

How to use this deck

Name:

Ansible Automation Platform 2.4 overview

Purpose:

A run down of new features and enhancements found in Ansible Automation Platform 2.4. Great for helping customers better understand what they'll find in the newest version of the platform, and highlighting the ways in which we continue to push the product to deliver the best, most secure automation experience possible.

Great resource for customers ready to have conversations about migrating to AAP 2 from Ansible Tower or AAP 1.2

Last updated:

June 27, 2023 (check history for older versions)

What this deck is for?

200 level conversation with customers outlining updates they will find in our latest release - Ansible Automation Platform 2.4

What this deck is not for?

Business level discussions, conversations with people or teams with no previous grounding in Ansible or the Red Hat Ansible Automation Platform



Feedback / Suggestions

Please send all feedback and suggestions to
Use the slide deck name as the reference.

ansible-feedback@redhat.com.

Owner:

Ansible BU, Product Marketing and Technical Marketing teams:
ansible-pmm-tmm@redhat.com



Slides 21-25 are included if you want to also share an update around the [Ansible Lightspeed Tech Preview](#). But note that the Lightspeed Tech Preview is NOT TIED to the AAP 2.4 release in any way; if you would like to avoid any confusion, simply remove that section from the deck or use the [source deck](#), it will not impact navigation or the story flow in any way.



Ansible Automation
Platform

Ansible Automation Platform 2.4

Technical Update Webinar

For partners

EMEA Partner Development

Andreas Stolzenberger | astolzen@redhat.com





We are excited to Red Hat Ansible Automation Platform 2.4, which continues to build on our core promise to help customers **"Create, Manage, and Scale"** their automation.

The 2.4 release includes a number of new features and capabilities, along with Technology Previews of several experience enhancements on our product roadmap.

Ansible Automation Platform 2.4 is built to be trusted, flexible, and easy to use – **while offering customers more.**

More value from existing technology investments.

More ecosystem content and integrations.

More efficiency.

More control.

More ways to automate.

More possibilities.

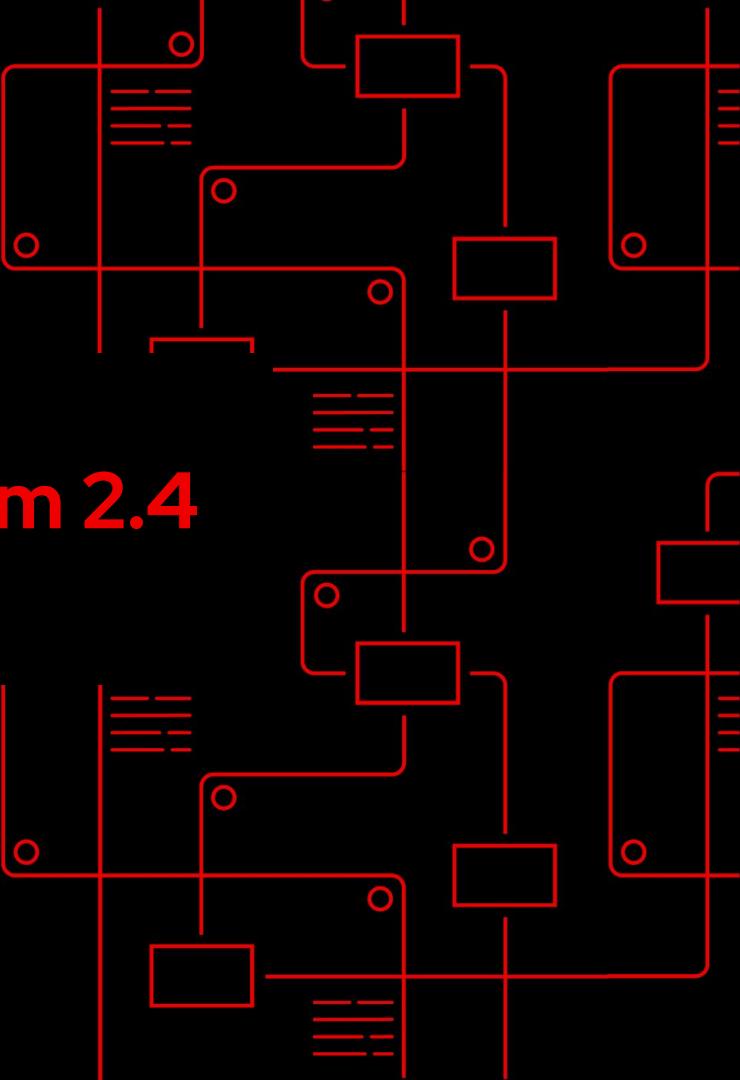
New things you'll find in this release:

- ▶ [Event-Driven Ansible - now generally available!](#)
- ▶ [Collection repository management](#)
- ▶ [Validated content integration](#)
- ▶ [Ansible-builder 3.0](#)
- ▶ [Platform install support for ARM](#)

Features in Technology Preview:

- ▶ [Platform install support for Linux on Power and Z](#)
- ▶ [Centralized UI features](#)

What's new in **Ansible Automation Platform 2.4**



More scale. More possibilities. More value.

Automate decision making



Integrate multiple event sources,
then orchestrate them to work in
concert.

Implement closed-loop
mitigation and auto-remediation
for well-known observability
tools

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

A typical event-driven process

Efficient multi-vendor operations with Event-Driven Ansible

Sources

- ▶ All the sources of event data you want to use
- ▶ Work with third-party sources of events
- ▶ Send important events to Event-Driven Ansible

Rules

- ▶ What you will create using Event-Driven Ansible®
- ▶ Known problem identified
- ▶ Automated resolution triggered

Actions

- ▶ When a condition or event is met, the Ansible Rulebook executes
- ▶ Outage incident created
- ▶ Support team notified
- ▶ Remediation executed

Event-Driven Ansible

Collection repository management

Validated content integration

Ansible Builder V3

Platform install support on ARM

Use cases

Networking



- ▶ Diagnose network troubleshooting tasks
- ▶ Remediate configurations

Security



- ▶ Automate log enrichment / response
- ▶ Escalate events

Applications



- ▶ Trigger application events
- ▶ Enrich healing capabilities

Infrastructure



- ▶ Resolve provisioning issues and configuration drift
- ▶ Initiate compliance checks

Cloud



- ▶ Trigger cloud estate checks
- ▶ Remediate tasks from service bus

Edge



- ▶ Trigger and remediate app deployment
- ▶ Automate app scaling

Planned integrations



IBM Turbonomic



INSTANA

paloalto[®]
NETWORKS

ThousandEyes[®]
part of Cisco

ZABBIX

Red Hat
Ansible Automation Platform

Event-Driven Ansible

Collection repository management

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Ansible Builder V3

Platform install support on ARM

Learn more + get started

The Inside Playbook

Event-Driven Ansible is Here

May 23, 2023 by Joe Pisciotta



[Event-Driven Ansible announcement blog](#)



Products Solutions Training & services Resources Partners About

Ops as Code and the event-driven era

May 24, 2023 | Richard Henshall

< Back to all posts

Tags: Automation

The following is an excerpt from my [AnsibleFest keynote](#) at Red Hat Summit today.

Automation is nothing if it's not solving a problem.

One of the best parts of our jobs is getting to see what our customers are doing, because the ingenuity they apply when using our product to solve their technology and business challenges never ceases to inspire. Our customers have pushed boundaries, and pushed us to continue to improve Red Hat Ansible Automation Platform, and deliver new capabilities. And sure enough, our customers have used Ansible Automation Platform to achieve remarkable gains in how quickly they are able to provision and configure their infrastructure, deploy applications, manage networks, security, cloud and more.

But we automators find ourselves at an inflection point. We've built a strong foundation. But how can automation help us solve the next set of problems, to get to the next level of operational efficiency?

[Ops as Code blog](#)



Products Solutions Training & services Resources Partners About

WEBINAR

Work smarter using event-driven automation across IT operations

June 20, 2023, 11:00 a.m. EDT (UTC -4)

Event-Driven Ansible

Collection repository management

Validated content integration

Ansible Builder V3

Platform install support on ARM

Learn more + get started



Red Hat
Ansible Automation Platform

5 ways event-driven automation can help you achieve more

Streamline your work and regain balance with Event-Driven Ansible

Digital business relies on IT. As a result, IT staff must keep increasingly large and complex environments up and running at all times, often with limited budget and IT team sizes. The right IT automation solutions can help your teams manage IT environments with speed and efficiency, allowing time for more rewarding work and helping staff regain work-life balance.

Red Hat® Ansible® Automation Platform now includes event-driven automation capabilities. Event-Driven Ansible lets you respond in a predetermined way to observed events in your IT environment, without manual intervention. Simply define if-then rules, event sources, and automated actions in Ansible Rulebooks. The platform matches events received from third-party monitoring and observability tools to the appropriate rulebook and performs actions like system remediation, ticket logging, and even additional event generation.

Here are 5 ways you can use event-driven automation in Ansible Automation Platform to save time and effort during your work day.

1 Proactively remediate issues

Automatically identify and remediate potential issues before they impact operations and users. When a system or network monitoring tool detects an issue like infrastructure degradation, configuration drift, or security vulnerabilities, Ansible Automation Platform can automatically resolve the issue before it causes a critical IT incident. Event-Driven Ansible is flexible from source to rule to action, so you can specify the exact level of response you need. For example, based on the type, location, and severity of the issue, along with your corporate IT policies, the platform can automatically shut down or remediate system or network components, log relevant data in an event or IT service management system, and open IT service tickets.

2 Accelerate troubleshooting

Simplify and speed troubleshooting activities by automating initial response actions. When an IT incident is reported either by a user through an IT service ticket or by internal monitoring tools, Ansible Automation Platform can take immediate and appropriate action based on factors like the type and severity of the incident, the frequency of similar incidents, and established corporate policies. For example, it can gather configuration information and log files from impacted systems and add relevant information to the service ticket to help you find the issue faster and with less effort. By automating initial troubleshooting actions, you can spend less time manually collecting information and focus on actually solving



Red Hat
Ansible Automation Platform

5 reasons to include event-driven automation in your IT strategy

Achieve speed, consistency, and innovation with Event-Driven Ansible

Digital business requires reliable, resilient IT services. Automation can be a force multiplier for your teams, making work less complicated and more repeatable and efficient. In fact, 80% of surveyed business executives say that adopting IT automation is "extremely important" to the future success of their organization.

Event-driven automation is the next step in the journey to end-to-end IT automation. It connects operational intelligence, service requests, and decision-making to rapidly and consistently initiate predefined automated actions when specified events or conditions occur. Events can be nearly anything that happens in your IT environment: network or system slowdowns, configuration drift, changing conditions that require a response, or new service ticket entries that require action, for example. Using event-driven automation, you can speed up Day 2 operations—like ongoing management, user and device administration, provisioning, tuning, and scaling—while eliminating routine tasks that get in the way of key priorities.

Red Hat® Ansible® Automation Platform now includes event-driven automation capabilities. Event-Driven Ansible lets you rapidly create advanced end-to-end automation scenarios for a wide variety of operational needs across your IT infrastructure.

Here are 5 ways you can use event-driven automation in Ansible Automation Platform to simplify operations.

1 Resolve issues and requests

Automatically respond to issues, whether they are reported by users or identified through third-party infrastructure monitoring tools. Event-Driven Ansible is flexible, so you can specify the exact level of response you need. For example, when system, network, or security monitoring tools detect potential issues, Event-Driven Ansible can automatically reboot, reset, or shut down systems or generate a

2 Close skills gaps

Rapidly share essential knowledge across your teams. Event-Driven Ansible lets you document critical information and process it in a format called Ansible Rulebooks. Simply define the desired response to specific events using straightforward if-then rules. Ansible Automation Platform's simple, human-readable automation language simplifies creating, sharing, reviewing, and managing

More options. More control.

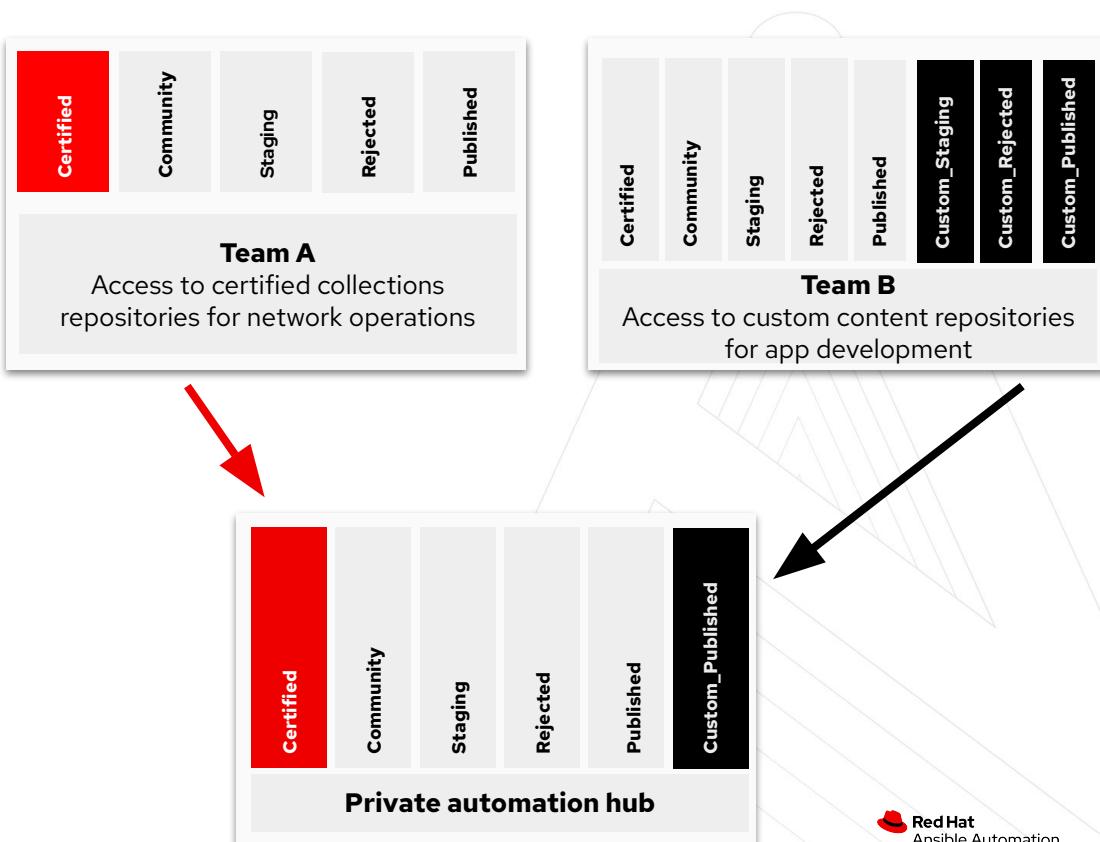
The screenshot shows the 'Repositories' page in the Automation Hub. The left sidebar includes 'Collections', 'Remotes', 'API token', 'Approval', 'Execution Environments', 'Task Management', 'Signature Keys', 'Documentation', and 'User Access'. The main area displays a table with columns: Repository name, Sync status, Last synced, and Created date. The repositories listed are: validated, rh-certified, community, published, rejected, and staging. The 'rh-certified' row has a green 'Completed' status badge. A red arrow points from the text 'customers can create as many collection repositories as they want' to the 'rh-certified' row. The 'validated' row is highlighted with a red circle and a red curly brace on the left.

| Repository name | Sync status | Last synced | Created date |
|-----------------|-------------|--------------|--------------|
| validated | --- | --- | 2 days ago |
| rh-certified | Completed | 21 hours ago | 2 days ago |
| community | --- | --- | 2 days ago |
| published | --- | --- | 2 days ago |
| rejected | --- | --- | 2 days ago |
| staging | --- | --- | 2 days ago |

- In the past, AAP has offered 3 repositories for content collections; *Community*, *Published*, and *Certified*, which were also available to the entire organization.
- With the new Collection Repository management feature in AAP 2.4, **customers can create as many collection repositories as they want**, each with different customizable content sets.
- They can also control **who** has access to **what** automation content.

More control. More trust.

- ▶ Extend the trusted automation supply chain throughout your organization, securely distributing the correct automation content to the correct teams.
- ▶ Scale with confidence, knowing that creating, sharing, and syncing new repositories is **quick and simple**.
- ▶ Create a custom repository and add Ansible Content Collections, or sync to another remote (Ansible Galaxy, Ansible automation hub on console.redhat.com, or even another private automation hub.)



Event-Driven Ansible

Collection repository management

Validated content integration

Ansible Builder V3

Platform install support on ARM

A more integrated experience

With the release of Ansible Automation Platform 2.4, Ansible validated content is now accessible through Ansible automation hub (**Red Hat Hybrid Cloud Console**).

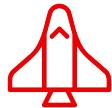
Validated content collections are also pre-loaded into the private automation hub for easy access from customers' air-gapped environments.

The screenshot shows the 'Automation Hub' interface with a sidebar containing 'Collections', 'Execution Environments', 'Task Management', 'Signature Keys', 'Documentation', and 'User Access'. The main area is titled 'Collections' with a 'Filter by repository' dropdown set to 'Validated' (which is circled in red). Below this are search fields for 'Keywords' and 'Filter by keywords'. A grid of validated content collections is displayed in two rows of four. Each collection card includes an icon, a name, a status (e.g., Unsigned), a brief description, and a table of metrics (Modules, Roles, Plugins, Dependencies). The collections shown are: bgp, vpn, firewall_mgmt, aws_ops; base, aws_troubleshooting, osbuild, ah_configuration.

| Collection | Description | Metrics |
|---------------------|--|--|
| bgp | Provided by network Ansible Network BGP enables user to manage the BGP | 0 Modules, 1 Role, 0 Plugins, 2 Dependencies |
| vpn | Provided by network Ansible Collection to build, maintain and validate VPN | 3 Modules, 1 Role, 0 Plugins, 3 Dependencies |
| firewall_mgmt | Provided by security Ansible Collection to build, maintain and validate FW | 0 Modules, 0 Roles, 0 Plugins, 2 Dependencies |
| aws_ops | Provided by cloud Amazon AWS roles and playbooks for Ansible. | 3 Modules, 6 Roles, 0 Plugins, 2 Dependencies |
| base | Provided by network Ansible Network Collection provides platform-agnostic | 0 Modules, 1 Role, 0 Plugins, 2 Dependencies |
| aws_troubleshooting | Provided by cloud Amazon AWS roles and playbooks for Ansible. | 9 Modules, 8 Roles, 0 Plugins, 0 Dependencies |
| osbuild | Provided by infra Collection for management of osbuild composer | 9 Modules, 2 Roles, 0 Plugins, 2 Dependencies |
| ah_configuration | Provided by infra Ansible content that interacts with the Ansible Automation H... | 18 Modules, 16 Roles, 1 Plugin, 0 Dependencies |

[Validated content datasheet](#)

Getting more from your subscription with validated content



Automate faster

Follow an **expert-guided** path from Red Hat and industry-leading providers

Jump-start common automation projects for cloud, edge, network, and security use cases



Trusted supply chain

Curated by Red Hat

Pre-loaded into private automation hub

Customizable for customer's unique environment



Share and re-use

Collaborate and standardize on a set of best practice.

Reduce manual repetition when deploying/configuring systems

More ecosystem integrations.

Infrastructure

Ansible Automation Platform

Automation controller configuration |
Automation hub configuration | Execution
environment utilities
| Ansible Automation Platform utilities

RHEL-based installs

Prepare and install Automation controller and
private automation hub on RHEL | configure the
OS to support Kerberos | backup and restore
automation controller and private automation
hub | install a minimal Git repo over SSH, for
demonstration and learning purposes

OpenShift-based installs

Prepare and install Automation controller and
Private automation hub on OpenShift

Infrastructure at the Edge

OSbuilder for RHEL Edge disconnected

Security

Firewall policy hygiene

Networking

Network base configuration | Manage BGP
network resources | Build, maintain and
validate VPN tunnels

Network at the Edge

Cloud connectivity implementation |
Autonomous System Number (ASN)
configuration | OSPF management | BGP
management | Common network health
checks: *reachability tests, interface
verification, routing protocols neighbors' state
validation, mac-addresses, VLANs, ARP-tables
and bootflash health check, and more.*

Hybrid Cloud

AWS: Operations

Setup credentials | Detach and delete internet
gateways | Configure multi-region CloudTrail |
Creating custom AMIs | Terminate EC2
instances by tag

AWS: Troubleshooting

RDS connectivity

Azure: Lifecycle management

Load balancers | Postgres SQL instance |
Network interfaces and stacks | Resource and
security groups | Virtual machine

More efficiency.

The 2.4 release includes **ansible-builder 3.0**, a major update that makes the execution environment (EE) creation process much more efficient.

- ▶ Containerfile hacking is no longer required for common and advanced scenarios; EE definition now provides broad customization options
- ▶ Single file definition allows for the inclusion of Collection, pip and system package requirements inline
- ▶ Streamlined image building from the start: no more confusion around what version of builder image should go with the base image
- ▶ Teams can now quickly and easily create a base EE from scratch for development purposes

```
version: 3 # Add this to take advantage of ansible-builder v3

images:
  base_image:
    # AAP 2.4 base image
    name: registry.redhat.io/ansible-automation-platform-24/ee-minimal-rhel8:latest

dependencies:
  galaxy:
    collections:
      - ansible.netcommon # Specify inline requirements now

options:
  # Definitions where base image is from AAP requires this
  package_manager_path: /usr/bin/microdnf
```

Ansible content tools have been upgraded with **ansible-builder 3.0**

Dependences can be declared inline, instead of pointing to a requirements.yaml

Note: Downstream images require this. Please reference the [updated documentation](#).

Event-Driven Ansible

Collection repository
management

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Platform install
support on ARM

More flexibility.

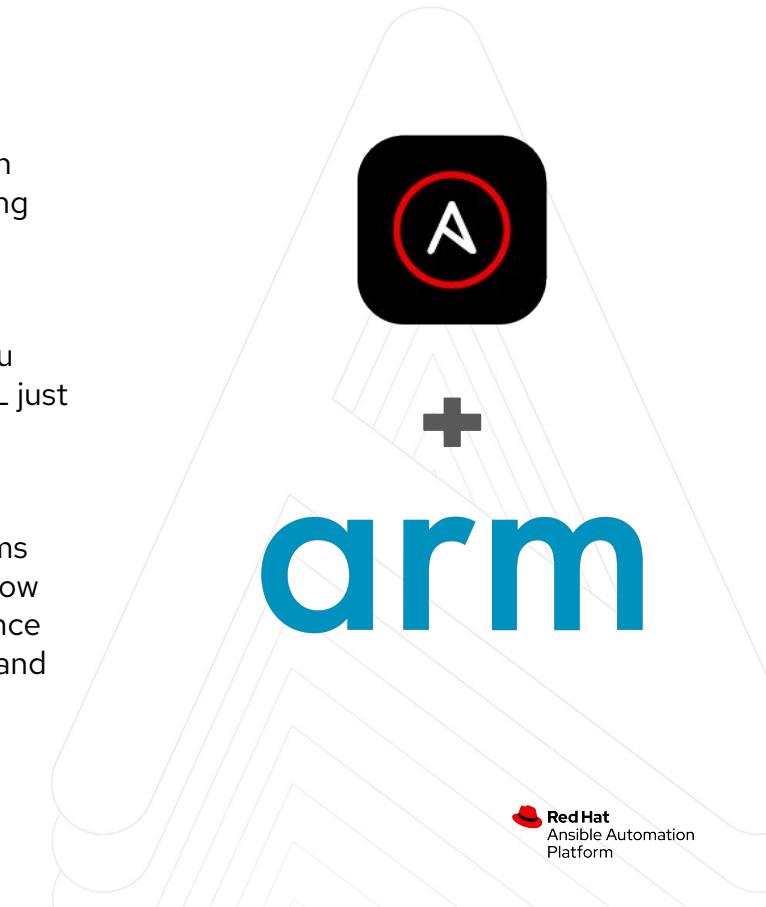
Many organizations aren't just Intel x86 only, especially in Edge scenarios. In Ansible Automation Platform 2.4, we are providing more options for installing platform components on other architectures.

Full Support for ARM architecture

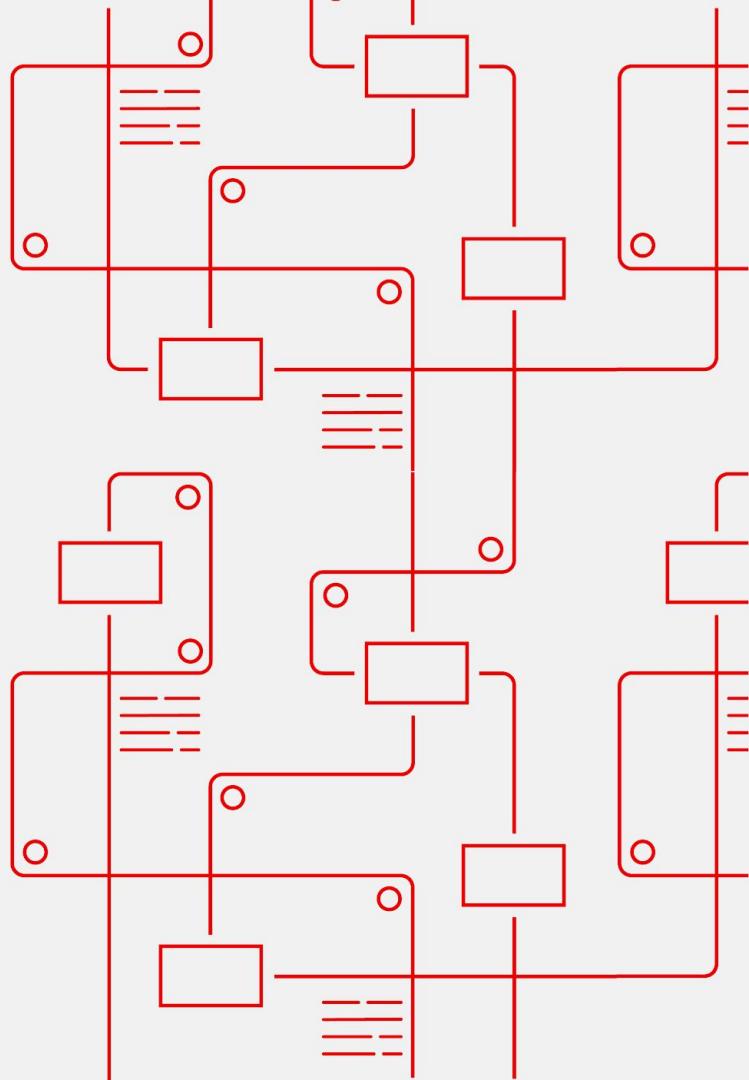
If your data center server or edge infrastructure has ARM requirements, you now have the ability to install the full Ansible Automation Platform on RHEL just as you would with Intel-based x86 systems.

Great for Far Edge scenarios

Imagine a small closet out in the middle of nowhere, and ARM based systems are deployed due to power requirements. Ansible Automation Platform is now able to automate all systems found in that closet, keeping them in compliance with all other sites in your full infrastructure, and giving you more flexibility and peace of mind.



In Developer or
Technology Preview Support:
**Ansible Automation
Platform 2.4**



Developer Preview Support

Event-Driven Ansible and Automation Hub installation Support for Linux on Power and Z

- ▶ Automation Hub makes it simpler to manage automation content specifically for Power and Z Mainframe. You'll also find IBM provided, certified content for this hardware that can be easily synched to your Private Automation Hub.
- ▶ Automate Day 2 operations of Power and Z mainframe infrastructure and application use cases using Event-Driven Ansible. Integrating with your existing monitoring solutions or messaging bus is simple, enabling your teams to operate quickly and effectively in these environments.
- ▶ Keep an eye out for updates [here](#)



Technology Preview Support

Automation controller installation support for Linux on Power and Z

- ▶ Starting in AAP 2.4, we are providing the full Ansible Automation Platform for Linux on Power and Z systems.
- ▶ Organizations that utilise Power based systems or have mainframes that require strict management separation from the infrastructure can install the automation controller, and have the ability to automate their environments completely separately from the rest of their infrastructure.
- ▶ This provides the additional flexibility to automate whatever you need to, wherever you need to

Moving towards a more centralized UI

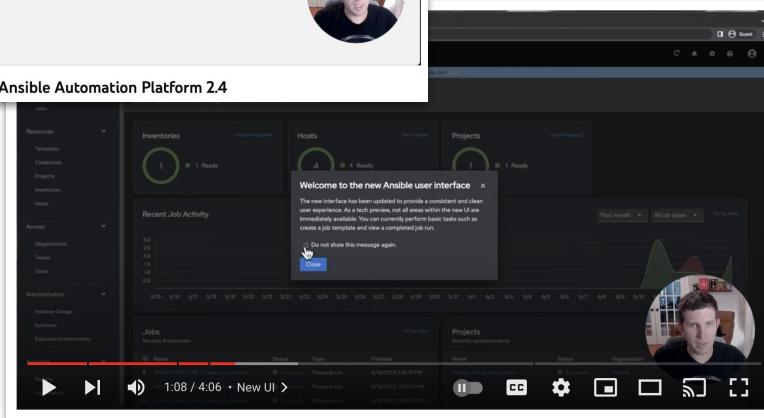
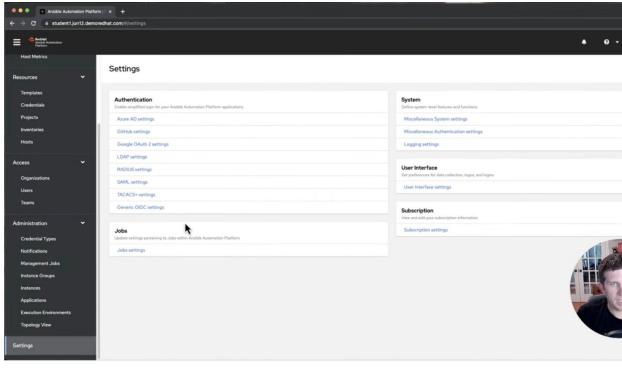
As we strive to deliver a more streamlined platform experience, several new UI features are in Technology Preview Support with the 2.4 release, including:

- ▶ New views in automation controller, including "Night mode" and system default setting matching
- ▶ On-premise analytics reports available directly in automation controller (if you opt-in to new UI preview settings)

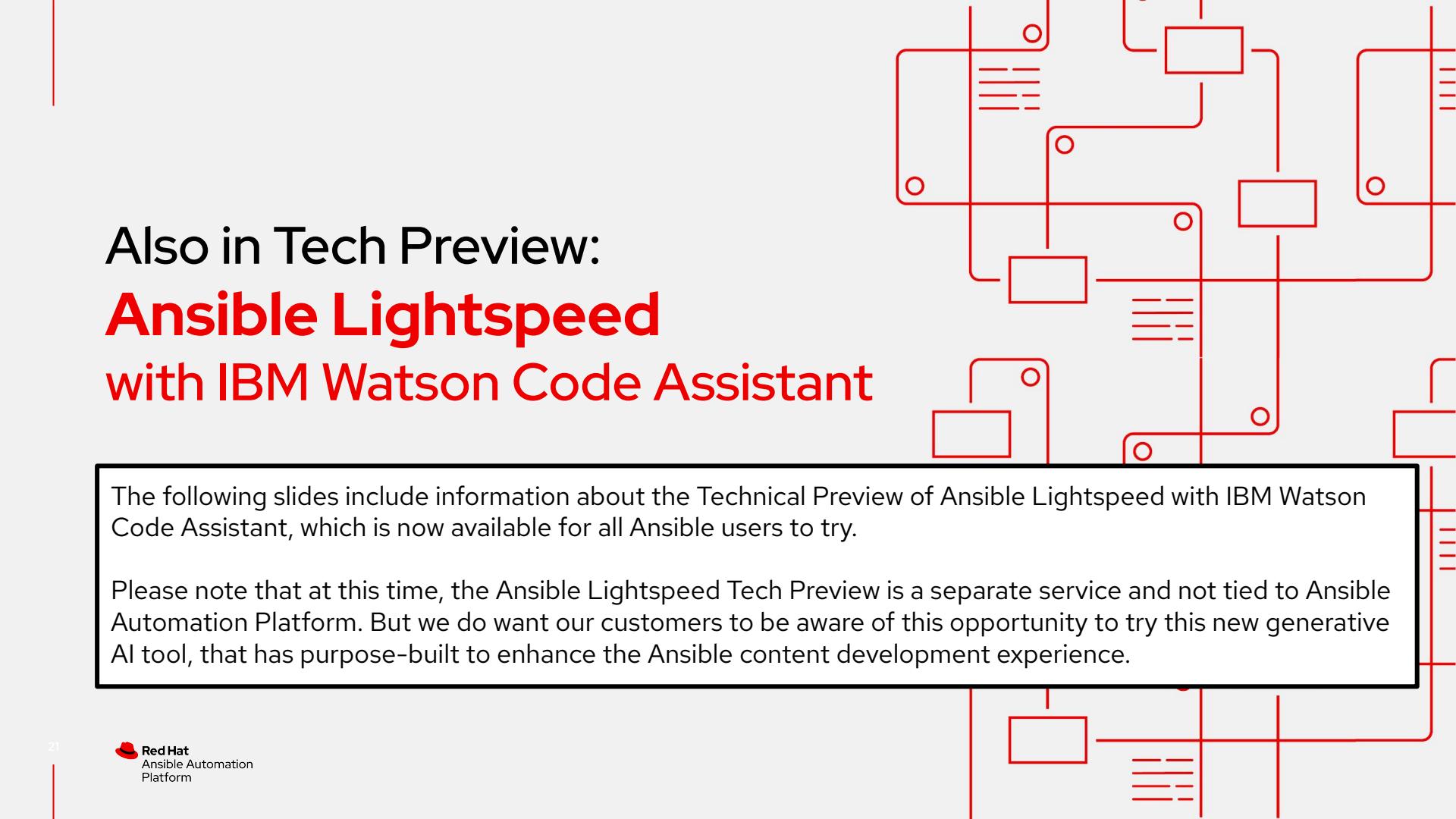
The image displays two side-by-side screenshots of the Red Hat Ansible Automation Platform's user interface. The left screenshot shows the 'Templates' view in a dark-themed interface, with a sidebar containing navigation links like 'Dashboard', 'Jobs', 'Resources' (with 'Templates' selected), 'Access', 'Administration', and 'Analytics'. The right screenshot shows the main 'Welcome' dashboard in a light-themed interface. It includes sections for 'Inventories' (1 inventory, 1 ready), 'Hosts' (4 hosts, 4 ready), and 'Projects' (1 project, 1 ready). Below these are sections for 'Recent Job Activity' (a line chart showing job counts over time) and 'Jobs' (a table of recently finished jobs, including details like ID, Name, Status, Type, and Date). Both screenshots feature the Red Hat logo and the text 'Ansible Automation Platform'.

Platform install support for Linux on Power and Z

Centralized UI features



Check out this quick 4-minute [demo video](#) for a walkthrough and enablement of the new UI features in Technology Preview Support.



Also in Tech Preview: **Ansible Lightspeed** with IBM Watson Code Assistant

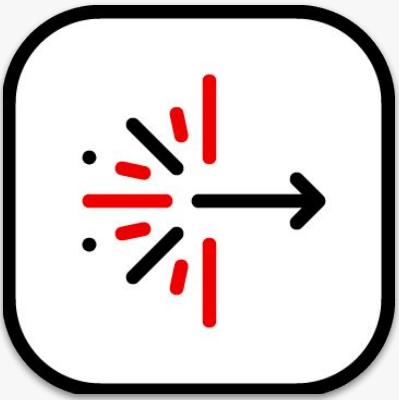
The following slides include information about the Technical Preview of Ansible Lightspeed with IBM Watson Code Assistant, which is now available for all Ansible users to try.

Please note that at this time, the Ansible Lightspeed Tech Preview is a separate service and not tied to Ansible Automation Platform. But we do want our customers to be aware of this opportunity to try this new generative AI tool, that has purpose-built to enhance the Ansible content development experience.

3 things to know about the Ansible Lightspeed Tech Preview

- 1** It is now available for **ALL Ansible users, for free**. It does not require an AAP subscription. All an Ansible user will need is a GitHub ID and the Ansible VSCode extension.
- 2** This is a limited service, with a **one primary capability: task generation**. The full featured Ansible Lightspeed with IBM Watson Code Assistant product offering is in development, and will be available later this year.
- 3** This is a **self-supported service**. Users should refer to the [Ansible Lightspeed technical preview docs on GitHub](#) for assistance.

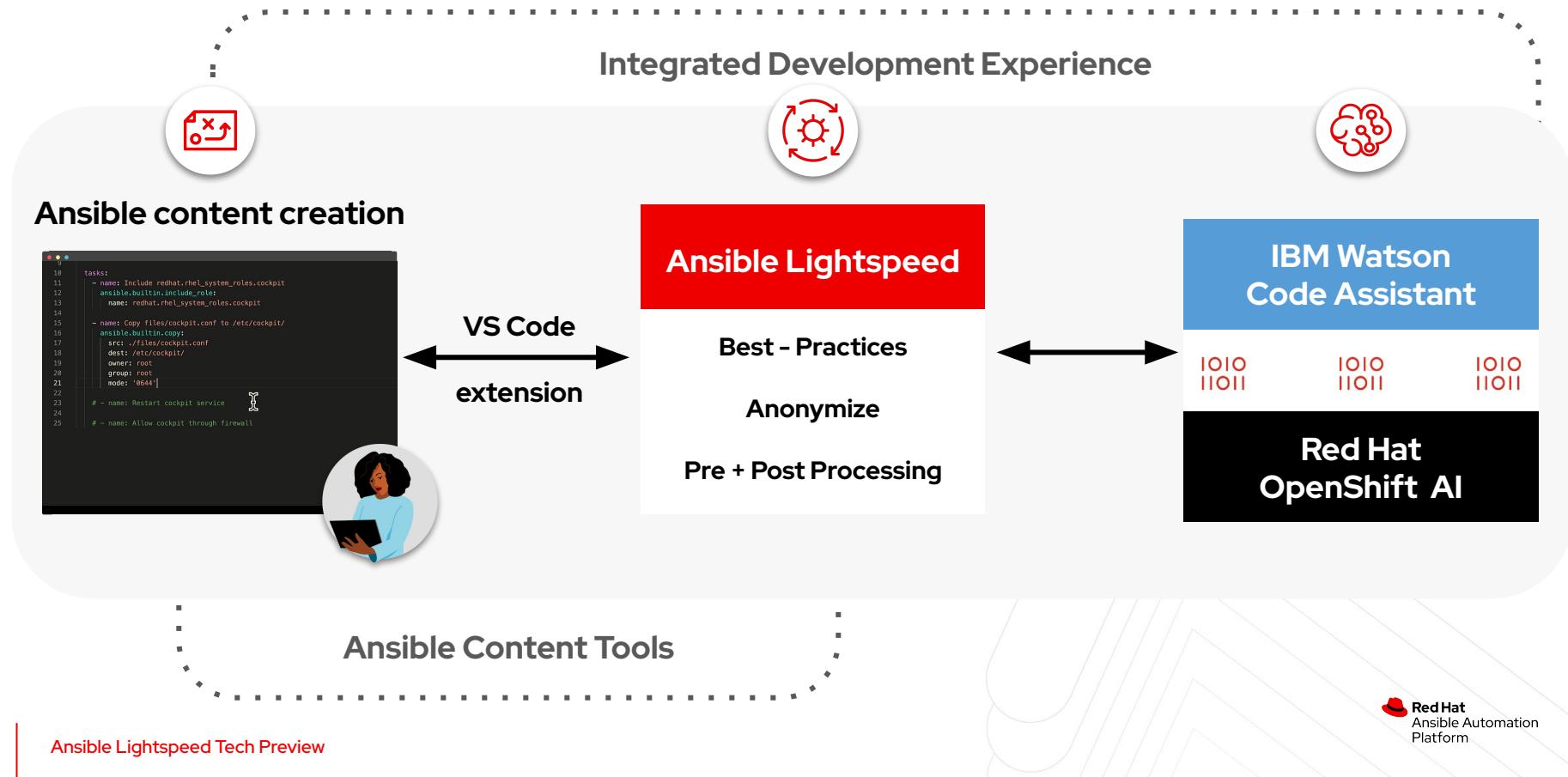
What is Ansible Lightspeed with IBM Watson Code Assistant?



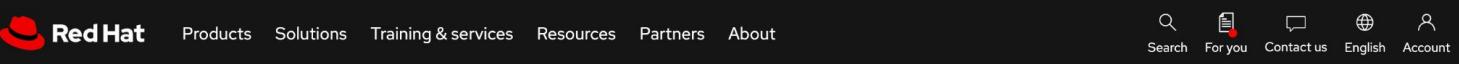
Ansible Lightspeed with IBM Watson Code Assistant is a generative AI solution engineered to help individuals, teams, and organizations automate faster.

By integrating developer tooling, access to Ansible-focused foundation models, and Red Hat + IBM automation expertise, Ansible Lightspeed streamlines and enhances the Ansible content creation experience.

Ansible Lightspeed enhances the automation development experience



Next step: try the Technology Preview service



The screenshot shows the Red Hat website's header with the Red Hat logo, navigation links for Products, Solutions, Training & services, Resources, Partners, and About, and a search bar with a magnifying glass icon. To the right are icons for 'For you' (a document), 'Contact us' (a speech bubble), and language/region settings (English, Account).

Technology preview: Ansible Lightspeed with IBM Watson Code Assistant

At Red Hat® Summit 2023, we announced the technology preview of Ansible® Lightspeed with IBM Watson Code Assistant, which will be publicly available to all Ansible users in the coming months. During the preview, you can explore the technology, further train our model, and offer feedback on your experience.

[Read the press release →](#)

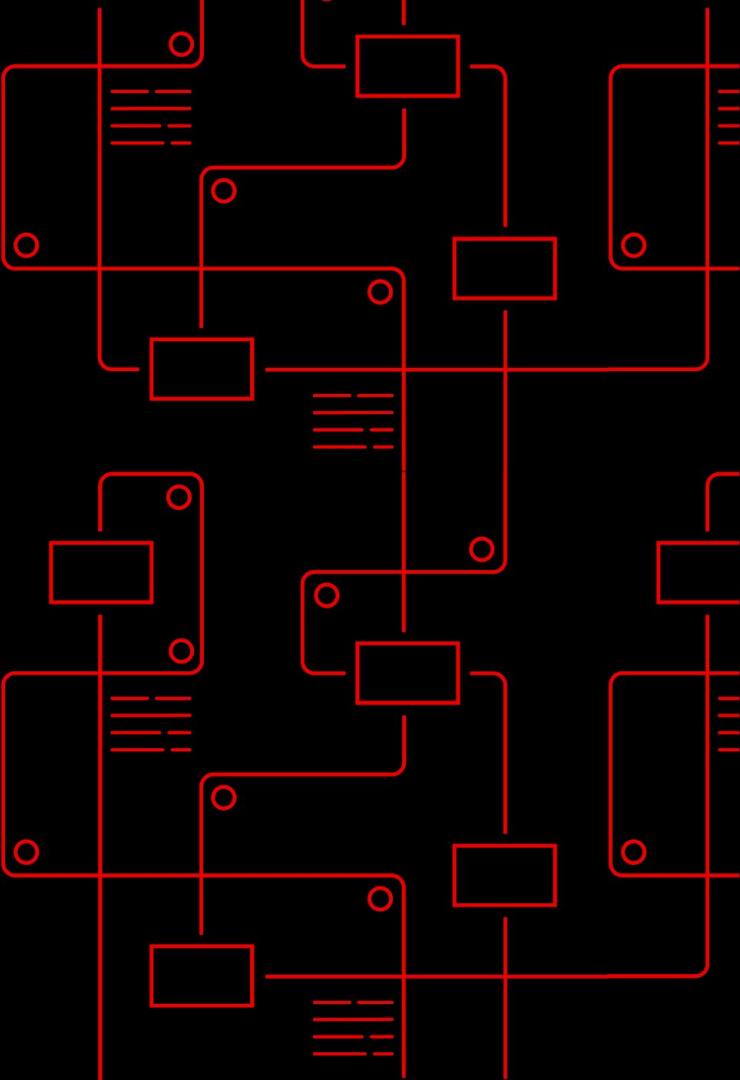
[Sign up to be notified →](#)



**Ansible
Lightspeed**
with IBM Watson Code Assistant

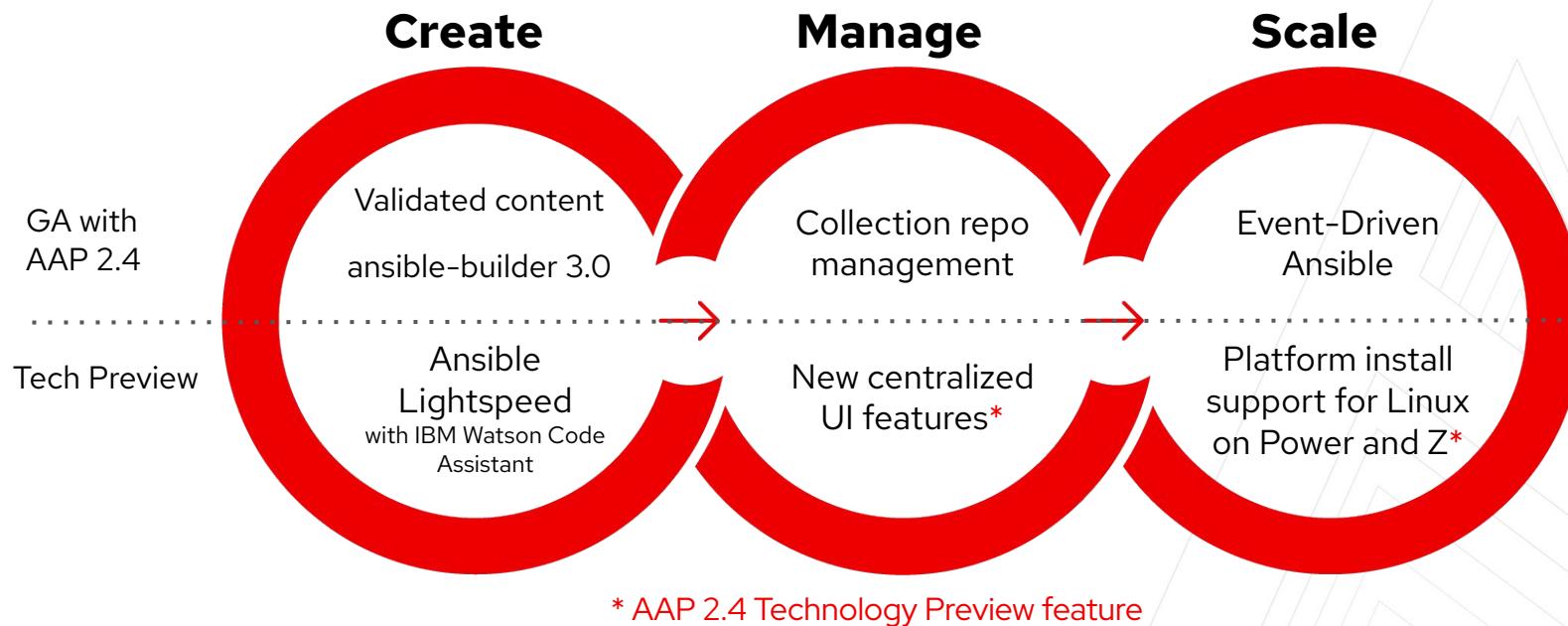
Visit www.redhat.com/ansible-lightspeed for more information and to get access

Recap + **Next steps**



Continued enhancements to the Ansible experience

Delivering on the core promise of Ansible Automation Platform 2



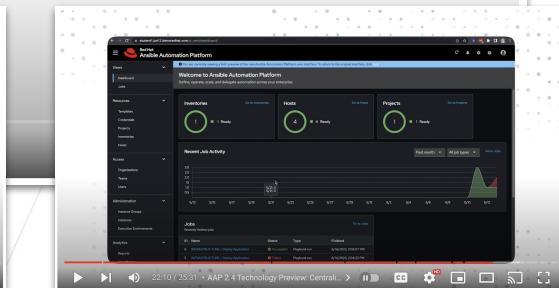
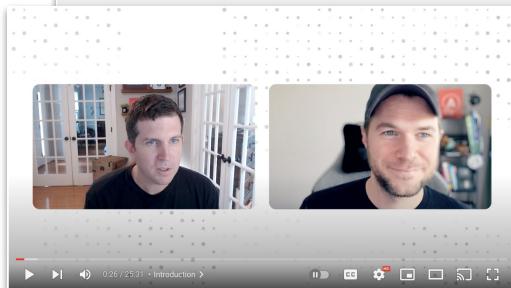
Ansible Automation Platform 2.4 overview video

See the new features in action

A guided tour of what you'll find
AAP 2.4, including demos
covering:

- ▶ Event-Driven Ansible
- ▶ Collection repo management
- ▶ Validated content
- ▶ UX enhancements

[YouTube link](#)



Red Hat
Ansible Automation
Platform

What's New with AAP 2.4

Sean Cavanaugh, Sr. Principal Marketing Manager
Colin McNaughton, Principal Technical Marketing Manager

Resources + next steps

Get started with Ansible Automation Platform 2.4 today

Check out the blog

Check out "[What's new in Ansible Automation Platform 2.4](#)" on the Ansible Blog for a deeper dive on the information you've seen in this presentation and links to additional resources.



See the improvements for yourself

Ready to get hands on? We have a number of [self-paced, on-demand labs](#) available, including a new one to explore [Event-Driven Ansible](#). These interactive learning scenarios provide a pre-configured Red Hat® Ansible® Automation Platform environment to experiment on.

Learn more about Event-Driven Ansible

Register for our free webinar, "[Work smarter using event-driven automation across IT operations](#)" to go deeper on Event-Driven Ansible and learn how it can help your organization get ahead.

Upgrade today

Are you still operating Ansible Automation Platform 1.2, or running AWX? Lifecycle support for Ansible Automation Platform 1.2 is ending *this September*, so the time to upgrade is now. Visit the [Migration Information](#) page for more information and resources.

Thank you

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