You make **possible**

Powering Data Center Infrastructure Programmability and Automation: Cisco Intersight's API and Integrations

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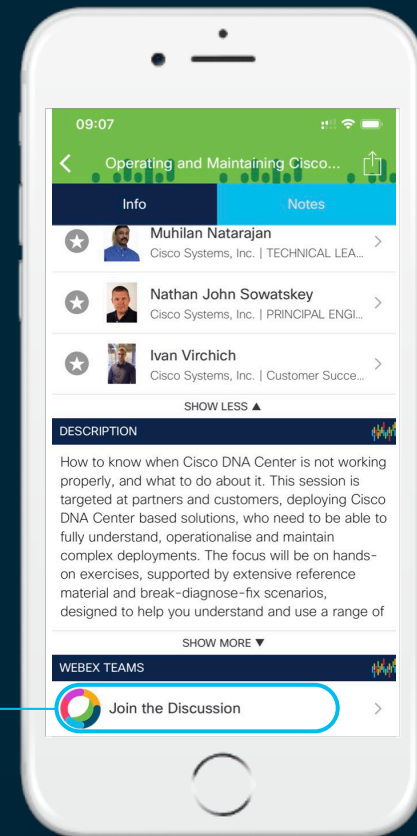DEVNET-3214

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Agenda

- Intersight Overview

- Intersight API and Developer Tools

- API Integrations

- Demo: Intersight Configuration

- Next Steps

Intersight Overview

Infrastructure Management Challenges

- How many tools/processes are needed to manage the infrastructure?

Traditional management

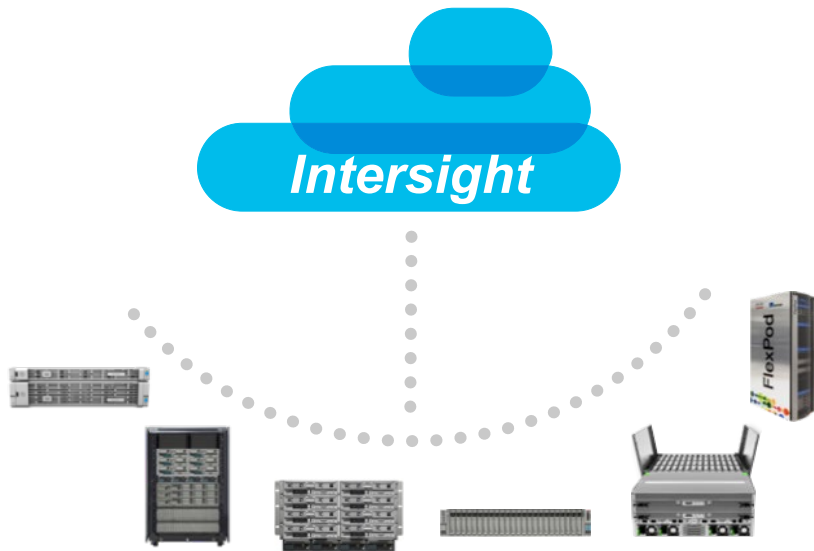"Building a monster
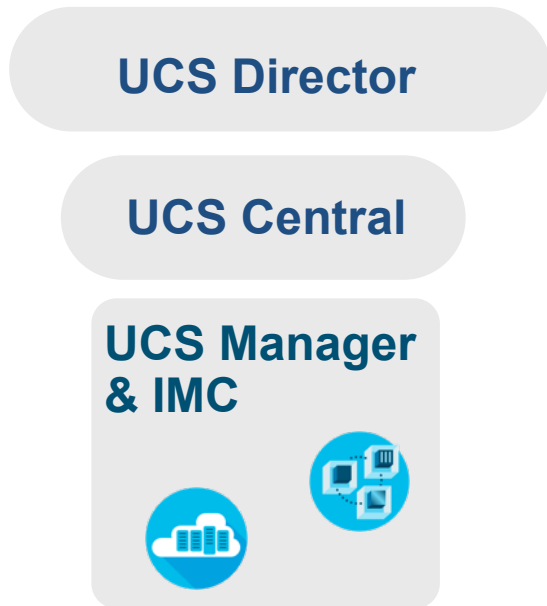to manage the monster"

UCS Today

It's not a server.   >   It's a system.

- Unified Management Plane
  - Inventory, configuration, and updates through one interface
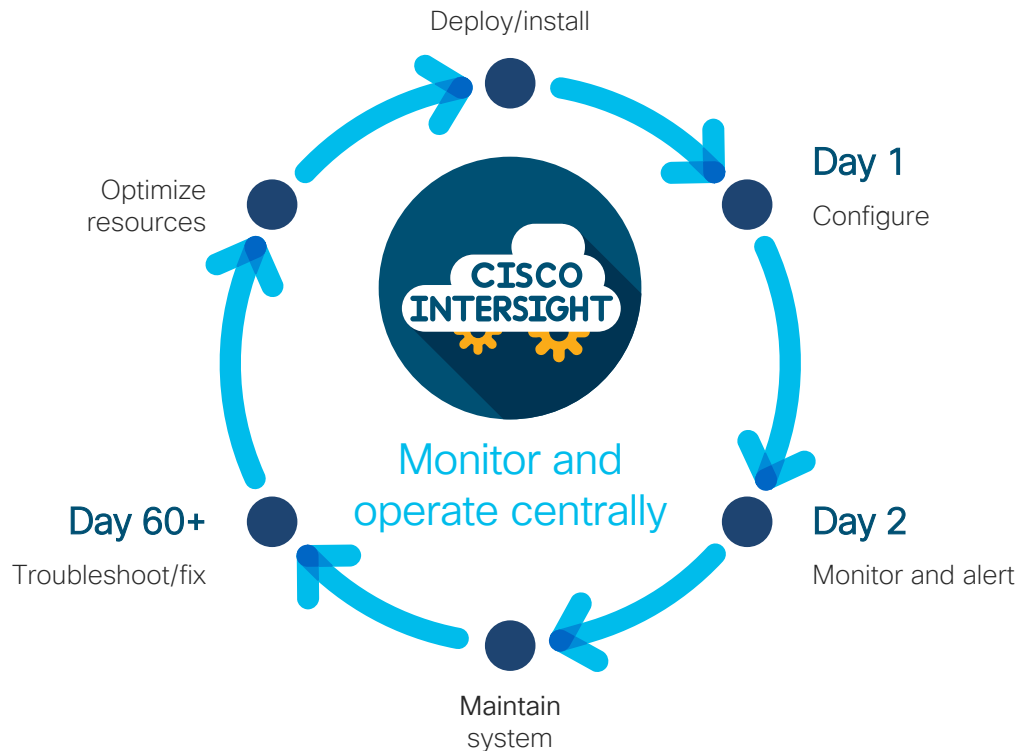- On premises tools to manage devices at scale

Cisco Intersight: Connect Everything

UCS Director

UCS Central

UCS Manager & IMC

Intersight

Cisco hosted Software as a Service

Cisco Intersight: Connect and Use the Data

Deploy/install

Day 1
Configure

Day 2
Monitor and alert

Maintain
system

Day 60+
Troubleshoot/fix

Optimize
resources

CISCO INTERSIGHT

Monitor and
operate centrally

Benefits

✓ Quicker deployment times

✓ Fewer tools

✓ Lower administration costs

✓ Lower configuration risk

✓ Faster Problem Resolution

Cisco Maintained SaaS: Not "Another Tool"

SaaS-consumption model
No care and feeding of management tools

Seamless extensibility
Across technologies and geography

Continuous feature integration
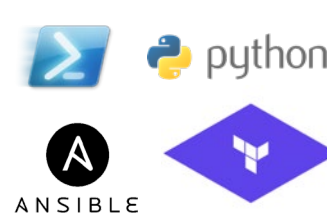Rapid development, delivery, and customer feedback

Intersight API and Developer Tools

Single API Endpoint
## Extensible Architecture for API Integrations

Inventory & Alerting

Security & Authentication

Orchestration

Intersight Portal

Open Connector Framework

Restful OpenAPI

UCS HW Connector (XML/REST)

New Connectors

(BU / Cust. / 3rd party)

Partner Developed Connectors

Cisco and 3rd Party Infrastructure
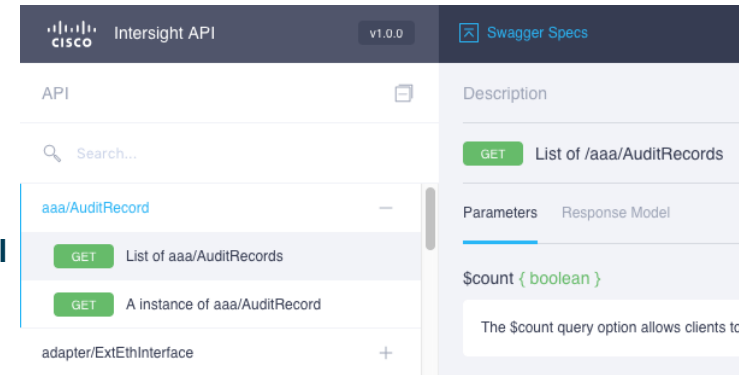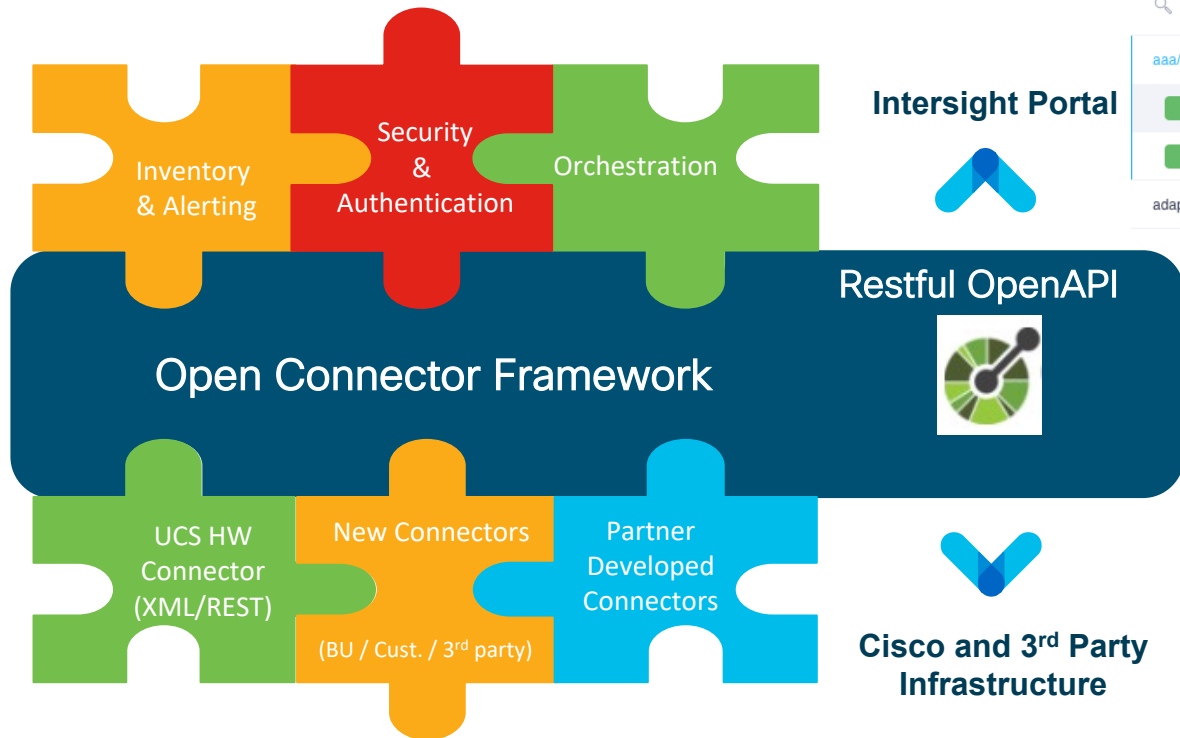
Example: Tools and SDK

API Browser and Documentation

- Your browser developer console shows how the UI uses the API
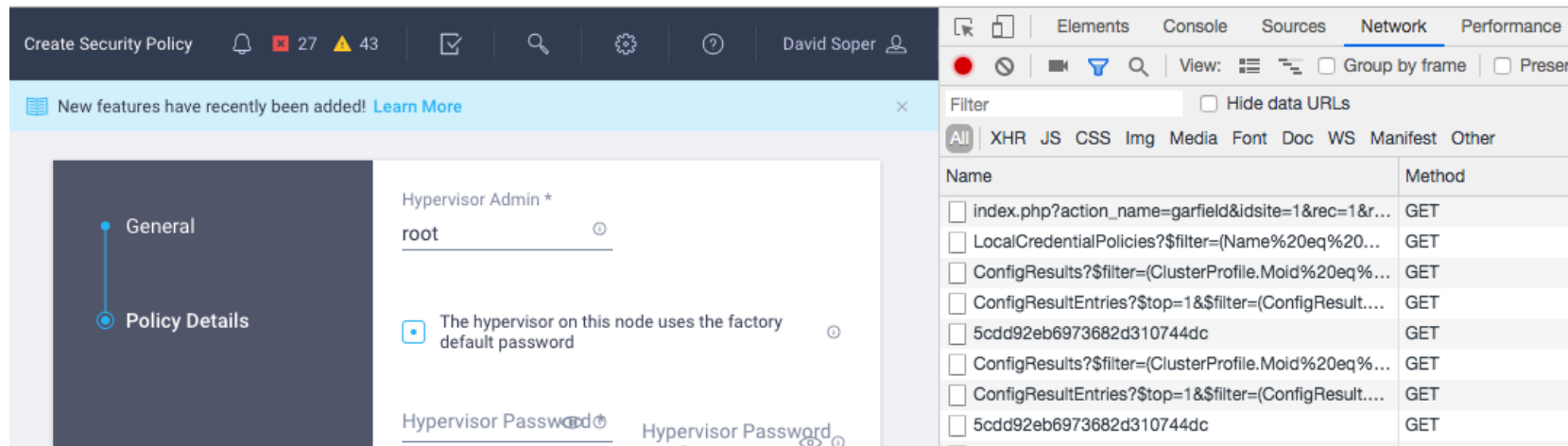
- View current configuration at https://intersight.com/mobrowser/

- Built in REST client: https://intersight.com/apidocs/

API Query Language

- Powerful Query Language
  - Filter, select, and many other operations to avoid post processing data

Intersight API Integrations

Intersight ServiceNow Application

- API access can be Read–Only
  - Additional RBAC within ServiceNow
- App Features
  - Device Inventory and Sync
  - Incident Management
    - Using alarms retrieved from Intersight
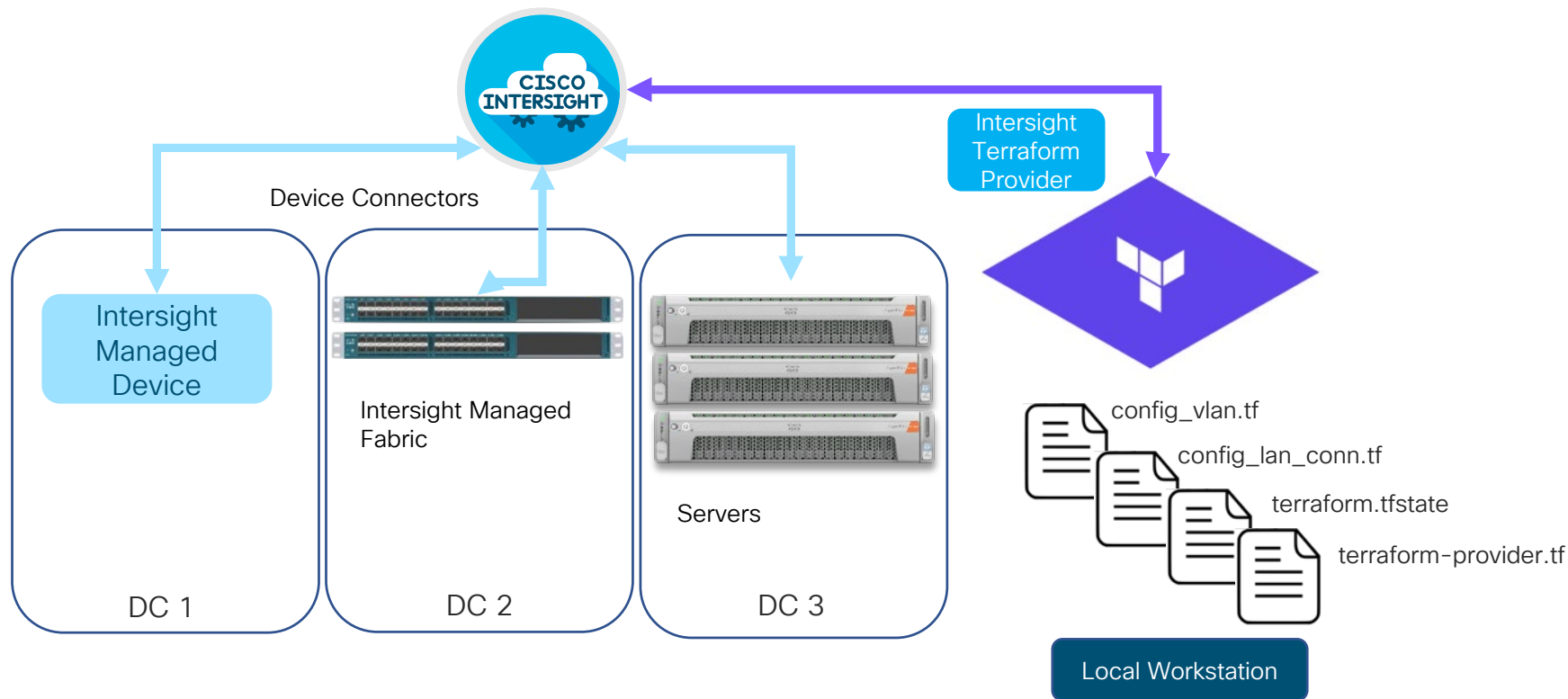 - Analysis reports and dashboards powered by ServiceNow

Inventory/Alarms

Intersight

HyperFlex

Stand–Alone
UCS C–Series

UCS Manager
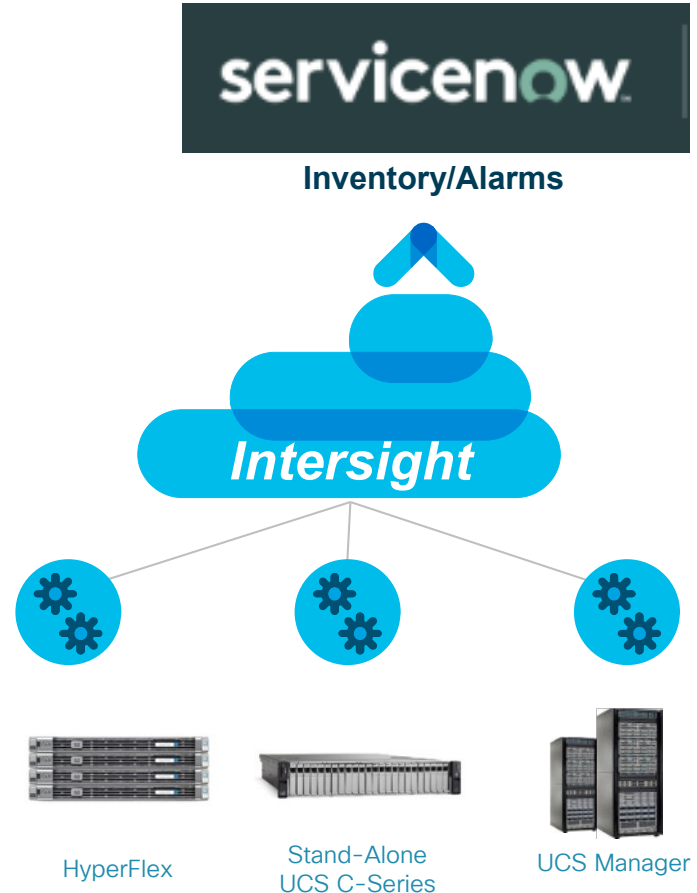
Intersight Terraform Provider

Intersight Ansible Modules

- Cisco Intersight Collection - Modules in Ansible Galaxy
  - Details at https://galaxy.ansible.com/cisco/intersight
  - install/update without requiring updates in Ansible core

        ansible-galaxy collection install cisco.intersight
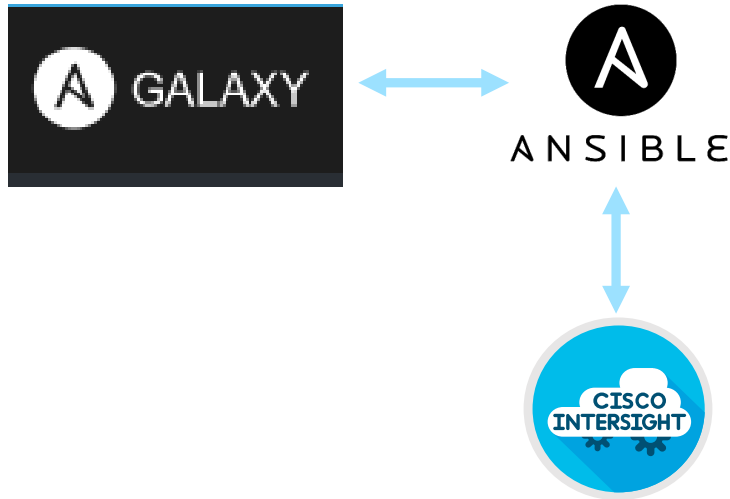
Demo: Intersight Configuration

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