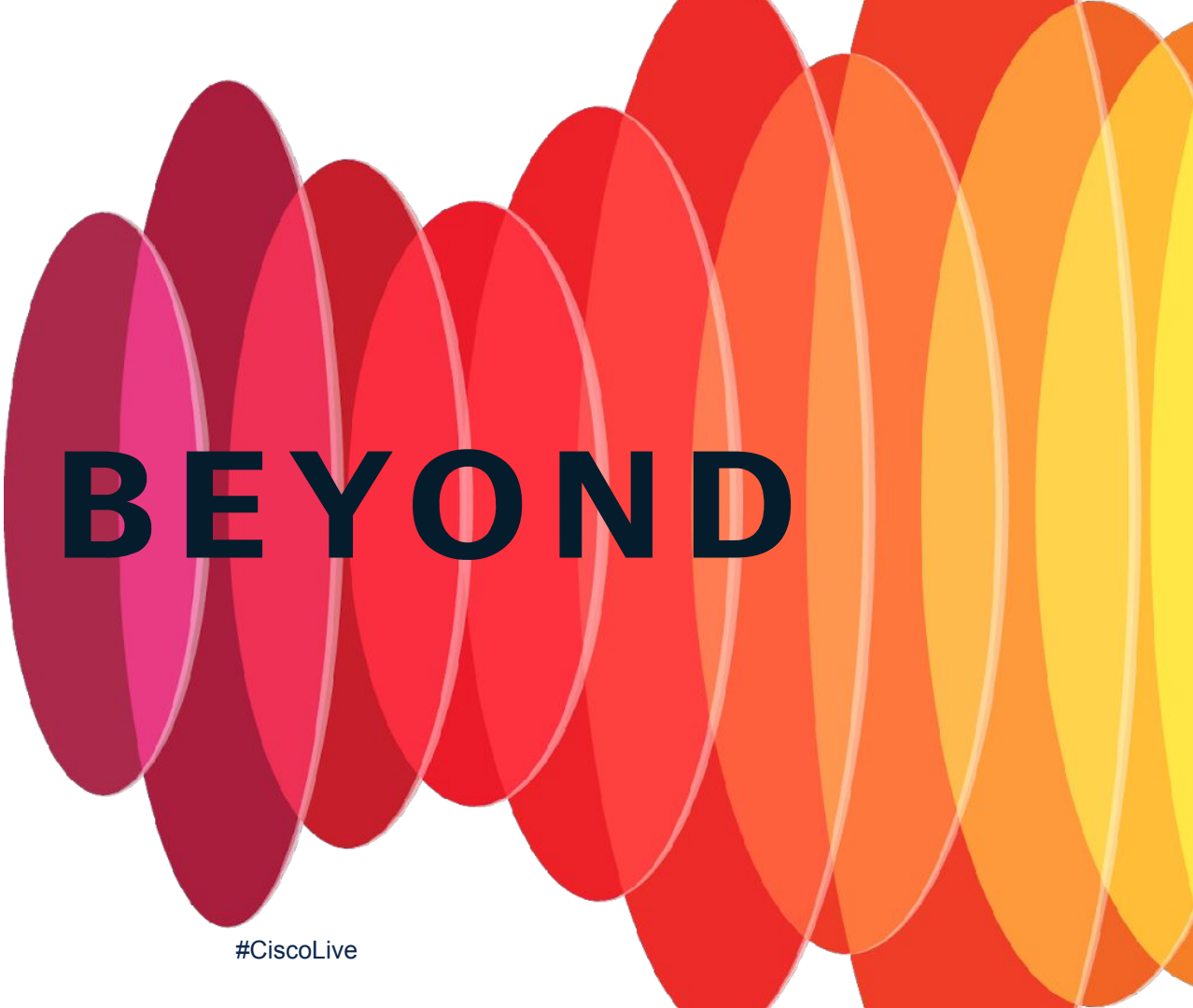


CISCO *Live!*



GO BEYOND

#CiscoLive



The bridge to possible

Do great things with Red Hat and Cisco

Automate, manage, and operationalize networks & AI workloads

Sean Cavanaugh - Tech Marketing

Red Hat

@IPvSean

CNCDN-1016

CISCO *Live!*

#CiscoLive



Cisco Webex App

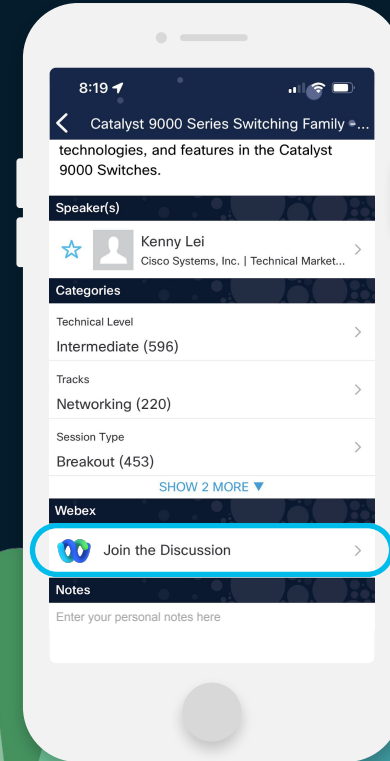
Questions?

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 7, 2024.





Who am I?

Work History:

Red Hat	2017-Now
Cumulus Networks	2014-2017
Cisco Systems	2010-2014

Personal

Live with my wife, three kids, one border collie and two cats in Chapel Hill, North Carolina

Hobbies

Home automation, electric bikes, soccer, Y-Guides, piano, 5Ks



Agenda

- Red Hat Company Overview
- Red Hat Portfolio
- Ansible Automation Platform
- Next Steps

Company Overview



Red Hat

The world's leading provider of open source enterprise IT solutions

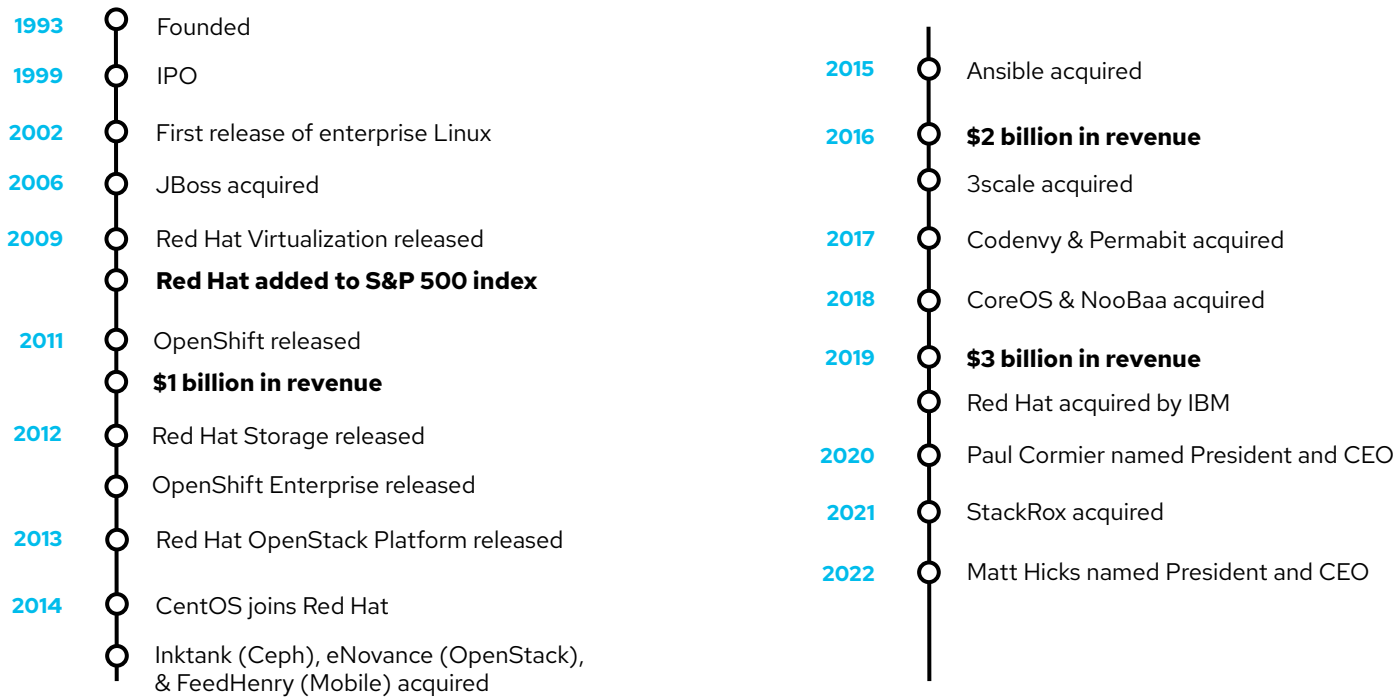
More than
90%
of the
Fortune
500
use
Red Hat
products and
solutions¹

~**22,000**
employees

105+
offices

The first
\$3
billion
open
source
company
in the world²

How we got here





100%

of U.S. airlines in the
Fortune 500
rely on Red Hat



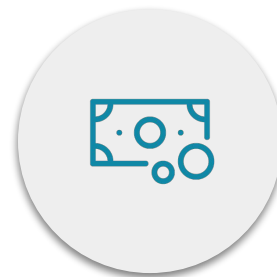
100%

of U.S. Executive
Departments
rely on Red Hat



100%

of U.S.
telecommunications
companies in the Fortune
500 rely on Red Hat



100%

of U.S. commercial banks
in the Fortune 500
rely on Red Hat

Our customers around the world

North America

zoom

verizon✓

Europe / Middle East / Africa

SIEMENS
Ingenuity for life

AIRBUS

Asia Pacific

airtel

AIA
HEALTHIER, LONGER,
BETTER LIVES

Latin America

Telefónica

Banco
ORIGINAL

Our customers by industry

Financial services



Telecommunications



Oil and gas



Manufacturing



Government



Healthcare



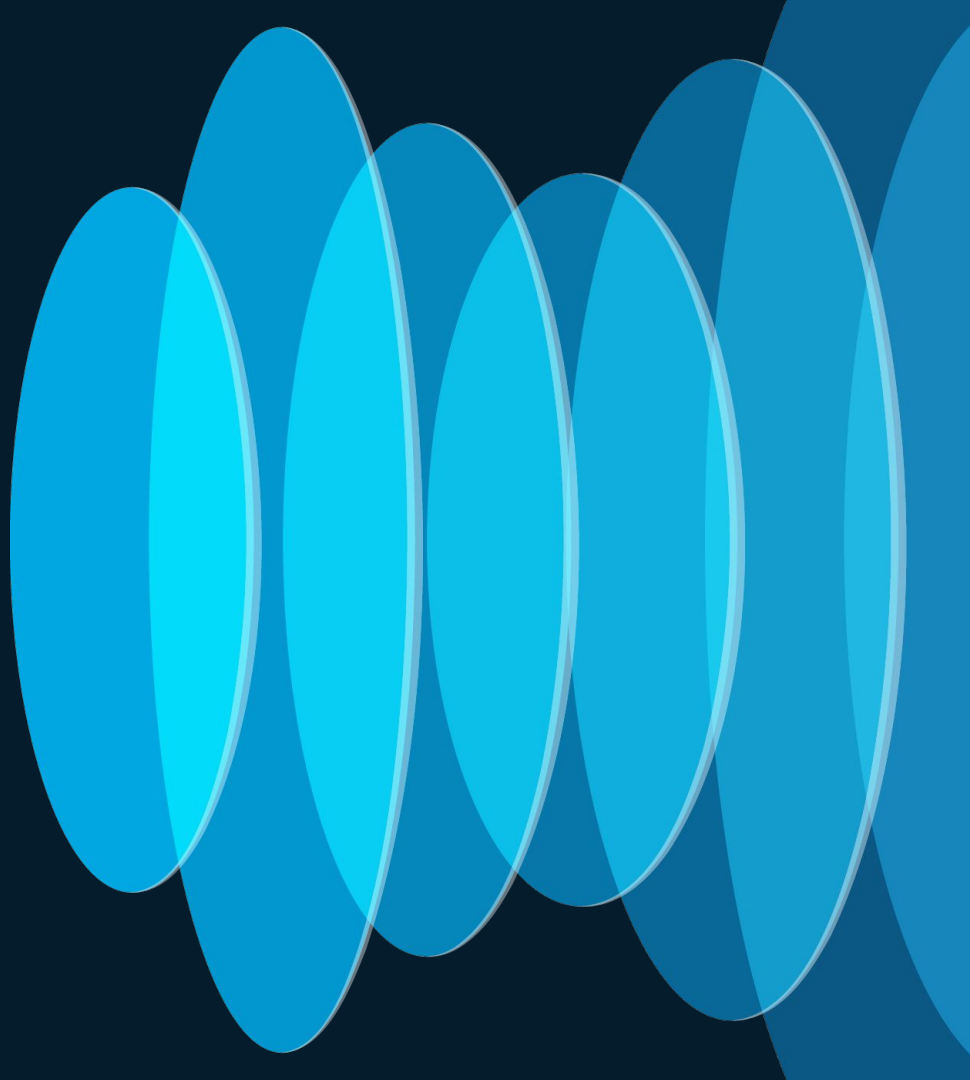
Transportation



Retail



Red Hat Portfolio



Cloud solutions that never clock out



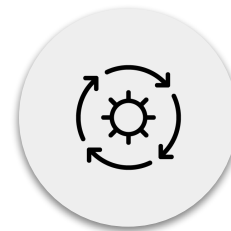
Infrastructure

Build the foundation for the future, while managing costs to speed progress



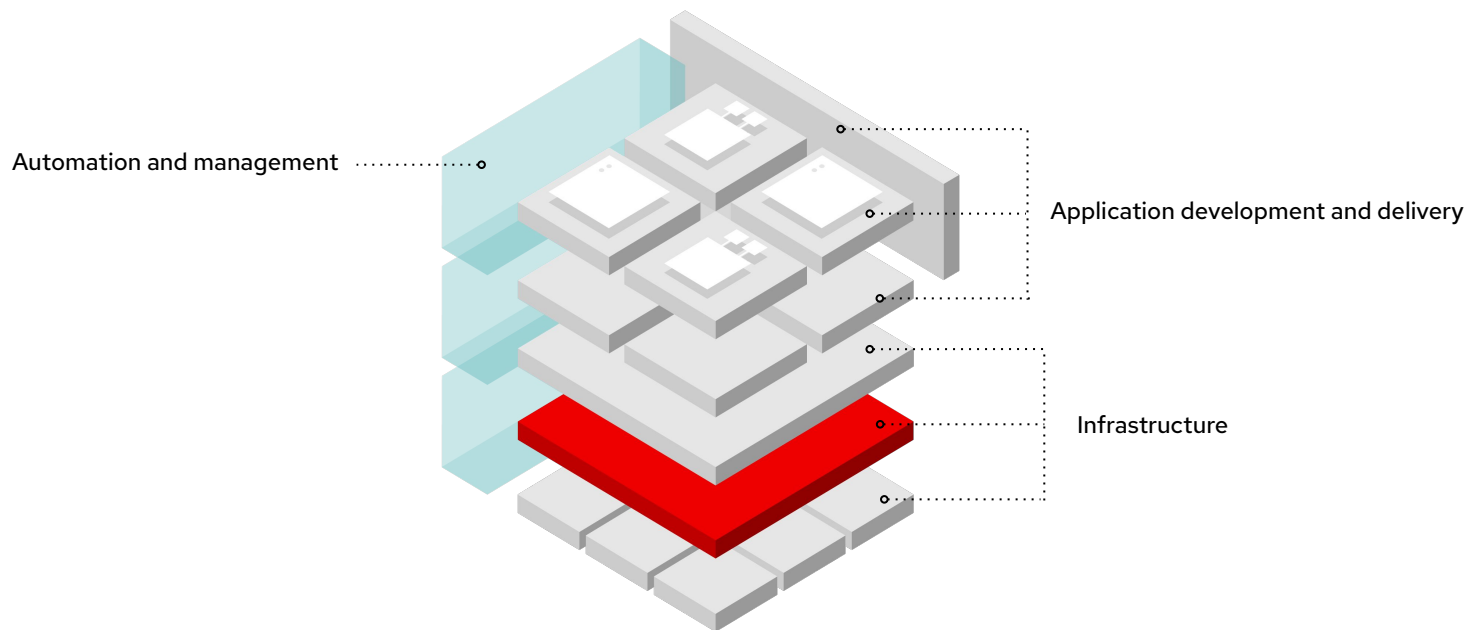
Application development and delivery

Accelerate application development, innovation, and delivery

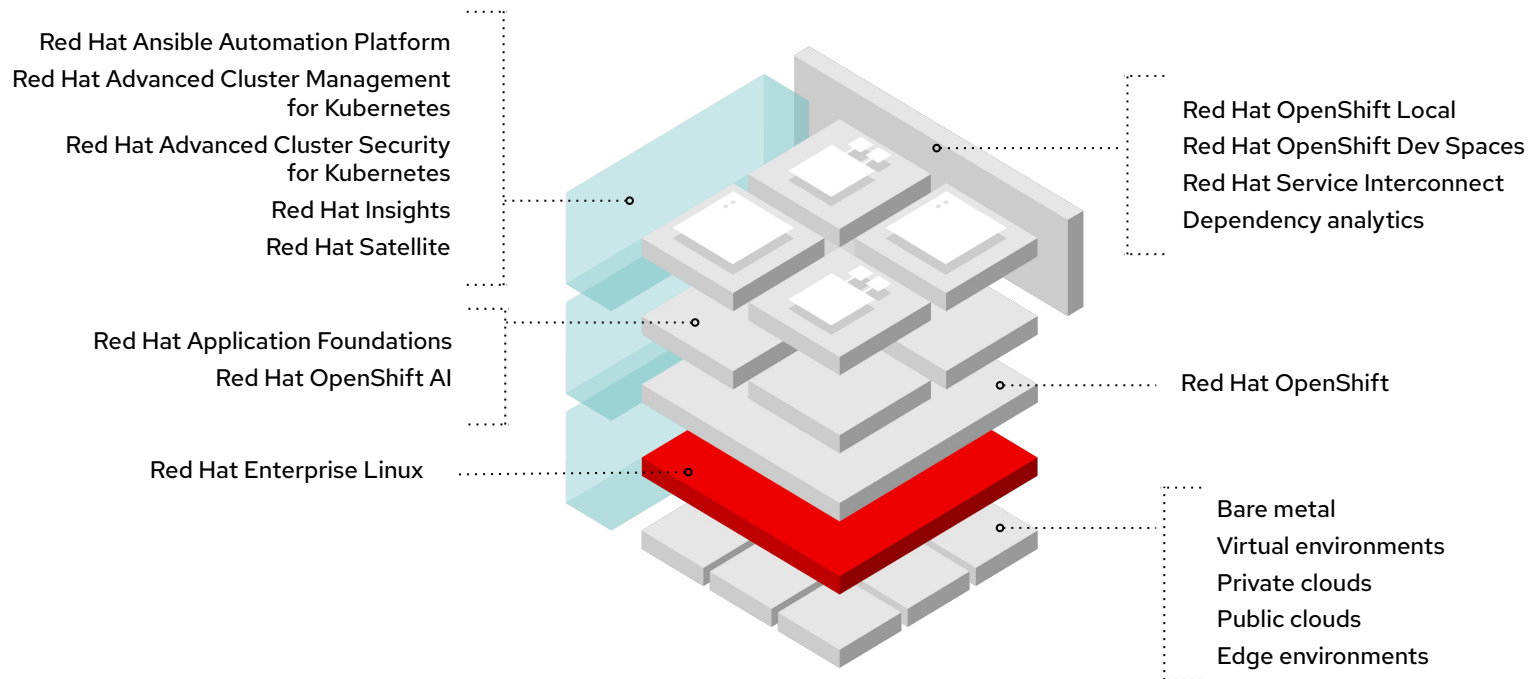


Automation and management

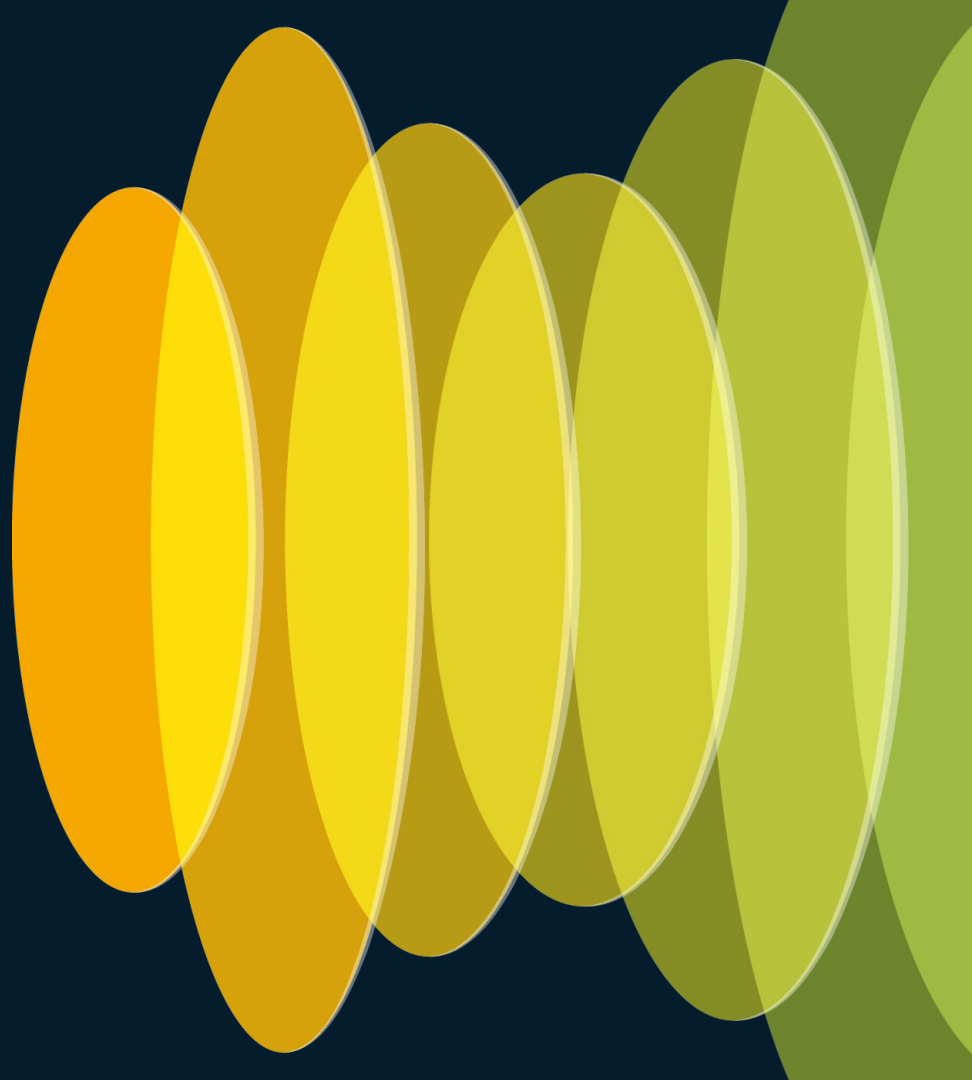
Automate infrastructure and applications so you can do more without sacrificing stability



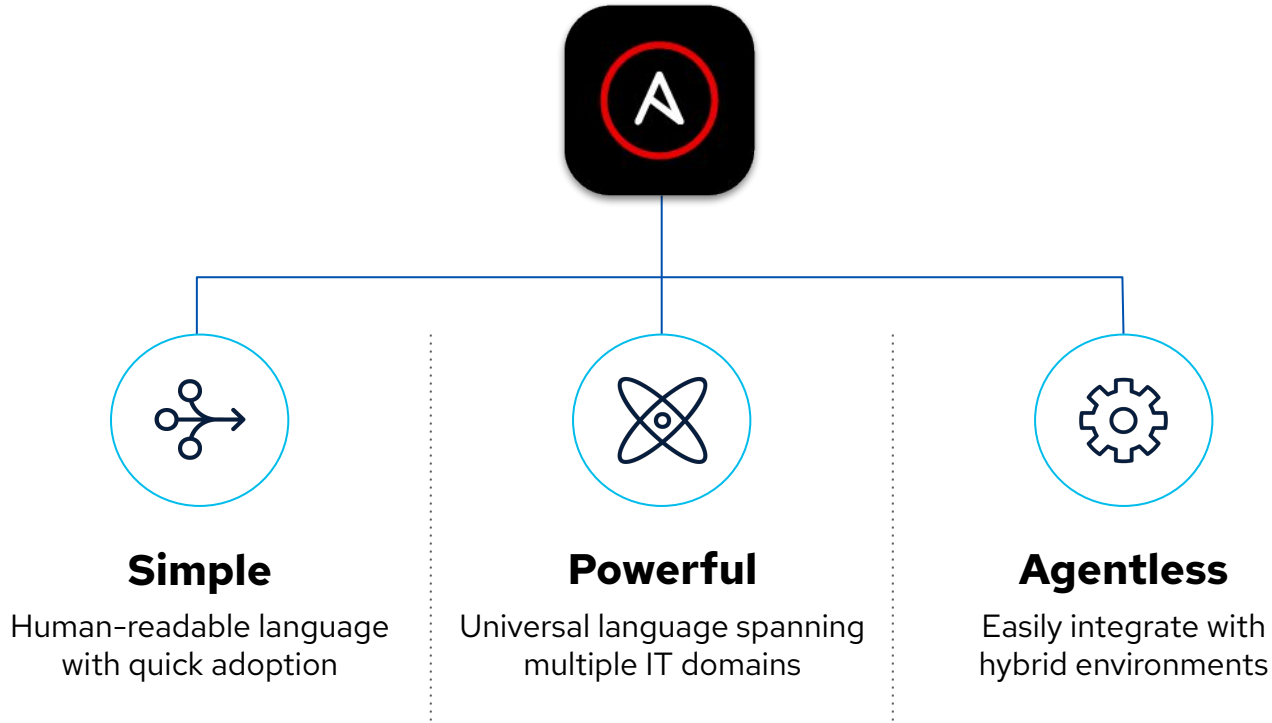
Our broad portfolio tackles customer challenges



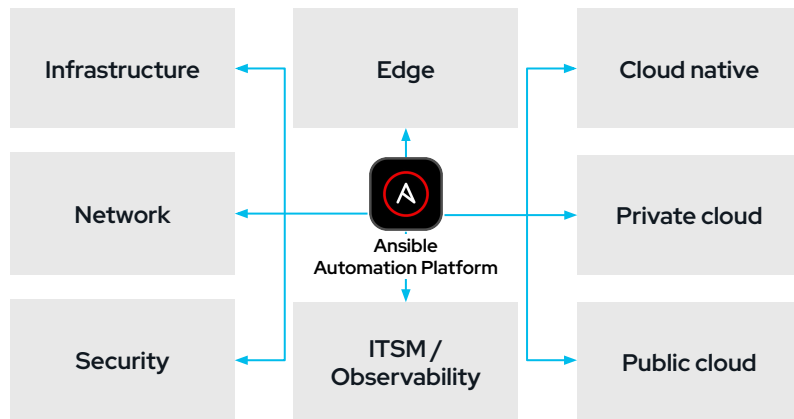
Ansible Automation Platform



Ansible is the **de facto automation language**.



Collaborative automation across your ecosystem



Red Hat Ansible network ecosystem



Switches



Routers



Firewalls



Load
balancers



Controllers



Network
management



IPAM



ARISTA



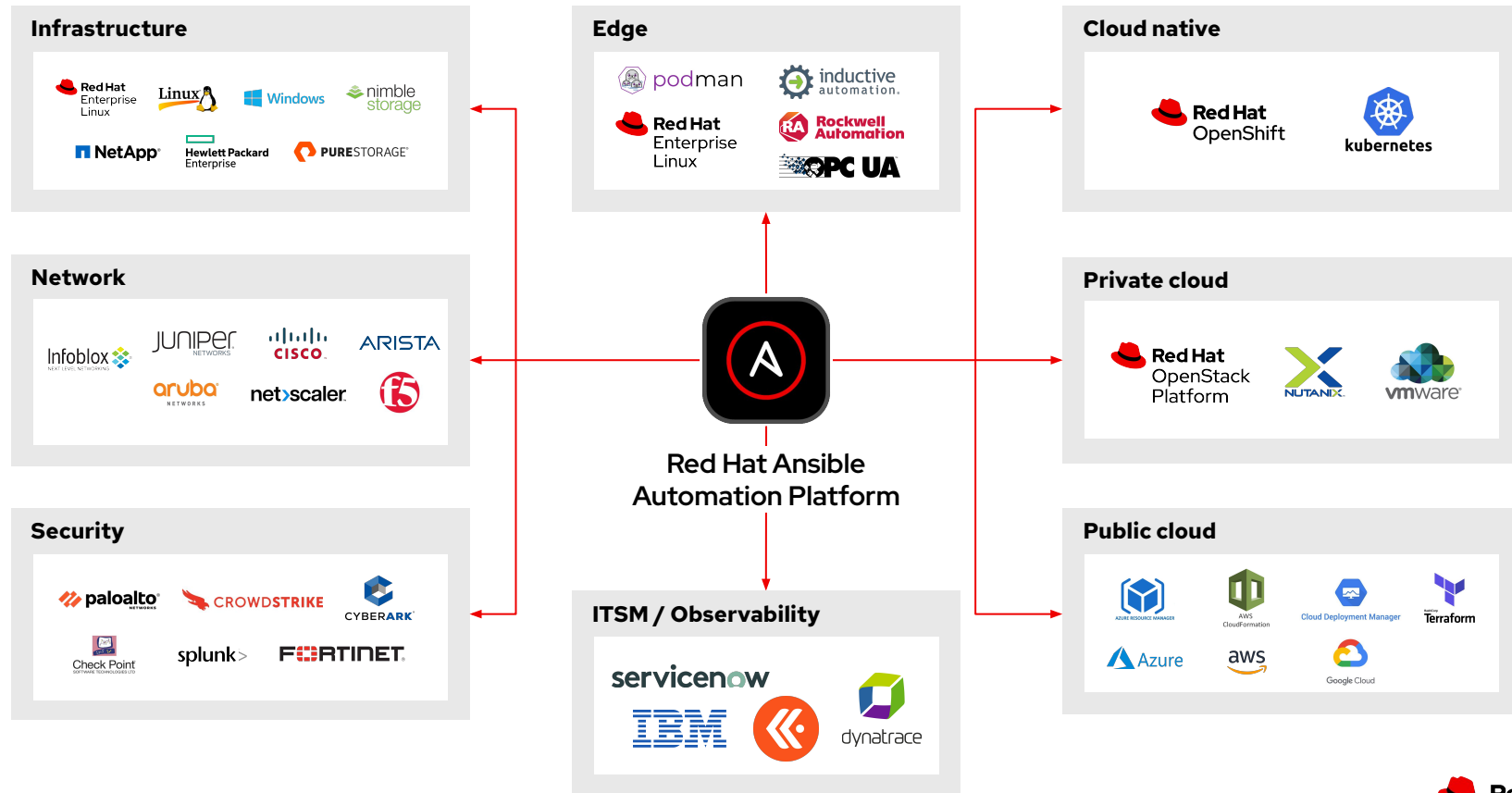
FORTINET

net>scaler



JUNIPER
NETWORKS





Ansible is a **platform for the entire automation team**

Content creation

Content creation tooling

Portable distribution and reliable execution

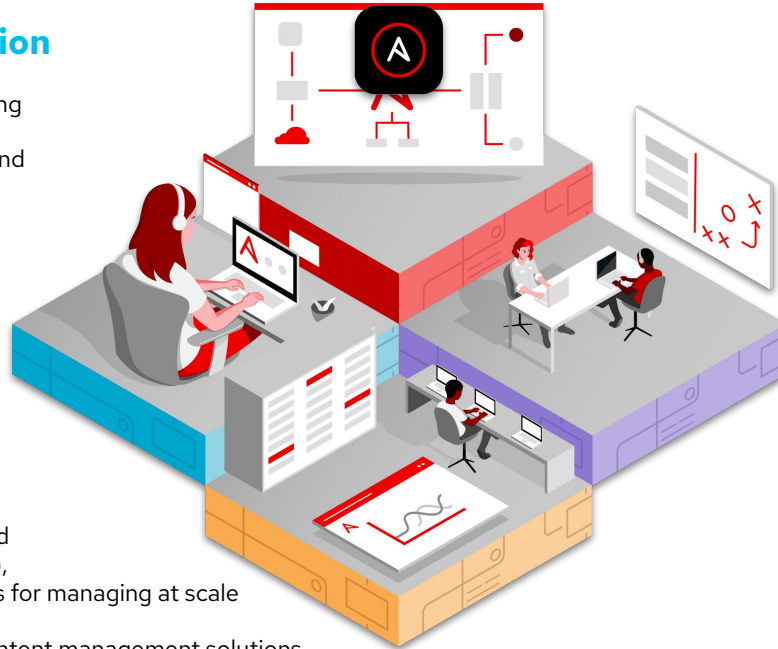
Large ecosystem of certified automation

Operations

Enterprise features:
WebUI, API, role-based access control (RBAC),
auditing and workflows for managing at scale

Hosted and private content management solutions

Integrates with your environment



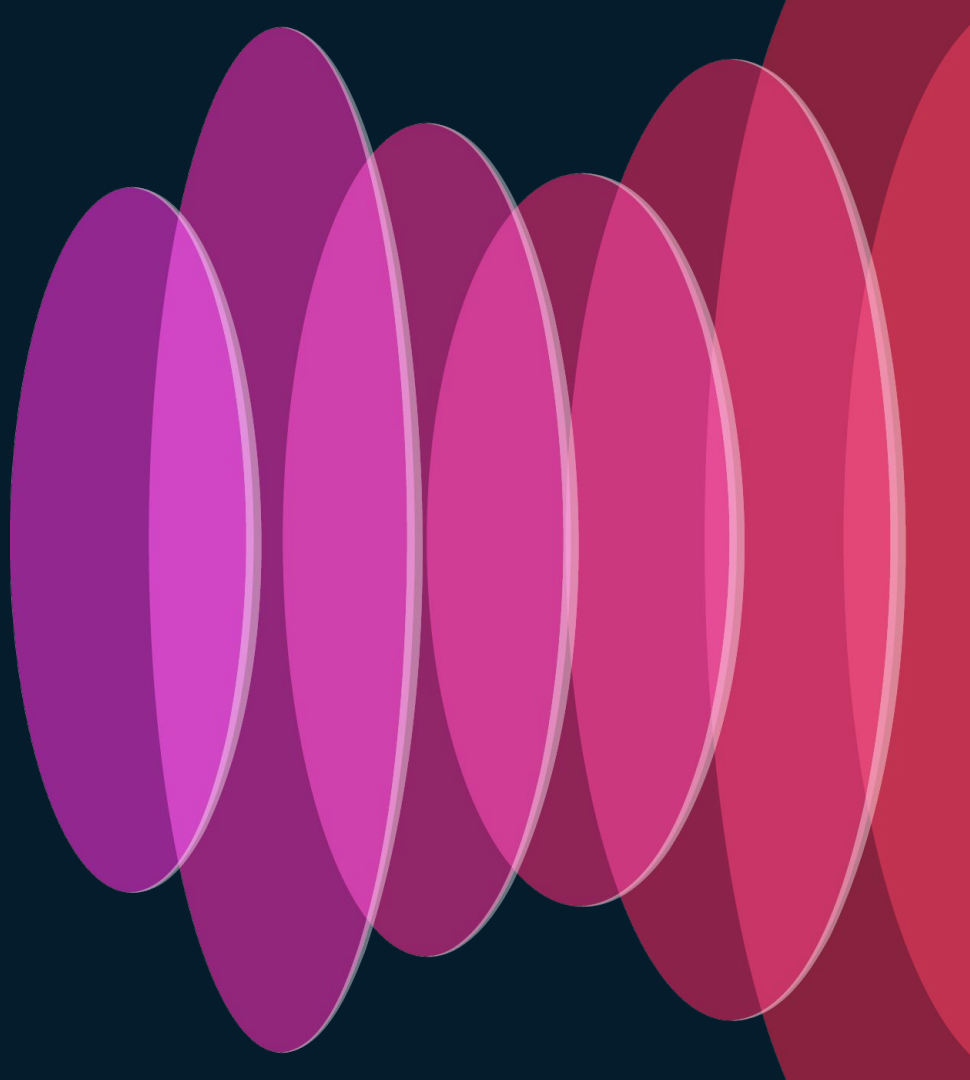
Architecture

Flexible container-native architecture

Real-time analytics and reporting

Scale globally with distributed execution across regions

What is Ansible Network Automation?



Automated NetOps with Ansible Automation Platform



Automated operational framework for network management

- ▶ Complete the full life cycle of network operational tasks
- ▶ Use certified and validated content for new projects
- ▶ Address network compliance and security needs
- ▶ Implement NetOps-as-code as part of automation journey

**Streamline multi-vendor network operations,
compliance, and security management**

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

Operational Commands

```
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.

<<rest of output removed for slide brevity>>
```

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",

  <<rest of output removed for slide brevity>>
```

Ansible output

Network automation use cases: NetOps as Code



Network visibility

Generate network inventories and reports. Audit your network to obtain compliance and drift reports.



Configuration management

Standardize and enforce configuration best-practices and hygiene in a platform-agnostic way. Centralize your configuration Source of Truth (SoT).



Network operations

Run network health checks. Deploy OS upgrades at scale. Apply event-driven automation to mitigate outages impact while minimally disrupting other work priorities.



Switch



Load
balancer



IPS



Proxy



Firewall



Router



IoT



Wireless



Probes



SDx

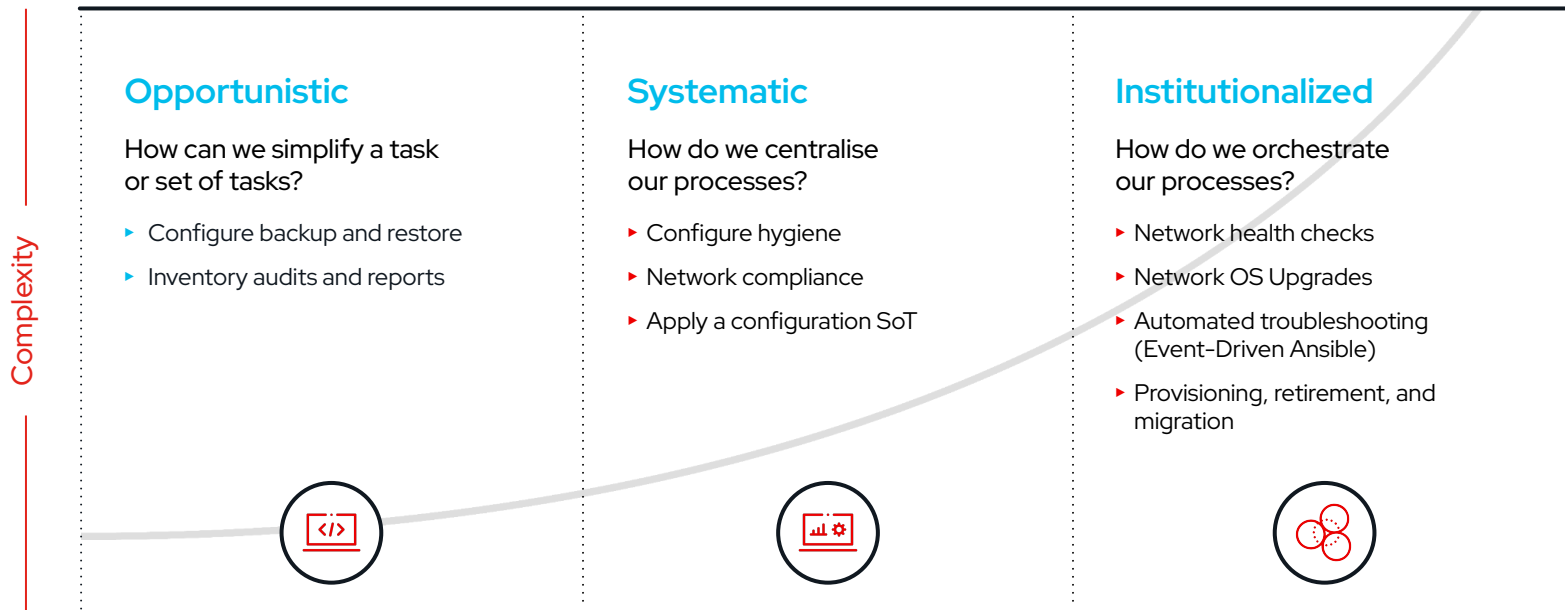


NMS



Network automation journey

Start small, think big



Automation with Ansible Automation Platform

Event-Driven Ansible, part of Ansible Automation Platform

Achieve new milestones in IT service efficiency

Automate decision making

Leverage numerous sources of events



Implement event-driven automation within and across multiple IT use cases

Achieve new milestones in efficiency, service delivery excellence and cost savings

Network automation? Event-Driven Ansible **stands out .**



Fact gathering and notification

Automatically create an/or enhance tickets with configuration information, gather other troubleshooting facts, and create notifications as desired.



Basic to advanced remediation

Reset a network device that is failing, avoid late night pager calls. Perform other basic remediation and progress to advanced actions.



Configuration and drift management

Automatically re-apply standard configurations when there is drift.

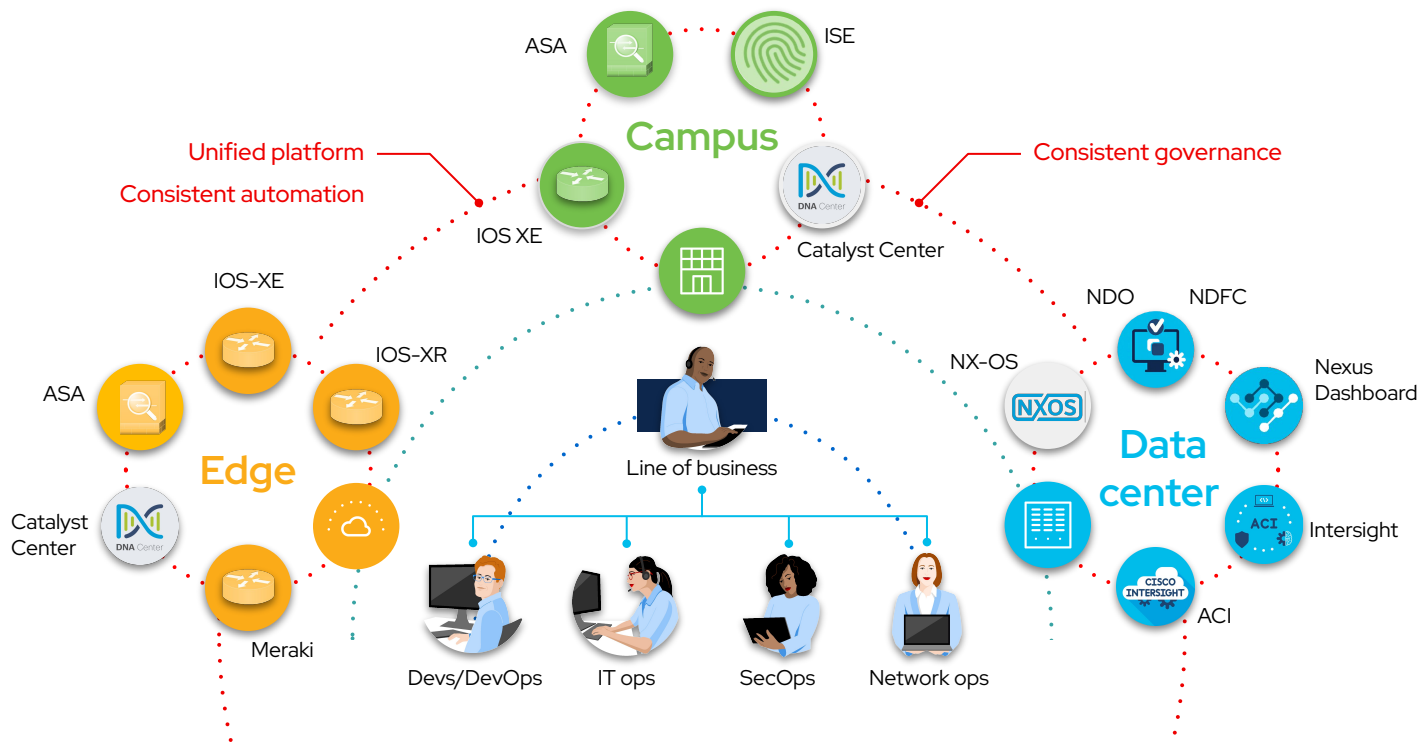


Address security risks fast

Shut down affected devices for certain security risks even while investigation is being conducted or until the risk can be addressed.

Ansible Content Collections for Cisco

Included in your Ansible Automation Platform subscription



Next Steps: Do Great Things with Red Hat and Cisco



Come see us at Booth #6235 for stickers, swag and more...



Come to the Red Hat booth
Booth #6235



**Try a Self-Paced
In-Browser Demo**
red.ht/ansible_labs



Get a free ebook
Automate your network with Red Hat
red.ht/ansible_network

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

Contact me at: **Insert preferred comms method**



The bridge to possible

Thank you

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