Affected Devices (29)'.

Name	Type	Model / Type	Firmware / Version
CC7UCS1-3-4	Server	UCSB-B200-M4	3.1(1e)
CC7UCS1-1-5	Server	UCSB-B200-M4	3.1(26i)

Service Contract Status

- Dashboard Widget and Table View column display current Contract Status
- Categories: Active, Expiring Soon (next 30 days), Not Covered
- Widget provides custom date range for planning (1 or 5 year status displayed)



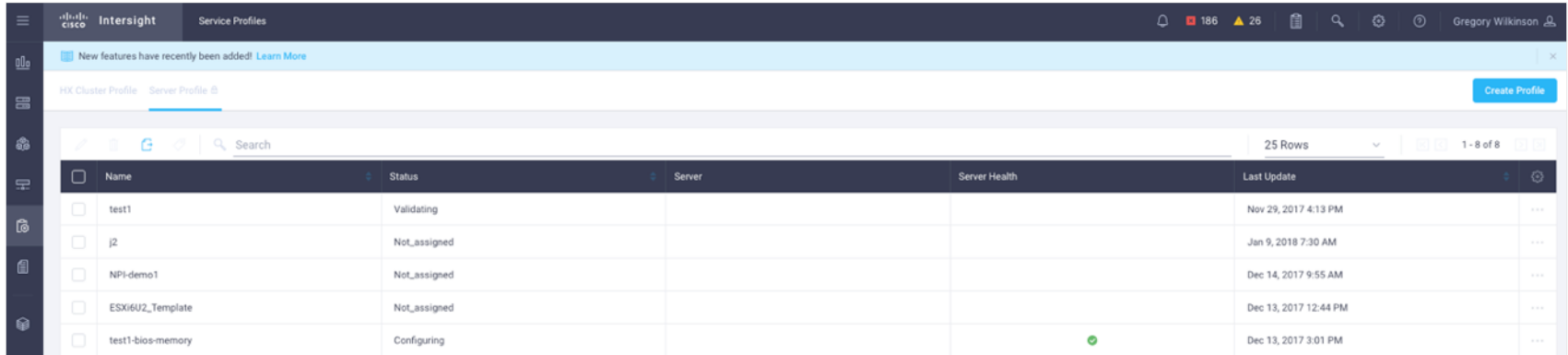
Deployments



You make the power of data **possible**


Cisco Intersight Server Profiles

- Individual Server Profiles are created within the Profiles tab.
- Users select desired policies to include in profile.
- Users can also create new policies within profile setup.
- A profile can only be assigned to a single server.
- Profiles can be cloned and assigned to additional endpoints.
- Profiles can be exported to CSV file and tagged for better organization.
- Profile summary page will show list of profiles, status, and the endpoint they are associated with.



New features have recently been added! [Learn More](#)

HX Cluster Profile **Server Profile** [Create Profile](#)

<input type="checkbox"/>	Name	Status	Server	Server Health	Last Update	
<input type="checkbox"/>	test1	Validating			Nov 29, 2017 4:13 PM	...
<input type="checkbox"/>	j2	Not_assigned			Jan 9, 2018 7:30 AM	...
<input type="checkbox"/>	NP1-demo1	Not_assigned			Dec 14, 2017 9:55 AM	...
<input type="checkbox"/>	ESXi6U2_Template	Not_assigned			Dec 13, 2017 12:44 PM	...
<input type="checkbox"/>	test1-bios-memory	Configuring			Dec 13, 2017 3:01 PM	...

Cisco HyperFlex Installer user experience



Cisco HyperFlex

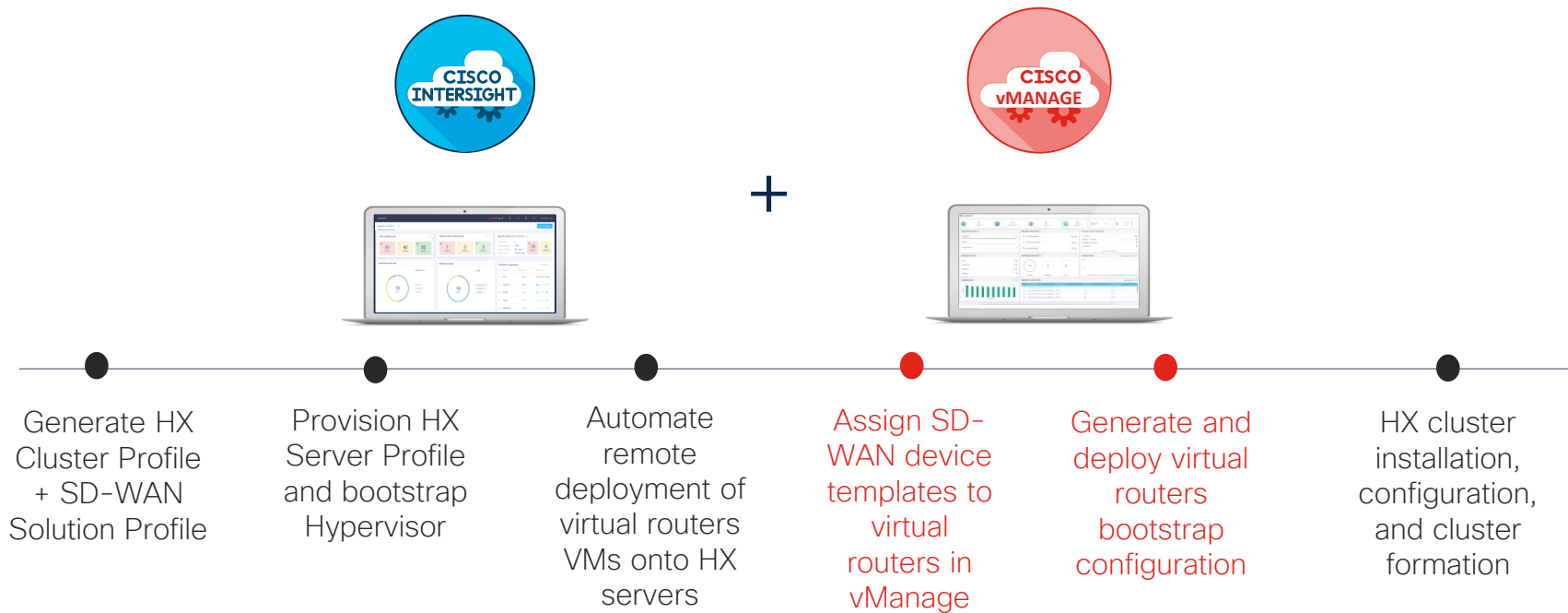
- Services of SaaS version wrapped up in a virtual machine
- Software Appliance (OVA) initially supporting VMware
- Same look and feel, same API, and same initial features
- Requires connection to Cisco, done via Device Connector in Software Appliance



Cisco HyperFlex



- Deploy from anywhere!
- No need for existing infrastructure or OVA setup
- Latest version always available
- Reusable policy for rapid and consistent deployment
- Simple ramp-up of large HX projects with simultaneous background deployment


Integrated Branch



Intersight – Firmware Upgrades

...



 Search

<input type="checkbox"/>	Power On	Health	Management IP	Model
<input type="checkbox"/>	Power Off	✓	Unavailable	UCSB-B200-M4
<input type="checkbox"/>	Power Cycle	✓	Unavailable	UCSB-B200-M4
<input type="checkbox"/>	Shut Down OS	✓	Unavailable	UCSB-B200-M4
<input type="checkbox"/>	Hard Reset	✓	Unavailable	UCSB-B200-M4
<input type="checkbox"/>	Reboot IMC	✓	Unavailable	UCSB-B200-M4
<input type="checkbox"/>	Turn On Locator	✓	Unavailable	UCSB-B200-M4
<input type="checkbox"/>	Turn Off Locator	✓	Unavailable	UCSC-C220-M5SX
<input type="checkbox"/>	Upgrade Firmware	✗	172.22.249.75	UCSC-C220-M5SX
<input type="checkbox"/>	D23-UCS1-1-8	✓	10.29.131.185	UCSB-B200-M3
<input type="checkbox"/>	D23-UCS1-1-7	✓	10.29.131.185	UCSB-B200-M3
<input type="checkbox"/>	D23-UCS1-1	⚠	10.29.131.185	UCSC-C240-M5S
<input checked="" type="checkbox"/>	C240-WZP21340YNQ	✗	10.29.131.134	UCSC-C240-M5SX

Upgrade Firmware

Network Share Utility Storage

NFS CIFS HTTPS

Remote IP *

Remote Share *

Remote File Name *

Cancel Upgrade

Firmware will be installed and the device will be rebooted immediately.

Upgrade Firmware

Network Share Utility Storage

Utility storage includes FlexUtil cards for the M5 servers.

Firmware Version *
3.1(2b)

Image Name ucs-c240m5-huu-3.1.2b.iso

Release Date October 5, 2017

Size 487 MB

Supported Models UCSC-C240-M5S, UCSC-C240-M5L, UCSC-C240-M5SX, UCSC-C240-M5SN

Description Cisco UCS Host Upgrade Utility

On clicking upgrade below, firmware download to FlexUtil will begin immediately. Installation will start on the first boot after the download has successfully completed. Installation can be initiated once the server Firmware Status is "Ready for Upgrade" by performing a Host Reboot on the server.

Cancel Upgrade

- Firmware upgrades available via Network Share or Utility Storage
- Network upgrades reboot host immediately and begin upgrade
- Utility Storage upgrades are staged – firmware is downloaded and then upgrades on next reboot

Simplifying Firmware Update

- Intersight supports multiple options for FW update:
 - FW hosted on the local management subnet
 - "One click" updates when utility storage is available on the device being updated
- [Video demo of FW update](#)

Upgrade Firmware

Network Share **Utility Storage**

Utility storage includes FlexFlash cards in Utility mode for the M4 servers and FlexUtil cards for M5 servers.

Firmware Version *

4.0(2f)

Image Name	ucs-c240m4-huu-4.0.2f.iso
Release Date	March 13, 2019
Size	844 MB
Supported Models	UCSC-C240-M4L, UCSC-C240-M4S, UCSC-C240-M4SX, UCSC-C240-M4SNEBS, UCSC-C240-M4S2
Description	Cisco UCS Host Upgrade Utility

▲ After clicking upgrade below, firmware download to Utility Storage begins immediately. Installation starts on the first boot after the download has successfully completed. Installation can be initiated once the server Firmware Status is "Pending next boot" by performing a host reboot or Power Cycle of the server.

Cancel

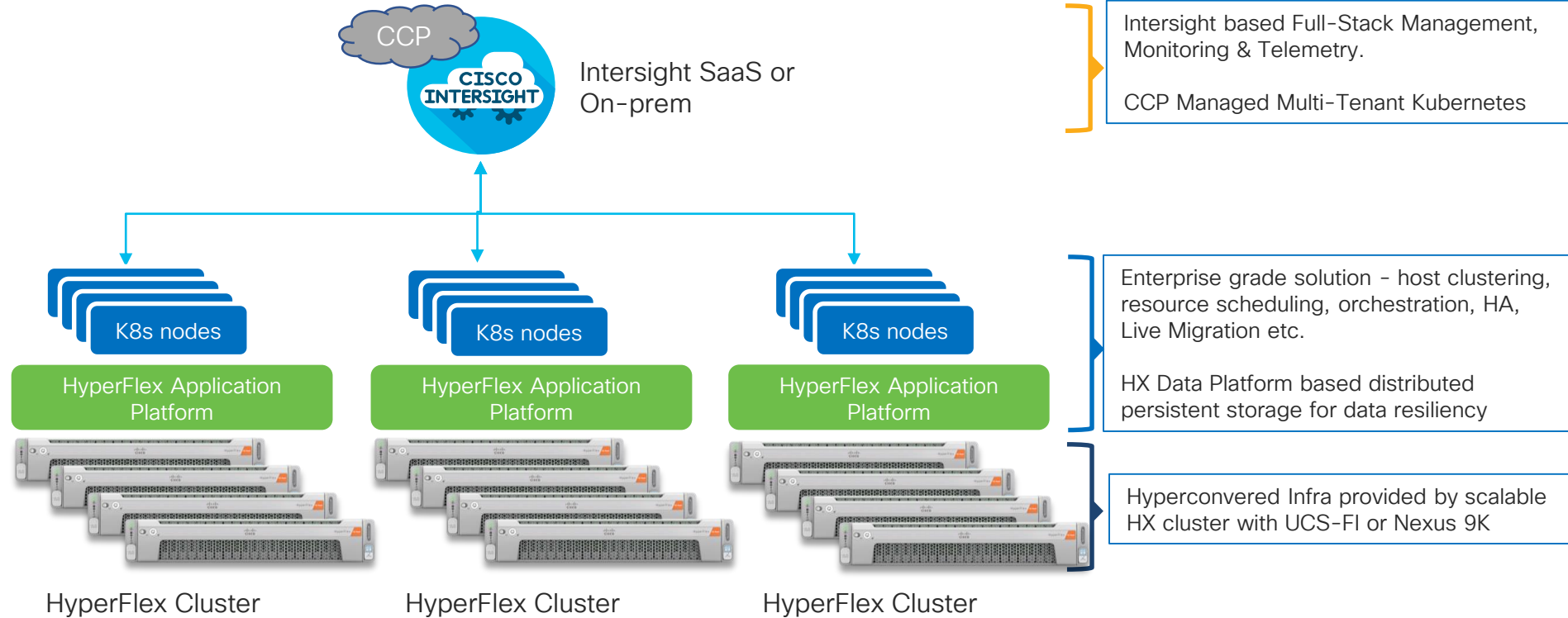
Upgrade

What's Next?

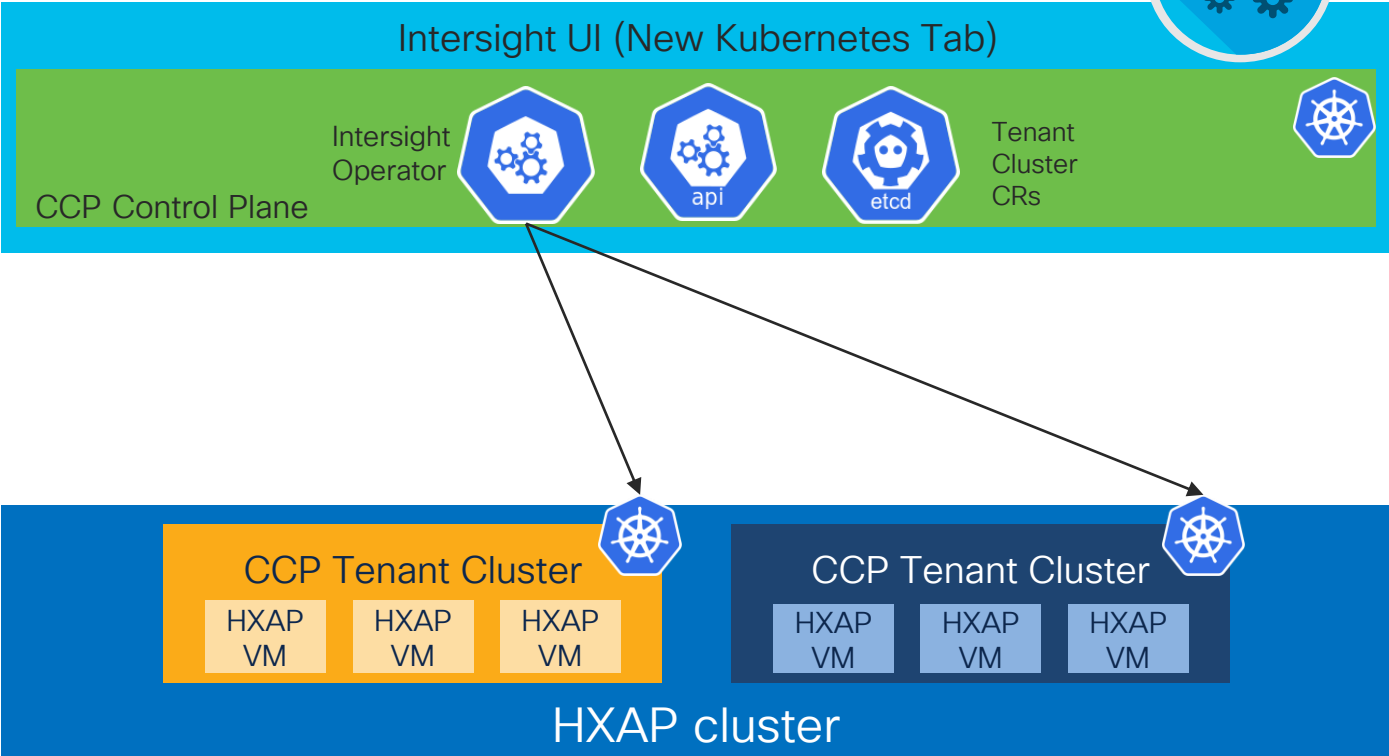


You make multi-cloud **possible**

HyperFlex Application Platform (HXAP) for Kubernetes*



CCP Control Plane in Intersight



Cisco Intersight Workload Optimizer

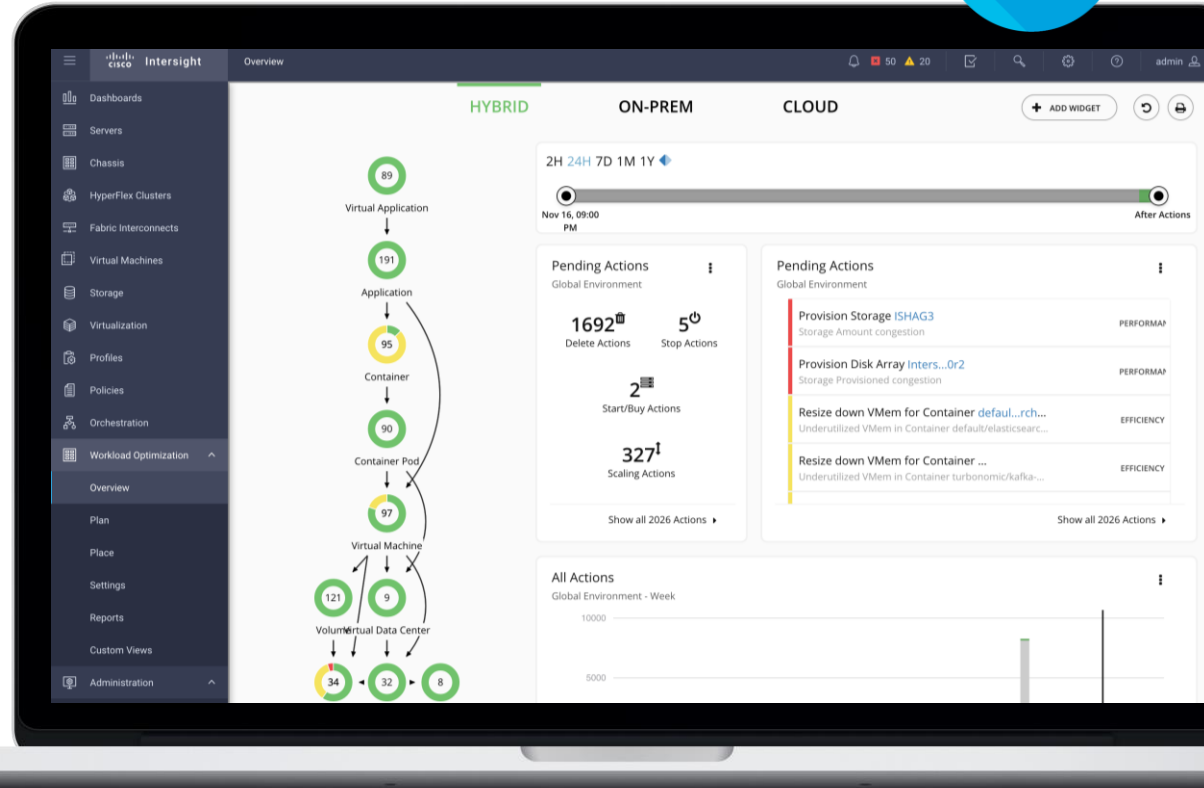


Ensure app performance
and critical digital
experiences

Understanding app resource
needs at every layer

AI-assisted analytics drive
automated resourcing decisions

Continuous optimization matches
application resource demands to
the underlying infrastructure



Intersight Workload Optimizer



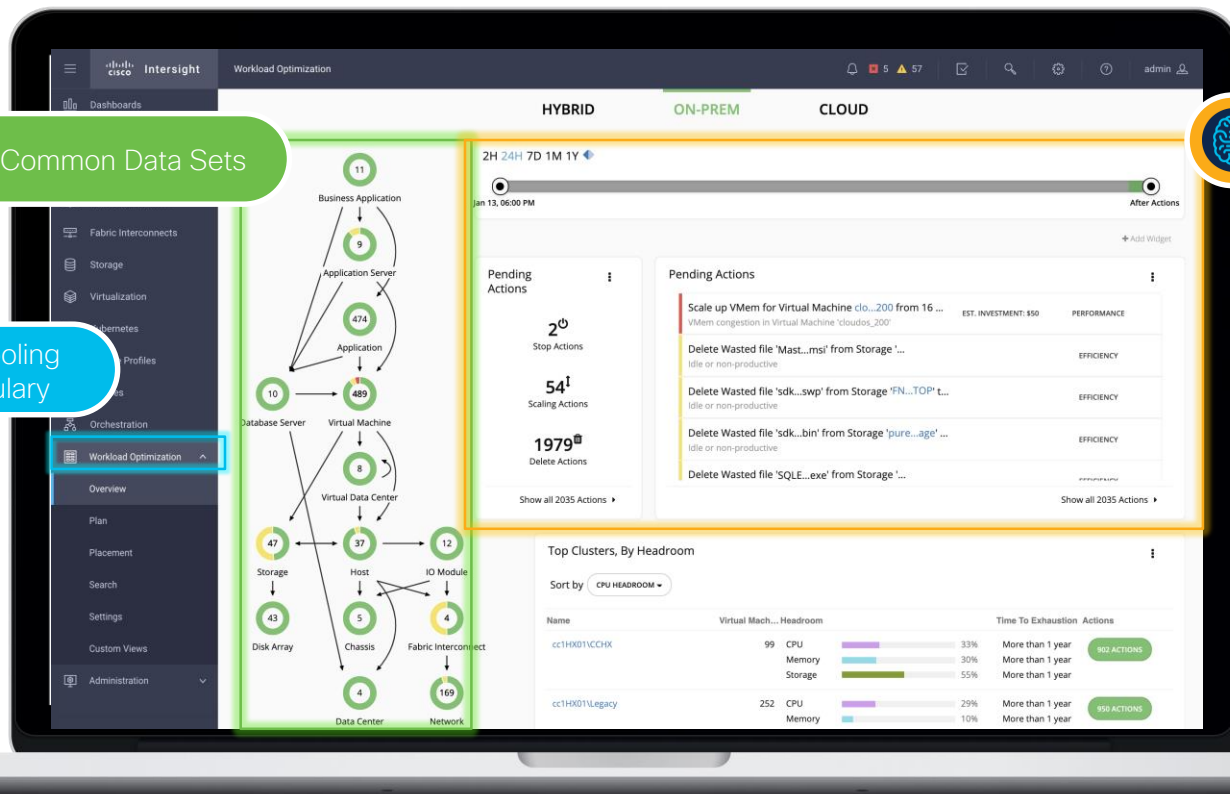
Common Data Sets



Common Tooling and Vocabulary



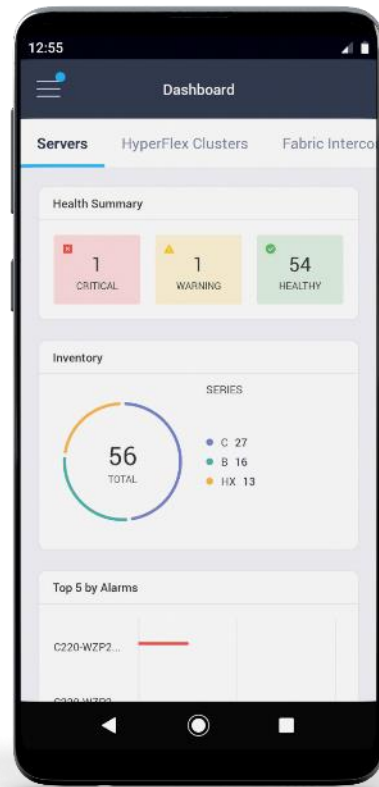
Machine Intelligence



Intersight Mobile App

- Visibility on the go
 - Multiple dashboard views
 - Available for iOS or Android
 - Free app download*
- Simple yet customized
 - Customized for user
 - Create once and propagate anywhere
- Faster time to resolution
 - Instant Alerts
 - Trigger case creation from anywhere

*Intersight Essentials edition required to claim and manage devices





Thank you

