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2021 Roadmap

Key Initiatives through Fall 2021

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Agenda

- What is Red Hat Ansible Automation Platform?
- High Level Timeline
- Ansible Platform Components
- Ansible Hosted Services
- Ansible Content
- Summary & Next Steps



Red Hat Ansible Automation Platform

Ansible Automation

Ansible technologies combined into
a product delivered to customers

Ansible Cloud Services

Ansible hosted platform services
provided via cloud.redhat.com

Ansible Content

Ansible Technology Use Cases Delivered via Automation Hub

Powered by Ansible - The Universal Automation Language fuelled by the Open Source Community

Roadmap Timeline 2021

Ansible Automation Platform 2.0
Announcement

Announced at Red Hat
Summit 2021

April

Ansible Automation Platform 2.0
General Availability

Includes support of Execution
Environments, Ansible Builder, and
Ansible Navigator

June

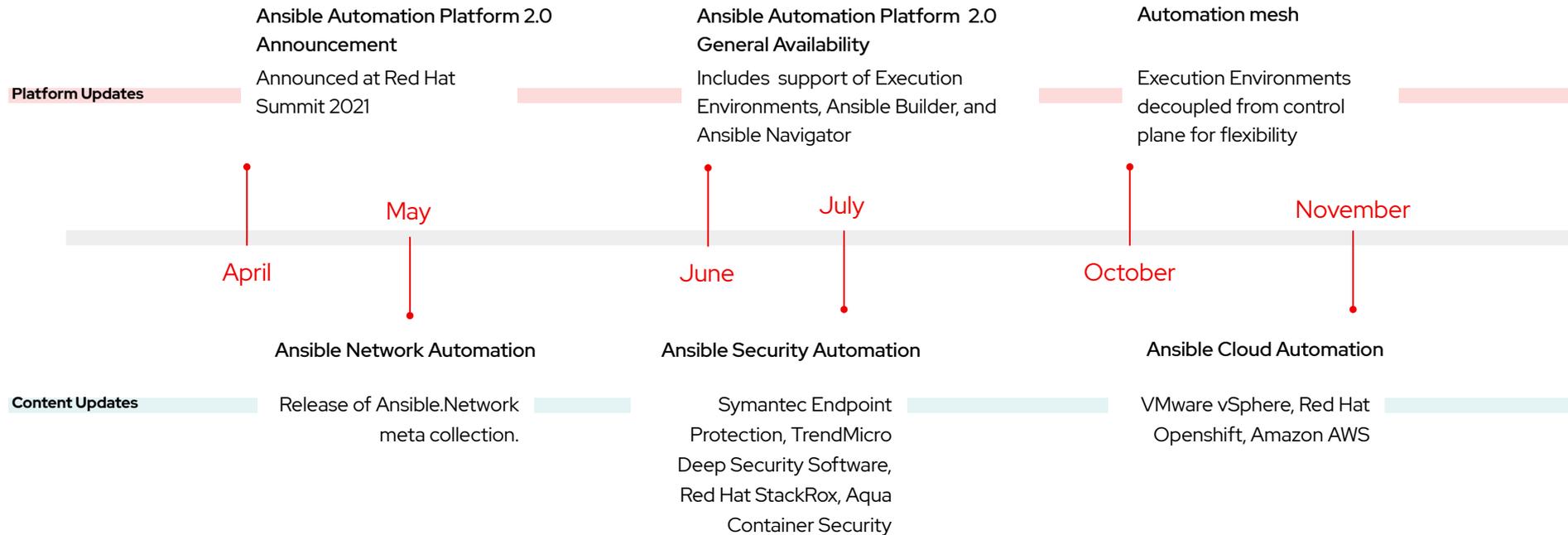
Automation mesh

Execution Environments
decoupled from control
plane for flexibility

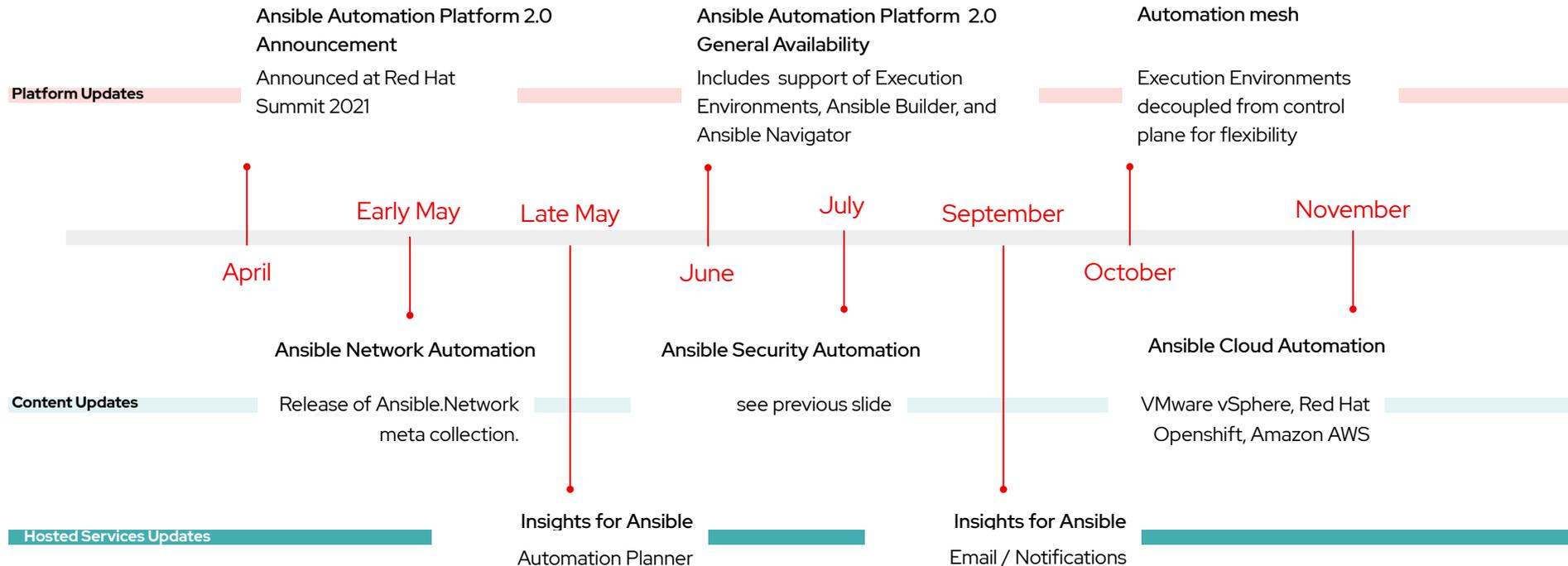
October

Platform Updates

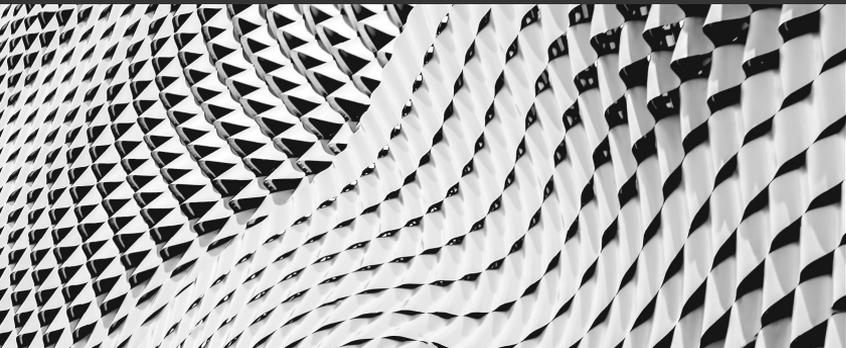
Roadmap Timeline 2021



Roadmap Timeline 2021

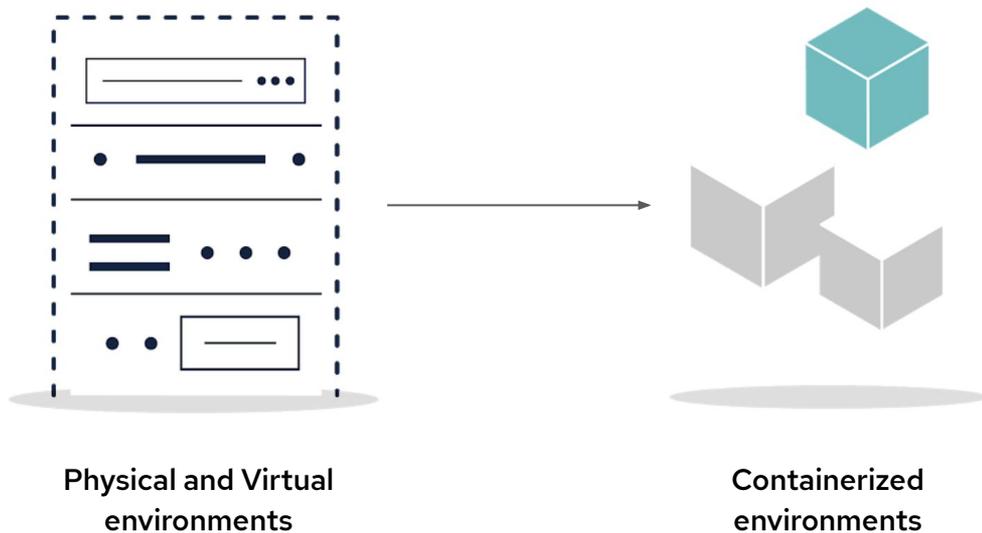


Ansible going Cloud-Native

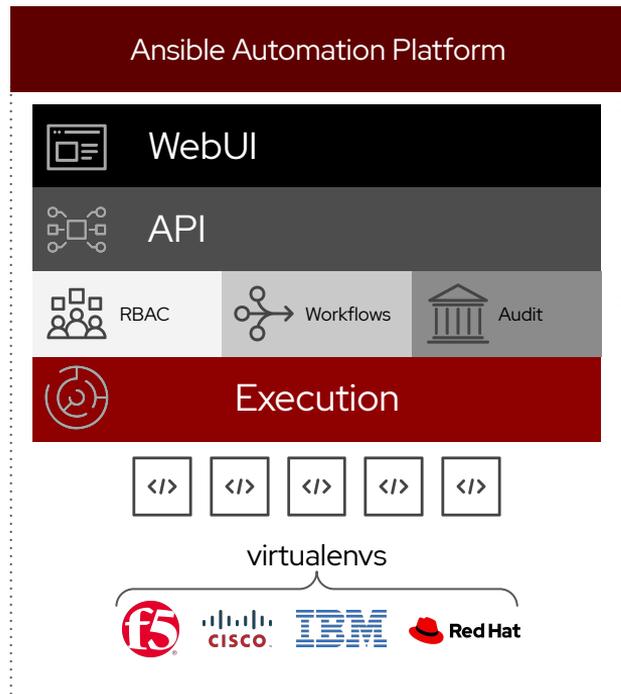


Ansible originally designed in a server-client architecture and then moved to cluster type architecture, however scalability has proven to be an issue and new needs bring new designs.

Leveraging Cloud-native

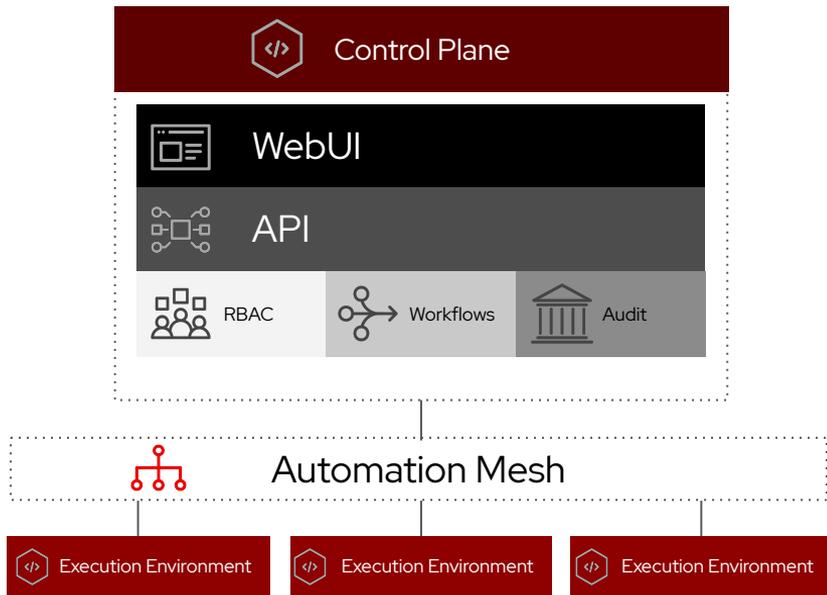


Current Architecture



- Centralized, monolithic application
- Control node contains control plane and execution plane
- Poor scalability, rigid architecture

Future Architecture



- Decentralized, modular application
- Decouple control plane and execution plane
- Containerized execution environments

Ansible Platform Components



- High level view of all components
- Updates to Ansible Tower
- Updates to Automation Hub
- New platform components coming
- Deep dive of business solutions for new components



Red Hat Ansible Automation Platform

Developer Tools



Ansible Builder



Ansible-test



Molecule & Ansible-lint*



Ansible
Navigator

Automation Execution



Automation Controller**



Ansible Core



Execution Environments

Content Distribution & Container Registry



Private Automation Hub

Ansible on OpenShift



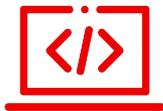
Platform Operator

* Functionality missing from platform story

** formerly known as Ansible Tower

What is Ansible Core?

Ansible Core



cli



framework



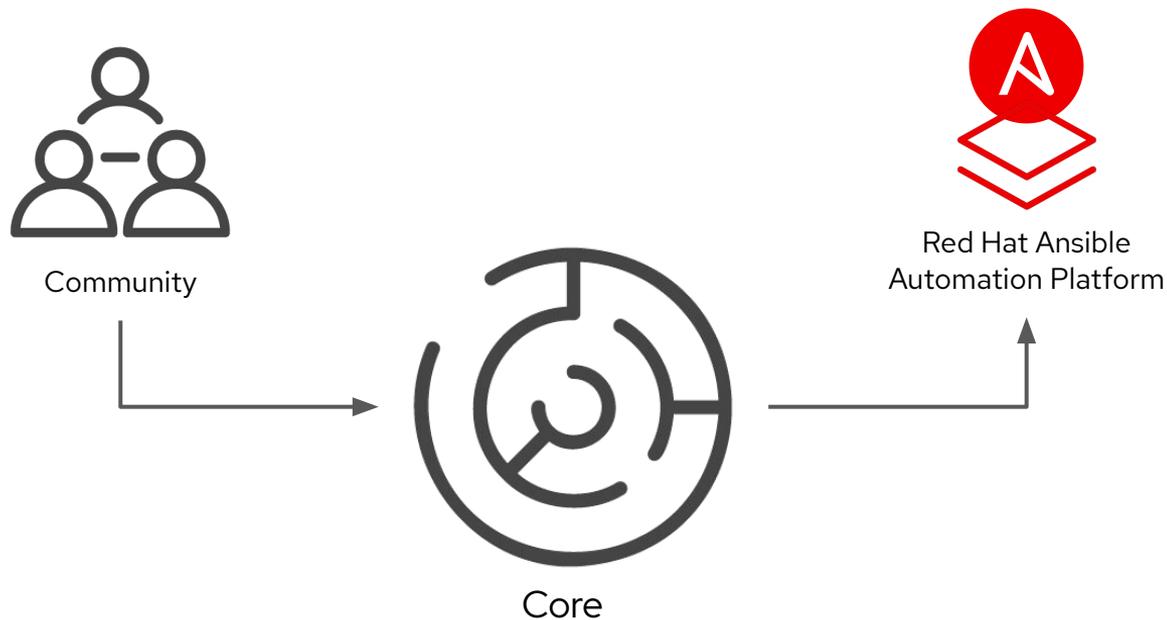
language



functions

- **cli** - this includes `ansible`, `ansible-playbook`, `ansible-doc` and numerous other command line utilities for driving and interacting with automation
- **language** - Ansible uses YAML to create a very succinct but powerful set of rules for developing Ansible Playbooks.
- **framework** - this architecture allows pluggability by using collections to be installed and operated from Automation Hub and Ansible Galaxy
- **functions** - this includes conditionals, blocks, includes, loops and other Ansible imperatives

Why is Ansible Core important?



New platform components

Ansible Builder*



Command line tool leveraging podman that builds Ansible environments inside a container.

Ansible Navigator*



Command line tool for Execution Environments. Provides enhanced and familiar experience for Ansible creators.

Ansible Platform
Operator



Package, deploy and manage Red Hat Ansible Automation Platform on Openshift Compute Platform (OCP)



Ansible Navigator

Top-level interface for Platform enterprise developers

Challenge



Containerized execution introduces new challenges for developing, testing, and deploying Ansible content destined for Automation Controller*.

Solution & Business Value



Provides a more cohesive, more consistent, predictable, top-level developer experience for content destined to be run on the Platform. Leverages existing CLI knowledge while introducing enhancements due to containerized execution.

Technical Implementation



Ansible navigator is discrete Python application bundled with Ansible Automation Platform.

Private Automation Hub

Private content repository for sharing automation

Challenge



Customers have inconsistent way to share trusted content across an increasingly diverse set of technologies and domains

Solution & Business Value



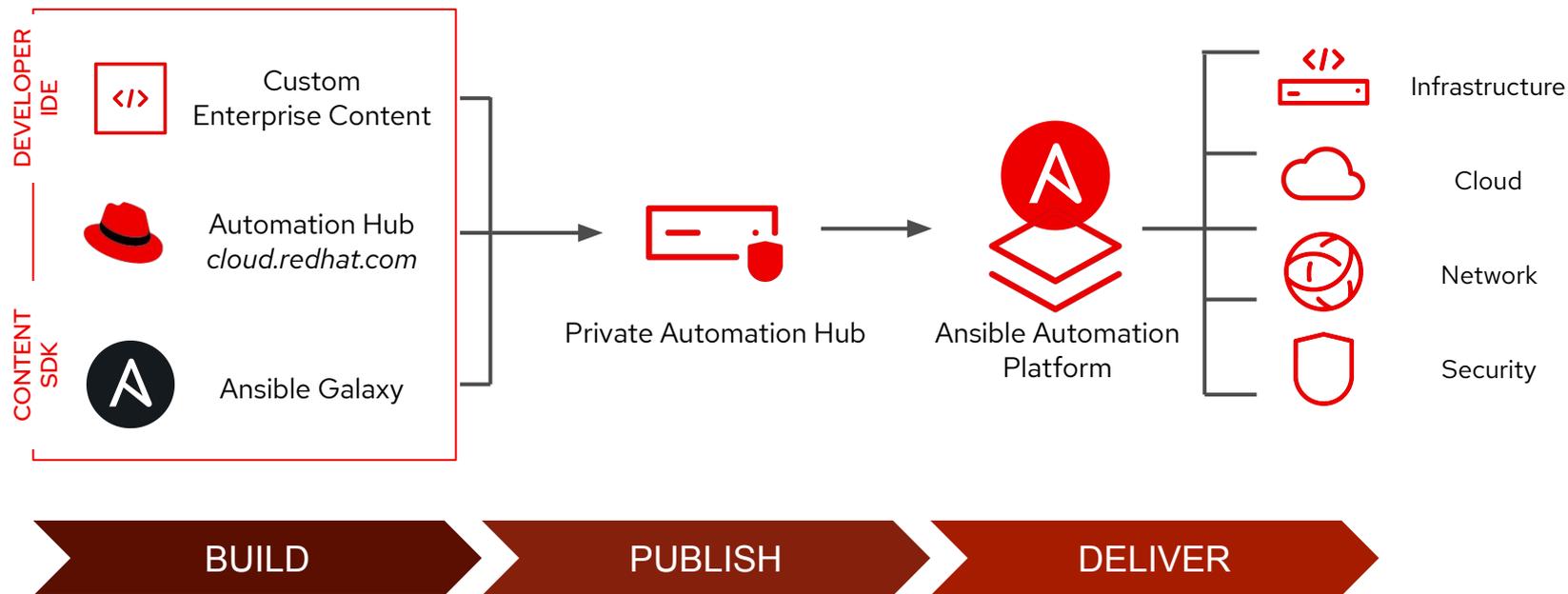
Private Automation Hub allows organizational administrators to curate which content is available to creators, and reshare internal content across the enterprise.

Technical Implementation



Private Automation Hub is provided as part of the Automation Platform universal installer . This self hosted option can be deployed in a variety of scenarios to host private automation content.

Creators Experience



Ansible Automation Platform Updates

Announce

April 2021

- **Tower rebranding -> Ansible Controller:**

Tower name will change, features and capabilities will not

- **Automation Analytics Rebranding -> Red Hat Insights for Ansible**

Changing name to align brands

GA

June 2021

- **Web UI Updates**

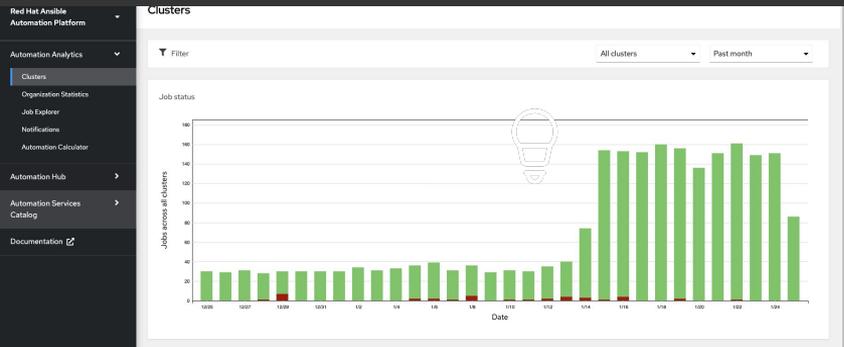
Updating look and feel to Patternfly 4

- **Execution Environments:**

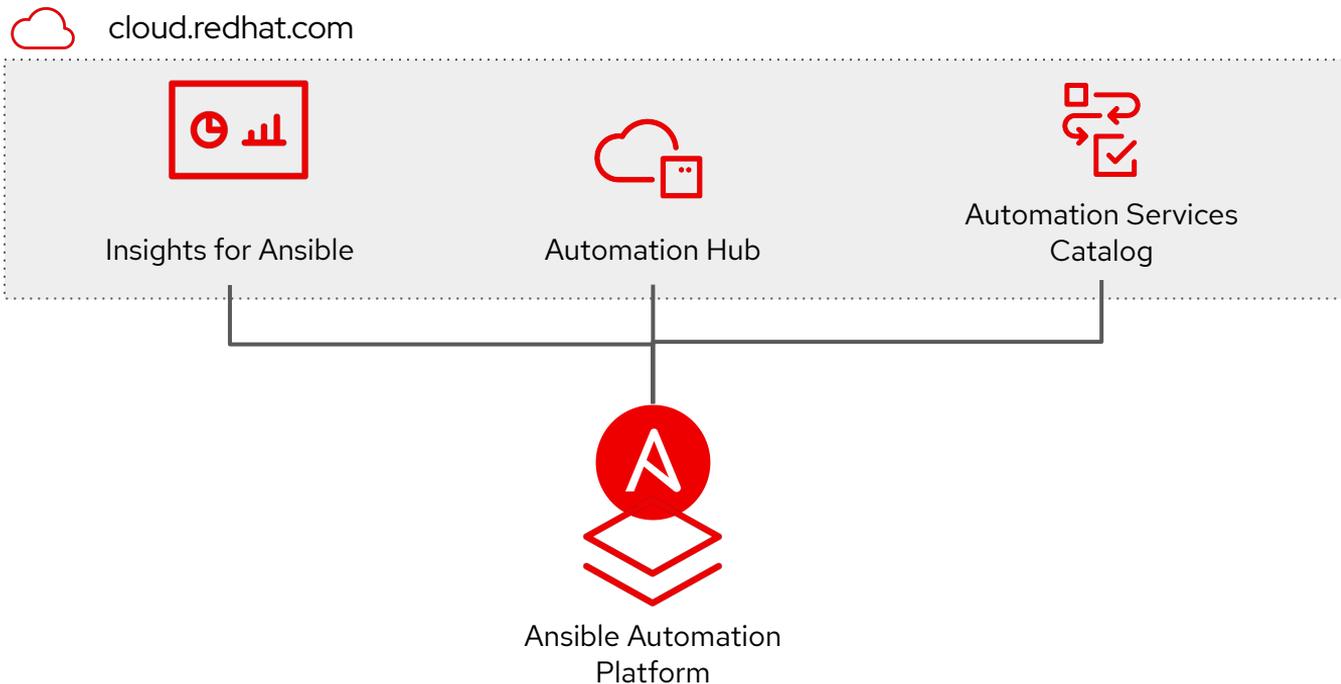
Containerized run-time environments for Ansible Execution

Ansible Hosted Services

Hosted service available
via cloud.redhat.com.
Aggregates multiple AAP
clusters into one
dashboard.



Ansible Hosted Services





Red Hat Insights

For Red Hat Ansible Automation Platform

Report, resolve, and recognize the value of automation

Challenge



Customers struggle to understand and measure automation initiatives across an enterprise, making it difficult to capture wins and avoid costly mistakes.

Solution & Business Value



Automation Analytics helps customers understand the value of automation through tangible business metrics, resolve issues with AAP more quickly, and receive expert guidance on how to continuously progress their automation initiatives

Technical Implementation



Automation Analytics is provided on cloud.redhat.com as a hosted service. Customers are granted access to via their Red Hat Ansible Automation Platform subscription.



Red Hat Insights

For Red Hat Ansible Automation Platform

March

- **RBAC Improvements**

Control which users can see which content and views

June (MVP)

- **Automation Planner:**

Help customers plan, track, and report on their automation journey

- **Email Notifications & Report Exports**

Provide simple tools to help improve awareness within customer organizations

Automation Hub

Hosted service on cloud.redhat.com

Challenge



Customers have inconsistent way to share trusted content across an increasingly diverse set of technologies and domains

Solution & Business Value



Automation Hub provides automation content that is certified and supported by Red Hat and our partners. Customers get the assurance they need that they are using supported collections.

Technical Implementation



Automation Hub is provided on cloud.redhat.com as a hosted service. Customers are granted access to Automation Hub via their Red Hat Ansible Automation Platform subscription.

In Summary



Red Hat
Ansible Automation
Platform

Create • Scale • Engage

Ansible Automation Platform 2.0 Components

- Ansible Core 2.11
- Execution Environments
- Ansible Builder
- Ansible Navigator
- Patternfly 4 User Interface Upgrade
- PostgreSQL 12 - Required
- Container Groups GA

Ansible Automation Platform 2.0 Features

- Python virtual environments move to containers
- Automation portability between clusters
- Enhanced creator experience for playbook authors
- Container native support with Openshift Operator

Ansible Automation Platform 2.0 Deployment Notes

- Deployable on Red Hat Enterprise Linux 8 and OpenShift 4.x only
- No support for isolated nodes (delayed until 2.1)

Thank you

 linkedin.com/company/red-hat

 youtube.com/AnsibleAutomation

 facebook.com/redhatinc

 twitter.com/Ansible