

# Ansible Automation Platform: Quo Vadis?

Goetz Rieger

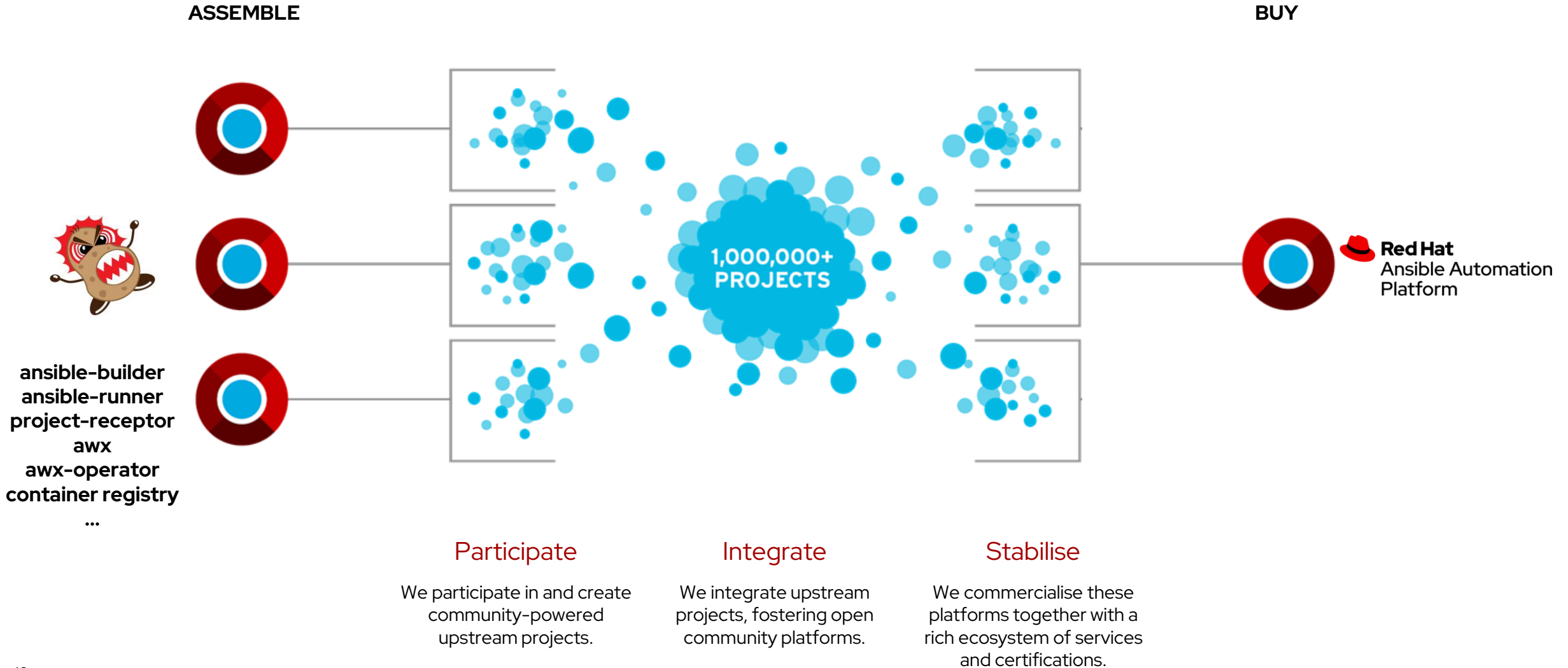
Principal Solution Architect | Red Hat



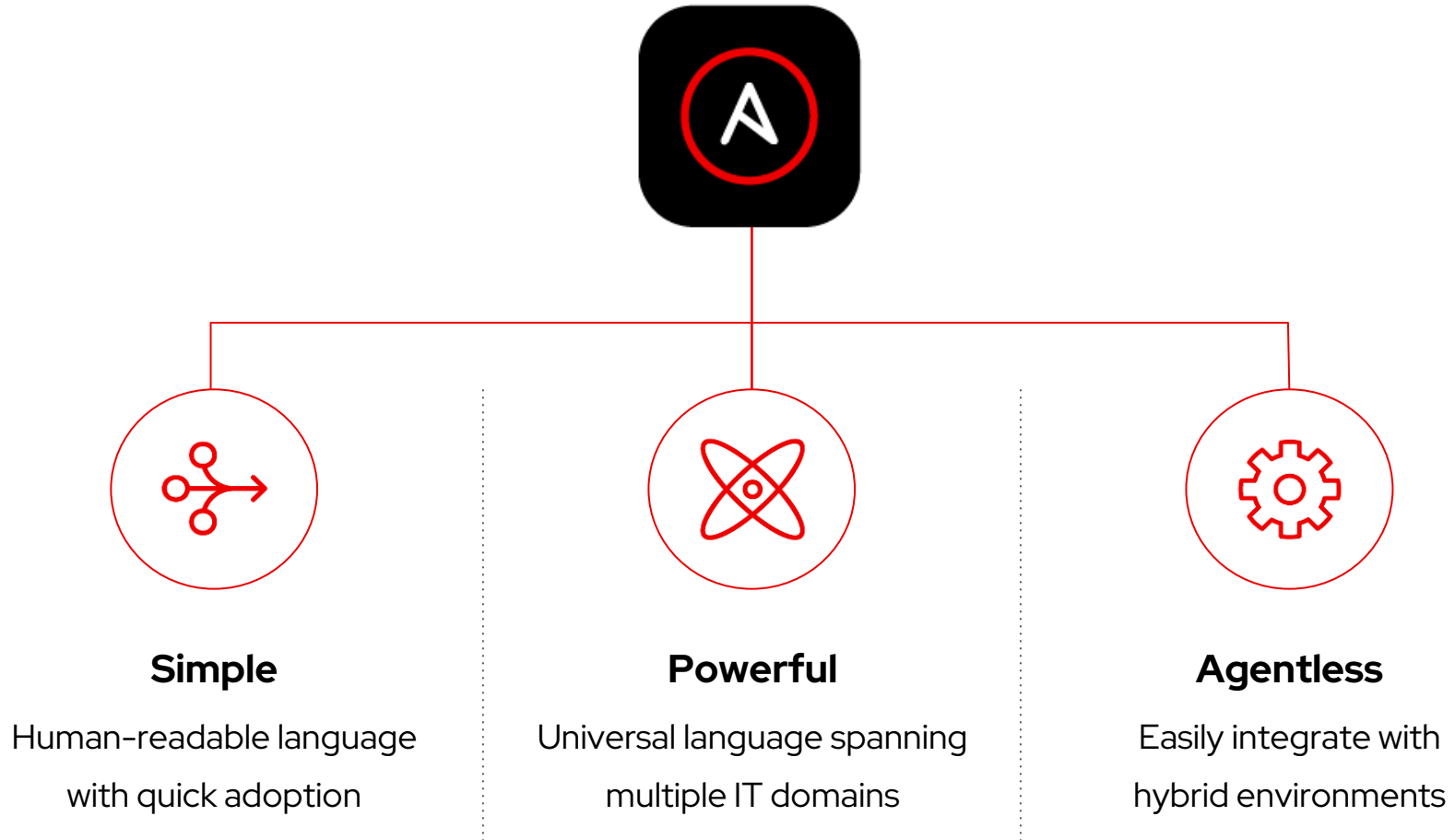
Where do we come from?

**Where are we?**

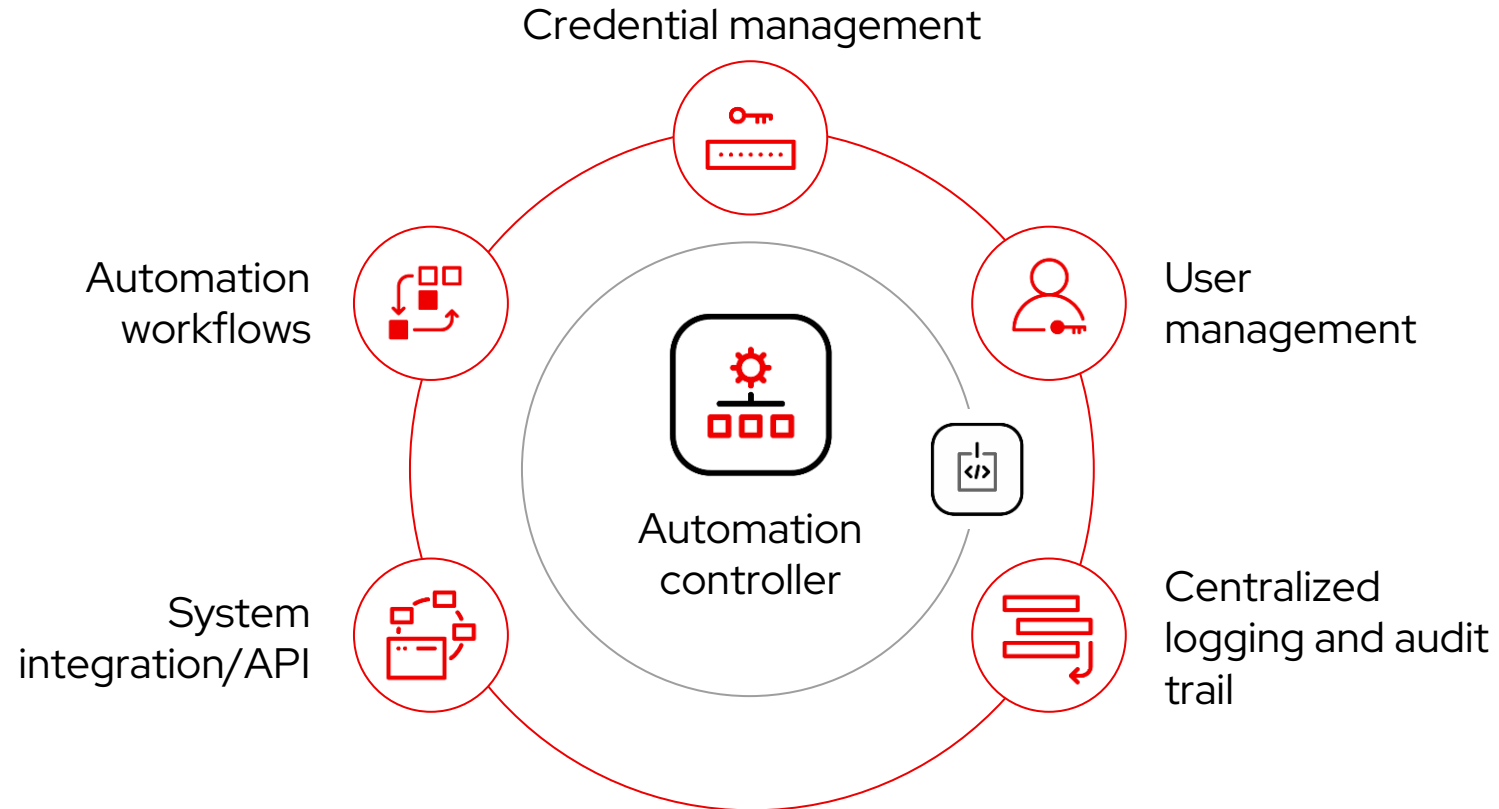
**Where are we going?**



Ansible is the **de facto automation language**.



# Strategic automation needs more



# Where do we come from?

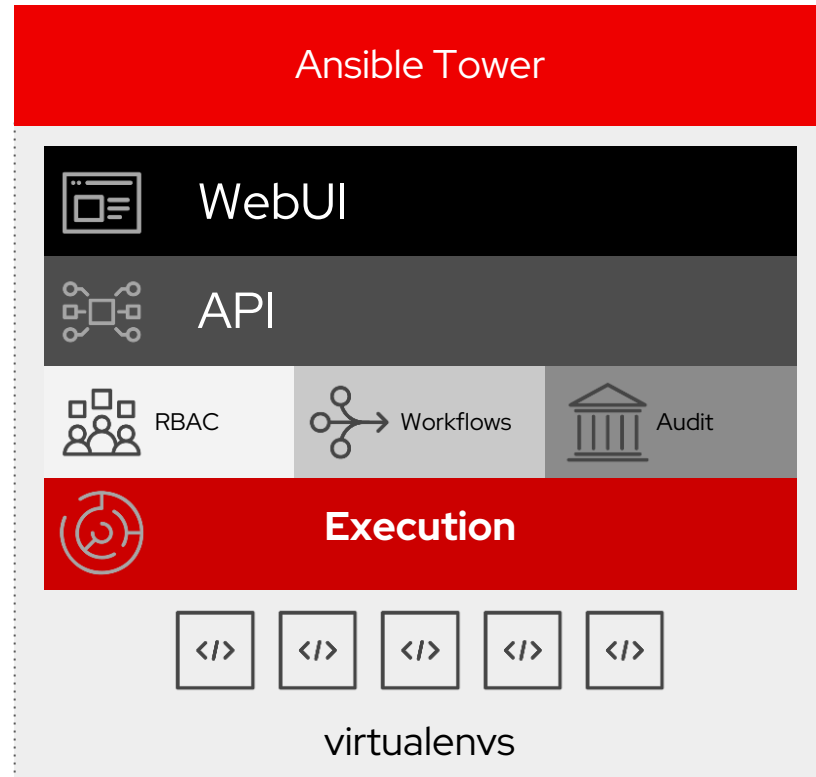
In the beginning, there were  
**Ansible Tower** and **Ansible Engine**.

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

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



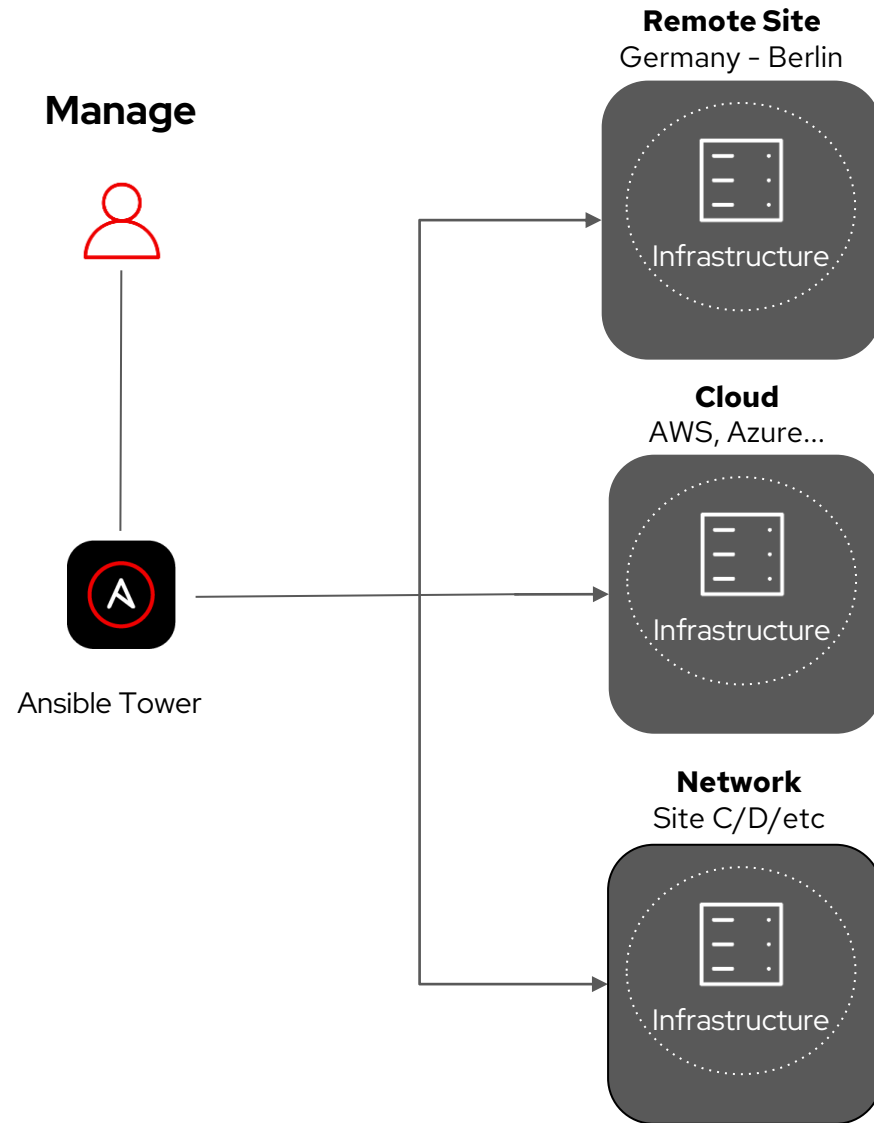
# Ansible Automation Platform 1 Architecture



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

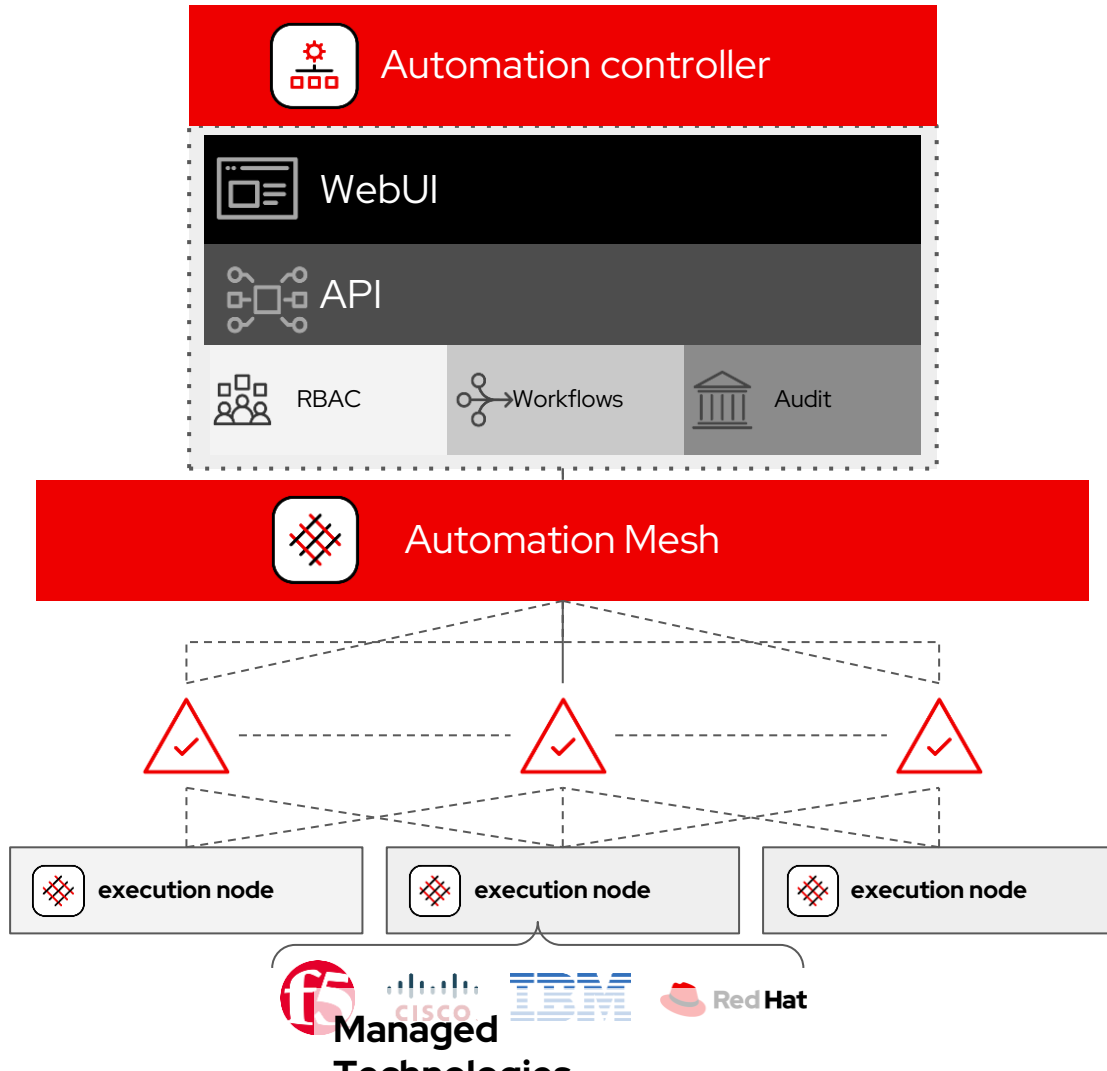






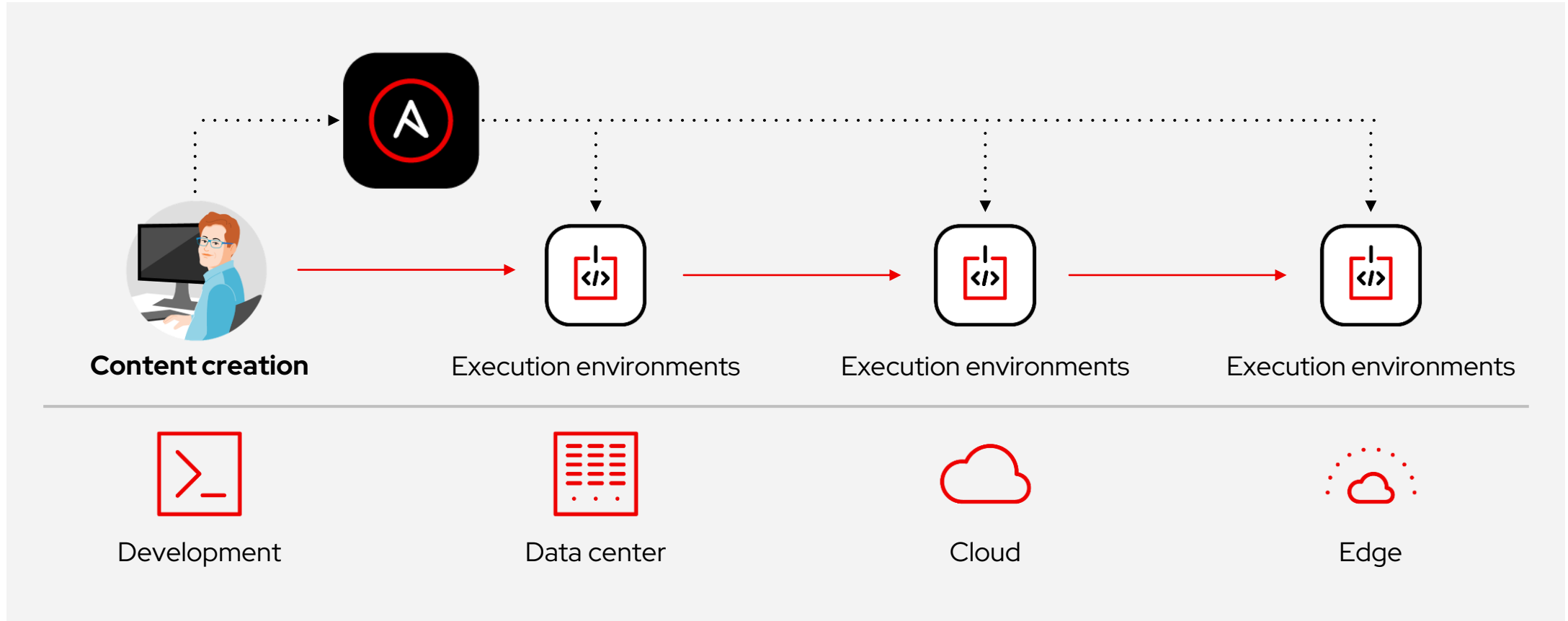
# Where are we?

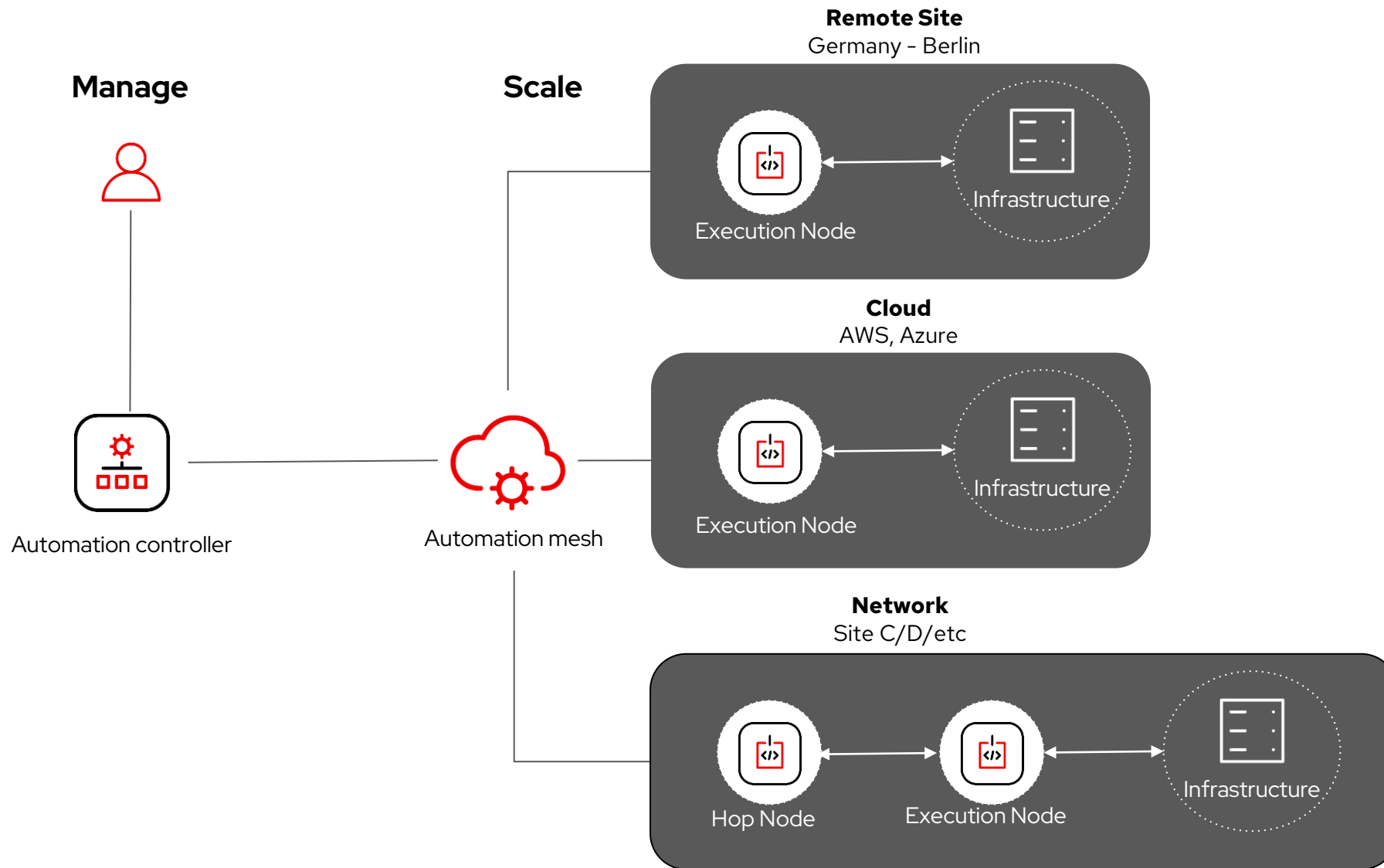
# Ansible Automation Platform 2



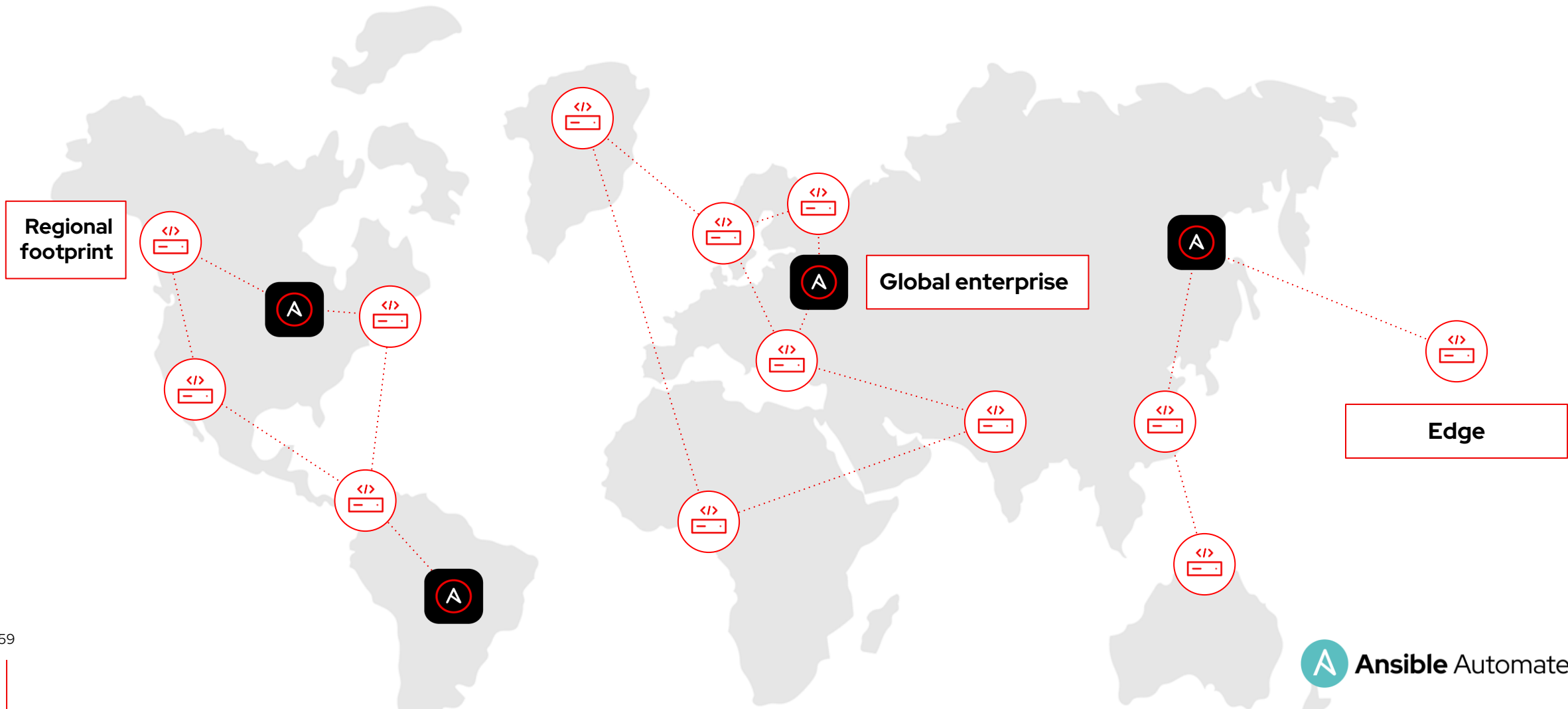
- ▶ The artist formerly known as Ansible Tower
- ▶ Dynamic cluster capacity, Cluster capacity scales independently
- ▶ **Decoupled execution and control plane**, deploy execution capacity where it's needed
- ▶ **Execution plane resilient to latency** and connection interruptions
- ▶ Natively build redundant mesh topologies
- ▶ Centralized management with automation controller

# Execution Environments. Portability is reliability.

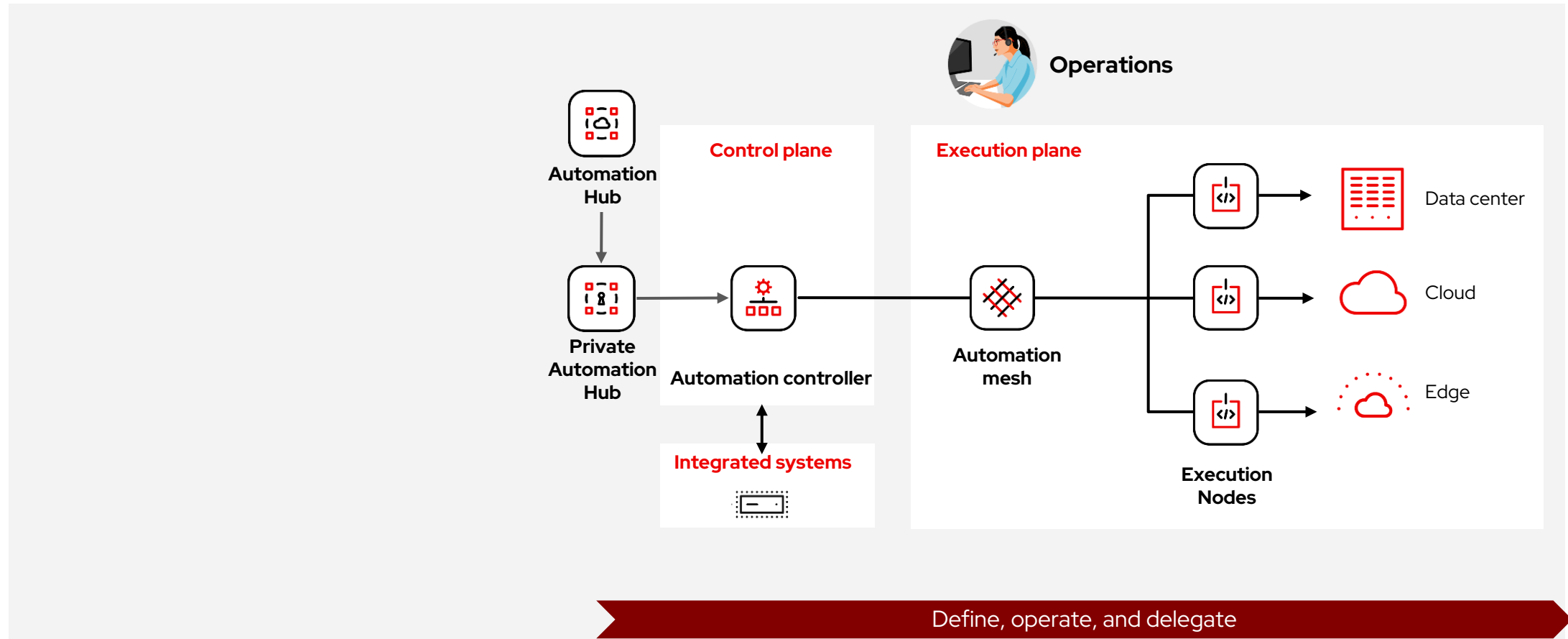




The flexibility to scale, **wherever that may be.**



# Ansible Automation Platform Big Picture: Operate.



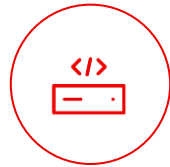
# Red Hat Automation Hub. Supported and certified content

# 130+

Certified Content Collections

# 55+

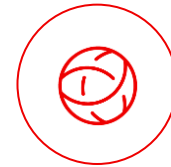
Certified technology partners



Infrastructure



Cloud



Network



Security

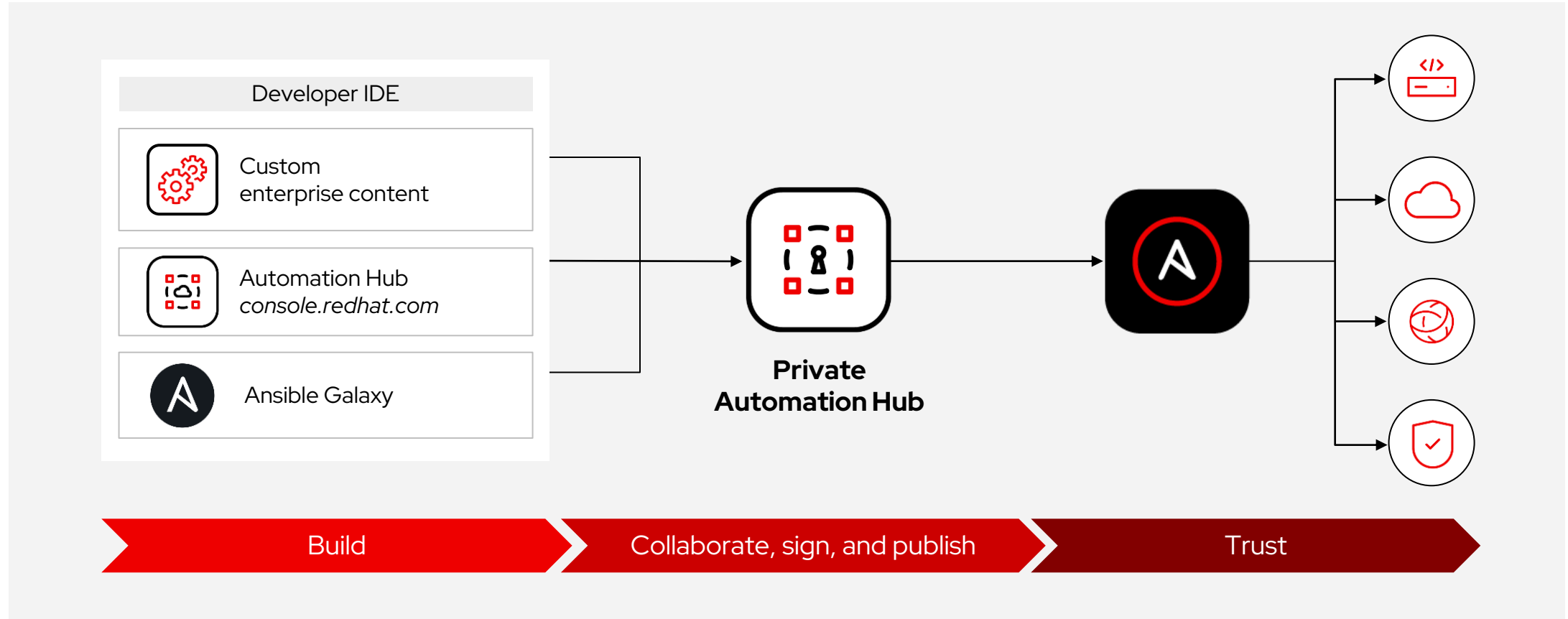


Edge

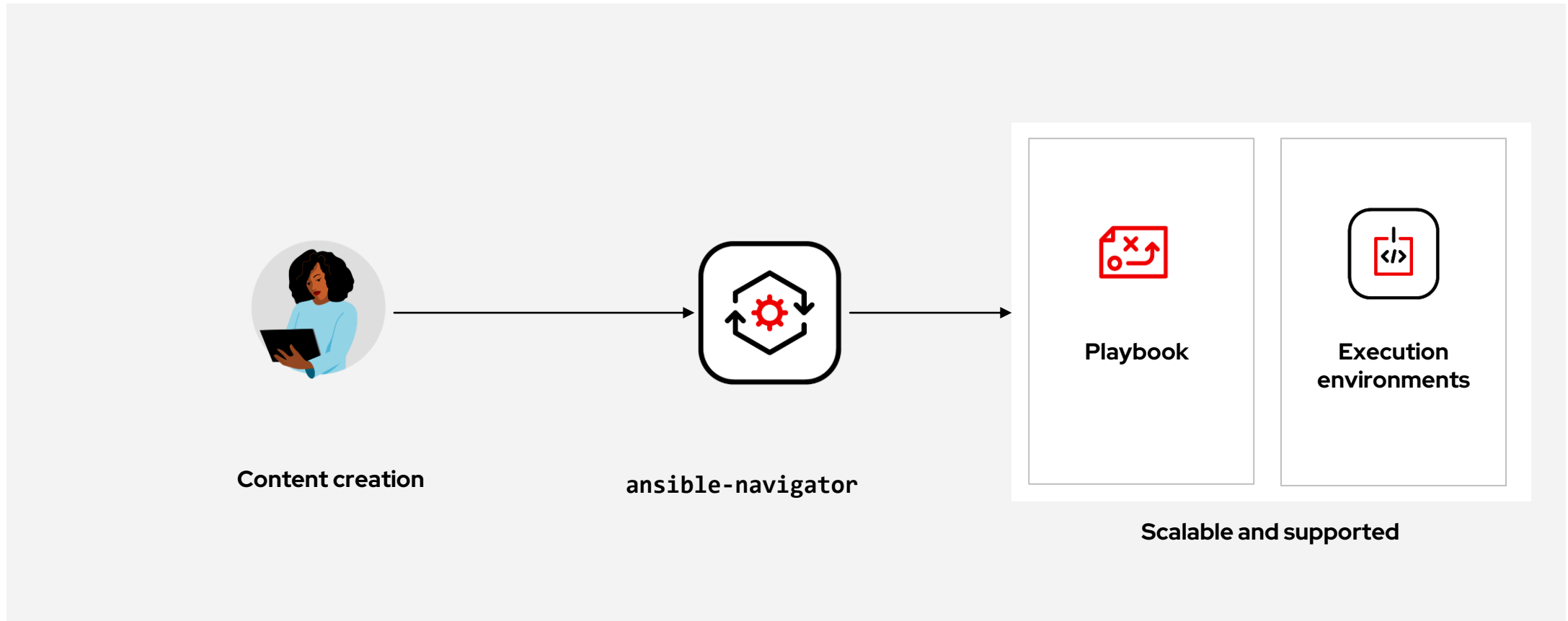




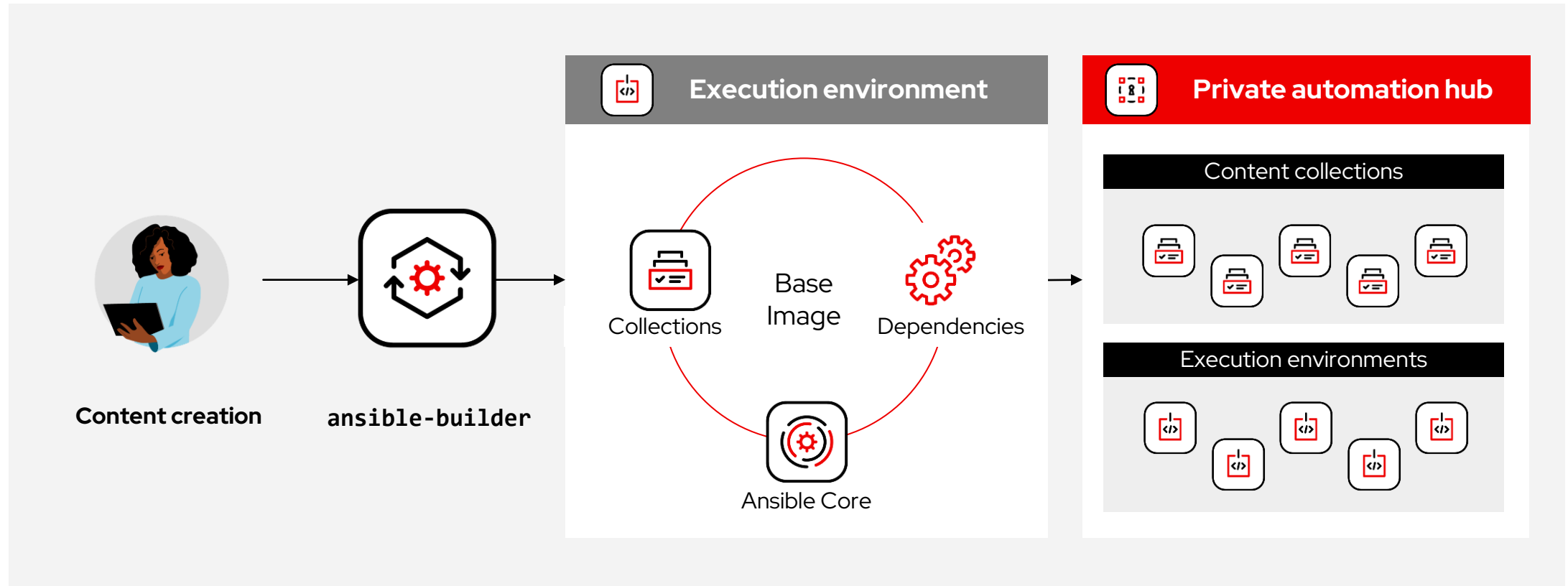
# Private automation hub. Collaborate, sign, and publish.



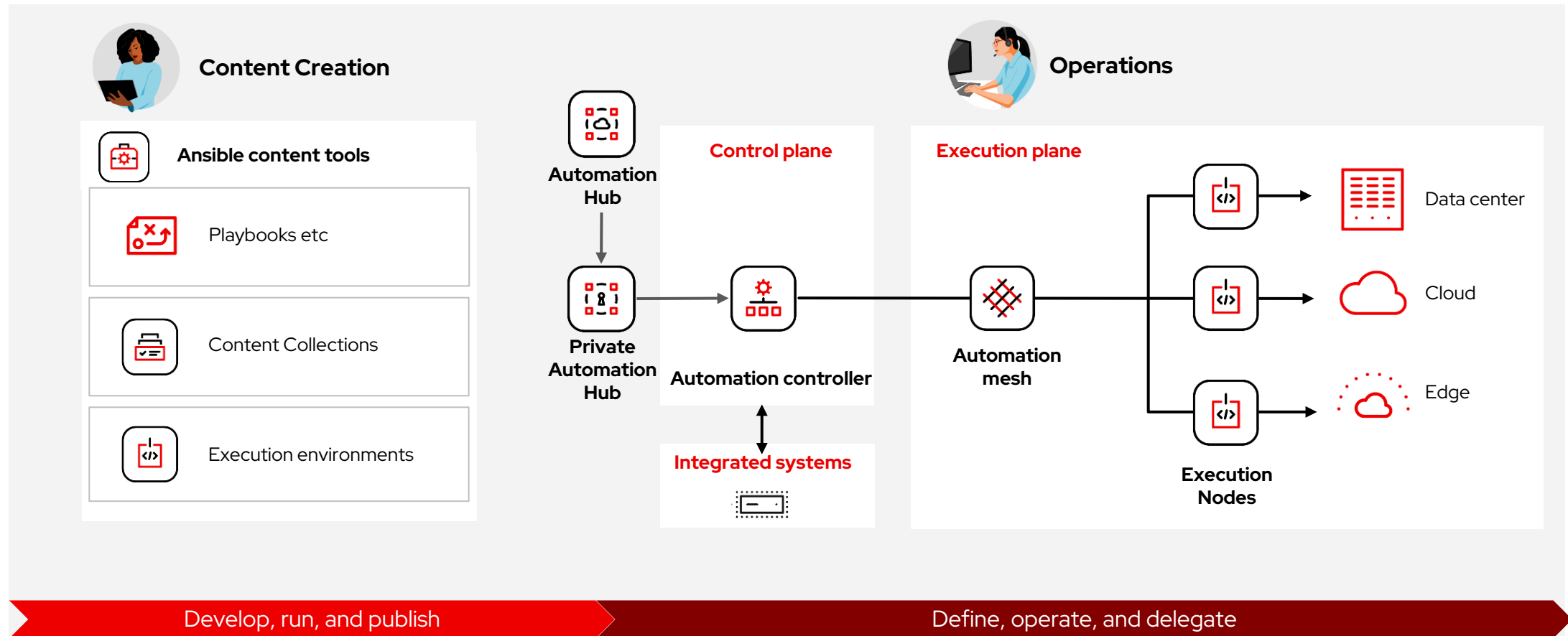
# Develop, test and run **containerized Ansible content**.



# Execution environment development: Build, sign, publish.



# Ansible Automation Platform Big Picture: Create.



Okay, here we are.

**Where do we go?**

# 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



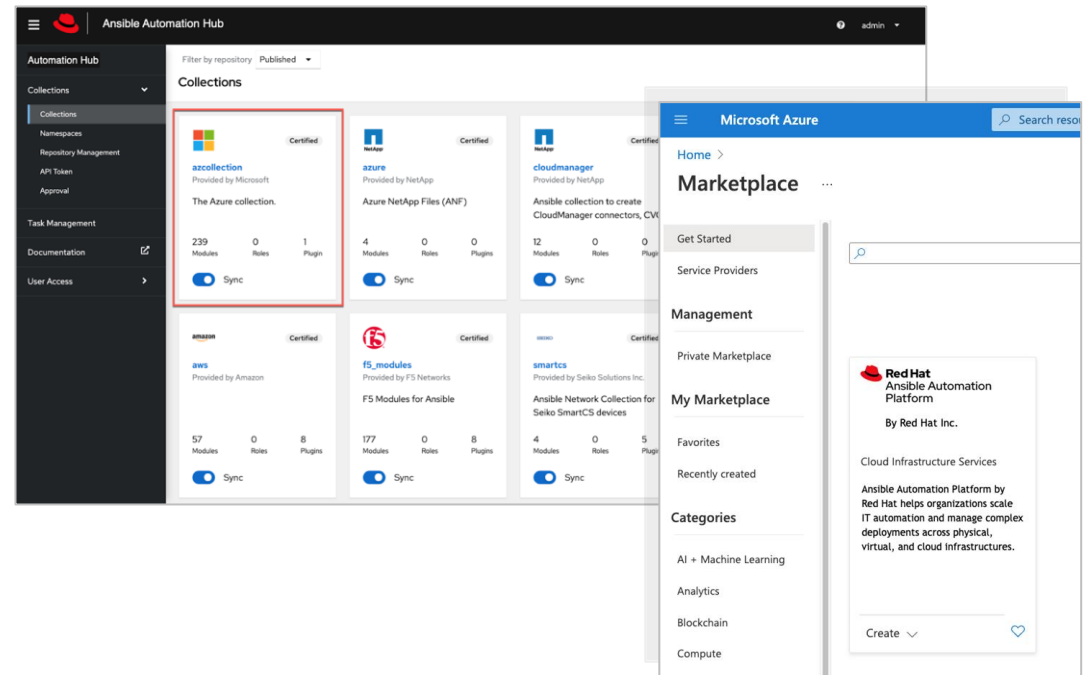
**Quick and easy** to get started



**Optimized deployment** with seamless integration to Azure services



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



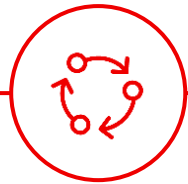
# Ansible Automation Platform on AWS



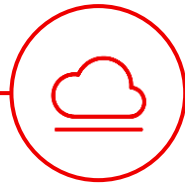
# Red Hat Ansible Automation Platform via AWS Marketplace



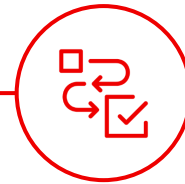
**Runs in  
your AWS cloud**



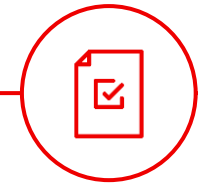
**Fully installed  
and integrated**



**Supported  
by Red Hat**



**Integrated to  
AWS billing**



**Counts toward  
spend agreements**

Transactable on the marketplace as of Nov. 3, 2022

# Ansible Automation Platform Event-Driven Automation

## Typical event driven automation process

### OBSERVE

- Watch for conditions that matter to you
- Work with third party sources of events

### EVALUATE

- Known problem identified
- Automated resolution triggered

### ACT

- Outage incident created
- Support team notified
- Remediation executed

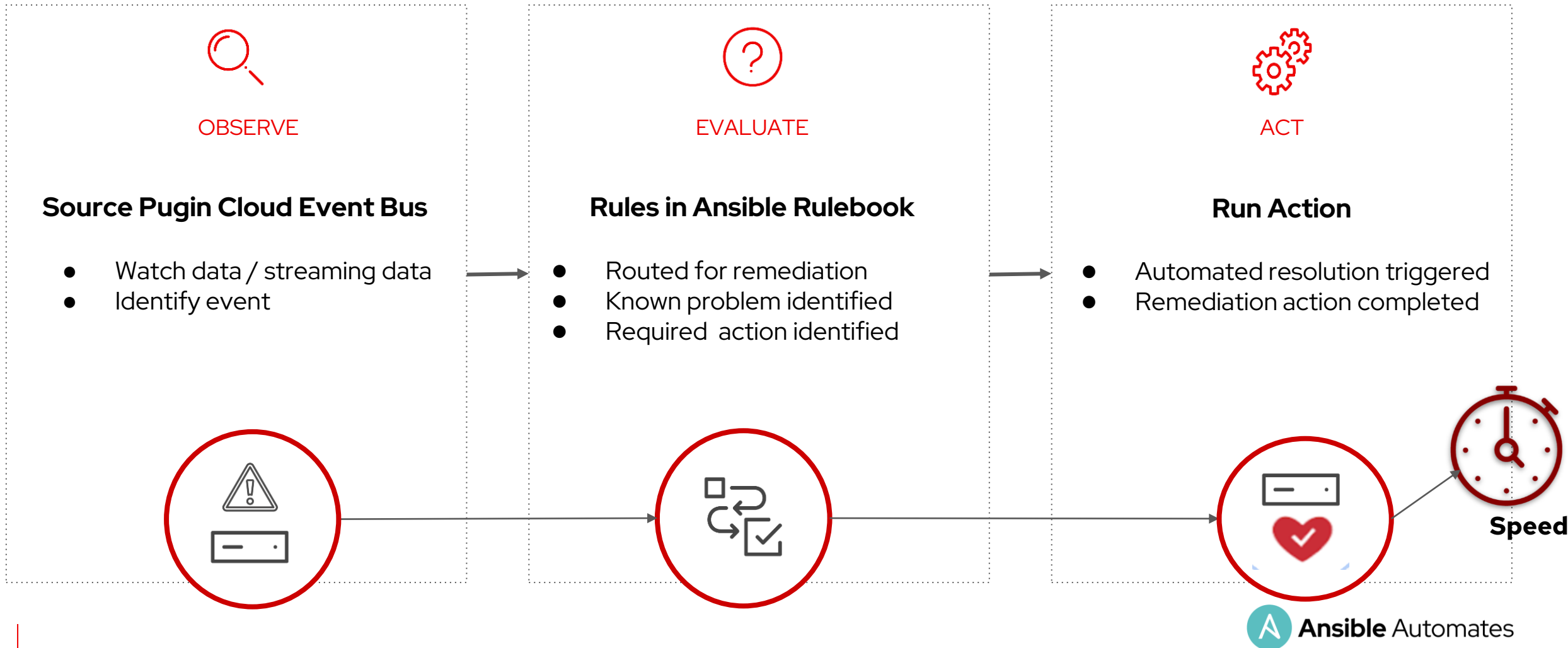
# Ansible Event Driven Automation



## Example Open Source Plugins

- Kafka for event streams
- watchdog, a file system watcher
- url\_check to check the status of a url
- Roadmap: integrations support for cloud service providers

# Event-driven workflow: Speed and shorter MTTR



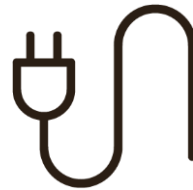
# Ansible Automation Platform Validated Content

# What is content?

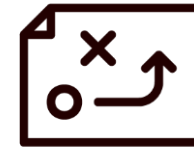
Assets needed to run Ansible Automation



MODULES



PLUGINS



ROLES & PLAYBOOKS



TESTS



DOCUMENTATION

ANSIBLE CONTENT COLLECTIONS



## Red Hat Ansible Certified Content

**What** do I want to automate?



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

**New!**

**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 validated content:

**How** should you automate your systems?



## 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



## TESTED / TRUSTED

---

Curated by Red Hat

Pre-loaded into private automation hub

**Customizable** for customer's unique environment



## SHAREABLE / REUSABLE

---

Collaborate and standardize on a set of best practice.

**Reduce manual repetition** when deploying/configuring systems

# 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

Red Hat is the world's leading provider of enterprise open source software solutions. Award-winning support, training, and consulting services make Red Hat a trusted adviser to the Fortune 500.



[facebook.com/ansibleautomation](https://facebook.com/ansibleautomation)



[twitter.com/ansible](https://twitter.com/ansible)



[linkedin.com/company/ansible/](https://linkedin.com/company/ansible/)



[youtube.com/user/RedHatVideos](https://youtube.com/user/RedHatVideos)