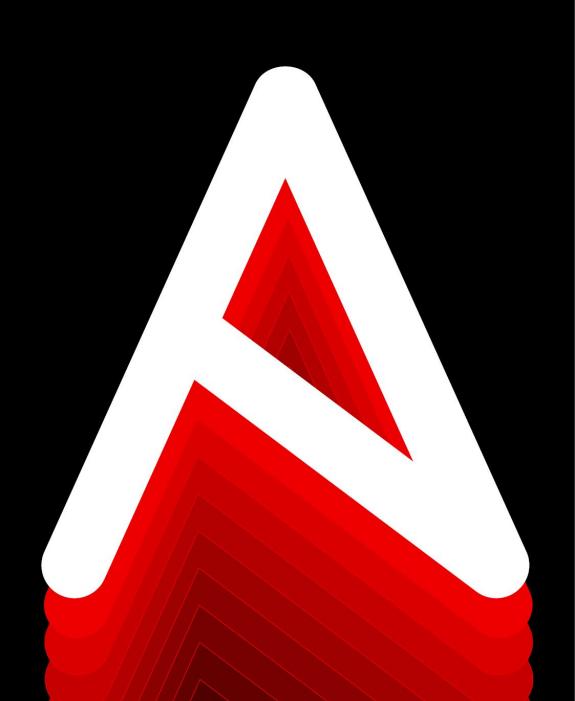


Ansible Automation Platform 2.5

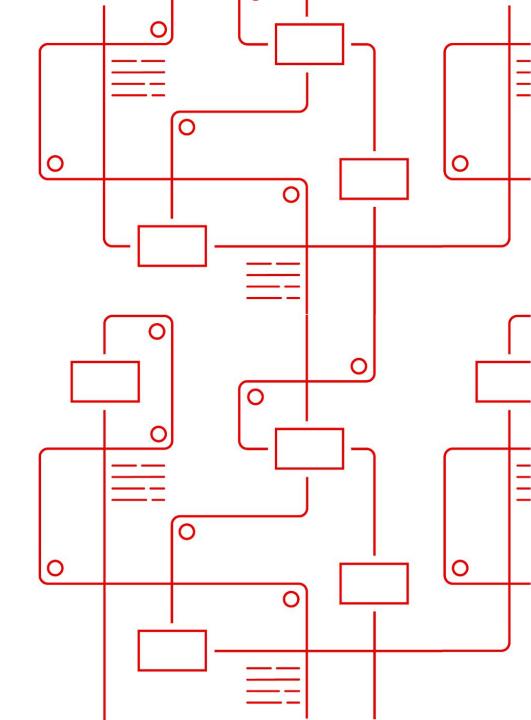
What's new & Roadmap

Götz Rieger

Principal Solution Architect, Red Hat



Accelerate automation adoption





Accelerate automation adoption

Release overview

Accelerate automation adoption

Empower automation engineers

Orchestrate across the enterprise

Upgrade Path

Next steps + resources

Unified UI

 A new and improved interface that delivers a consistent, centralized experience for operators, developers and platform administrators.



Containerized installation

> A new deployment type for those wishing to use containers for AAP, but don't need or want to deal with the complexity of Kubernetes, built on proven foundation of RHEL and Podman.



Ansible Quick Starts

• A new guided experience on how to perform all common platform tasks quickly and easily, enabling new users in your organisation to learn the pieces of Ansible Automation Platform that are most relevant to their needs



New collections for managing AAP

New "out of the box" content collections that provide enhanced capabilities for getting the most out of Event-Driven Ansible and more effectively centralizing authentication, authorization, and accounting.



New unified UI for a more cohesive platform experience

Release overview

Accelerate automation adoption: Unified UI

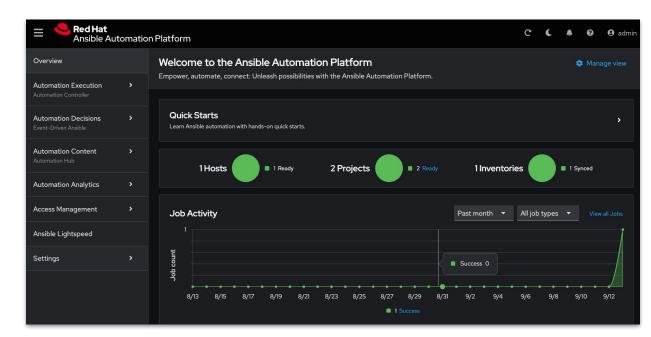
Empower automation engineers

Orchestrate across the enterprise

Upgrade Path

Next steps + resources

- > A new interface that delivers an improved experience for operators, developers and platform administrators, with a more consistent and centralized:
 - > WebUI
 - > API
 - > Authentication and authorization
 - > Role based access controls (RBAC)
- > Use Ansible Analytics directly within the unified UI to generate reporting at scale.
 - Automation Calculator: ROI reporting to demonstrate the value and impact of automation initiatives.
- > Upgrades in AAP 2.5 lay the foundation for future enhancements to the Day 2 operations platform experience.





Containerized platform installation

Release overview

Accelerate automation adoption: Containerized install

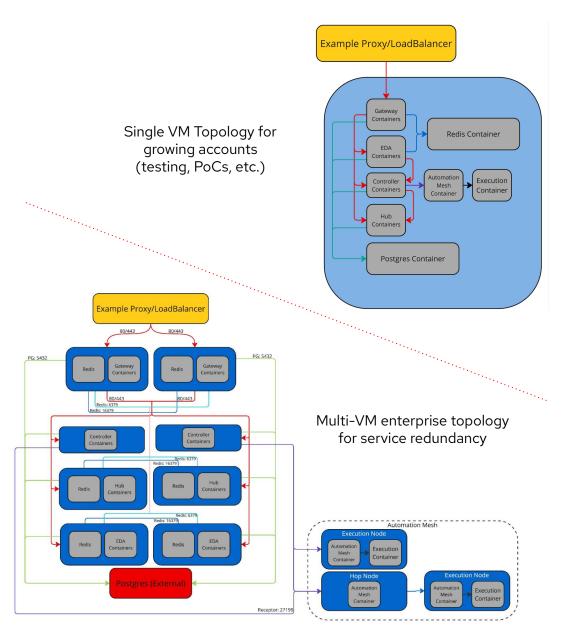
Empower automation engineers

Orchestrate across the enterprise

Upgrade Path

Next steps + resources

- A new deployment type for those wishing to use containers for AAP but not fully embrace or need the complexity of kubernetes
- Underpinned with proven RHEL and podman technologies
- Smallest AAP platform footprint potential from just a single VM
- Scalable to enterprise standards as per other recommended deployment options
- Designed specifically for environments where ease of installation, minimal footprint are essential
- Exact same platform functionality as any other AAP deployment option
- Ability to seed automation content and configuration at installation time providing a one-stop solution



Ansible quick starts

Release overview

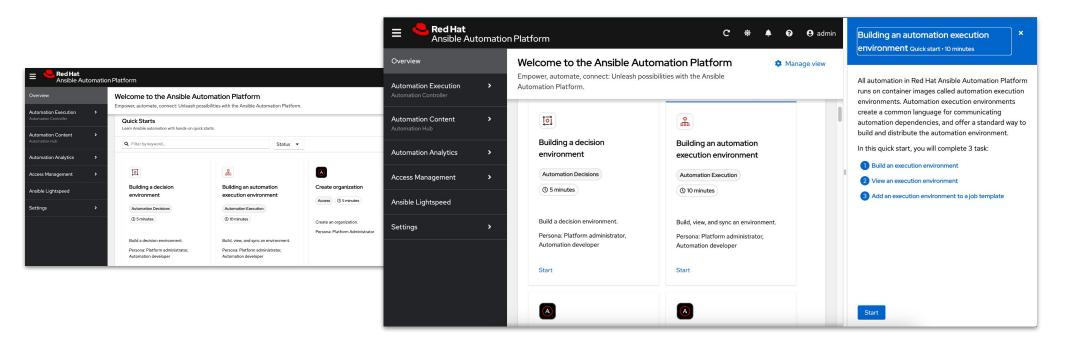
Accelerate automation adoption: Ansible quick starts

Empower automation engineers

Orchestrate across the enterprise

Upgrade Path

Next steps + resources



- New interactive, step-by-step guides for getting started quickly with key Ansible Automation Platform tasks and functions, accessed directly in the platform GUI
- Enable new users in your organization to learn the pieces of Ansible Automation Platform that are most relevant to their needs
- > Create pre-configured 'units' of automation such as execution environments and decision environments that teams can use as consistent, compliant project jump-starts, and establish the building blocks for running a centralized automation practice with flexibility and control



New collections for managing AAP

Release overview

Accelerate automation adoption: New collections for managing AAP

Empower automation engineers

Orchestrate across the enterprise

Upgrade Path

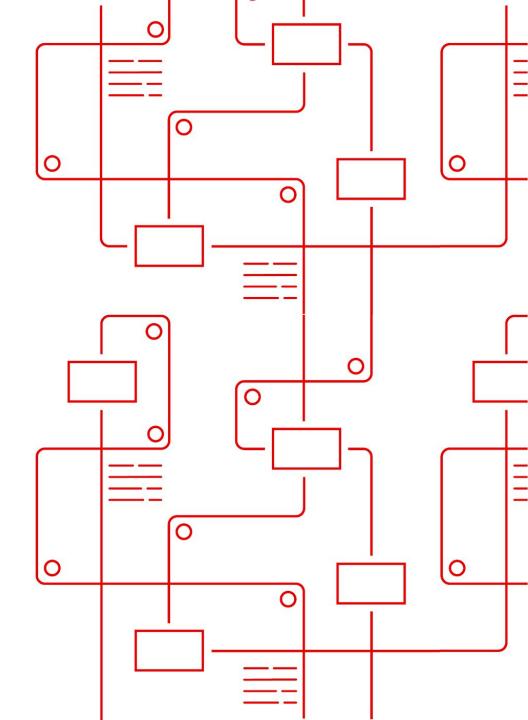
Next steps + resources

- Use Ansible Playbooks to configure and manage AAP with new and updated content collections for automating your automation'
- Use a standardized gitops 'as-code' approach to provide both automation content and platform configuration
- New or updated certified collections for platform services configuration:
 - **ansible.hub** for Automation Hub *new*
 - > ansible.eda for Event Driven Ansible controller *updated*
 - > ansible.controller for Automation controller *updated*
 - > ansible.platform for configuration of centralized platform services *new*
- > New or forthcoming validated collections:
- > infra.hub_configuration
- > infra.platform_configuration
- > infra.controller_configuration
- > infra.eda_configuration

Red Hat Hybrid Cloud Console	Services	ŧ.			¢ ک
Ansible Automation Platform	Automation Hub > Collections				
Ansible Automation Platform	Collections				
Overview	T Repository - Filter by reposito	ry - Q Name	- IA		
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Automation Hub 🗸	,,				
Collections	(Validated) @ Signed)	(Validated) (Signed)	A (Validated) (Signed)	(Validated) (Signed)	
Partners	•	•	•	•	
Task Management	ah_configuration Provided by Red Hat	controller_configuration Provided by Red Hat	eda_configuration Provided by Red Hat	telemetry Provided by Red Hat	
Connect to Hub	Ansible content that interacts	A collection of roles to manage	Ansible content that interacts	An Ansible Collection for	
Automation Analytics	with the Ansible Automation H	Ansible Controller	with the Ansible EDA Controll	managing telemetry	
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Ansible Service on AWS					
Documentation 🗹					
A Red Hat Insights					
Inventory					
Advisor >					1-4 of 4 👻



Empower automation engineers





Release overview

Accelerate automation adoption

Empower automation engineers

Orchestrate across the enterprise

Upgrade Path

Next steps + resources

Empower automation engineers

Integrated development capabilities designed to bolster efficiency for a range of skill sets across the entire automation creation lifecycle.

From the command line...

The Ansible developer tools package included with the platform has gotten fresh updates designed to help automation developers:

- > Work more efficiently
- Integrate directly with existing secure pipelines
- > Ensure created content adheres to Ansible best practices.

to integrated Al...

The Ansible Lightspeed generative Al service is constantly evolving. Key enhancements include:

- The ability to generate full Ansible playbooks with guided text prompts, along with step by step explanations of what the generated playbooks will do.
- Workstation, Devcontainer, and DevSpaces authentication support.
- A 90-day trial with watsonx Code Assistant.

to building communities

୍କ ଅନ୍ୟର୍ଚ୍ଚ

New Ansible plug-ins for Red Hat Developer Hub (Backstage) provide a portal-like experience that enables collaborative creation across teams, with:

- Built-in learning resources for onboarding new automation engineers
- The ability to quickly create new Ansible projects with supplied software templates
- Optional OpenShift DevSpaces integration that allows linked one-click development environments.



Release overview

Accelerate automation adoption

Empower automation engineers: Ansible development tools

Orchestrate across the enterprise

Upgrade Path

Next steps + resources

Ansible development tools

Supported, enterprise-grade components to enable building, testing, and deployment of Ansible

		·
Create	Test	Deploy
ansible-creator Scaffold projects and content	Ansible Molecule Functional test runner for collections, playbooks, and roles	ansible-builder Build Ansible execution environments
ansible-navigator Develop and troubleshoot with execution environments	ansible-lint Identify and correct stylistic errors and anti-patterns	ansible-sign Sign and verify Ansible content
Enhanced VS Code integration Native graphical user interface to Ansible development tools	pytest-ansible Added functions for module and plugin Python code unit testing	
Ansible development environment Build and manage virtual environments for content development	tox-ansible Test collections under different Python interpreters and Ansible core versions	

- A comprehensive suite of **enterprise-grade** automation development capabilities that are packaged, curated, supported, and opinionated to make it easier for automation developers to build, test, and deploy Ansible content
- > Integrates easily into existing secure pipelines, enabling more experienced content creators to write Ansible content quickly and accurately
- > Dedicated tooling for establishing a trusted software supply chain (Ansible-sign)



Release overview

Accelerate automation adoption

Empower automation engineers: Ansible Lightspeed upgrades

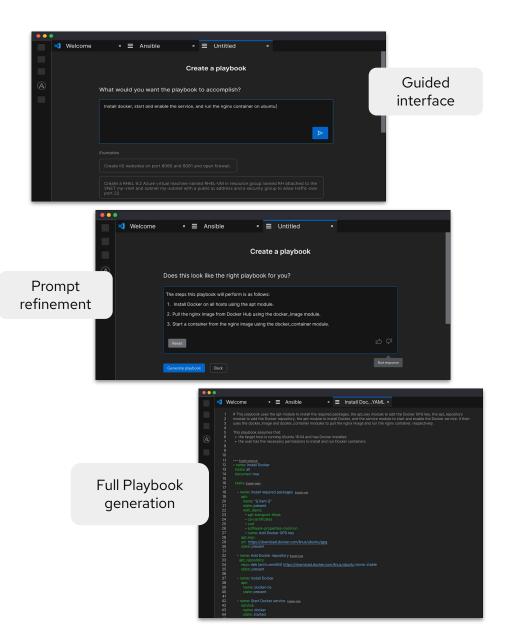
Orchestrate across the enterprise

Upgrade Path

Next steps + resources

Upgrades to Red Hat Ansible Lightspeed with IBM watsonX code assistant

- New capabilities and features that expand the impact of generative AI on the Ansible experience:
 - Integrated user guide interface for maximum ease of use
 - On-the-fly prompt refinement for better contextual clarity and correctness
 - Generation of a full Ansible Playbook with a simple text prompt
- > Workstation, Devcontainer, OpenShift Dev Spaces Authentication support.
- On-prem deployment now available for disconnected/regulated environments
- Easily let your teams gauge value for themselves with a <u>free 90 day trial of Red Hat Ansible Lightspeed with</u> <u>IBM watsonX Code Assistant</u>



Release overview

Accelerate automation adoption

Empower automation engineers: Ansible plugins for RHDH/ Backstage

Orchestrate across the enterprise

Upgrade Path

Next steps + resources

Ansible plugins for Red Hat Developer Hub (Backstage)

Tools for building and maintaining a vibrant automation Community of

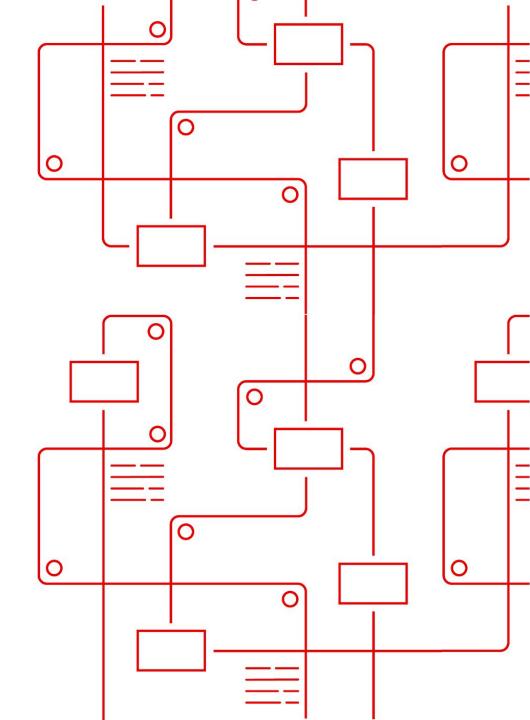
Practice

- An Ansible-specific portal experience featuring learning paths, labs, and other user onboarding resources, all designed to help your organization:
 - Onboard new users faster
 - ✓ Improve developer productivity
 - Reduce friction, context switching, and frustration
 - Get faster time-to-value from your automation investment
 - Establish better governance, consistent control, and more trust
- Enables push-button Ansible Playbook and collection creation with opinionated best practices
- > RBAC integration with <u>Red Hat Developer Hub</u>
- > Optional integration with OpenShift Dev Spaces

	This Ansible out-of-the-box ex							
		My Items Create Learn						
J		LEARNING PATHS Step-by-step enablement curated by Red Hat Ansible.						
g Paths 	 Learning Paths Labs 	1.Introduction to Ansible 30 minutes Ansible Beginner Learning path	2.Getting started with the Ansible VS Code extension 1 hour Ansible Beginner Learning path		Essentials for Ansible Ansible Beginner Learning path			
dar	Useful links: Ansible learning paths on Red Hat Developer website 🖄 Red Hat Learning Subscription 🖄	Learn more about the fundamental concepts of Ansible, an open source IT automation solution that automates provisioning, configuration management, application deployment, orchestration, and many other IT processes.	Do a deep-dive into the features of Anable VS Code extension, the Rel Hat ecommended way of creating your Anable projects, which brings synta-highlighting, auto-completion, linting, and generative Al to your automation creation workflows.	Platform use straightforwa	about YAML and how Ansible Automation s it for content. YAML offers a arg, human-readable way to write Ansible rs, tasks, and playbooks.			
	Ansible definitions							
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Orchestrate across the enterprise





Release overview

Accelerate adoption at scale

Empower automation engineers

Orchestrate across the enterprise

Upgrade Path

Next steps + resources

Orchestrate across the enterprise

Advance your automation with the ability to automatically respond to changing IT conditions

Automate at scale

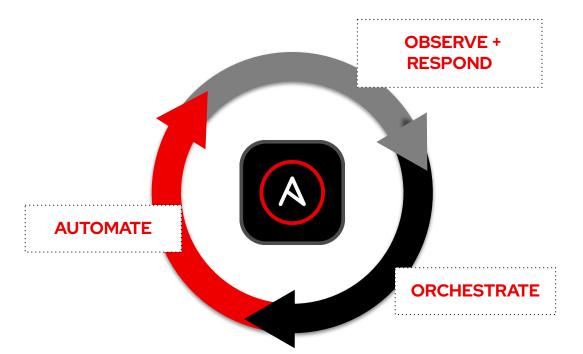
Take on any automation use case, across any IT domain, and tap into the huge ecosystem of Ansible technology partners and integrations

Turn intelligence into action

Event-Driven Ansible helps make your observability tools more actionable, turning events from a variety of sources into automated workflows.

Orchestrate across the enterprise

Make end-to-end automation a reality, with automated workflows that connect across the entire stack, integrate with all of your tooling, and use real-time intelligence from your observability platforms to deliver performance and resilience at scale.





Event-Driven Ansible | Event Streams

Build more connections for orchestrating across your stack

Release overview

Accelerate automation adoption

Empower automation engineers

Orchestrate across the enterprise: Event-Driven Ansible Event Streams

Upgrade Path

Next steps + resources

We are excited to introduce *event streams* as part of the AAP 2.5 release. This new feature greatly simplifies how event routing works to get events from their source to your rulebooks.

Event streams are an easy way to connect sources to Ansible Rulebooks, and they enable:

- > Webhook-based sources, automatically routed to one or many configured rulebook activations.
- EDA to handle delivery of events to horizontally scaled rulebook activations.
- EDA to receive events from even more sources. Any system that can emit webhooks (*GitHub*, *Service-Now*, *Gitlab*, etc.) can now directly send events for Ansible Automation Platform to process.

Event-Driven	Ansible controller					с *	¢ 0 0 8
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ule Audit	Connect intelligence, analytics and se	ervice requests to enable more responsi	ve and resilient automation.				
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	08/11 08/	12 08/13	08/14 08/15	08/16	08/17 08/18	08/79 08/20	
			34 Success	31 Failed			
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	Insights Events	Completed	Insights-EDA		tenable-advisory	C Running	
	Dynatrace	 Completed 	Default DE ansible-rulebook		Insights-eda-advisory	C Running	
	Rule Audit ③	Go to Rule Audit					
	Name	Status					
	Tenable Advisory	Success					
	Tenable Advisory	Success					
	Tenable Advisory	Success					
= 🥌 Red Hat Event-[Driven Ansible controller						🌣 😧 😝 admi
	Rulebook Activatio						
Rule Audit	Rulebook activations are rule	books that have been activated to run.					
Rulebook Activations	Name starts with	→ + Create ru	lebook activation				3of3 ▼ < >
Projects	ID	Name	Status	Number of rules	Fire count	Restart count	
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Access	▼	tenable-advisory	C Running	1	8	0	(1)
Users Roles	> 🗆 22	Insights-eda-advisory	🗘 Running	1	8	0	(1)
Credentials							



Release overview

Accelerate automation adoption

Empower automation engineers

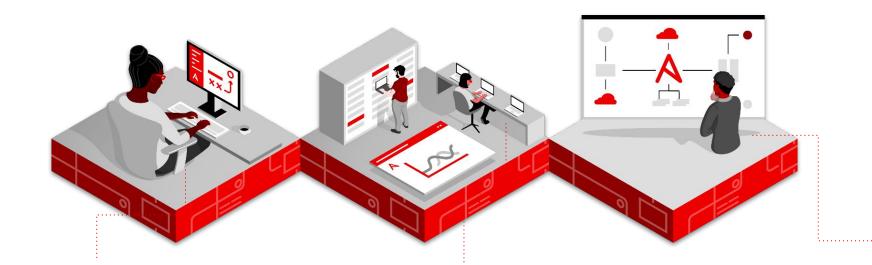
Orchestrate across the enterprise: Event-Driven Ansible Event Streams

Upgrade Path

Next steps + resources

Event-Driven Ansible | Event Streams

Example use cases



As a **developer**, I would like to reload and refresh my web servers when I commit new code to my repo. As a **virtual infrastructure administrator**, I would like that when the system detects virtual machines that have not been used for 1 month that EDA is sent an event to call automation that archives the virtual machine and reclaims the resources in the datacenter.

As a Service Now administrator, |

want to be able to execute ansible automation that will automatically fail over my data center if the number of support tickets that alert me to network failure goes above my threshold.



Event-Driven Ansible | Enterprise enhancements

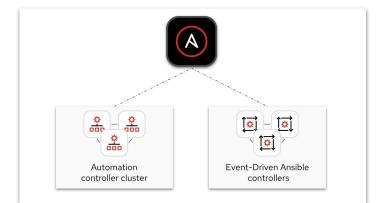
Release overview

- Accelerate automation adoption
- Empower automation engineers

Orchestrate across the enterprise: Event-Driven Ansible Enterprise enhancements

Upgrade Path

Next steps + resources



High availability + scalability

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

= <a>Red Hat Ansible Au	tomation Platform	Q 🌲 O Administrator	- 🕚
Overview	Credentials		
Automation Execution Automation Controller	Credentials are utilized by EDA for auth	hentication when launching rulebooks.	
Automation Decisions Event Driven Automation	▼ T Keyword ▼ Fi		\sim
Rule Audit Rulebook Activations	Name T	Delete credential Type	
Projects Decision Environments	Ansible Galaxy	Ansible Galaxy/Automation Hub API Token	/ 1
Automation Content Automation Hub	Credential name 1	Ansible Galaxy/Automation Hub API Token	/ !
Automation Analytics	Credential name 2	Ansible Galaxy/Automation Hub API Token	/ :
Access Management	Credential name 3	Ansible Galaxy/Automation Hub API Token	/ 1
Authentication Organizations	Credential name 4	Ansible Galaxy/Automation Hub API Token	/ 1
Teams Users	Credential name 5	Ansible Galaxy/Automation Hub API Token	/ :
Roles Credentials	Credential name 6	Ansible Galaxy/Automation Hub API Token	/ :
Credential Types		1-10 of 37 ▼ ≪ < 1 of 4	> >>

E Ced Hat Ansible Aut	omatio	n Platform			ଦ୍≰ତ ତ	Administrator 👻 🦲
verview		Users				
utomation Execution		A user is someone who has access to EDA with assoc	iated permissions and credentials.			
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Rulebook Activations						Edituser
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Roles						
Credentials		> 🗆 trahman	Taufique	Rehman		ø :
Credential Types						

Credential management

- Enterprise Credential Management for securing Event Sources.
- Encrypted Credentials can be passed to Event Sources or Event Streams can be configured with Credentials to secure event authentication.

Integrated platform experience

- Event Driven Ansible is now a fully integrated Ansible Automation Platform component.
- Leverages platform features such as Unified UI, Centralized RBAC, Single-Sign On and 3rd Party Authentication like LDAP.



Release overview

Accelerate automation adoption

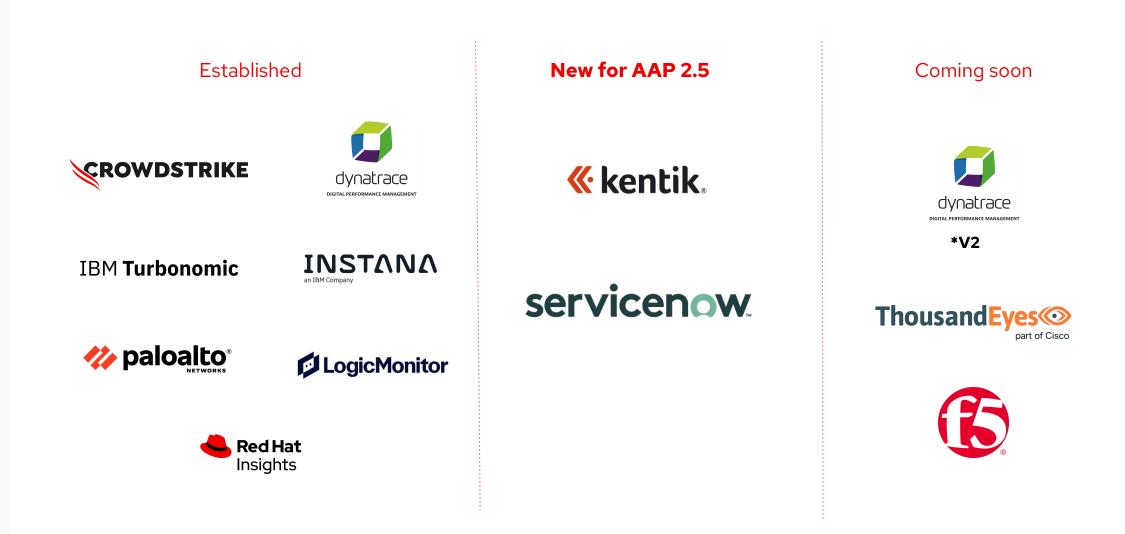
Empower automation engineers

Orchestrate across the enterprise Event-Driven Ansible Integrations

Upgrade Path

Next steps + resources

Event-Driven Ansible | Integrations





Release overview

- Accelerate automation adoption
- Empower automation engineers
- Orchestrate across the enterprise: Ecosystem integration updates
- Upgrade Path
- Next steps + resources

General updates

- Enhanced Content Collection experience designed to make it easier to find, promote, and consume Ansible content within the platform.
 - 12 new collections certified
- New partners added, deepening the Ansible ecosystem:
 - Automatics.Al
 - > H3C

>

>

- > Kentik
- > Netbox
- > Opengear
- > Zscaler

Infrastructure / OS

Ecosystem integration updates and enhancements

- Extended support for Microsoft
 Windows Server, including automation of Active Directory use cases.
- ServiceNow / Event-Driven Ansible collection for providing outbound notifications from SNOW to EDA
- Terraform Inventory plug-in to use Terraform state files as an AAP inventory source, and review Terraform plan output before applying it to a workflow.

Virtualization

 Extended support for VMWare, leveraging both SOAP and REST APIs. This includes support for vSphere 6, 7 and 8 plus Validated Content for key use cases

Networking + Edge

- New Cisco Intersight Collection to better manage UCS landscape with Intersight
- New Cisco Meraki collection to automate Meraki cloud-controlled remote devices. New NetBox Labs collection to integrate with Network Sources of Truth.
- New Validated Content for configuration backups, routing protocols, interfaces lifecycle, and GitOps scenarios. And new resource modules for vrf, EVPN-VXLAN configuration lifecycle.

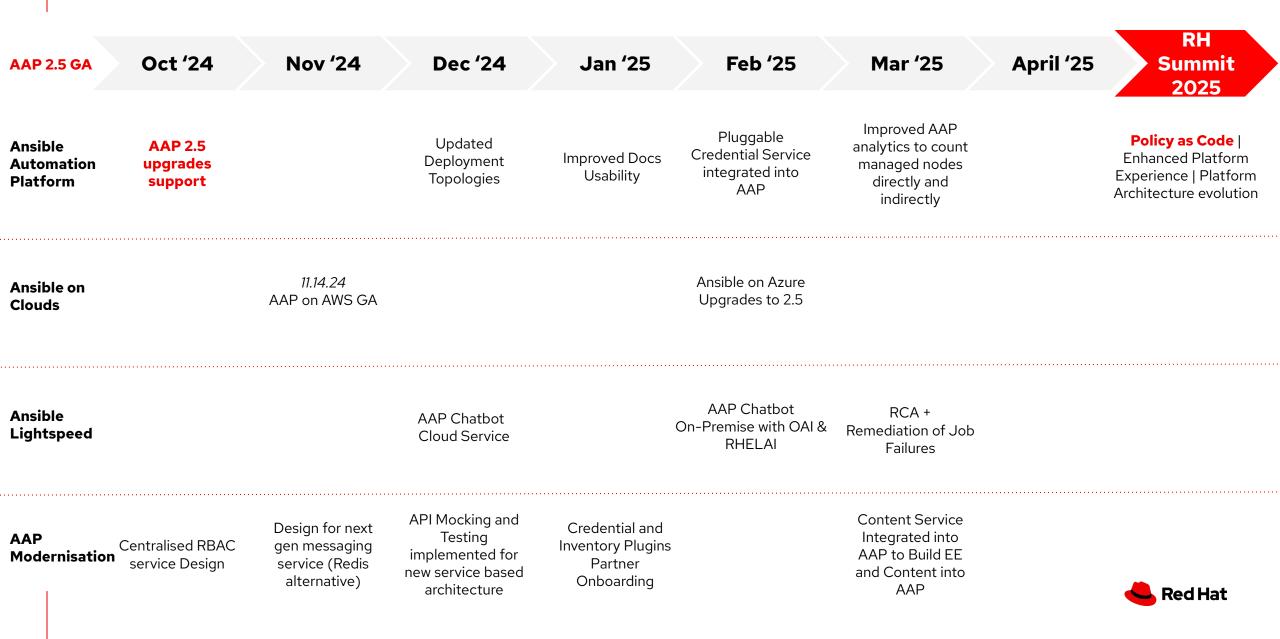
Cloud

 Improved Azure collections to support Managed Identity Providers



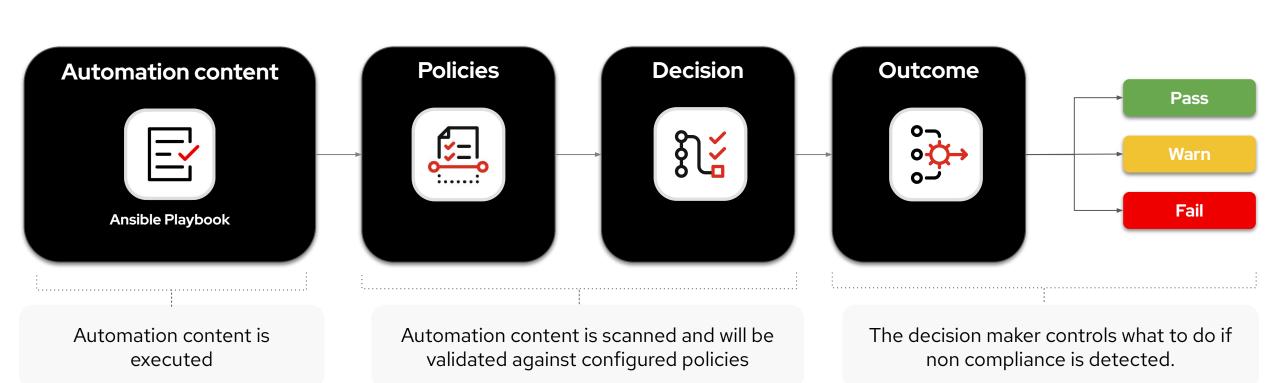
2025 Roadmap

Product roadmap | The Road to Summit '25



Product roadmap | Automated policy enforcement

Process overview





Thank you





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