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- Missing (or misplaced) required slides added:
- **Slide 1, 2 and 3 - Updated Webex slide, 23, 24 - Technical Session Survey slide, and updated # - Continue Your Education slide were added.**

Remember to run spell check on your presentation.

Delete this green note after review (but don't delete the entire slide!).





The bridge to possible

Do great things with Red Hat and Cisco

Network automation and much more

Sean Cavanaugh - Ansible TME

@IPvSean

CNCATO-1004

CISCO *Live!*

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Cisco Webex App

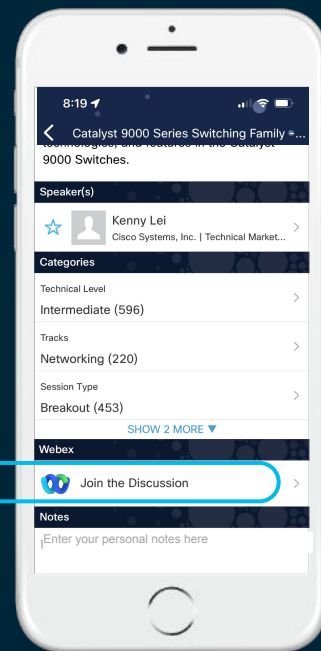
Questions?

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 17, 2022.



<https://ciscolive.ciscoevents.com/ciscolivebot/#CNCATO-1004>



Agenda

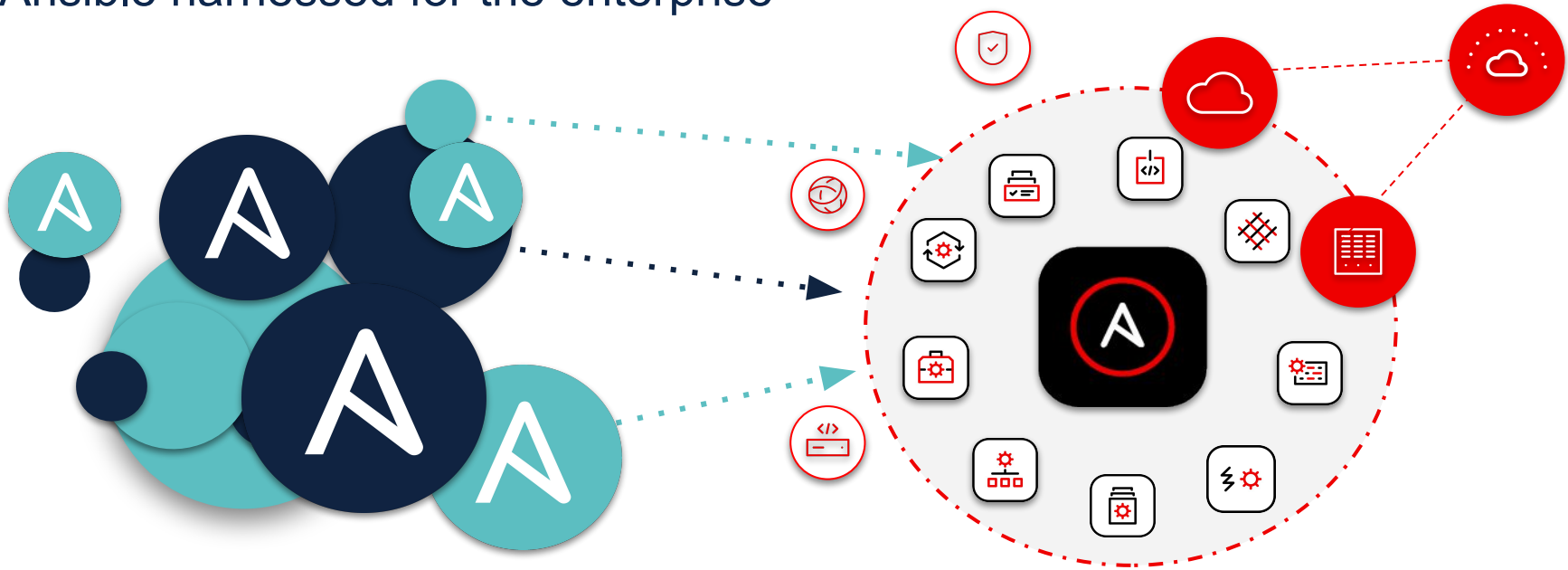
- Ansible vs Ansible Automation Platform
- What is Ansible Network Automation?
- What can I do with it?
- Where do I go next?!

Ansible is the leading open source automation project



- ▶ Ansible is popular and widely adopted; it is the **de facto automation standard**.
- ▶ It is one of the **top ten open source projects** in the world.
- ▶ Ansible skills are in high demand and it is a **technology that top tech talent wants to use**.

Ansible harnessed for the enterprise



- ▶ Ansible Automation Platform forges open innovation into a **single, secure solution**.
- ▶ It's engineered by **enterprise experts at Red Hat**, and backed by world-class services and support.
- ▶ It's designed to let customers deploy enterprise-grade **automation anywhere**, from the datacenter, across clouds and to the edge.

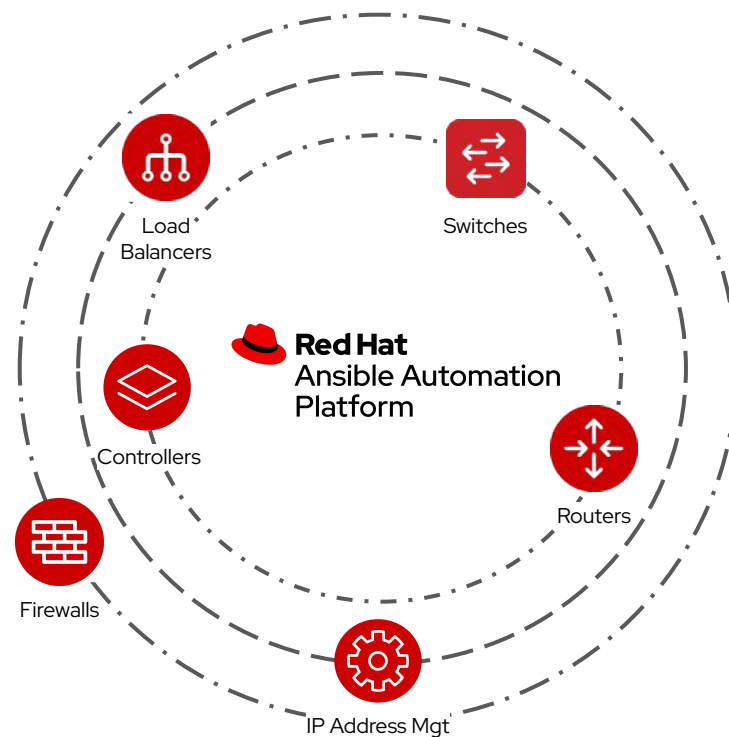
What is Ansible

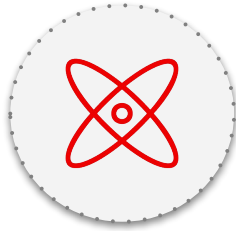
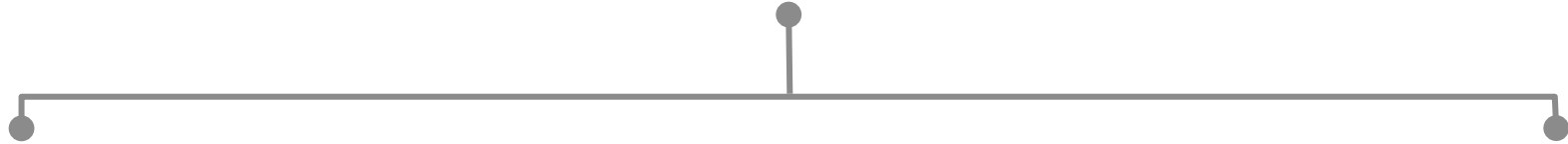
Network

Security

Edge

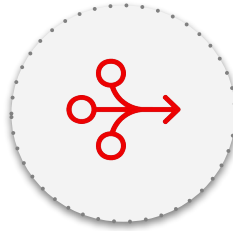
Automation?





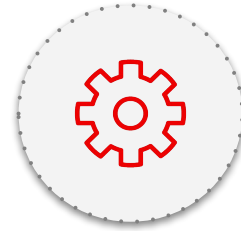
Powerful

Numerous use cases covered
by resource modules



Simple

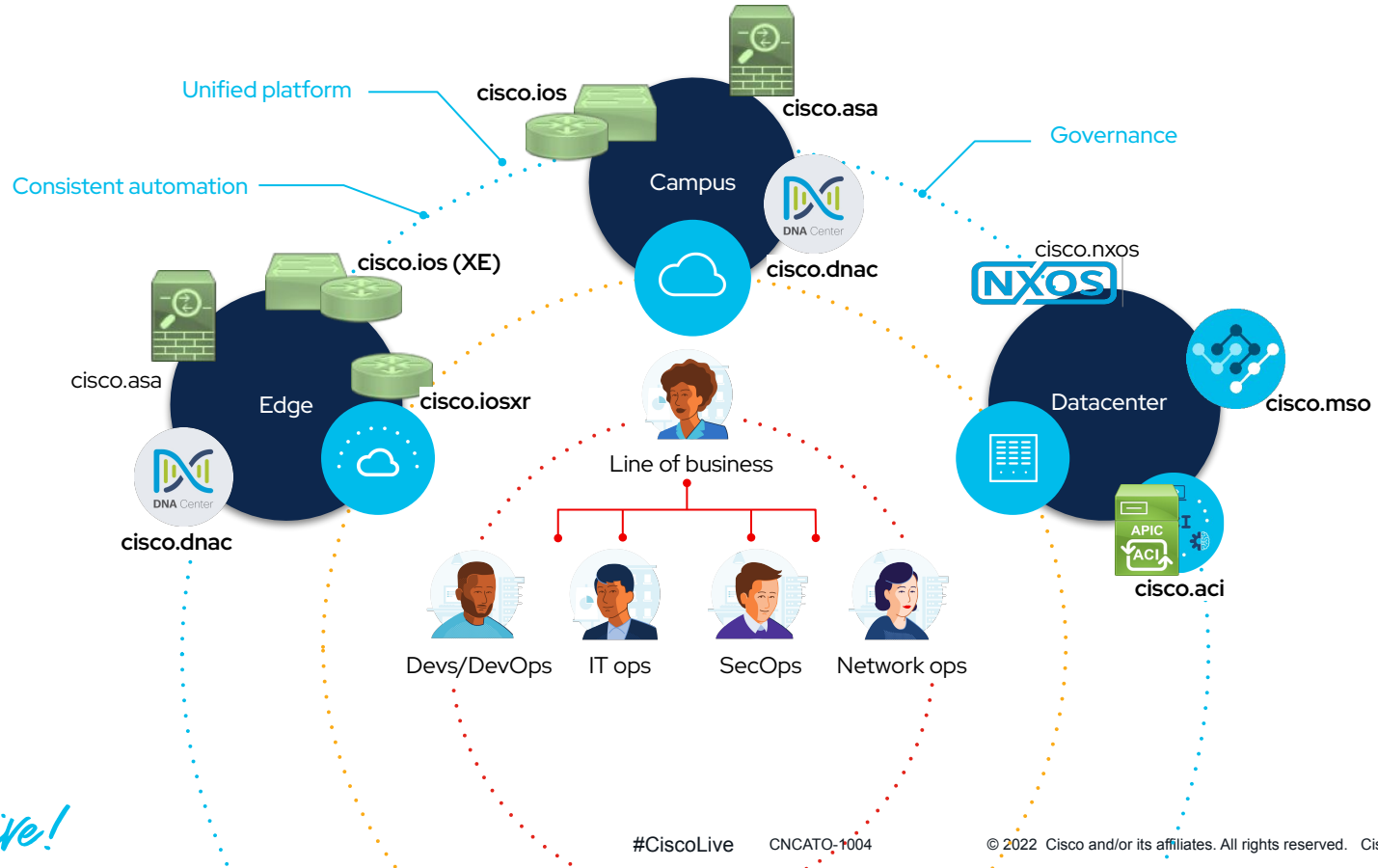
Network engineers don't need
to learn to program



Agentless

Easily integrate with
all Cisco network devices.

Cisco Certified Collections across domains



```
---
- name: configure VLANs
  hosts: cisco
  gather_facts: false
  tasks:
    - name: VLANs task
      cisco.nxos.vlans:
        config:
          - vlan_id: 5
            name: WEB
          - vlan_id: 10
```

What are facts?

Structured data, the Ansible way

```
cisco# show version
Cisco IOS XE Software, Version 16.09.02
Cisco IOS Software [Fuji], Virtual XE
Software (X86_64_LINUX_IOSD-UNIVERSALK9-M),
Version 16.9.2, RELEASE SOFTWARE (fc4)
Technical Support:
http://www.cisco.com/techsupport
Copyright (c) 1986-2018 by Cisco Systems,
Inc.
```

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Cisco IOS output

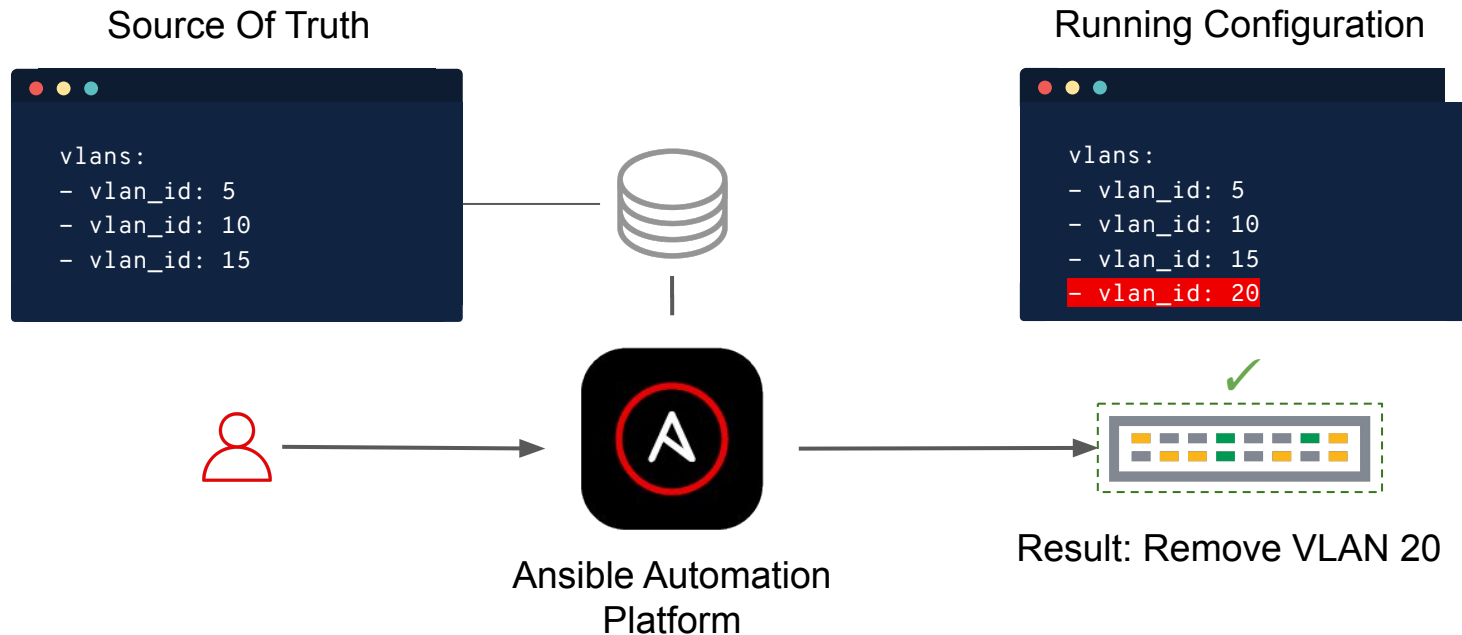
```
cisco# ansible -m ios_facts cisco
cisco | SUCCESS => {
  "ansible_facts": {
    "ansible_net_iostype": "IOS-XE",
    "ansible_net_version": "16.09.02",
    "ansible_net_serialnum":
      "9L8KQ482JFZ",
    "ansible_net_model": "CSR1000V",
```

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Ansible output

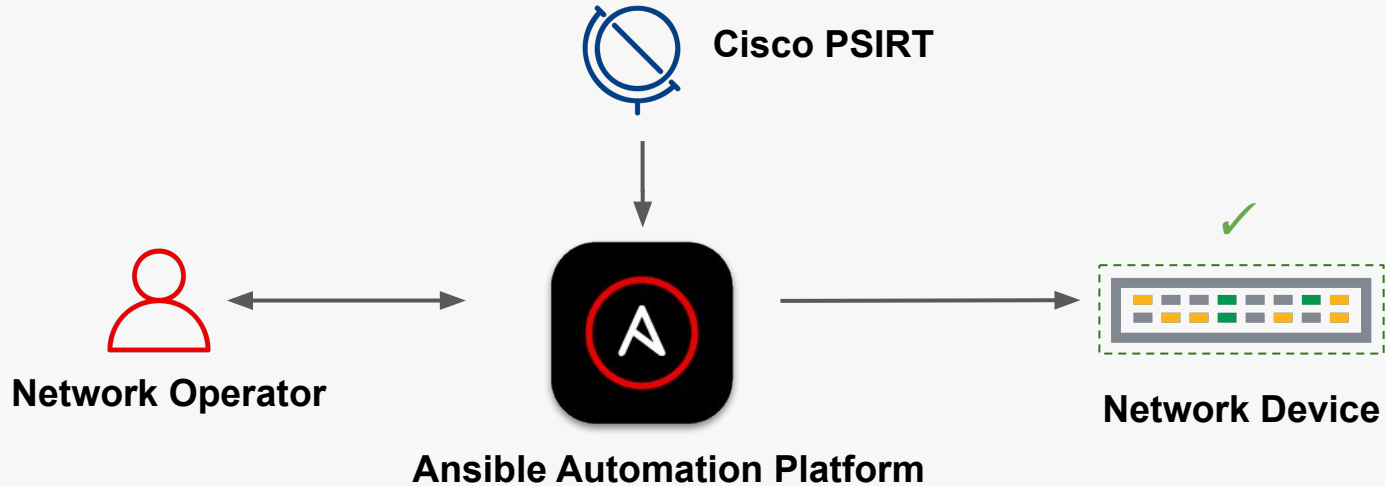
Enforce Configuration Policy

Keep your network in a predictable steady state



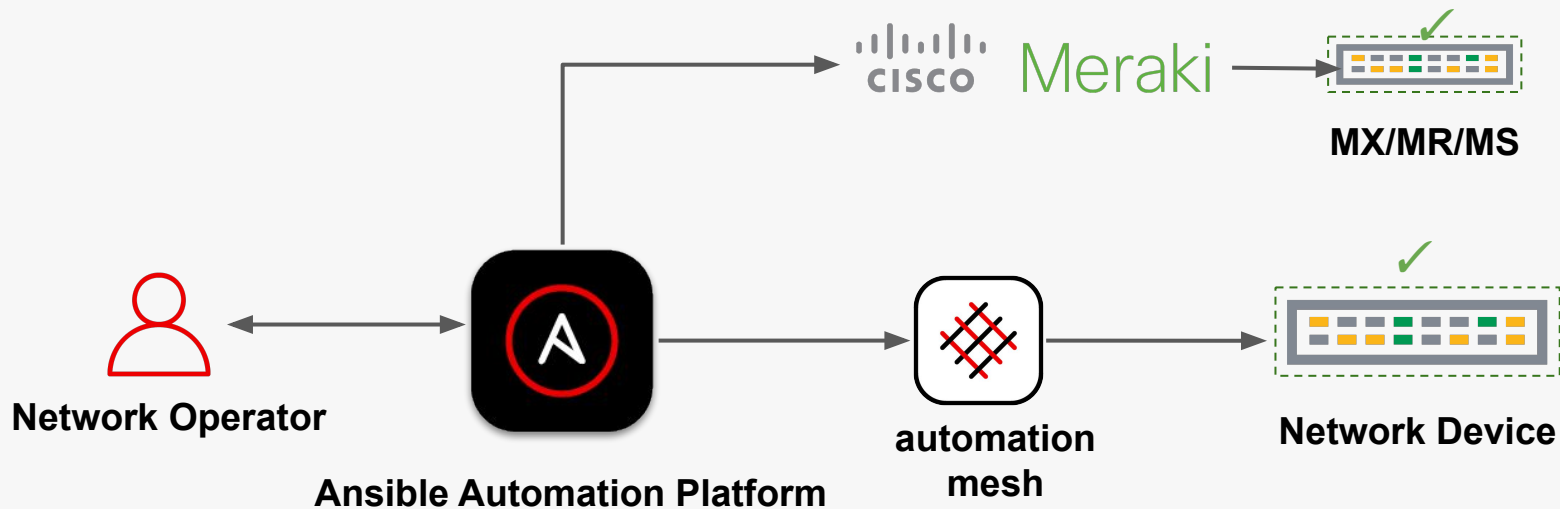
Mitigate Network Vulnerabilities

Respond to vendor Security Advisories, CVEs, CWE, CVSS, CVRF



Automate Hybrid Networks at the Edge

Configure traditional WAN and SD-WAN

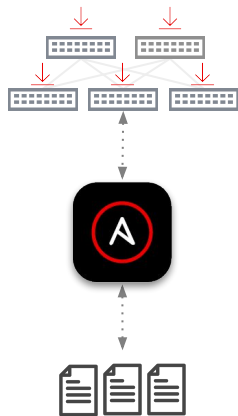


The flexibility to scale, **wherever that may be**



Start small

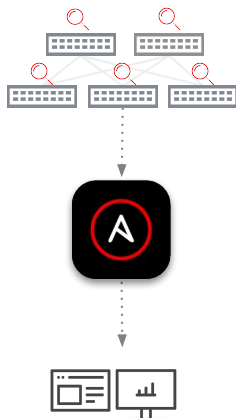
Quick automation victories for network engineers



Config Backup and Restore

Ubiquitous first touch use case

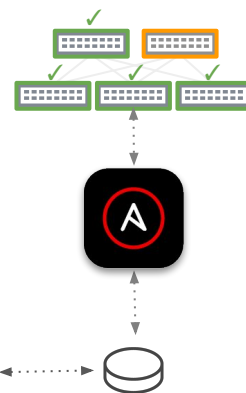
- Gain confidence in automation quickly
- First steps towards network as code
- Quickly recover network steady state



Dynamic Documentation

Use Ansible facts to gain information

- Read-only, no production config change
- Dynamic Documentation and reporting
- Understand your network



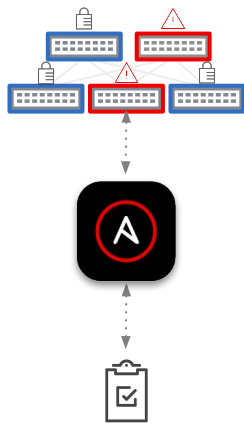
Scoped Config Management

Focus on high yield victories

- Automate VLANs, ACLs and SNMP config
- Introduce source of truth concepts
- Enforce Configuration policy

Think BIG

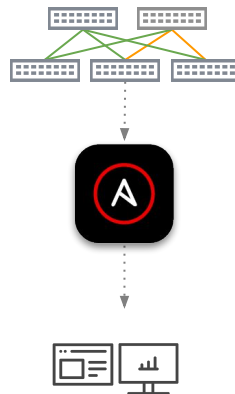
Institutionalizing automation into your organization



Network Compliance

Respond quickly and consistently

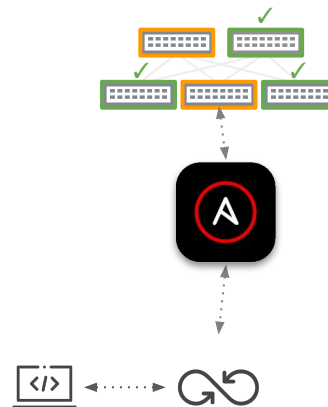
- Security and config compliance for network
- Remove human error from security responses
- Enforce Configuration policies and hardening



Operational State Validation

Going beyond config management

- Parsing operational state to structured values
- Schema validation and verification
- Enhance operational workflows



Automated NetOps

Infrastructure as code

- Data centric automation
- Deploy configuration pipelines
- GitOps for Network Automation

Content creation tools



Ansible content tools



Execution environment builder



Automation content navigator



Ansible Content Collections



Execution
environments

Operational tools



Private automation hub



Automation controller



Automation mesh



Platform Operators

Business Tools and Analytics



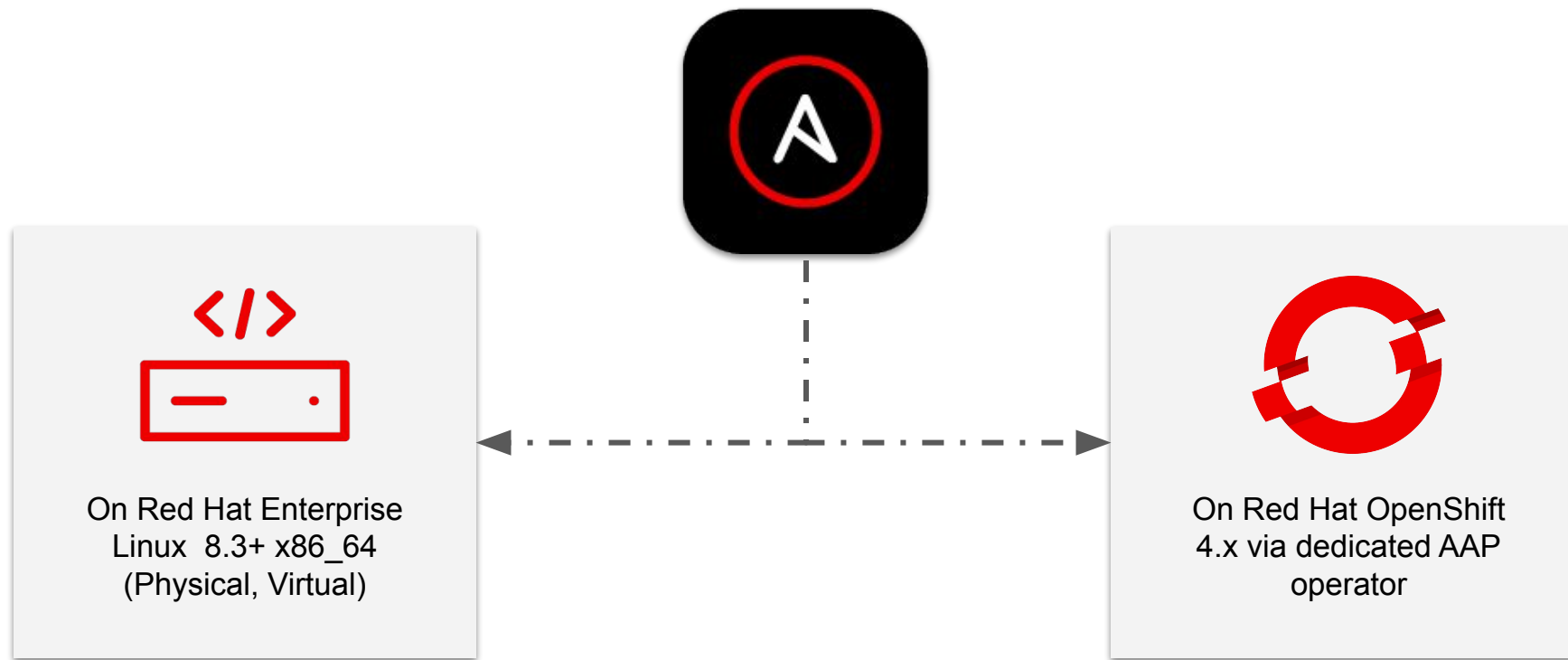
Red Hat Insights for Ansible



Automation services catalog

AAP2 installation methods

Ansible Automation Platform 2





Push button

An intuitive user interface experience makes it easy for novice users to execute playbooks you allow them access to.

RESTful API

With an API first mentality every feature and function of controller can be API driven. Allow seamless integration with other tools like ServiceNow and Infoblox.

RBAC

Allow restricting playbook access to authorized users. One team can use playbooks in check mode (read-only) while others have full administrative abilities.

Enterprise integrations

Integrate with enterprise authentication like TACACS+, RADIUS, Azure AD. Setup token authentication with OAuth 2. Setup notifications with PagerDuty, Slack and Twilio.

Centralized logging

All automation activity is securely logged. Who ran it, how they customized it, what it did, where it happened - all securely stored and viewable later, or exported through Automation controllers API.

Workflows

Automation controller's multi-playbook workflows chain any number of playbooks, regardless of whether they use different inventories, run as different users, run at once or utilize different credentials.

Innovate with Red Hat and Cisco

Learn more about our joint solutions at our booth

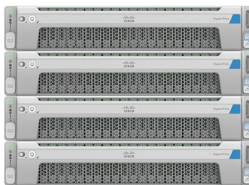
 **Red Hat**
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Data Foundation



Cisco UCS X-Series

Storage

 **Red Hat**
OpenShift



Cisco HX-Series

**Hyperconverged
infrastructure**

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OpenShift



Cisco SFCN

**Cloud native
firewall**



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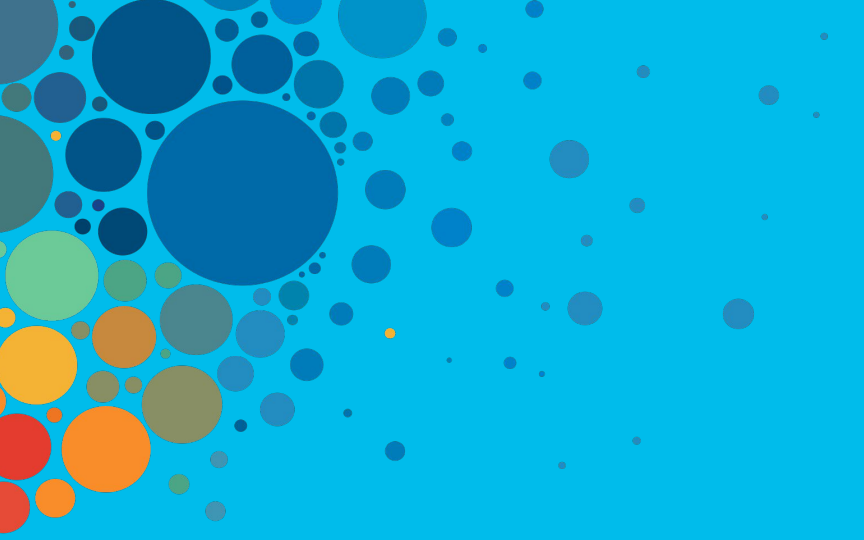


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- Attendees who fill out a minimum of four session surveys and the overall event survey will get Cisco Live branded socks!
- Attendees will also earn 100 points in the Cisco Live Game for every survey completed.
- These points help you get on the leaderboard and increase your chances of winning daily and grand prizes.





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- 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



The bridge to possible

Thank you

CISCO *Live!*



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Best practices for creating slides

- Please only use slide 1, 2, 5 and 6. 1 & 2 are opening slides and 5 & 6 are closing slides.
- Your presentation will be saved and posted as a PDF, so what you see onscreen in Normal Mode is how the PDF will appear.
- Split up a series of animations over several slides so key information is not hidden when saved as a PDF. Include a final slide with all elements in place.

Seven tips for better presentations

1. Tell a story—make them care
2. Start with what's most important to them
3. Keep it simple, and short
4. Use more slides with less on them, and cut any slides that you can
5. Use clear, natural language
6. Make it a conversation and leave time to listen
7. Tell them what to do next—get them to act