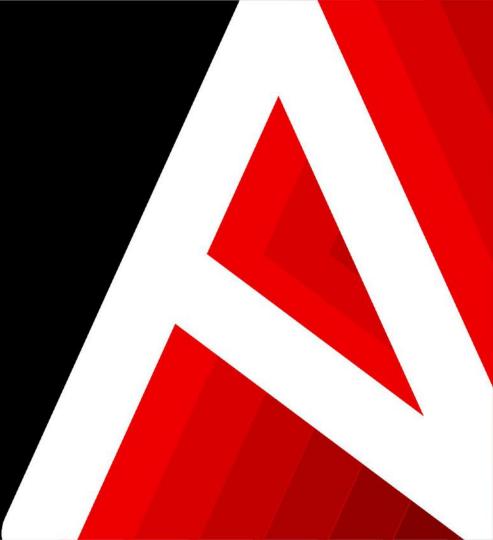


AAP Overview

Phil Avery Principal Solutions Architect - FSI



Our product goals for 2024



Unify automation teams, by delivering a simpler platform experience tailored to the specific needs of those who use it, from automation engineers, to operators, to platform admins.



Leverage the Ansible ecosystem to help our customers automate more efficiently, by expanding technology partnerships to provide more integrations, and delivering more certified and validated content across automation domains.



Help customers get <u>more</u> out of automation. Deliver the capabilities, support, and expertise our customers need to automate their mission-critical workflows, to get more teams automating, and to take on more use cases.

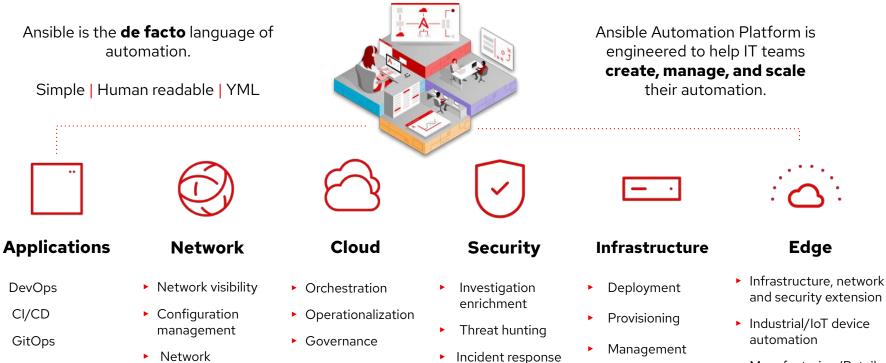


Go beyond. From AI, to event-driven, to GRC (governance, risk and compliance), we will help customers reimagine what they can achieve with automation on Day 2.



Red Hat Ansible Automation Platform

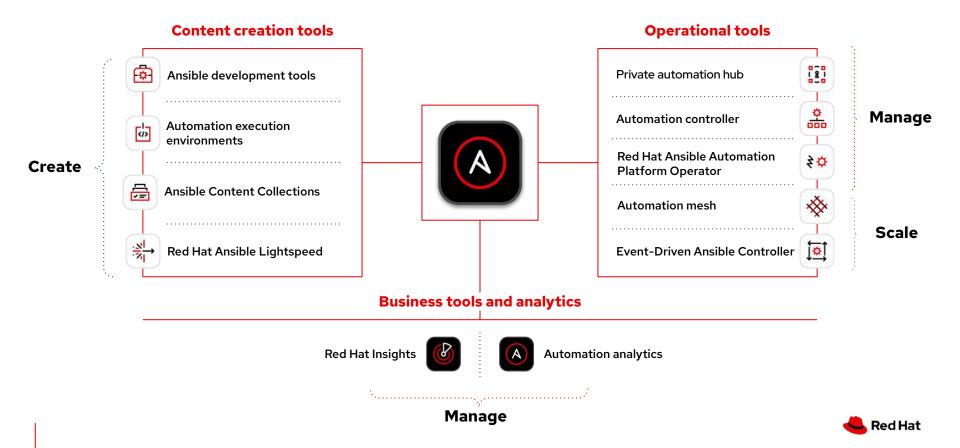
A comprehensive IT automation solution



operations

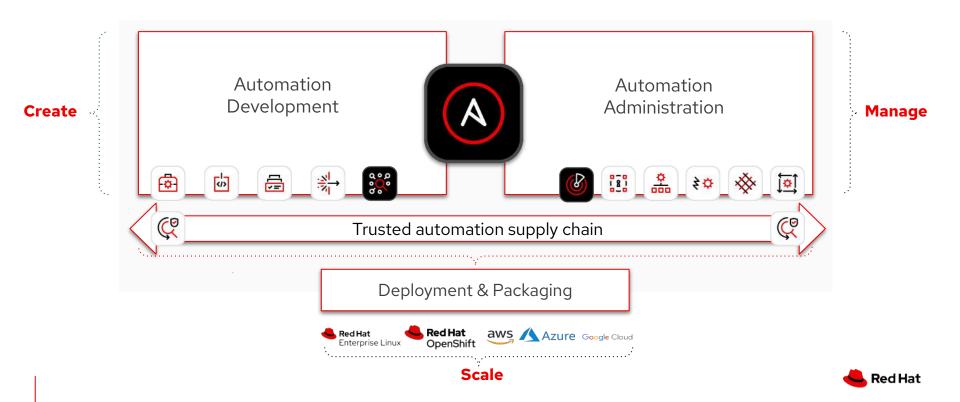
 Manufacturing/Retail remote site management

Red Hat Ansible Automation Platform



Red Hat Ansible Automation Platform

A unified solution for strategic automation



WHERE WE ARE TODAY

CREATE



- > Enhanced developer experience
 - > Ansible development tools
 - > Red Hat Developer Hub
 - > Developer spaces
 - > Al for automation
- > Automation applications
- Automation content experiences
- > State management for AAP

MANAGE



- > Ansible as a Service: AWS
- > Unified platform experience
- > Containerized AAP
- Policy as Code initiatives for Governance, Risk + Compliance (GRC)

SCALE



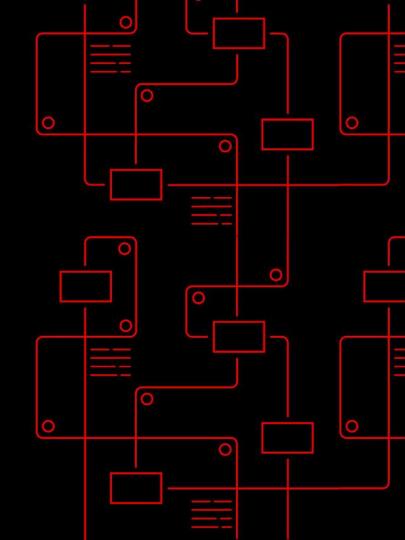
- Automation mesh for cloud deployments
- Event-Driven Ansible improvements
 - > SSO + RBAC
 - > Credential management
 - High Availability, performance and scale
- Availability on mission critical infrastructure











Enhanced developer experience: Ansible development tools

- > Automation applications
- > Automation content experience
- > Artifact and storage management for AAP

Goal:

Deliver comprehensive suite automation development capabilities

Who:

Developers, automation engineers

When:

Q1

Execution Automation CLI tools* environment content navigator builder ₽= -**\$**ansible-builder ansible-navigator *Ansible Molecule, ansible-lint, ansible-creator, pytest-ansible, tox-ansible. ansible-dev-environment, and ansible-sign. ansible-dev-tools

Packaged, supported, and opinionated collection of enterprise-grade capabilities to enable automation developers in the **building, testing, and deployment** of Ansible content.



Ansible development tools

> Enhanced developer experience: Red Hat Developer Hub

- > Automation applications
- Automation content experience
- > Artifact and storage management for AAP

Goal:

Single entrypoint for automation development

Who:

Developers, automation engineers

When: 2H

Golden Path Templates A **Available Templates** Q. Search Q Search Templates A Home III Catalog PERSONAL Create a project for cloud * Starred APIs Learning Paths MY ORO Create a starter collection project preconfigured for tests All DESCRIPT Create... Create tests an environi CATEGORIES OWNER TAGE TAGS v LINKS 0 > DESCRIP Create 4 and pipe continue OWNER TAGS > Recom LINKS 0

Red Hat Developer Hub for Ansible

O SUPPORT

- Development portal with self-service access to golden paths / templates, services, and documentation for common use cases.
- Provides an **opinionated** framework based on Red Hat expertise that aligns teams around a shared UI and approach.
- Flexibility to create customized golden paths or use Red Hat opinionated templates with recommended tools, documentation, etc.
- Helps ensure security and trust in automation by enabling customers with golden paths that meet their unique requirements.
- > Can initiate a custom IDE in customer's enterprise or **Dev Spaces** environments with VS Code

> Enhanced developer experience: Ansible development workspaces

EXPLORER

> .vscode > molecule

playbooks ✓ roles v backup_file

> > defaults > handlers > meta

v molecule) > template:

> converge create.vm destroy.y

≣ INSTALL I molecule

prepare. verify.ym > tasks > tests > vars

≡ .vamIlint

> test_role

≣ .vamIlint

Dockerfile

① README.md

OUTLINE

> TIMELINE

.devfile.vaml

1 hello_world.yml

README md

I requirements.yml

DEMO

Q

- > Automation applications
- Automation content experience
- > Artifact and storage management for AAP

Goal:

Enterprise-ready development environments

Who:

Developers, automation engineers

When: 2H

	roles > backup_file > molecule > default > ! molecule.yml > / manage0: true 8 ansible_connection_options: 9 connection: local	
	9 connection: local	
	10 platforms:	
	11 – name: molecule-ubi8-init-1	
	12 image: registry.access.redhat.com/ubi8/ubi-init	
	13 workingDir: '/tmp'	
	14 – name: molecule-rhel8-python-39	
	15 image: registry.redhat.io/rhel8/python-39	
	16 workingDir: '/tmp'	
lefault	17 - name: molecule-rhel8-python-38	
	18 image: registry.redhat.io/rhel8/python-38	
	19 workingDir: '/tmp'	
ymi	20 – name: molecule-centos8-stream	
l i	21 image: quay.io/centos/centos:stream8	
nl	22 workingDir: '/tmp'	
st	23 provisioner:	
	24 name: ansible	
/ml	25 # Failing to write the ansible into /.ansible/tmp	
nl	26 config_options:	
	27 defaults:	

\$ cd roles/backu **OpenShift Dev Spaces** environment with **VS Code**, > \$ molecule test Ansible development tools, Ansible Lightspeed, default Perform documentation, etc. Running Set ANS ible/plugins/mg Set ANS > INF0 Set AN Using

sible to find th

Passed with prod

A new release of

- Simplifies creation, testing, and deployment of Ansible content with secure, consistent environments based on Ansible best practices.
- Improves quality, trust, and reliability with a supported > and secure framework built for the enterprise.

> Enhanced developer experience: Al for automation

- > Automation applications
- > Automation content experience
- Artifact and storage management for AAP

Goal:

Harness AI to empower engineers to create, manage and scale their automation more efficiently

Who:

Developers, automation engineers, operators, platform admins

When: Available now, with improvements introduced continually

Create | Red Hat Ansible Lightspeed

- > On-premises capability (IBM WCA)*
- Full Ansible Playbook generation*
 *Now available

Adopt | DevOps Integration

- > Ansible Risk Insights integration
- > Pipeline integration and REST APIs

Maintain | Ansible Codebot

- > General availability + full support Q1 '24
- > Gitlab and Bitbucket integrations H2 '24





> Enhanced developer experience

> Automation applications

- > Automation content experience
- Artifact and storage management for AAP

Goal:

Simplify the automation experience by creating better connections between content creators and content users.

Who:

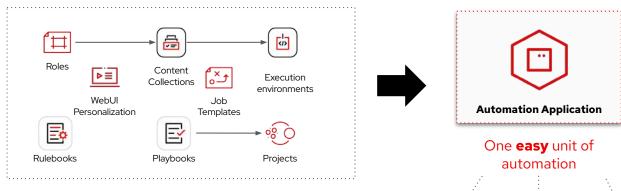
Developers, Automation engineers

When:

Q4+

Automation Applications

An automation application is an **all-in-one package** that makes it simple to distribute and use automation tasks.



Traditional Ansible content development

Delivery will happen in stages:

Stage 1: Content seeding, allowing AAP to be provisioned with Projects, Job Templates, Workflows and more; will also Allow easy importing of Ansible content collections into usable Automation jobs

Stage 2: Composable automation allowing content to be logically stacked together to fulfill more complex uses cases

Stage 3: Self contained & autonomous automation capable of running as a function; Automation execution environments automatically created on the fly







Experience for Cloud Engineers

Experience for Network Engineers

Experience for Sysadmins



- > Enhanced developer experience
- > Automation applications
- Automation content experience
- Artifact and storage management for AAP

Goal:

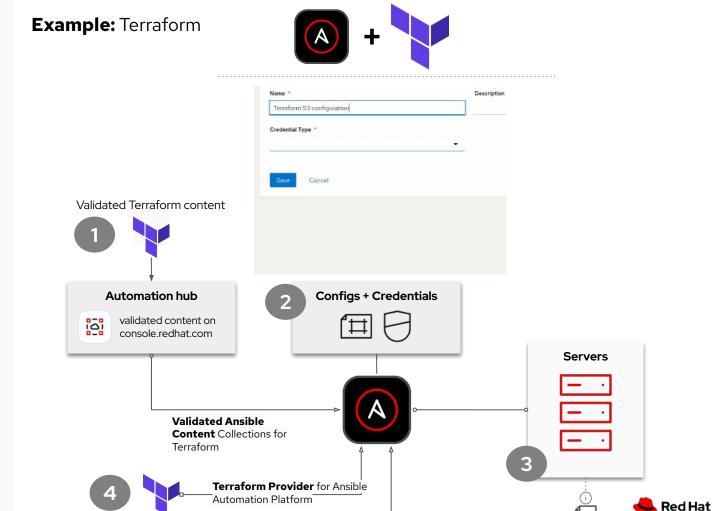
Extend Ansible Automation Platform use cases

Who:

Developers, Automation engineers

When:

1H 2025



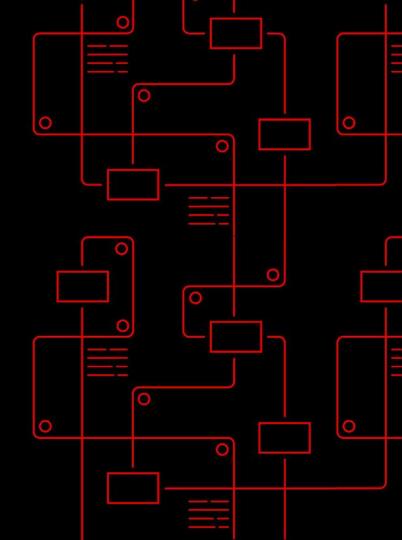
Terraform

Terraform state file

Manage







> Unified platform experience

- Event-Driven Ansible: High availability
- > Policy as Code initiatives

Goal:

Simplify the platform experience for all users

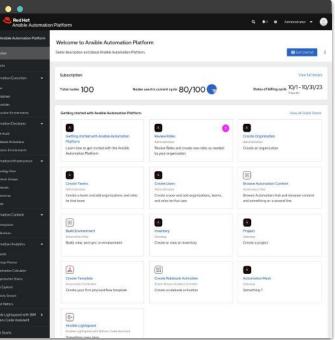
Who:

Automation engineers, Operators, Platform Admins, Automation architects

When: *Beta*: July *GA*: Q3 (AAP 2.5-1)



- Consistent and centralized webUI for operators, developers and platform administrators
- Consistent and centralized API
- Centralized authentication/authorization
- Centralized role based access controls (RBAC)
- New and improved Day 2 ops management





Unified platform experience: Key improvements

- Event-Driven Ansible:
 High availability
- > Policy as Code initiatives

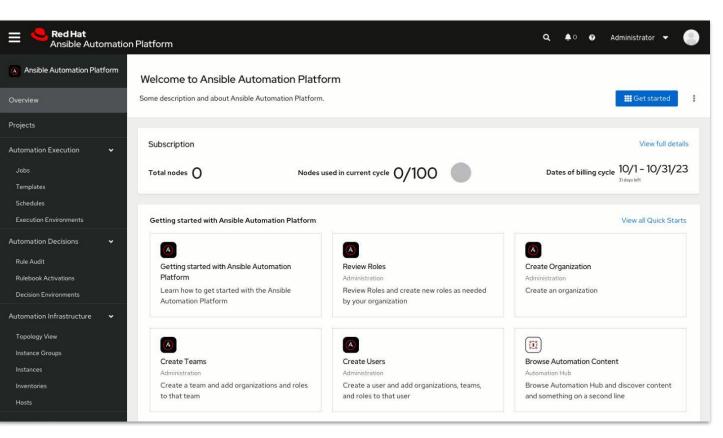
Goal:

Simplify the platform experience for all users

Who:

Automation engineers, Operators, Platform Admins, Automation architects

When: *Beta*: March *GA*: Q2 (AAP 2.5 release)





Unified platform experience: Customized experience by user type

- Event-Driven Ansible: High availability
- > Policy as Code initiatives

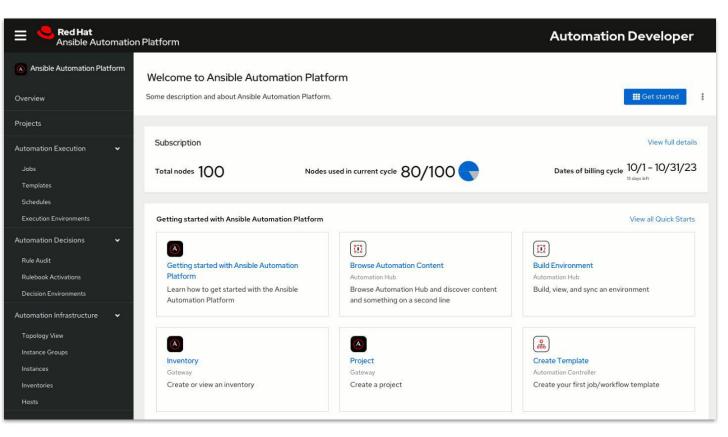
Goal:

Simplify the platform experience for all users

Who:

Automation engineers, Operators, Platform Admins, Automation architects

When: *Beta*: March *GA*: Q2 (AAP 2.5 release)



Note: Experience for public cloud subscriptions may vary pending final development

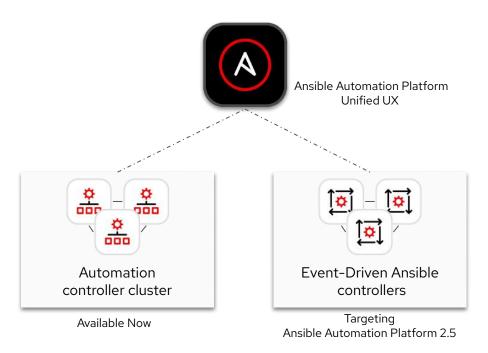


- > Unified platform experience
- > Event-Driven Ansible: High availability
- > Policy as Code initiatives

Goal: Mission critical capabilities for Event-Driven Ansible

Who: Platform Administrators

When: Q3 FY2024



- Increased resiliency through Active/Passive failovers between multiple deployments
- Easily configurable via bundled installer or OpenShift Operator



- > Unified platform experience
- Event-Driven Ansible: High availability

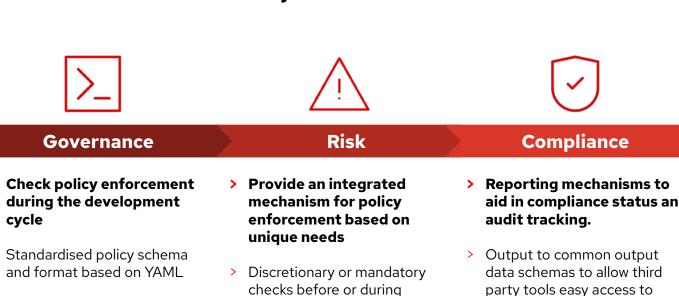
> Policy as Code initiatives

Goal:

Extend AAP directly into the realms of governance, risk and compliance (GRC)

Who:

Developers, Operators + Admins. CISO, CAIO.* *New avenue for C-suite conversations.



Policy as Code for GRC

Ansible Lightspeed integration to accelerate development

>

>

- Integration into Ansible plugins for Integrated Development Environments (IDE)s
- automation runs > Hook into a wider ecosystem
- for defining, selecting, finding and using policies for checks and enforcement

- aid in compliance status and
- party tools easy access to results
- Customizable alerts and > notifications for policy status

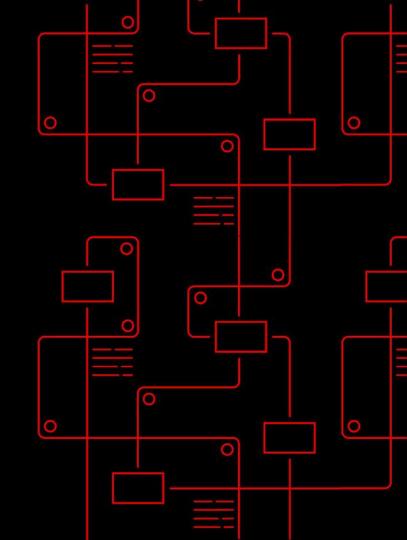


When TBD 2024









> Containerized AAP

- Ansible deployment options
- Automation mesh for cloud deployments

Goal:

Simplify management and operations for the platform engineer

Who:

Platform engineers

When:

Now in Tech Preview *GA H1 2024*

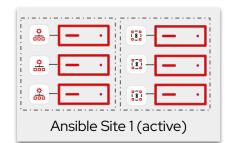
Automation Private automation hub FDA controller -181 ¢ **Q** 181 Ansible Automation platform on RHEL can take advantage of Red Hat's container technology, **so we can now fit multiple** services on a single instance!

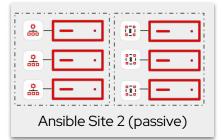
Single Server



Easy to scale up Ansible Automation Platform

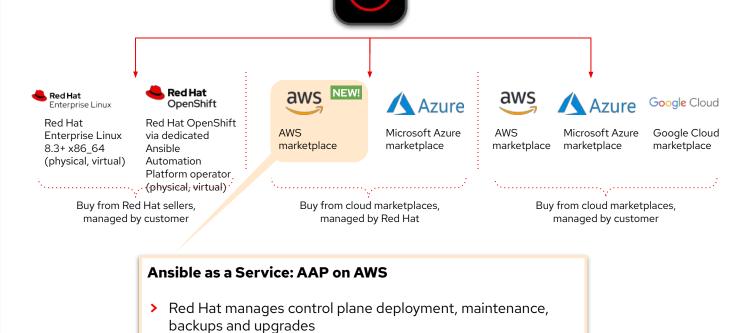
Highly Available Reference Architecture







- > Containerized AAP
- Ansible deployment options
- Automation mesh for cloud deployments



- > Ready-to-use seeded automation content
- Customers manage the execution plane for automation security and scalability

Goal

Unparalleled flexibility and simplicity in deploying automation

Who:

Automation engineers, Platform admins

When: Currently in service preview. Planned GA end of Q2 2024



- > Containerized AAP
- > Ansible deployment options
- Automation mesh for cloud deployments

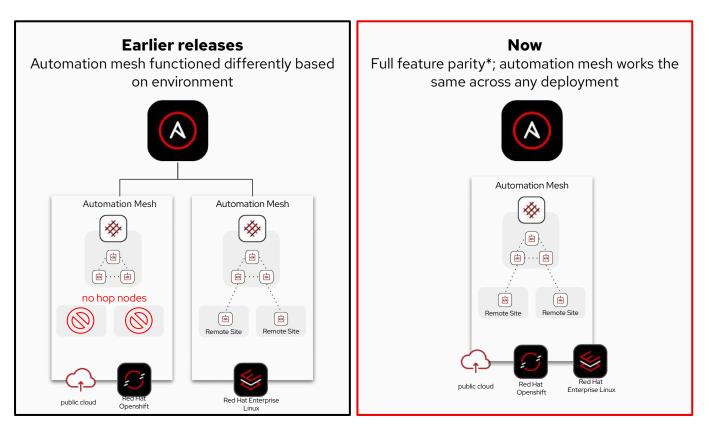
Goal:

Ensure feature parity for Automation Mesh across AAP deployment options

Who:

Operators, Platform admins

When: Available now



Automation mesh parity on and across cloud environments

*small differences remain that will not affect most deployments more information in speaker notes



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Product lifecycle updates





3 year support cycle

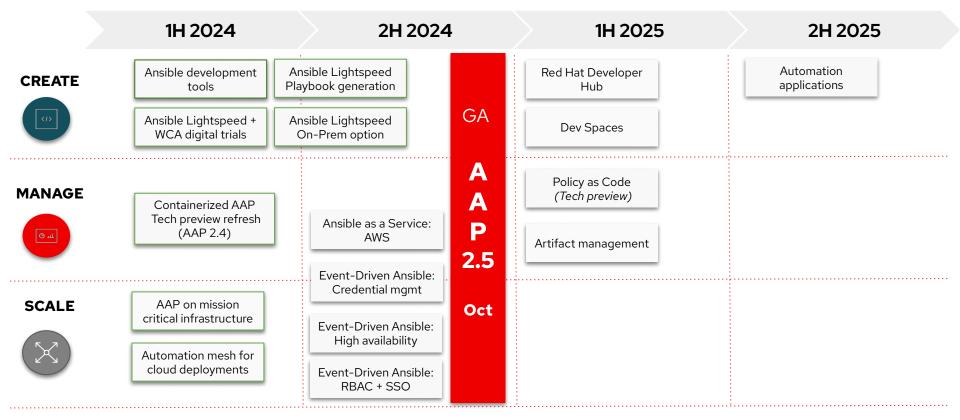


Annual cadence for major releases





The AAP roadmap: 24 month view





Resources + next steps

- AAP homepage ►
- <u>YouTube Playlist</u>
- The AAP blog channel
- E Datasheet ►
- Self-paced interactive labs ►



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- San Jose, CA Oct. 23

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- Philadelphia, PA Oct. 3
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