



Ansible Automation Platform: Quo Vadis?

Götz Rieger

Principal Solution Architect

Ansible Automation Platform: Quo Vadis? Roadmap

Goetz Rieger

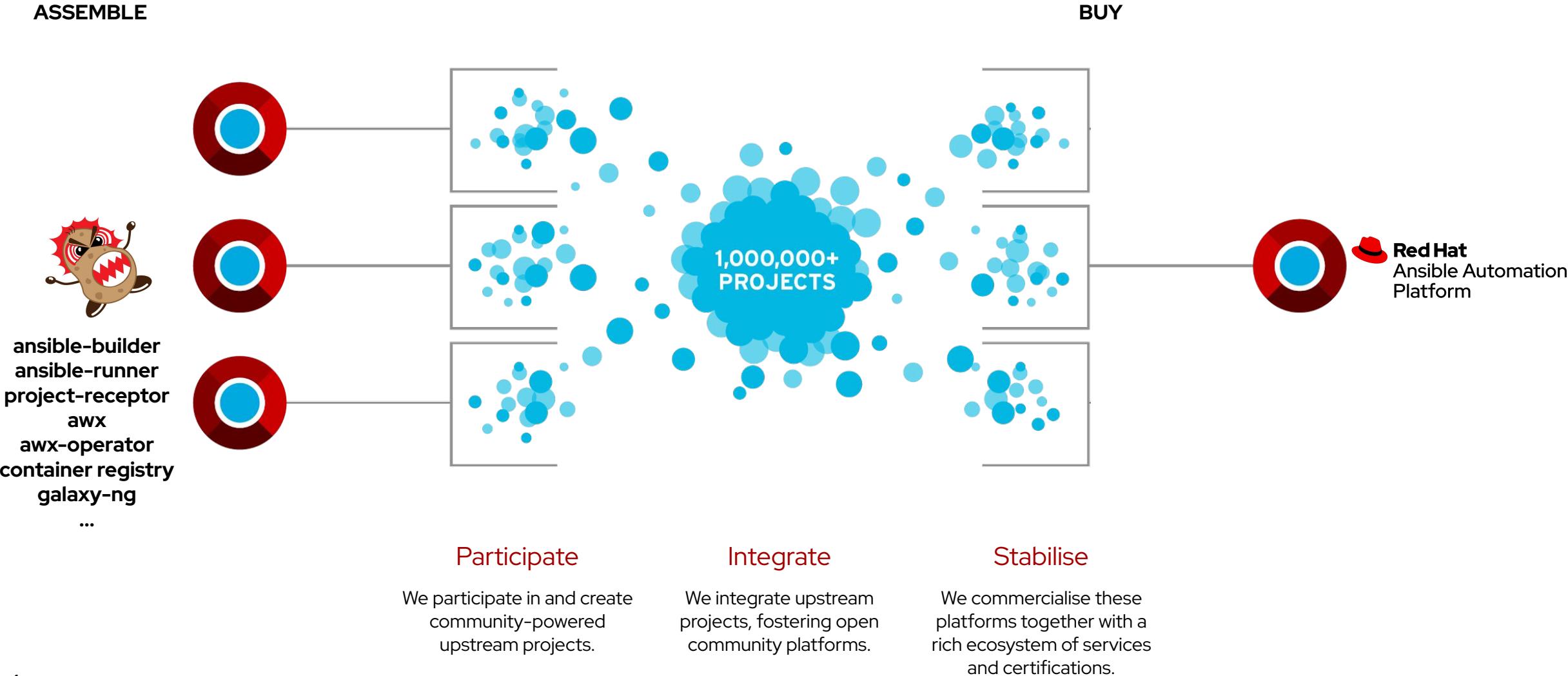
Principal Solution Architect | Red Hat



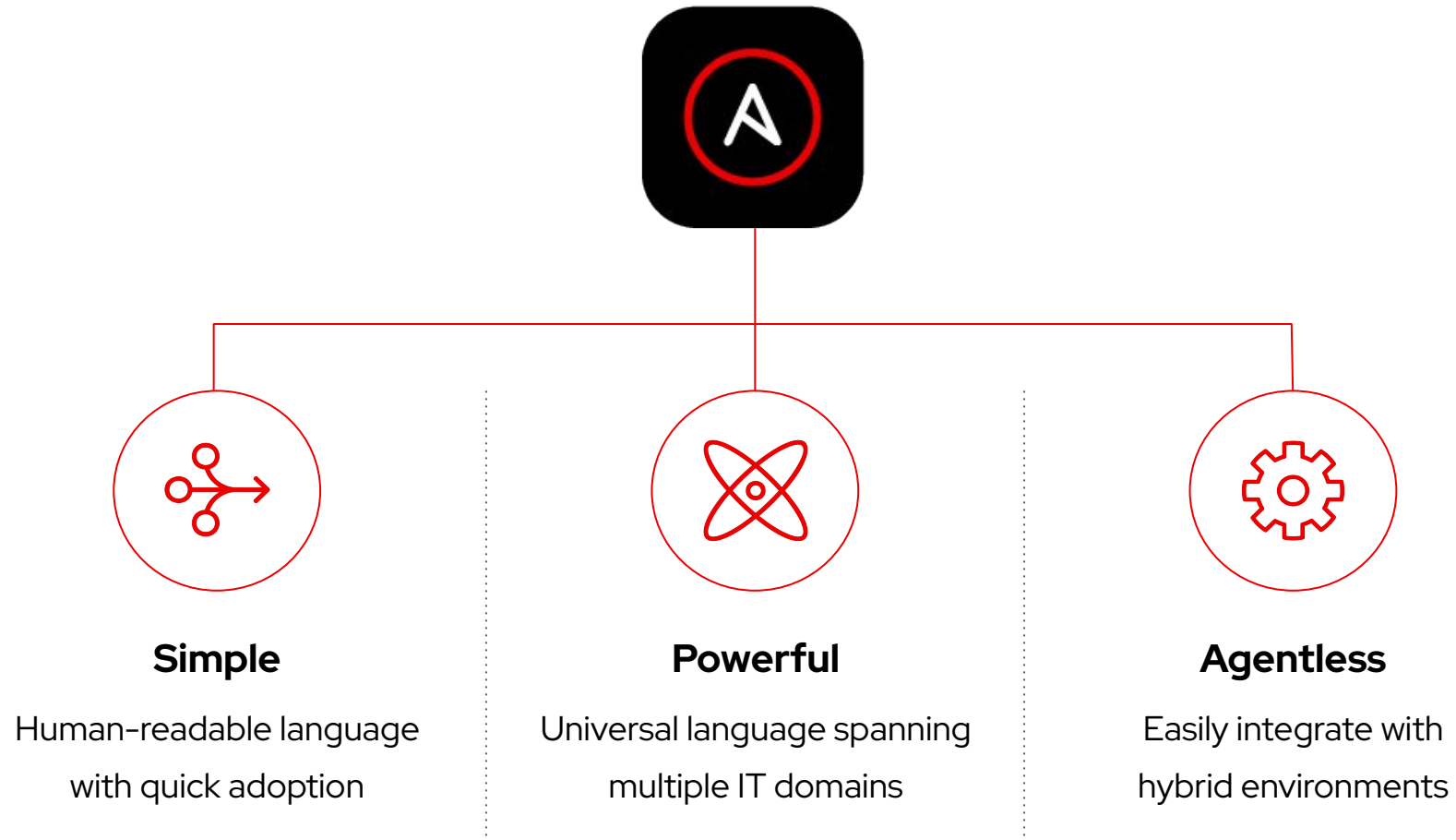
Where do we come from?

Where are we?

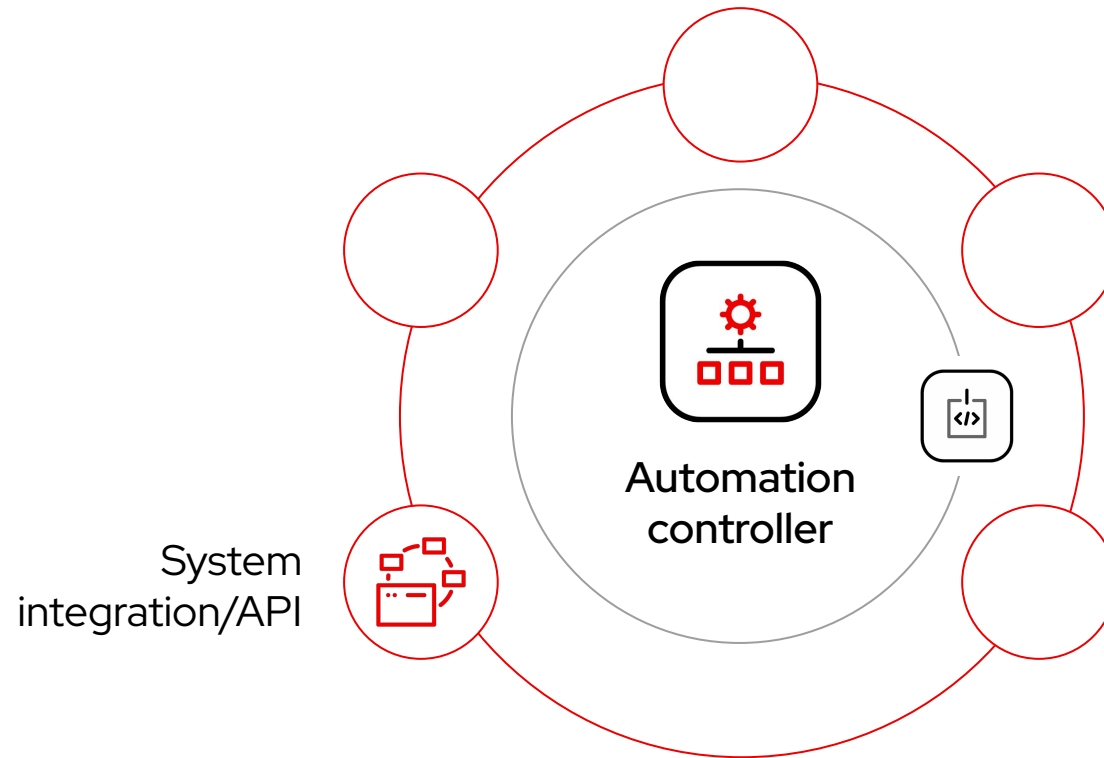
Where are we going?



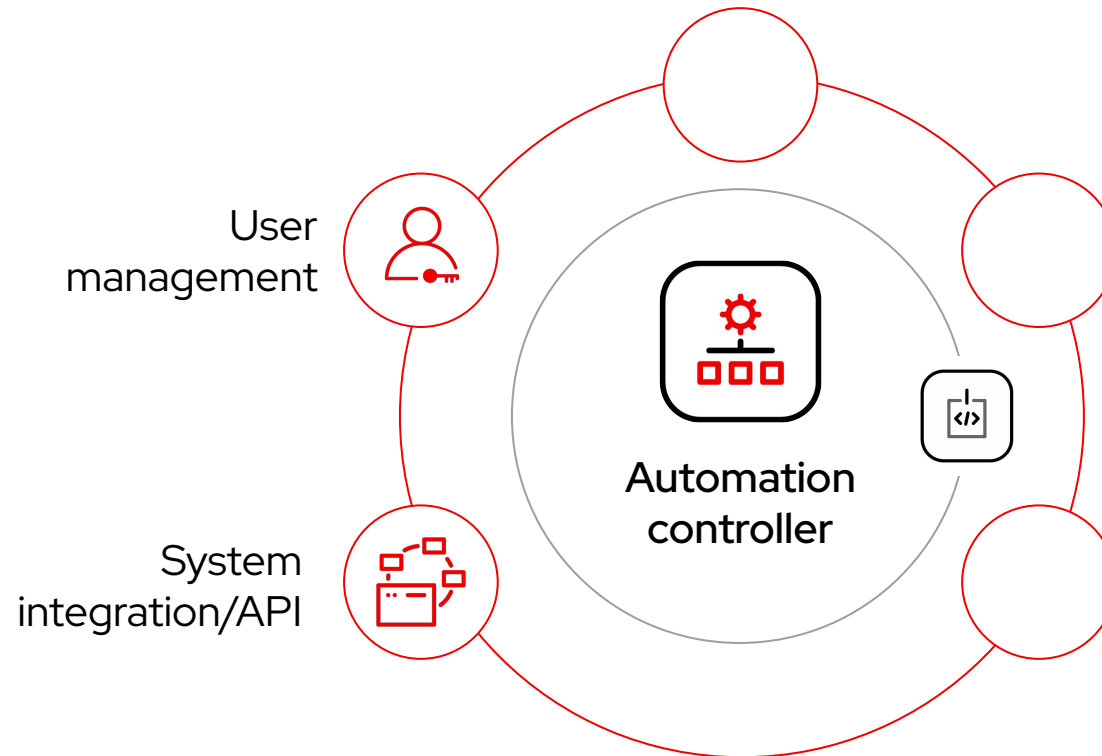
Ansible is the **de facto automation language**.



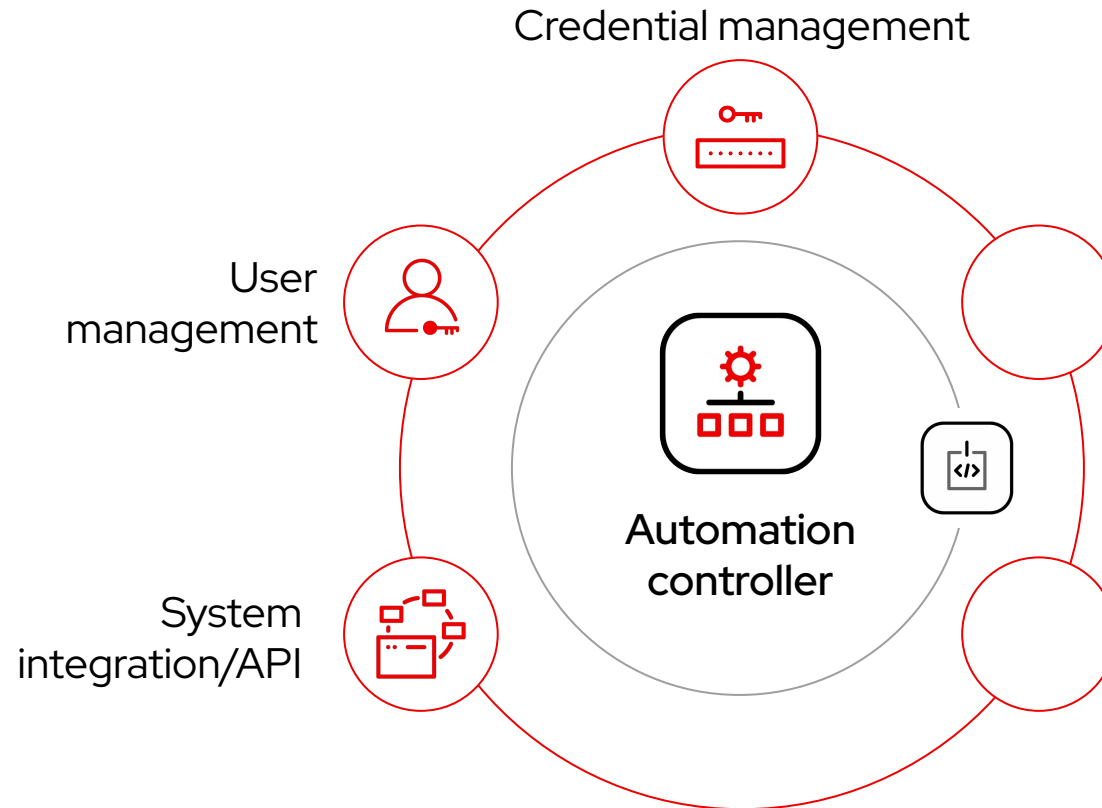
Strategic automation needs more



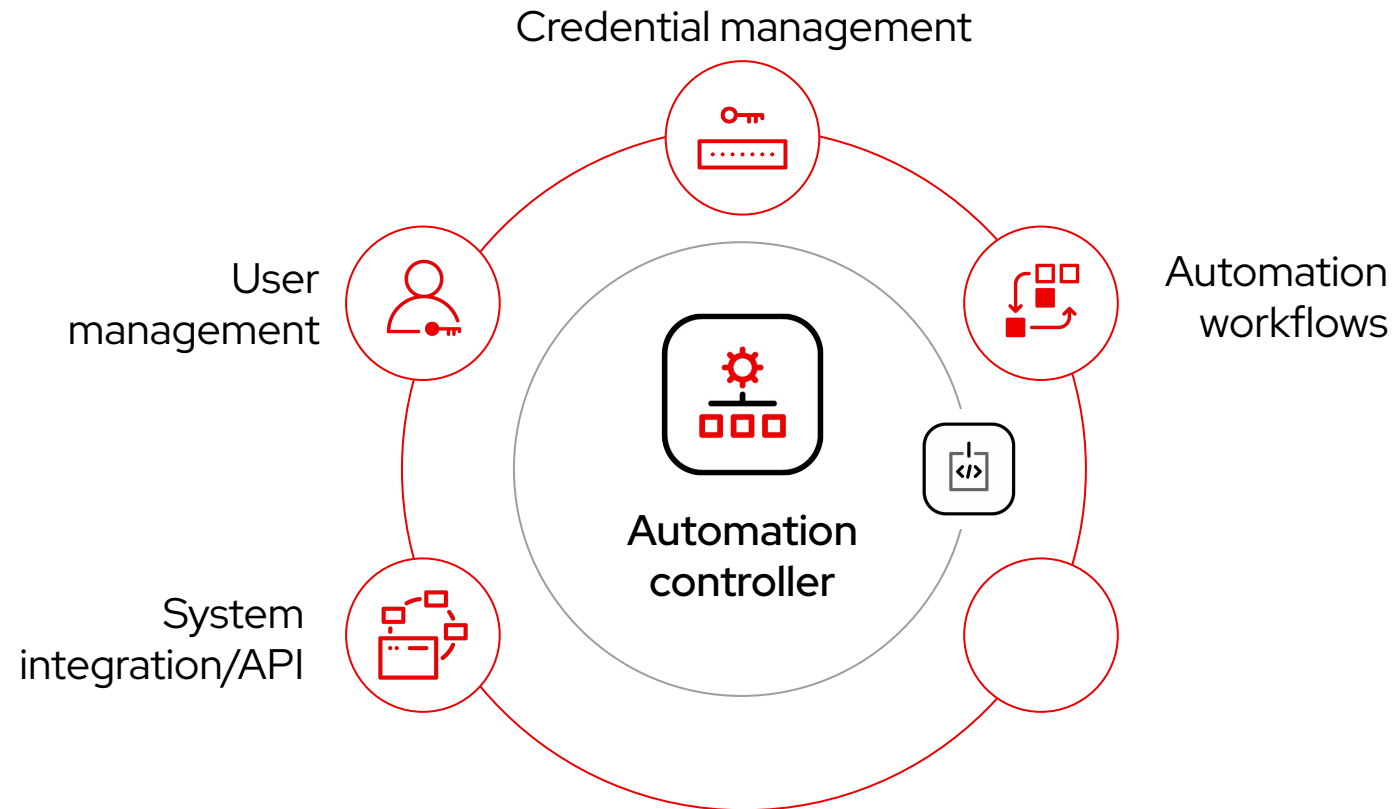
Strategic automation needs more



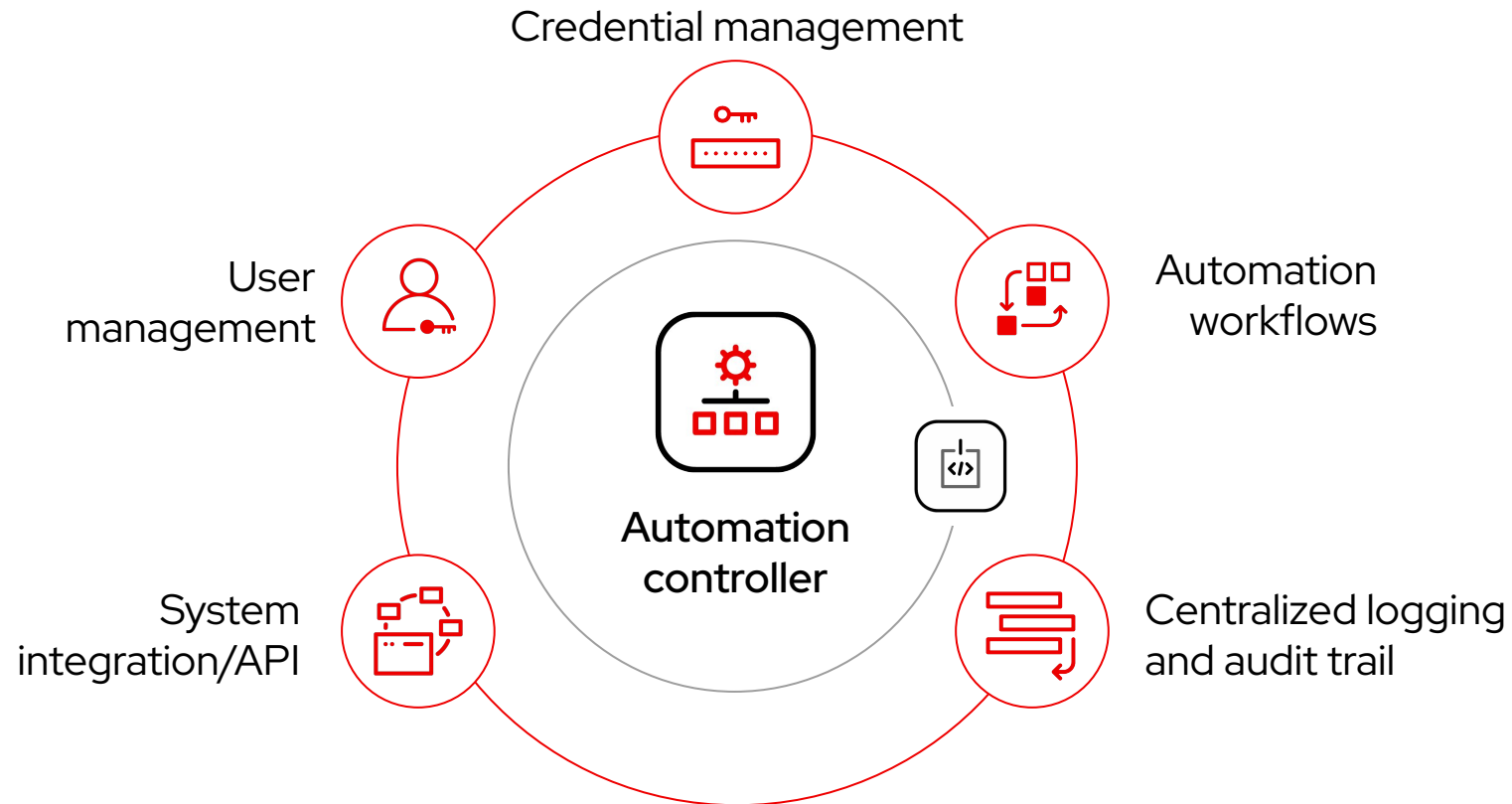
Strategic automation needs more



Strategic automation needs more



Strategic automation needs more



Where do we come from?

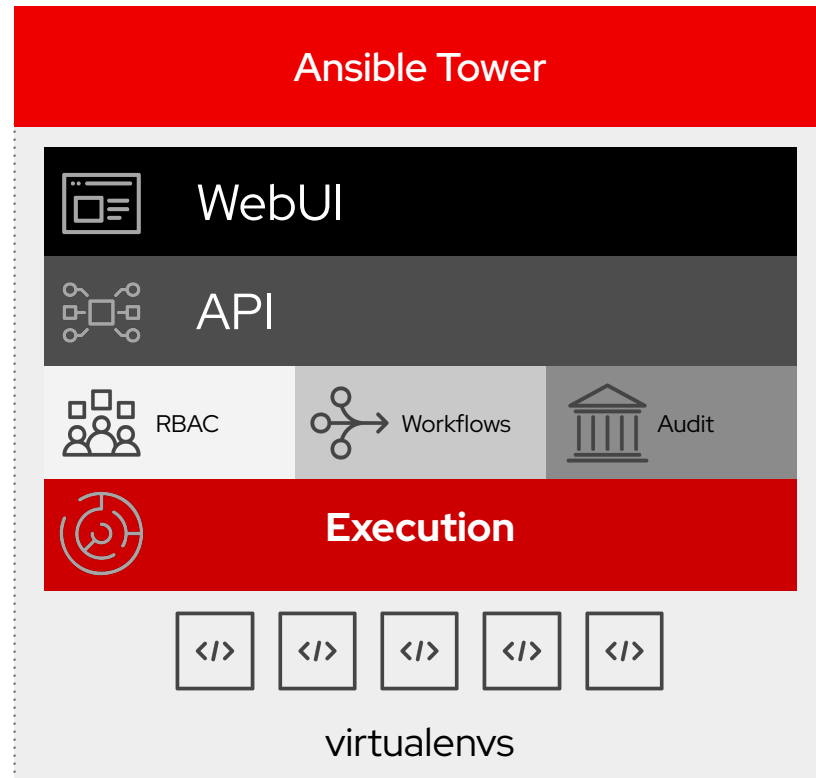
In the beginning, there where
Ansible Tower and **Ansible Engine**.

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

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

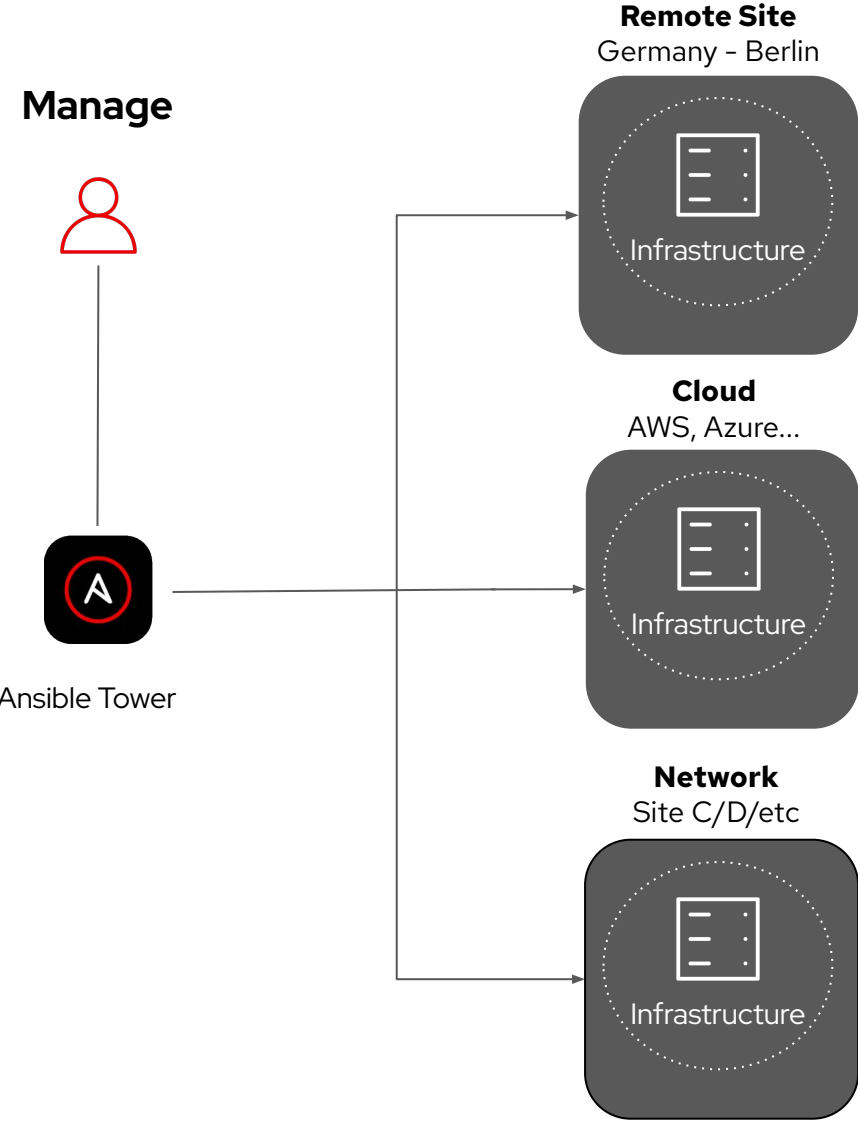


Ansible Automation Platform 1 Architecture



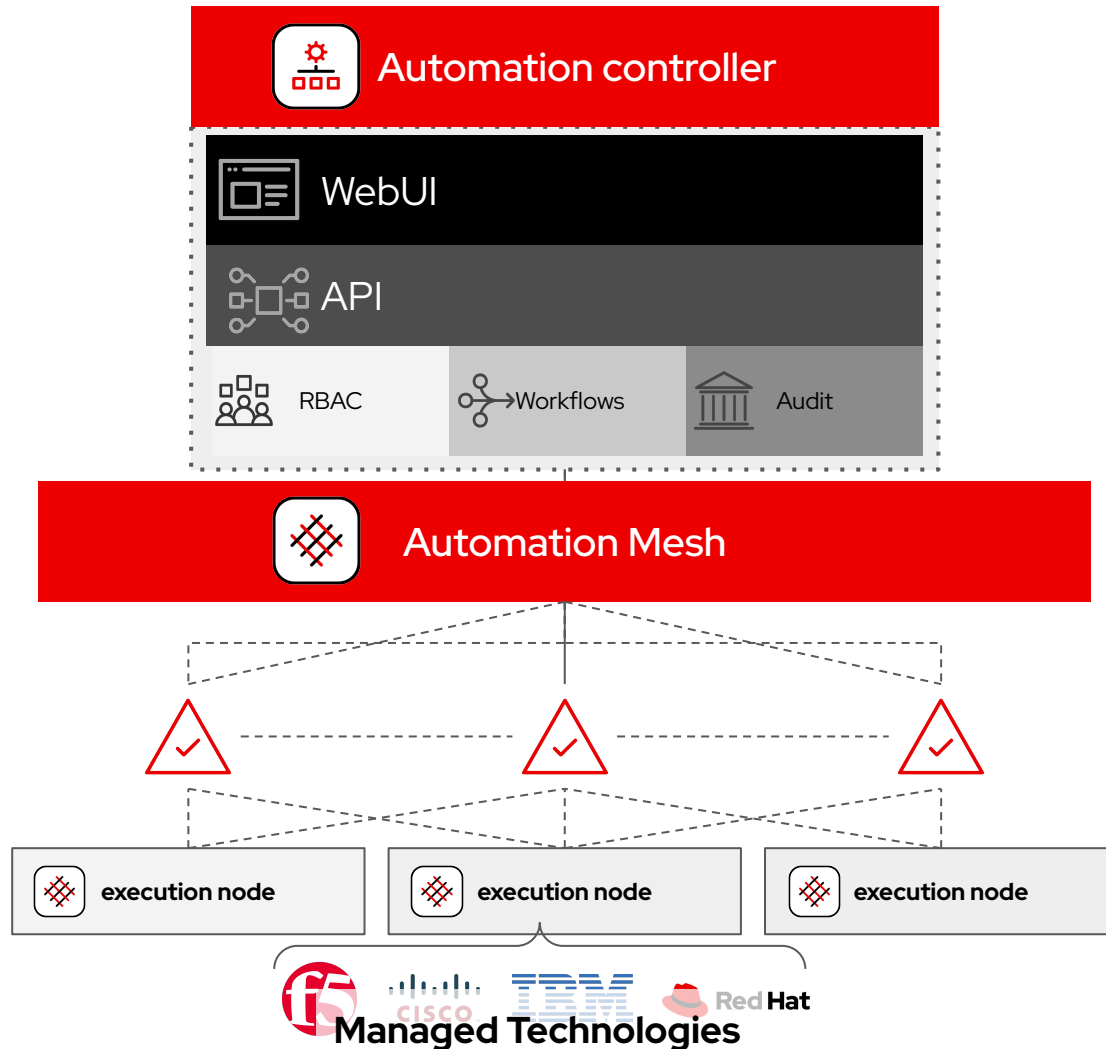
- ▶ Centralized, monolithic application
- ▶ Control and execution capacity shared
- ▶ Limited scalability
- ▶ Less flexible architecture



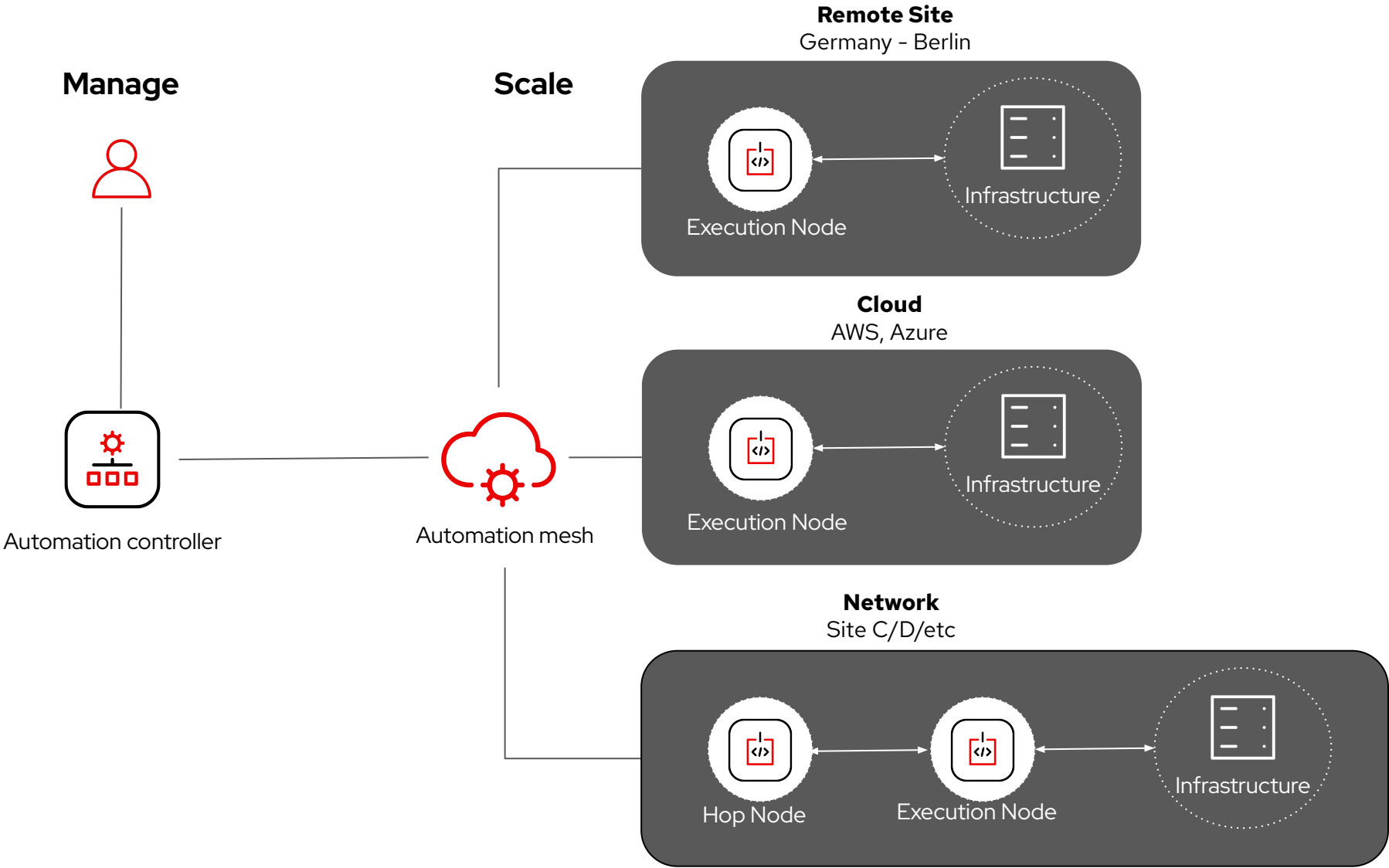


Where are we?

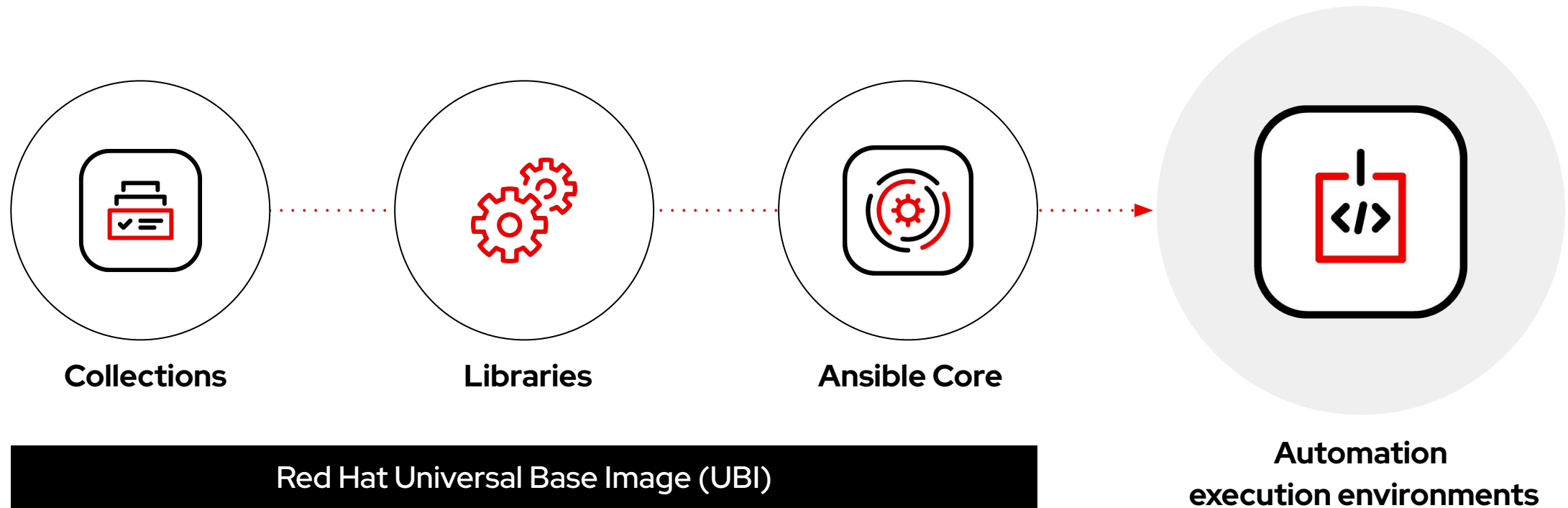
Ansible Automation Platform 2



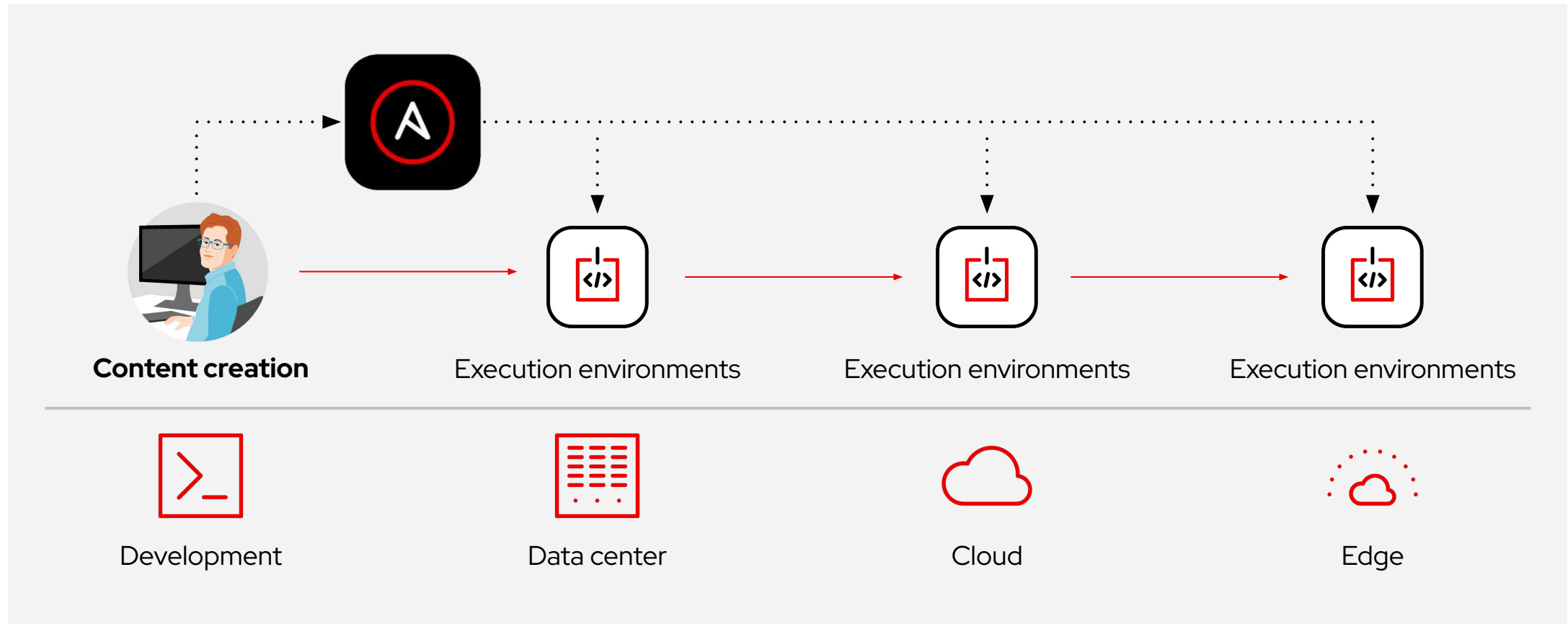
- ▶ Dynamic cluster capacity
- ▶ **Decoupled execution and control plane**
- ▶ **Execution plane resilient to latency/interruptions**
- ▶ Natively build redundant mesh topologies
- ▶ Centralized management with automation controller



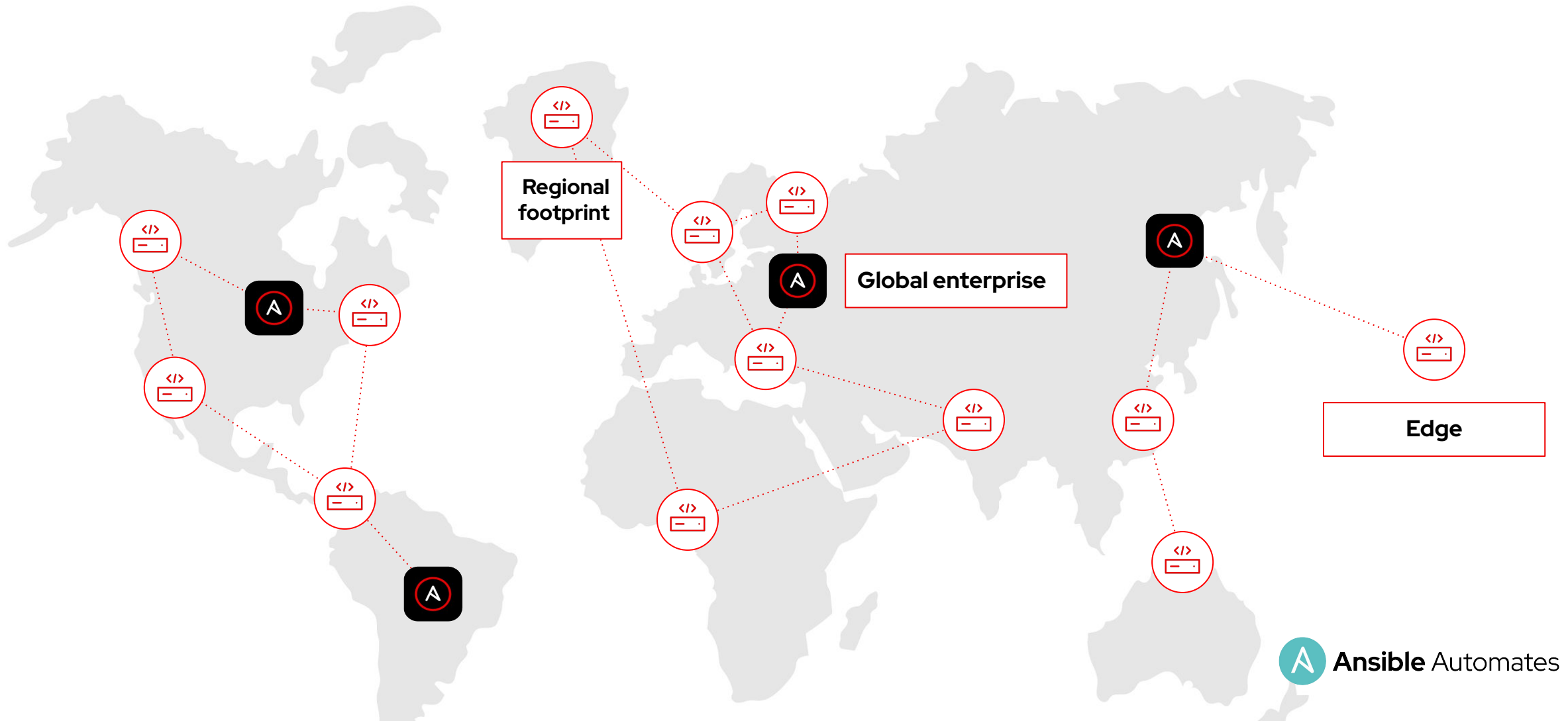
Automation execution environments. Reuse and scale.



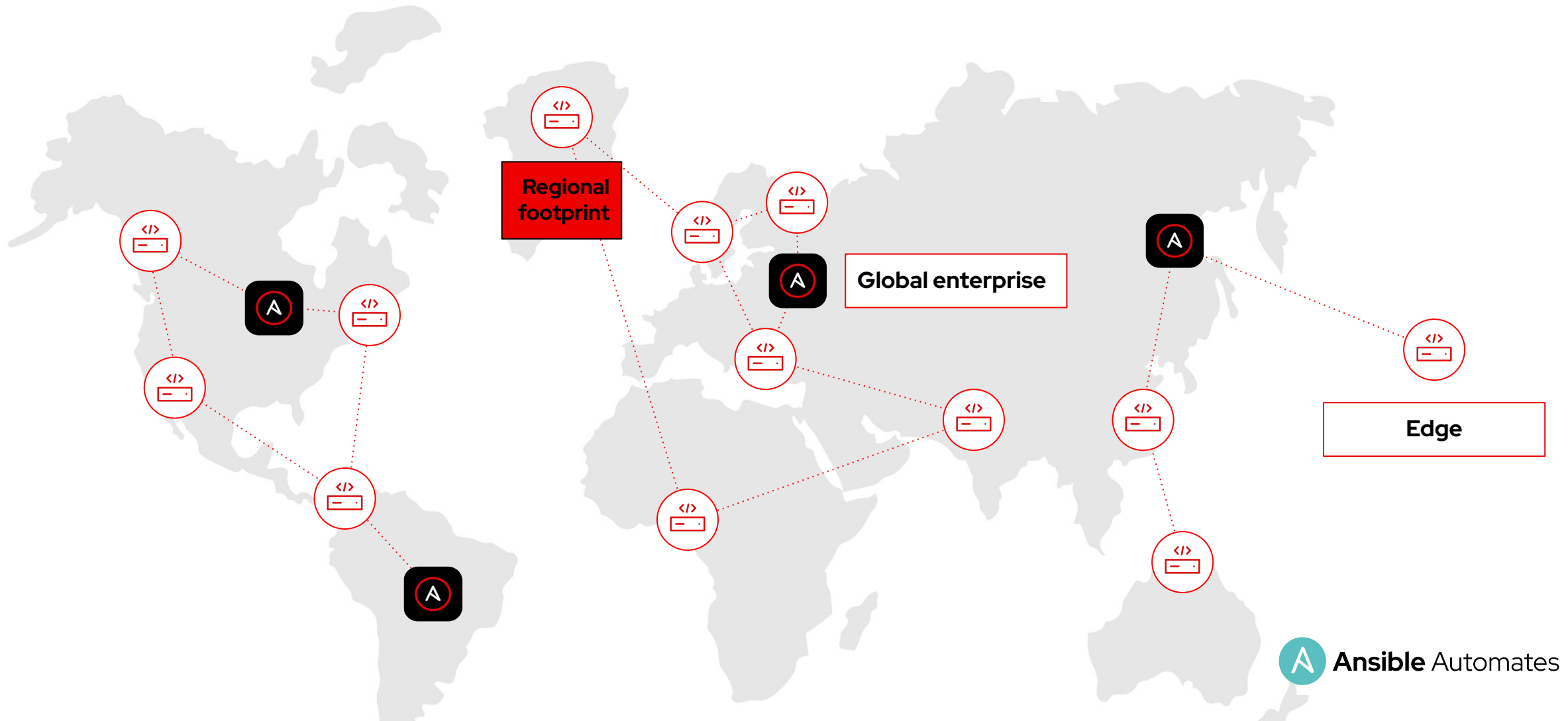
Execution Environments. Portability is reliability.



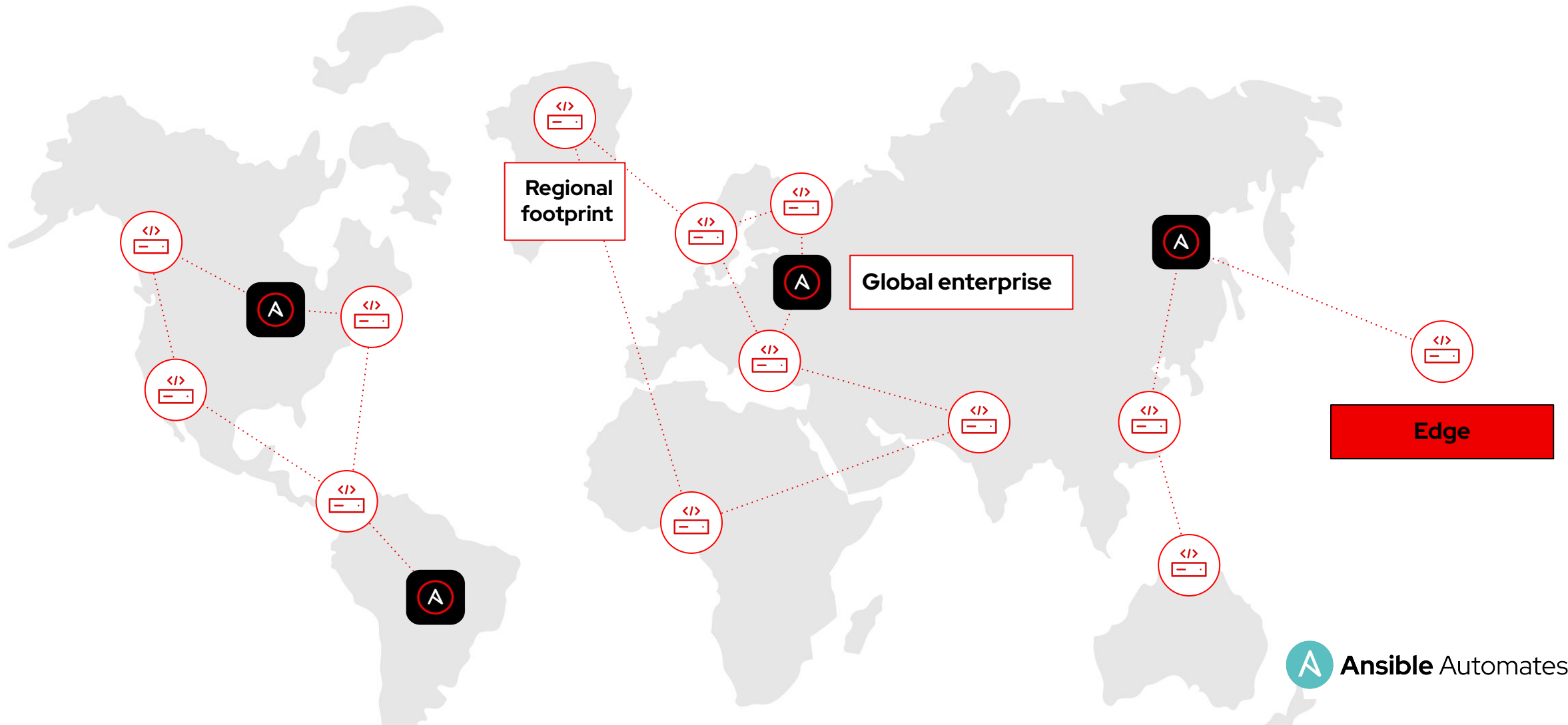
The flexibility to scale, **wherever that may be.**



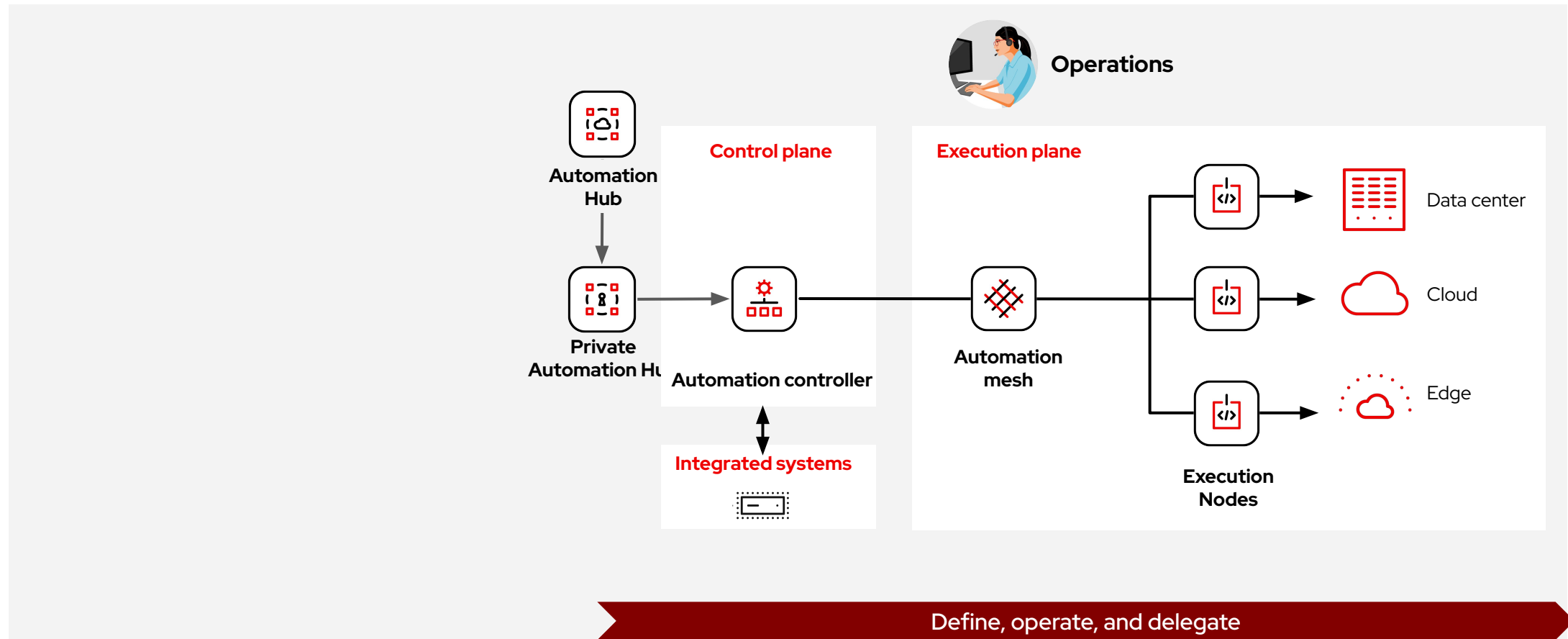
The flexibility to scale, **wherever that may be.**



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



Ansible Automation Platform Big Picture: Operate.



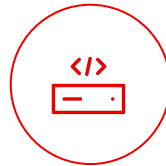
Red Hat Automation Hub. Supported and certified content

130+

Certified Content
Collections

55+

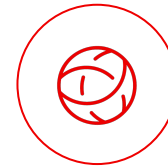
Certified technology
partners



Infrastructure



Cloud



Network



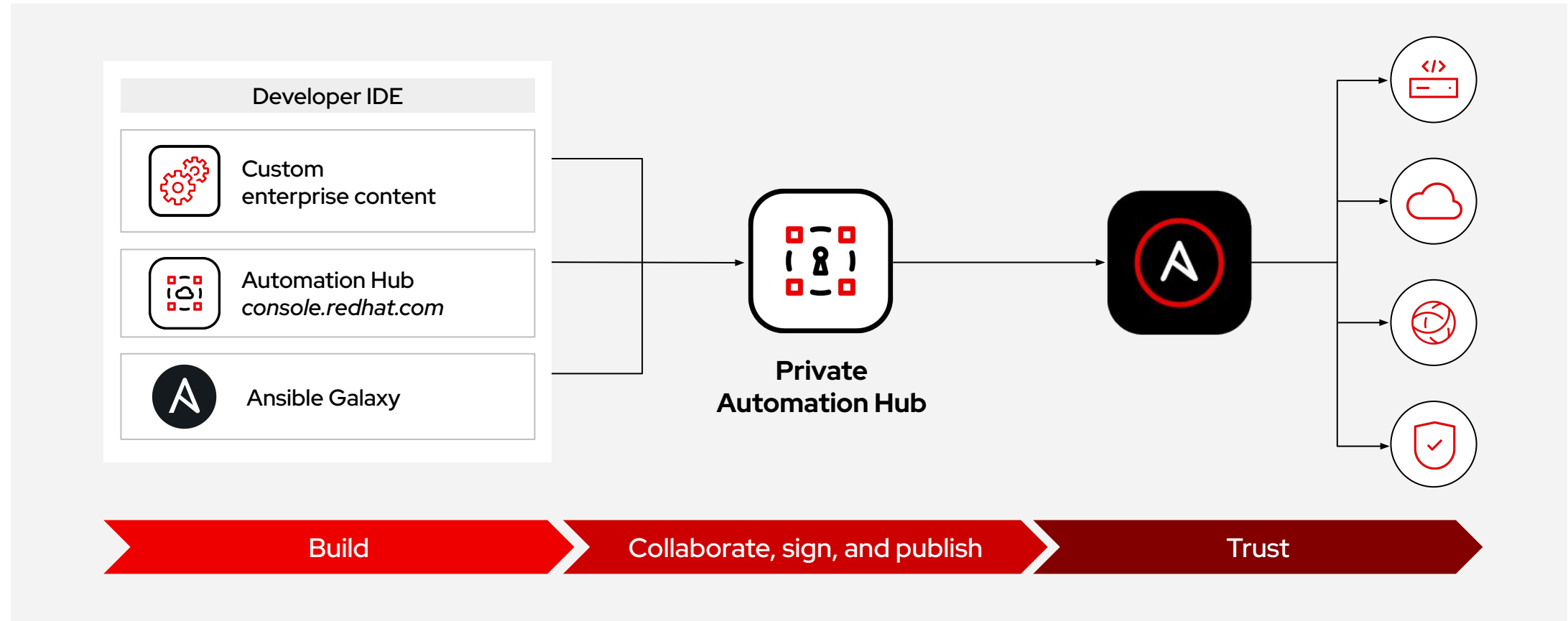
Security



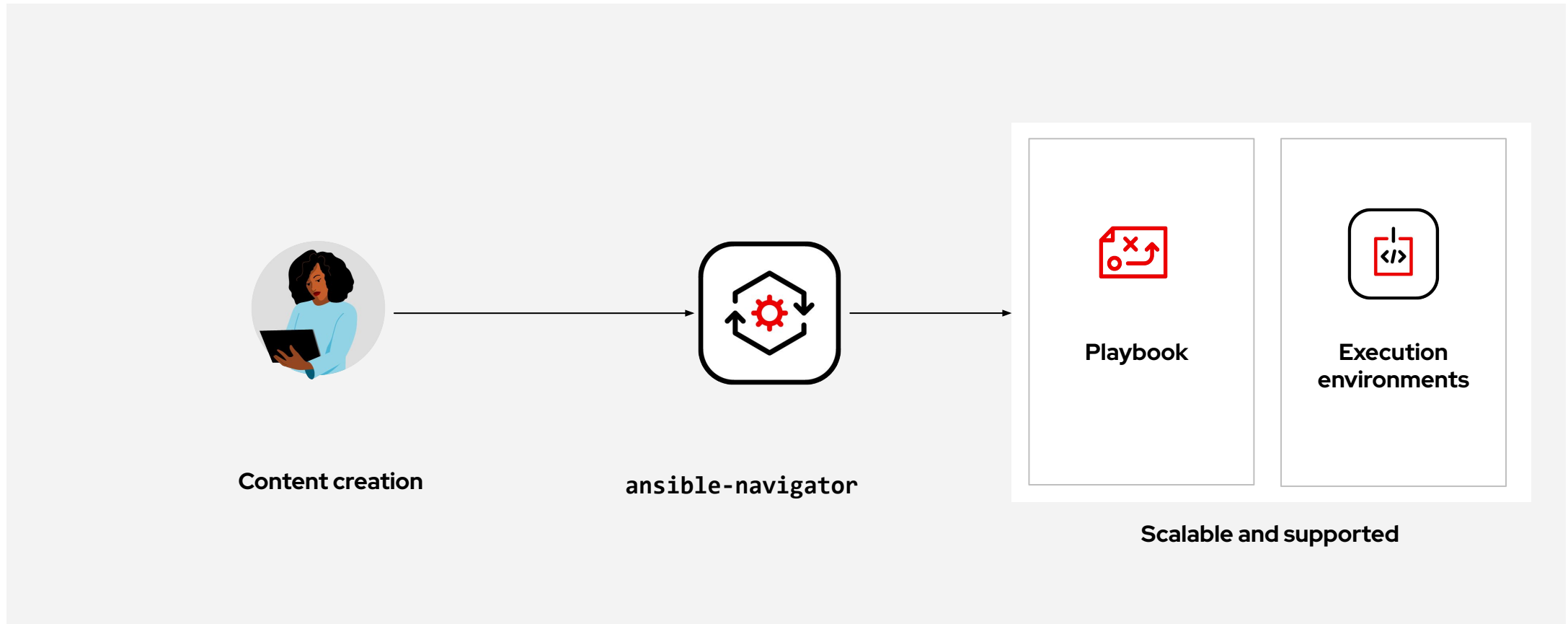
Edge



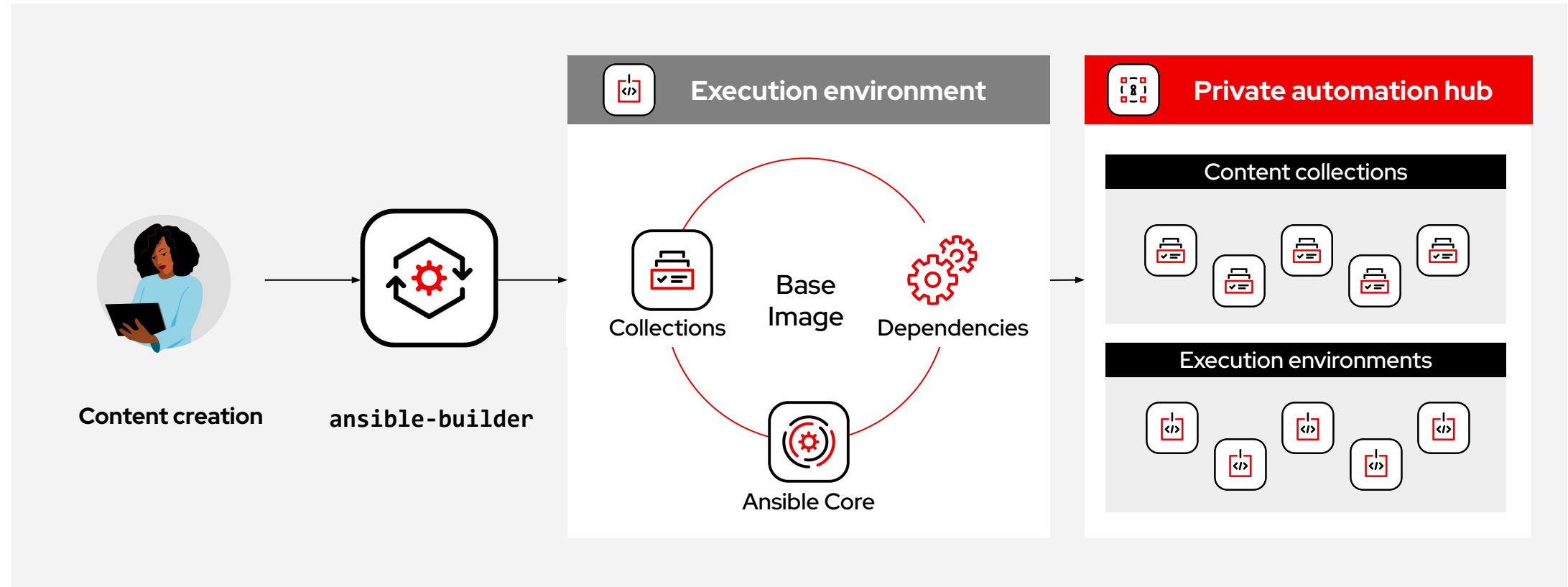
Private automation hub. Collaborate, sign, and publish.



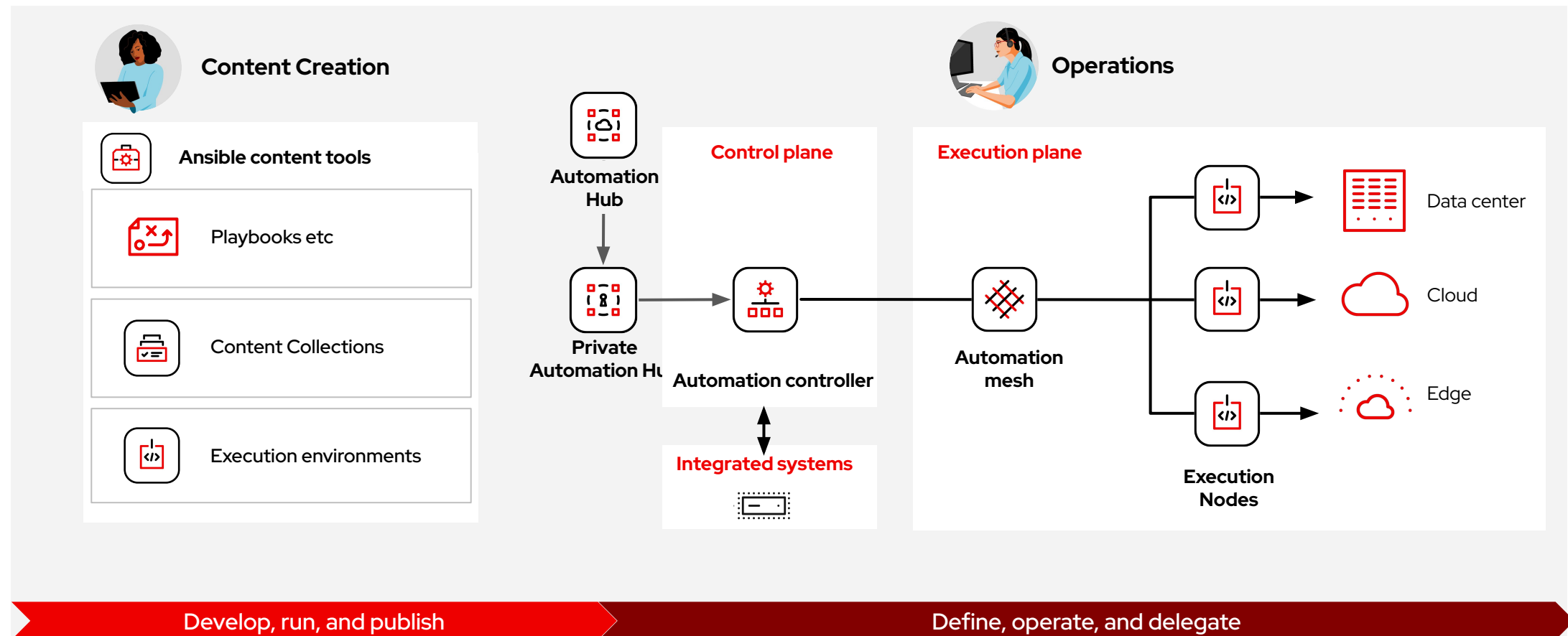
Develop, test and run **containerized Ansible content**.



Execution environment development: Build, sign, publish.



Ansible Automation Platform Big Picture: Create.



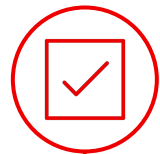
Okay, here we are.

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



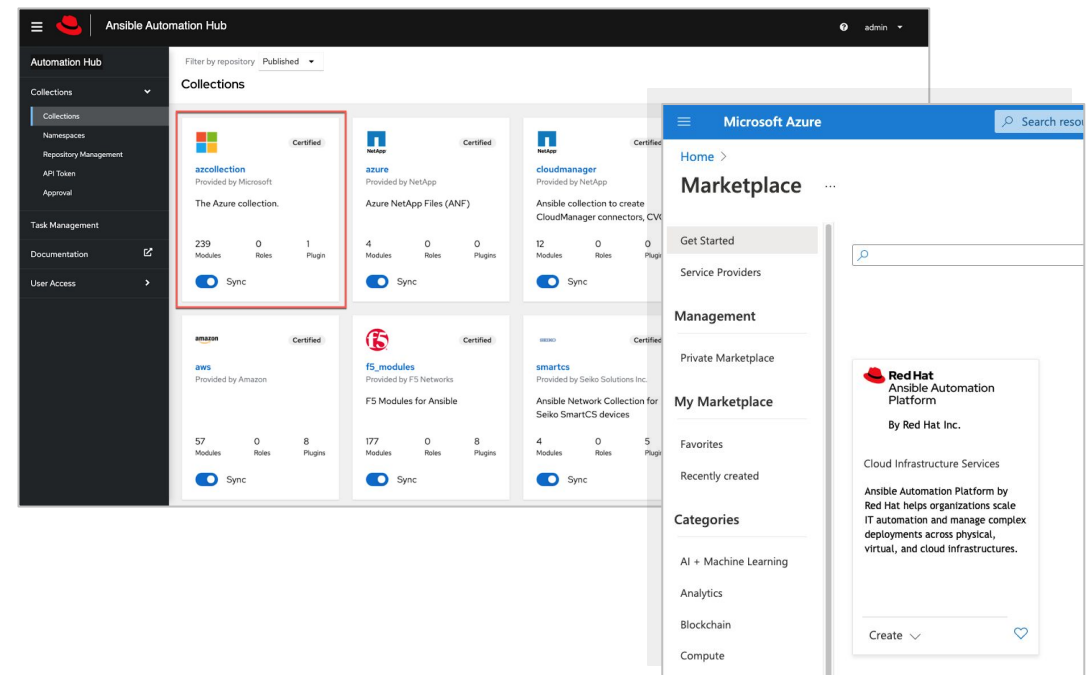
Quick and easy to get started



Optimized deployment with seamless integration to Azure services



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

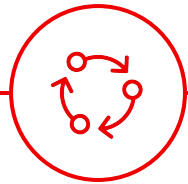


Ansible Automation Platform on AWS

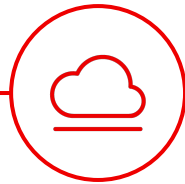
Red Hat Ansible Automation Platform via AWS Marketplace



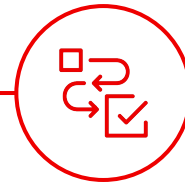
**Runs in
your AWS cloud**



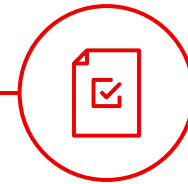
**Fully installed
and integrated**



**Supported
by Red Hat**



**Integrated to
AWS billing**

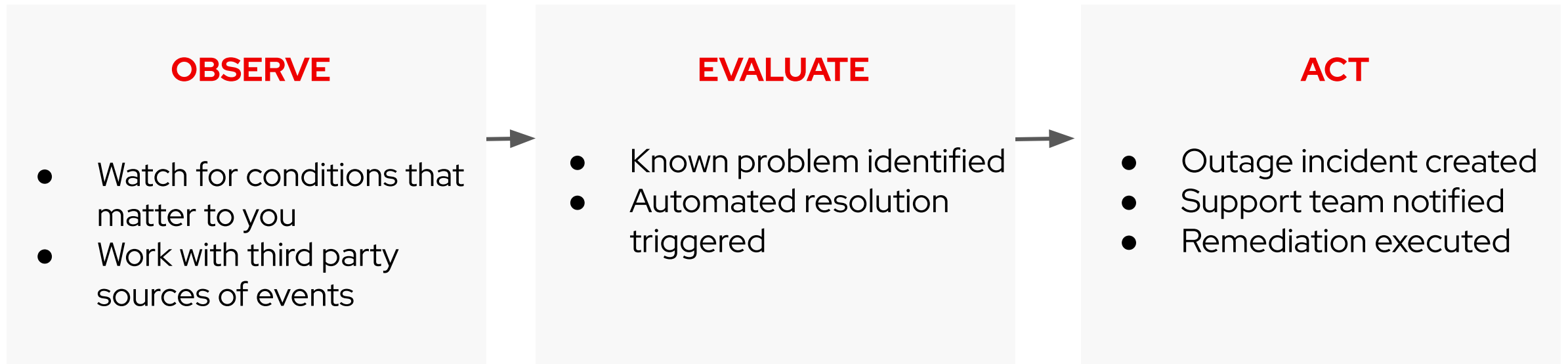


**Counts toward
spend agreements**

Transactable on the marketplace as of Nov. 3, 2022

Ansible Automation Platform Event-Driven Automation

Typical event driven automation process



Key building blocks in Event Driven Ansible



Sources

- ▶ 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.

Key building blocks in Event Driven Ansible



Sources

- ▶ 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.



Rules

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

Key building blocks in Event Driven Ansible



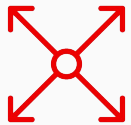
Sources

- ▶ 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.



Rules

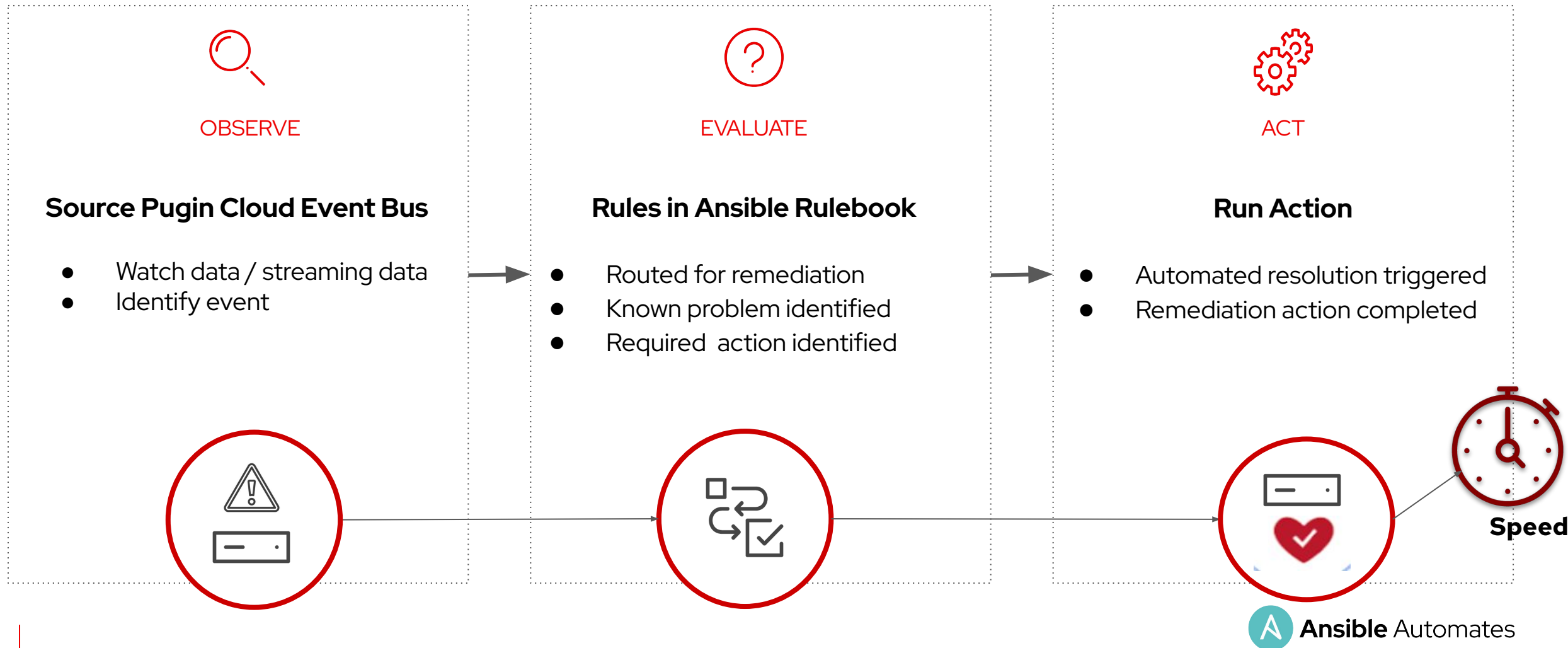
- ▶ Describing when actions should occur, based on information matching source file data.
- ▶ Ansible Rulebooks "if then" formats; can contain playbooks or direct execution modules



Actions

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

Example event-driven workflow: Speed and shorter MTTR



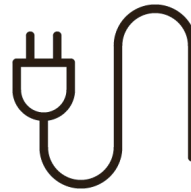
Ansible Automation Platform Validated Content

What is content?

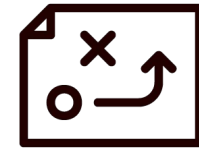
Assets needed to run Ansible Automation



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 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



twitter.com/ansible



linkedin.com/company/ansible/



youtube.com/user/RedHatVideos