

Ansible Automation Platform: Quo Vadis?

Götz Rieger Principal Solution Architect





Ansible Automation Platform: Quo Vadis? Roadmap

Goetz Rieger

Principal Solution Architect | Red Hat



O Image: Construction of the second secon	o

Where do we come from?

Where are we?

Where are we going?





We participate in and create community-powered upstream projects.

We integrate upstream projects, fostering open community platforms.

We commercialise these platforms together with a rich ecosystem of services and certifications.



Ansible is the de facto automation language.





Strategic automation needs more





Strategic automation needs more





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Strategic automation needs more





Strategic automation needs more





Strategic automation needs more





Where do we come from?





In the beginning, there where **Ansible Tower** and **Ansible Engine.**

(Spoiler: They are **no more**)

The product that we sell, distribute, and support is **Red Hat Ansible Automation Platform**.





Ansible Automation Platform 1 Architecture

Ansible Tower					
WebUI					
De API					
RBAC SWorkflows Audit					
Execution					
virtualenvs					

Managed Technologies

Red Hat

- Centralized, monolithic application
- Control and execution capacity shared
- Limited scalability
- Less flexible architecture







Where are we?



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Ansible Automation Platform 2



- Dynamic cluster capacity
- Decoupled execution and control plane
- Execution plane resilient to latency/interruptions
- Natively build redundant mesh topologies
- Centralized management with automation controller







Automation execution environments. Reuse and scale.



execution environments



Execution Environments. Portability is reliability.





The flexibility to scale, wherever that may be.



The flexibility to scale, wherever that may be.



The flexibility to scale, wherever that may be.



Ansible Automation Platform Big Picture: Operate.





Red Hat Automation Hub. Supported and certified content





Private automation hub. Collaborate, sign, and publish.





Develop, test and run containerized Ansible content.





Execution environment development: Build, sign, publish.





Ansible Automation Platform Big Picture: Create.





Ansible Automation Platform: Quo Vadis?

Okay, here we are.

Where do we go?





Ansible Automation Platform: Quo Vadis?

Ansible Automation Platform on Azure





Red Hat Ansible Automation Platform on Microsoft Azure

The power of Red Hat Ansible Automation Platform in your Azure cloud



Quick and easy to get started

Optimized deployment with

seamless integration to Azure services

On Azure Marketplace in North America, Europe, Singapore and Australia.

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Ansible Automation Platform: Quo Vadis?

Ansible Automation Platform on AWS





Red Hat Ansible Automation Platform via AWS Marketplace



Transactable on the marketplace as of Nov. 3, 2022

Ansible Automation Platform: Quo Vadis?

Ansible Automation Platform Event-Driven Automation





Typical event driven automation process





Sources

Key building blocks in Event Driven Ansible

- Define where events come from, consume events and pass to the rules engine.
- Source support includes Prometheus, Sensu, Red Hat, as well as webhooks and Kafka.
- "Custom source" plugin support.



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Rules

Sources

- Describing when actions should occur, based on information matching source file data.
- Ansible Rulebooks "if then" formats; can contain playbooks or direct execution modules



Sources

Rules

Actions

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Describing when actions should occur, based on information matching source file data.

Ansible Rulebooks "if then" formats; can contain playbooks or direct execution modules

- Familiar Ansible actions such as playbooks, and "ad-hoc" tasks
- Automate any IT use case



Example event-driven workflow: Speed and shorter MTTR



Ansible Automation Platform: Quo Vadis?

Ansible Automation Platform Validated Content





What is content?

Assets needed to run Ansible Automation





Red Hat Ansible Certified Content

What do I want to automate?

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Establishes **integration** with Red Hat and 3rd-party platforms

From Red Hat and trusted industry partners

Tested and supported for security, quality, and reliability

Available through **console.redhat.com**

Ansible Validated Content

How should I automate my systems?



Provides an **expert-led path for performing operations** in Red Hat and 3rd-party platforms

From Red Hat and trusted industry partners

Because it is customizable, it is not supported

Curated and tested for security, quality, and reliability

Will be preloaded in private automation hub



Ansible Automation Platform: Quo Vadis?

Ansible Automation Platform Project Wisdom





Strategic Partnership: Project Wisdom

IBM Research



We train and fine-tune the large language models used by Project Wisdom on the IBM Research Cognitive Computing Cluster (CCC).

Some of the top experts in AI and languages at the Thomas J Watson Research Center in NY are dedicated to this project.





Thank you

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