

# Ansible Automation Platform: Quo Vadis? Roadmap

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Principal Solution Architect | Red Hat



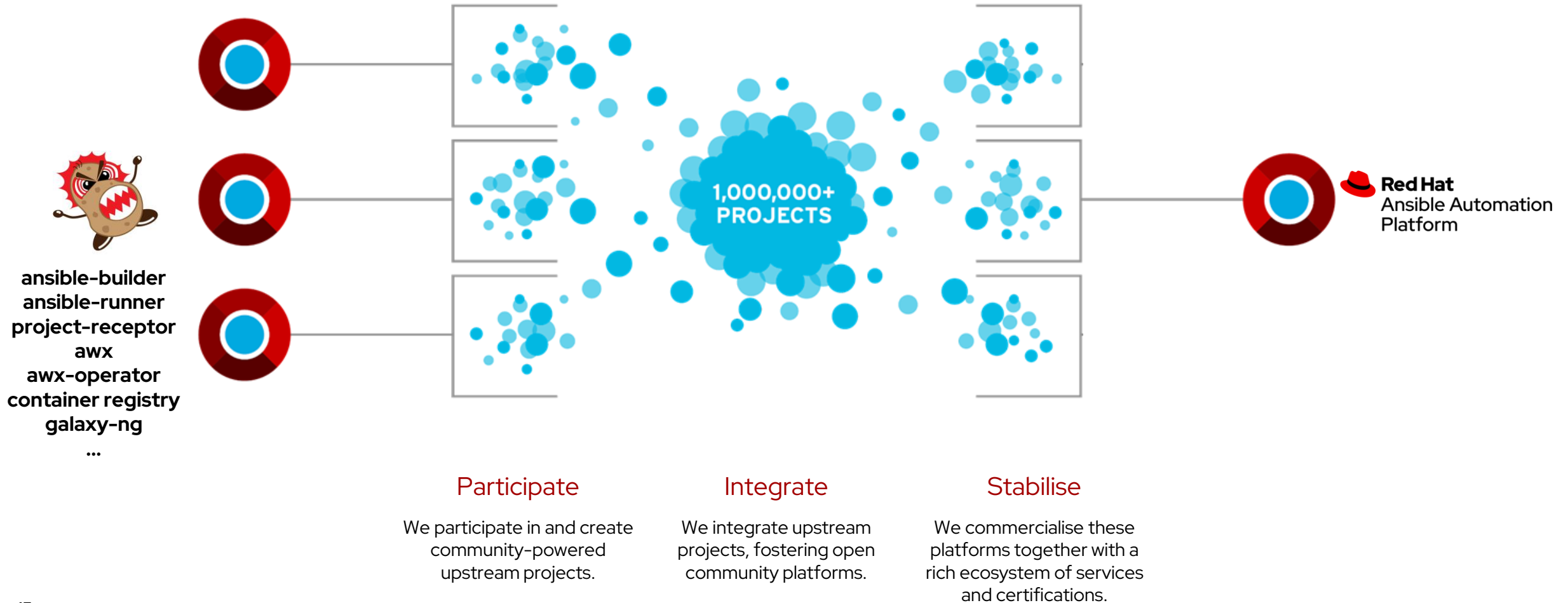
Where do we come from?

**Where are we?**

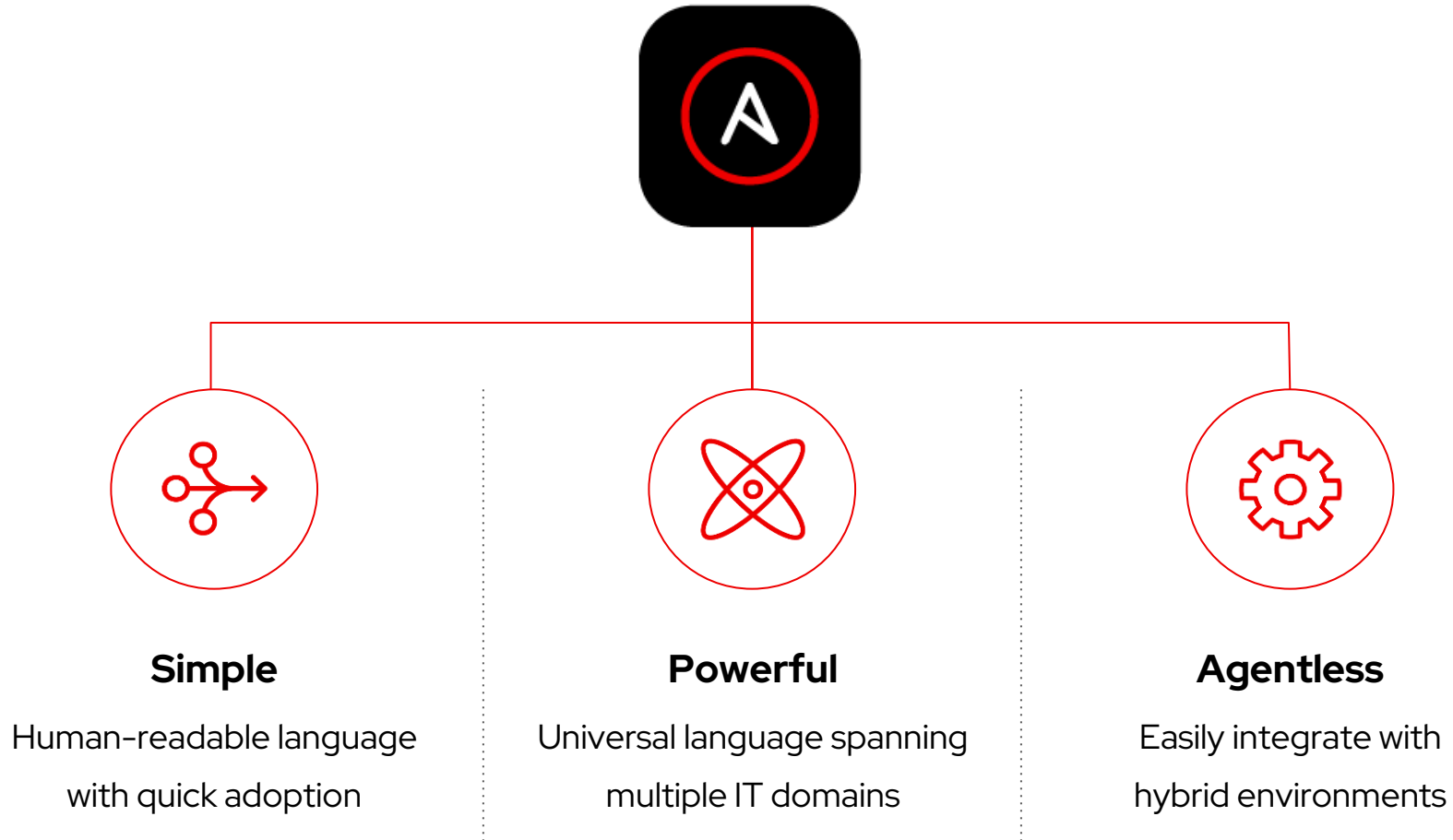
**Where are we going?**

ASSEMBLE

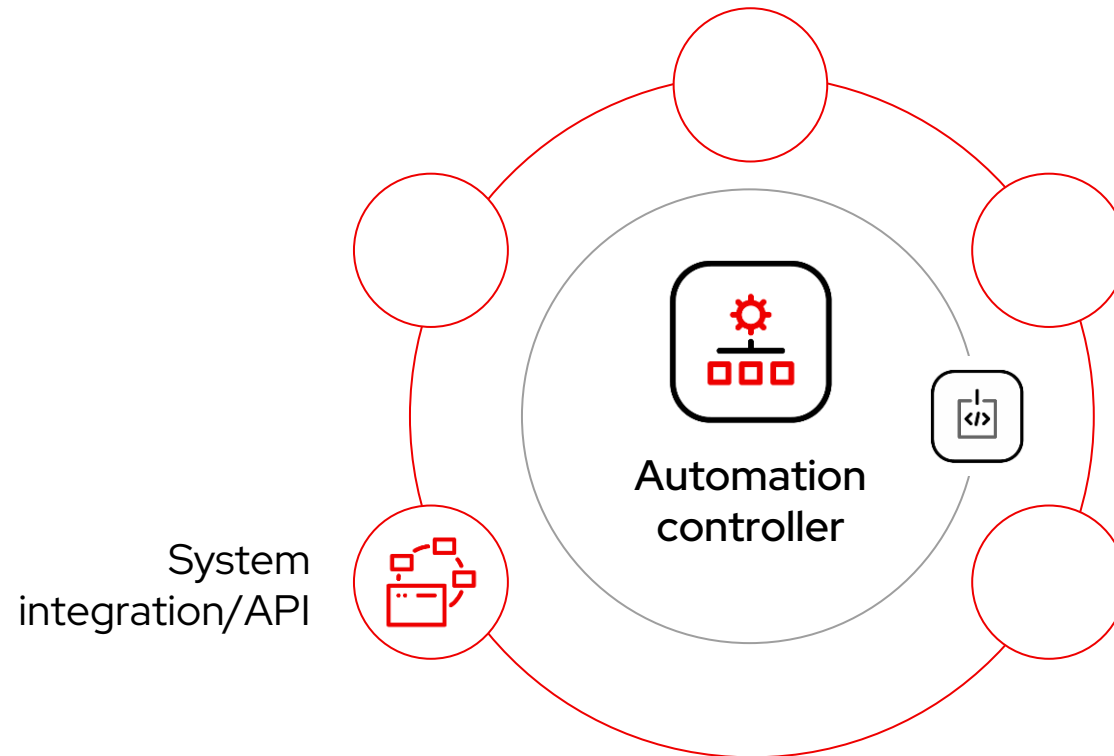
BUY



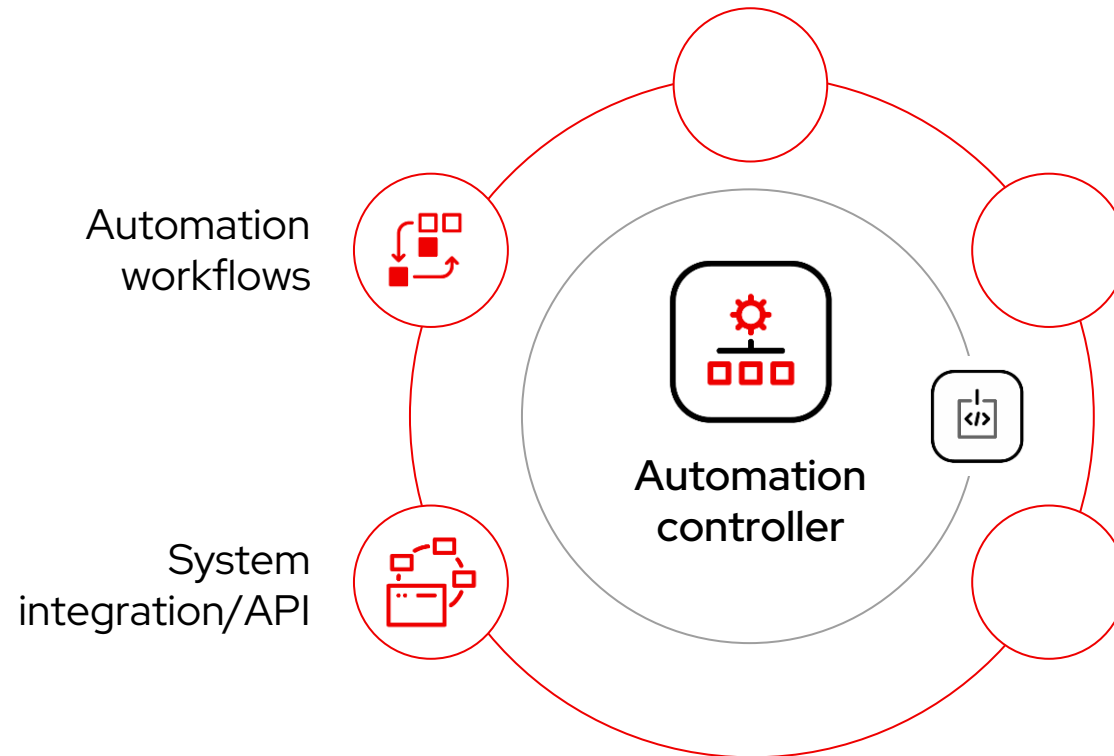
Ansible is the **de facto automation language**.



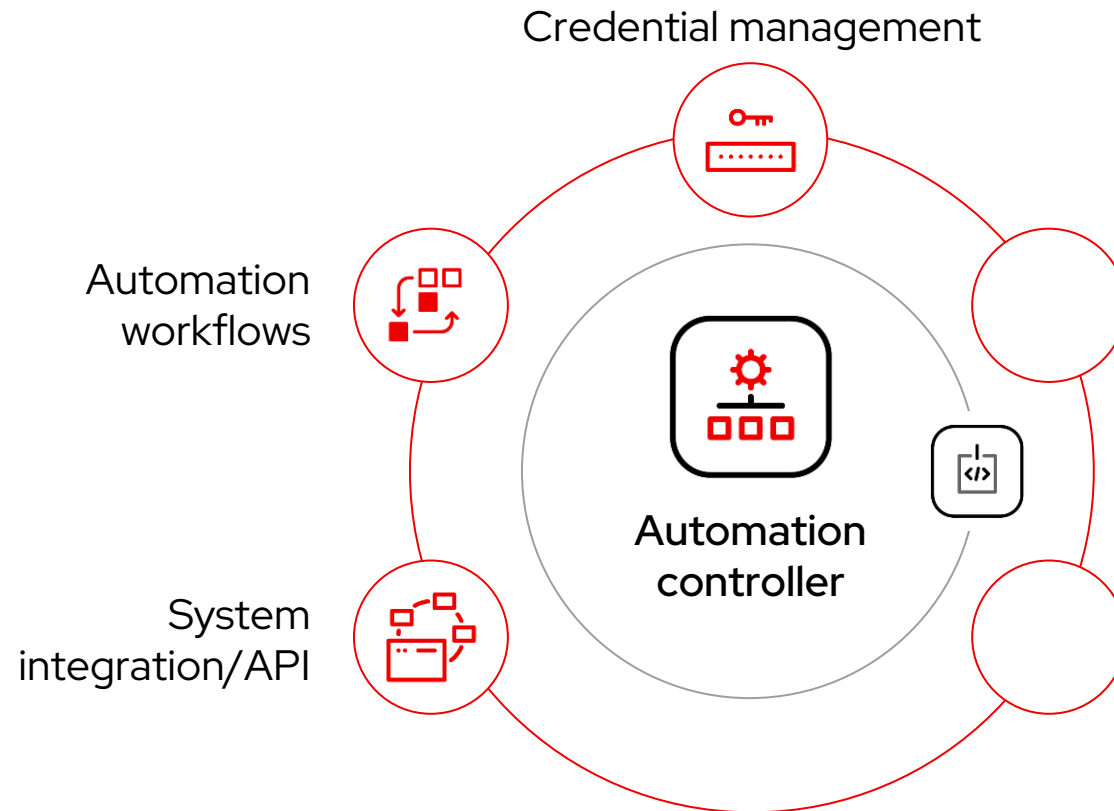
# Strategic automation needs more



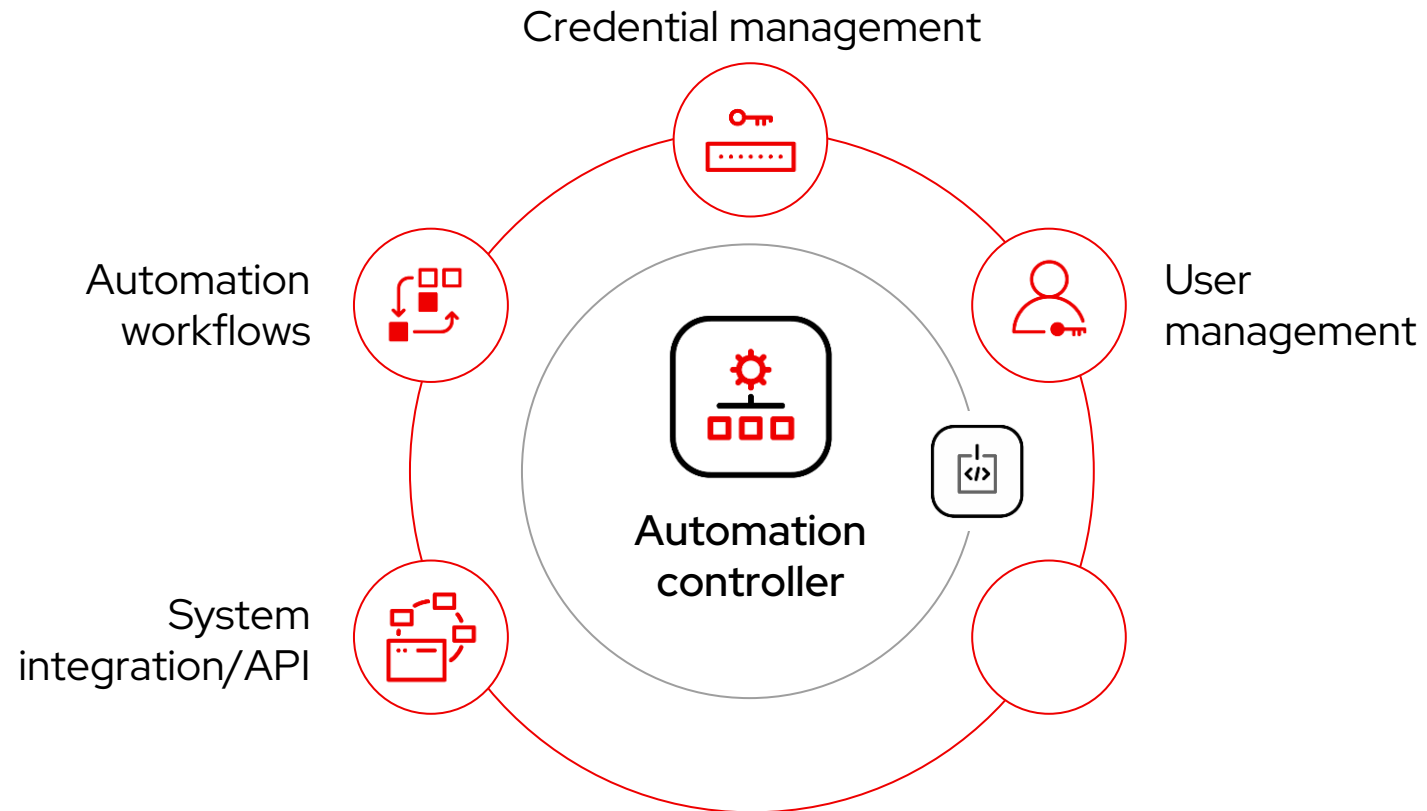
## Strategic automation needs more



# Strategic automation needs more

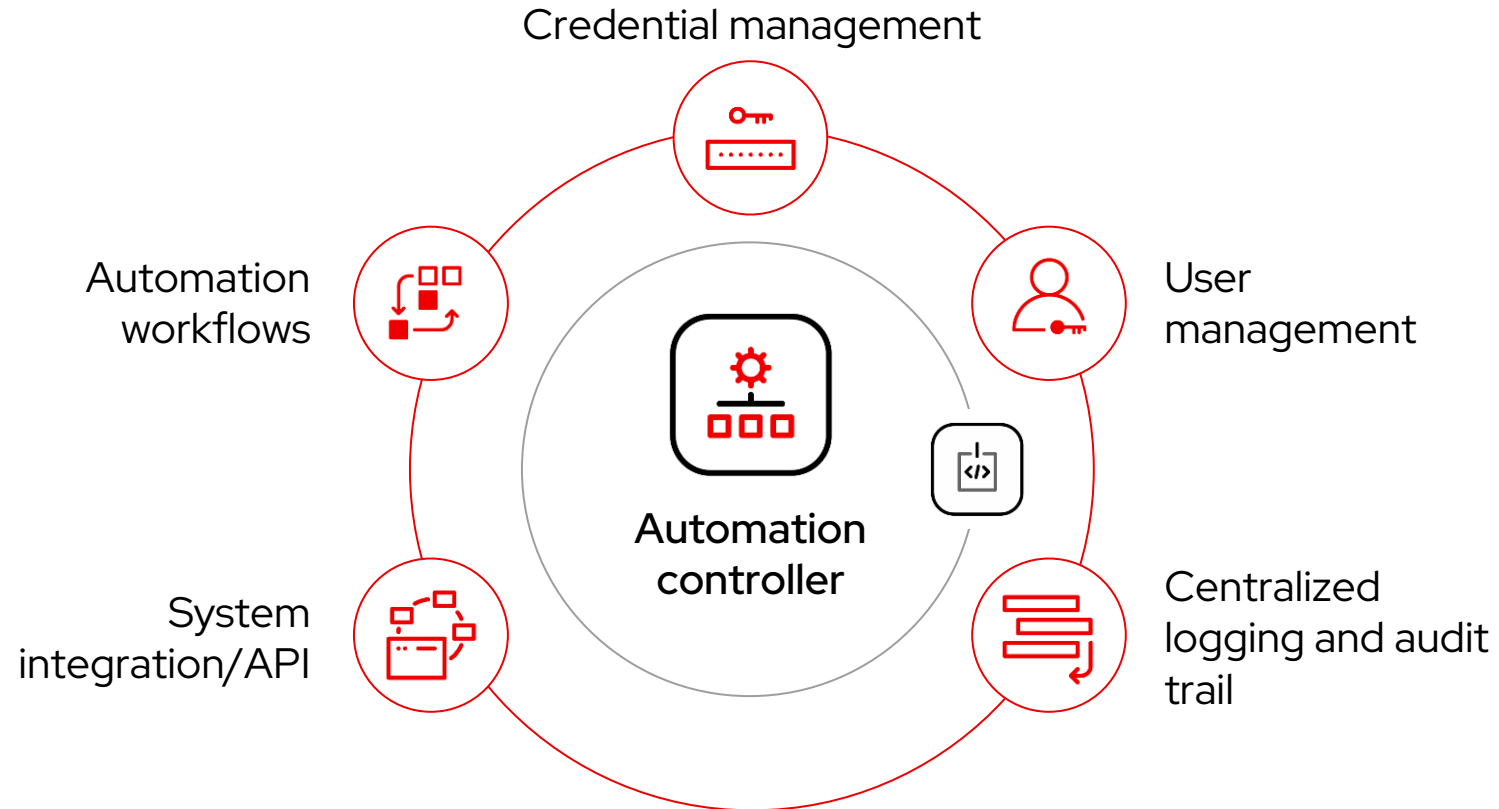


# Strategic automation needs more





# Strategic automation needs more



# Where do we come from?

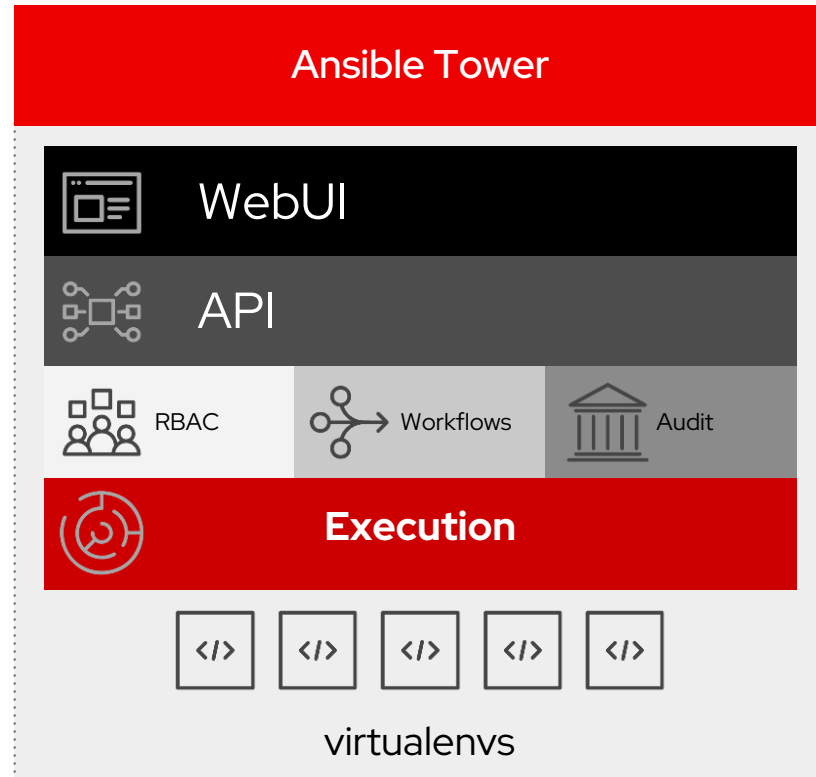
In the beginning, there were  
**Ansible Tower and Ansible Engine.**

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

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

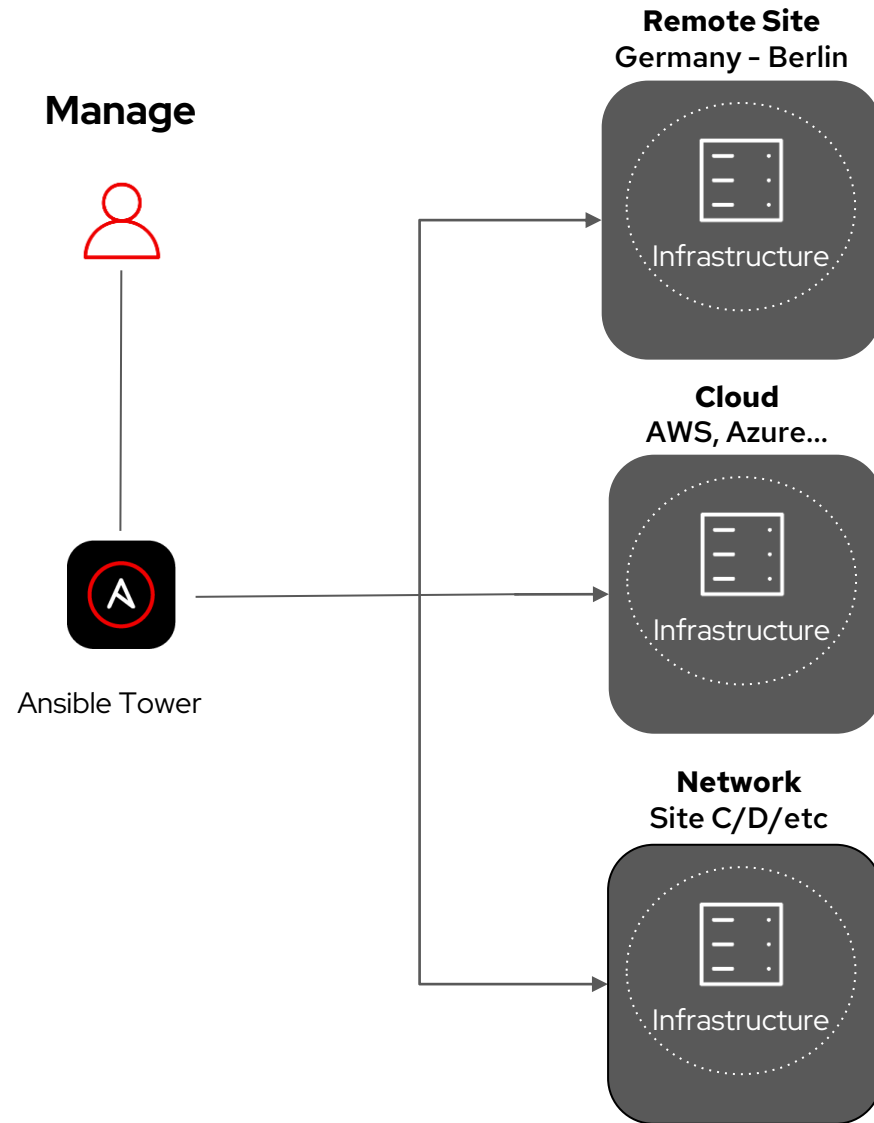


# Ansible Automation Platform 1 Architecture



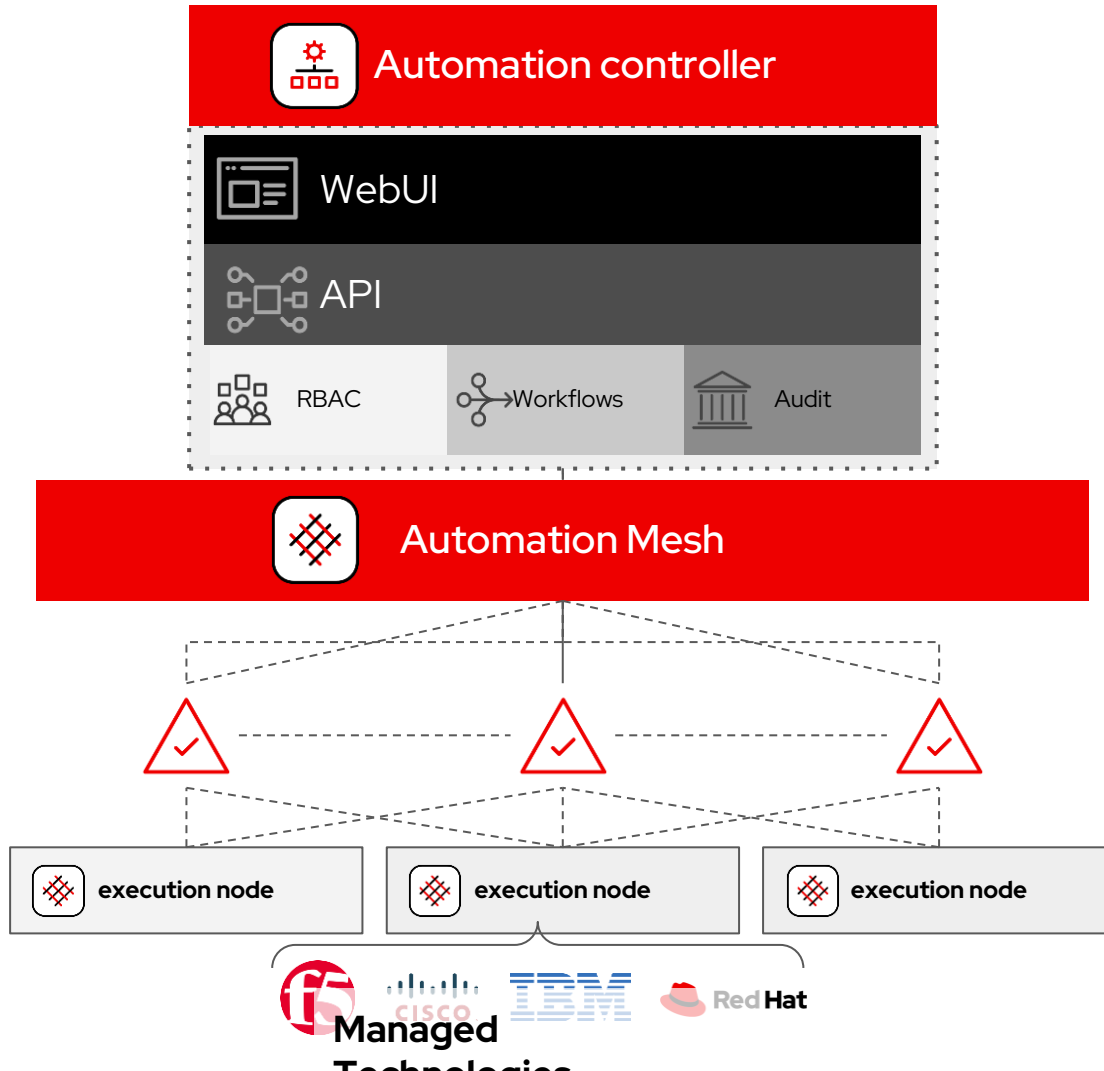
- ▶ Centralized, monolithic application
- ▶ Control and execution capacity shared
- ▶ Limited scalability
- ▶ Less flexible architecture





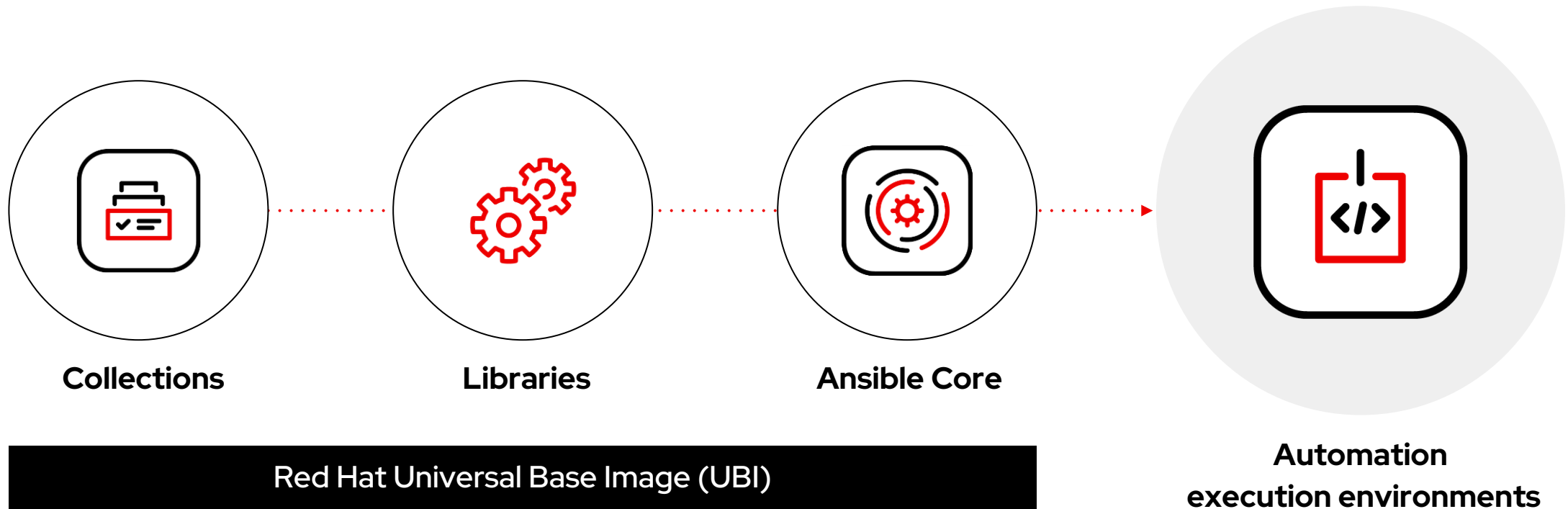
# Where are we?

# Ansible Automation Platform 2



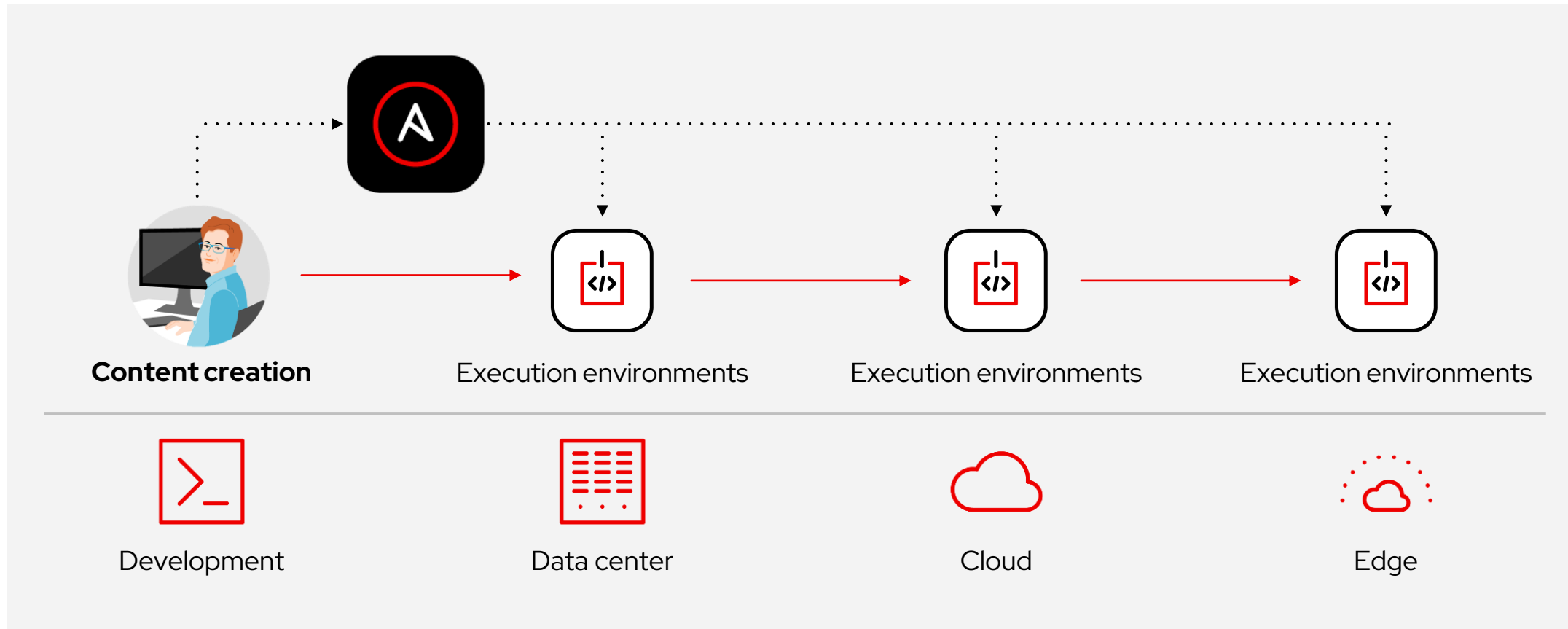
- ▶ Dynamic cluster capacity
- ▶ **Decoupled execution and control plane**
- ▶ **Execution plane resilient to latency/interruptions**
- ▶ Natively build redundant mesh topologies
- ▶ Centralized management with automation controller

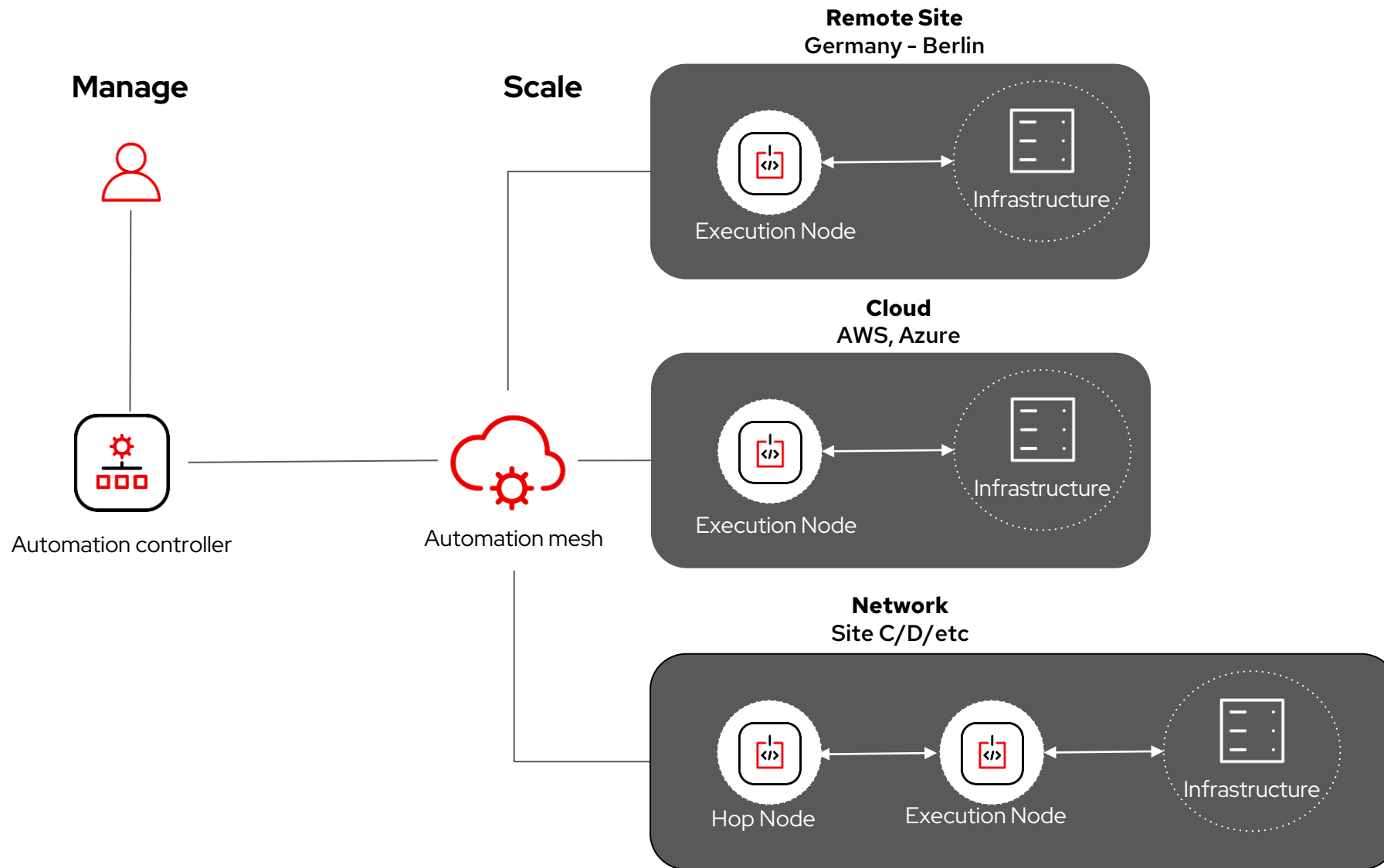
# Automation execution environments. Reuse and scale.



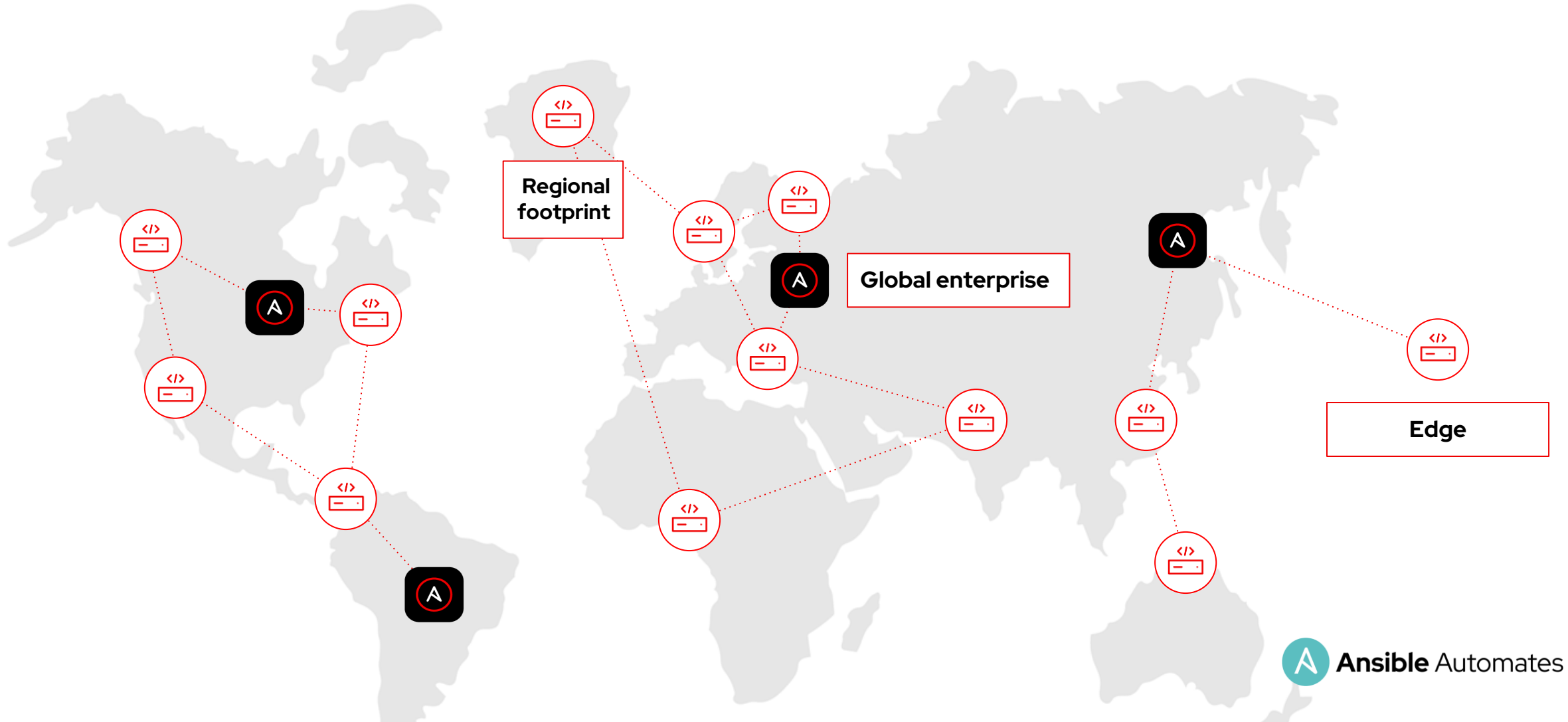


# Execution Environments. Portability is reliability.

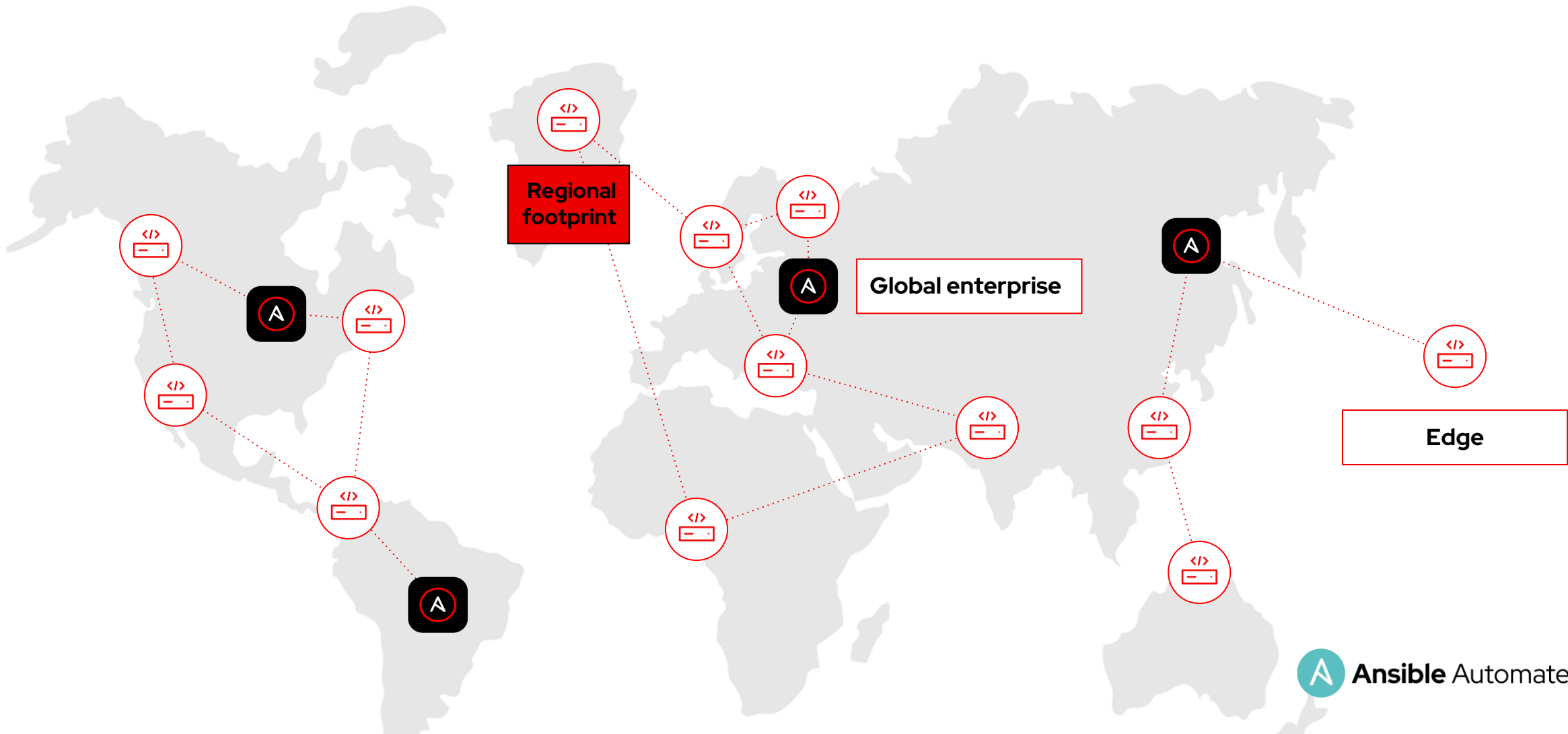




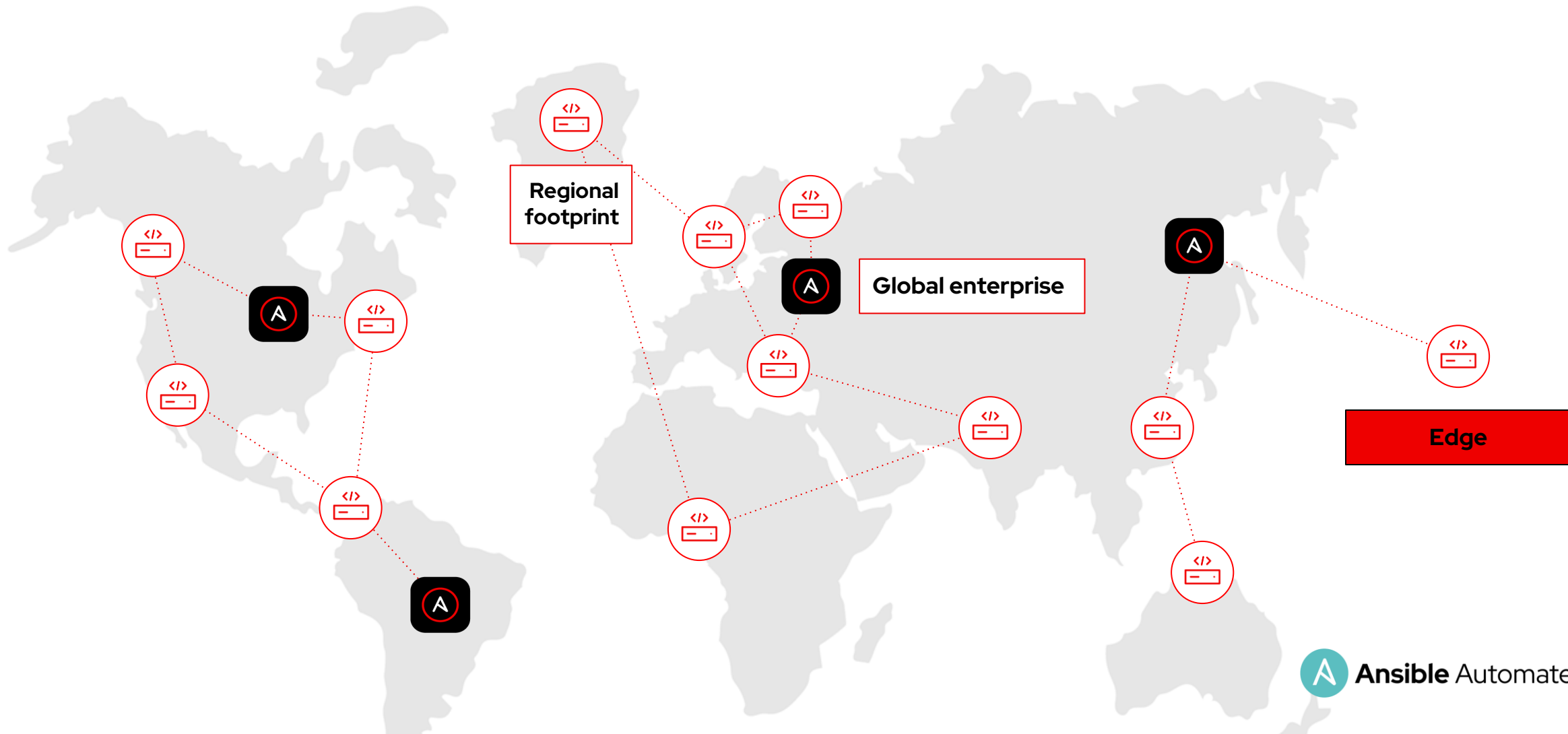
The flexibility to scale, **wherever that may be.**



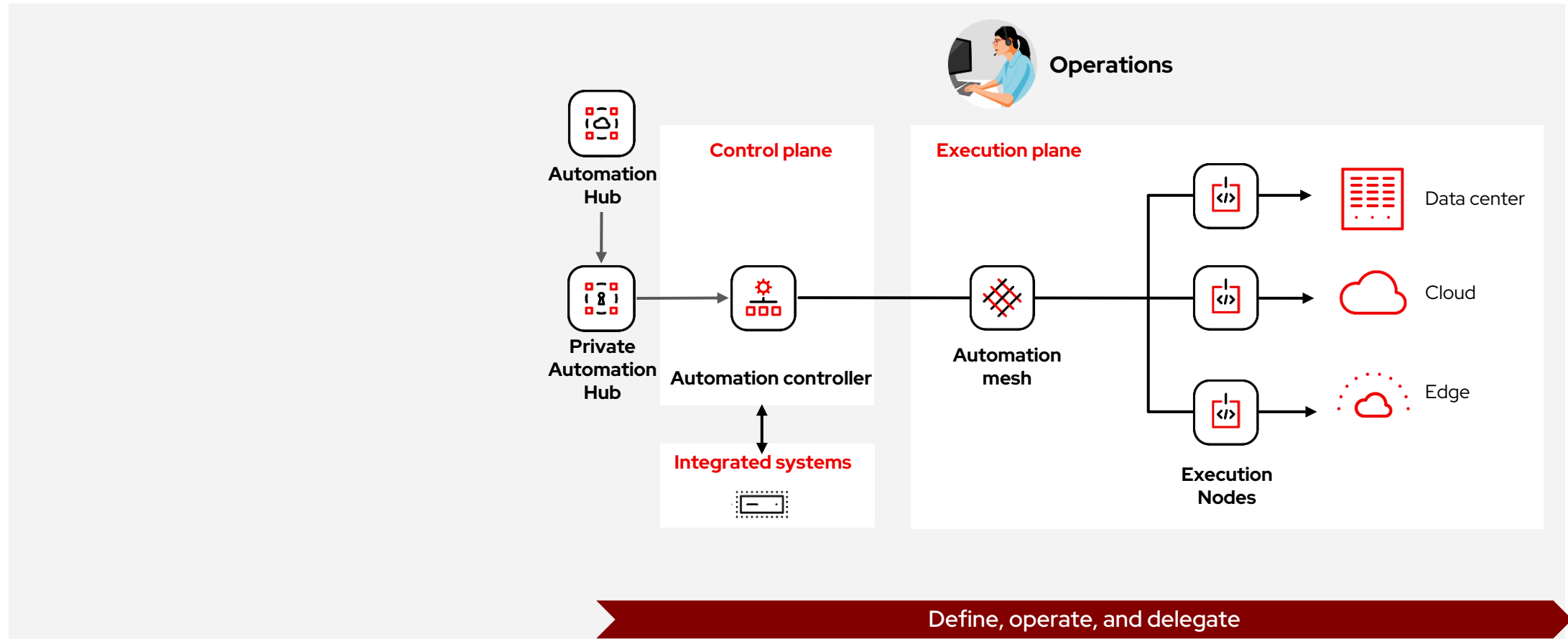
The flexibility to scale, **wherever that may be.**



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+

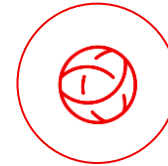
Certified technology partners



Infrastructure



Cloud



Network



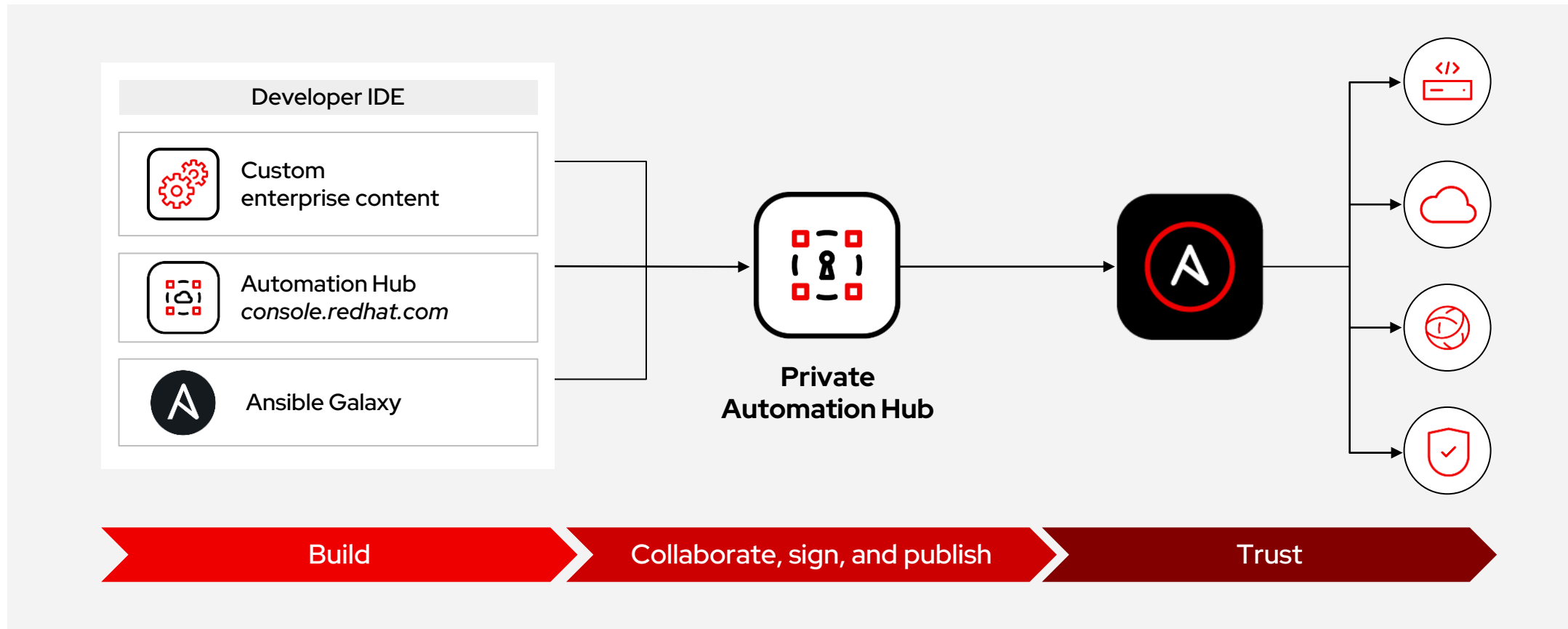
Security



Edge

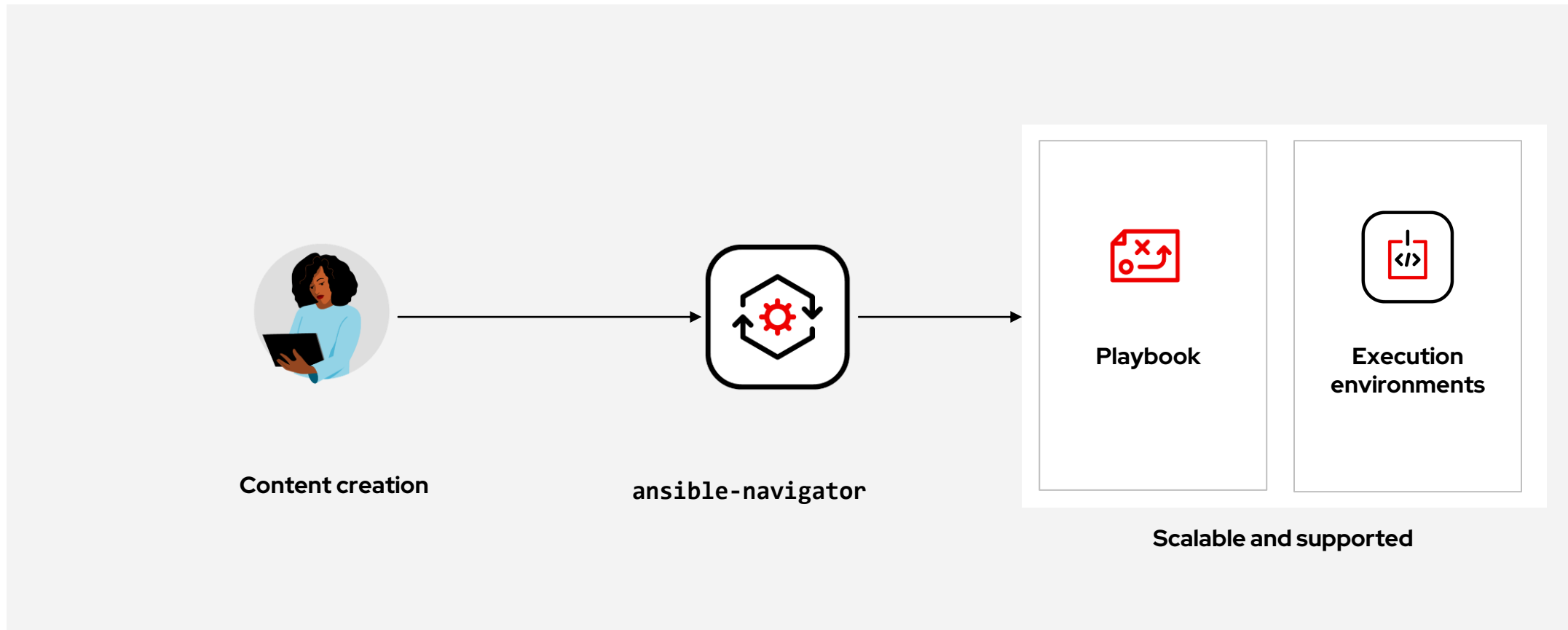


# Private automation hub. Collaborate, sign, and publish.

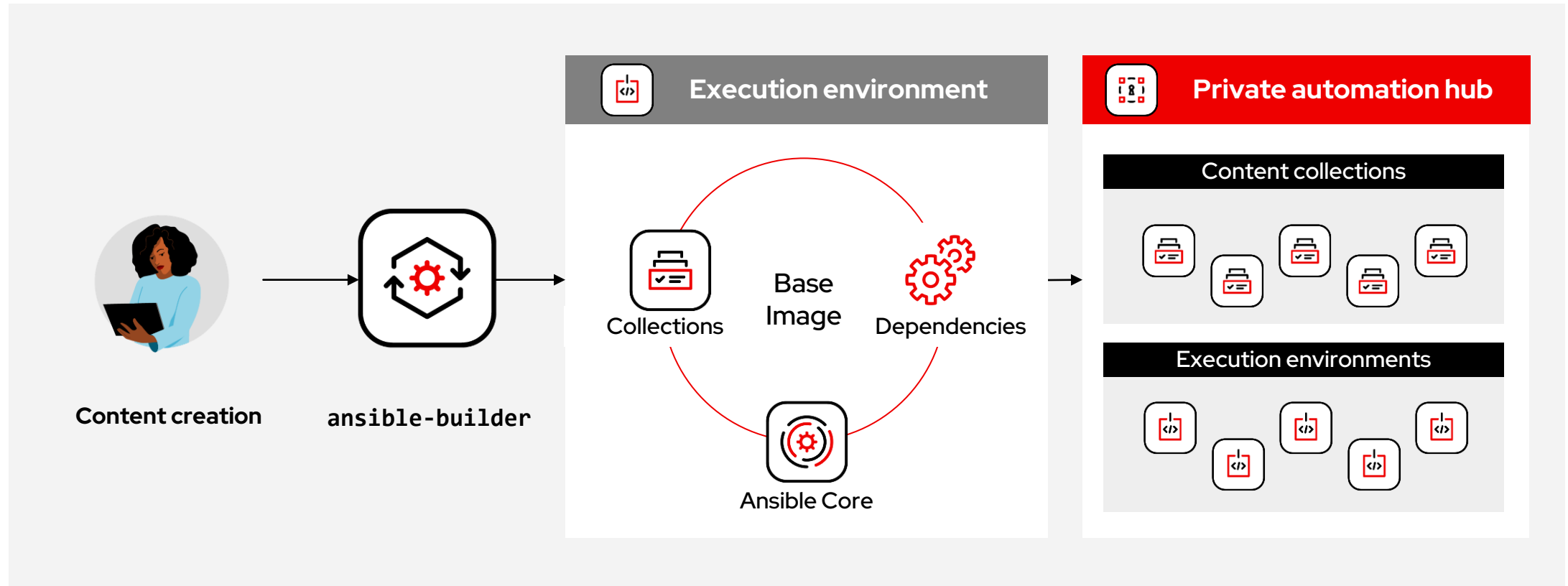




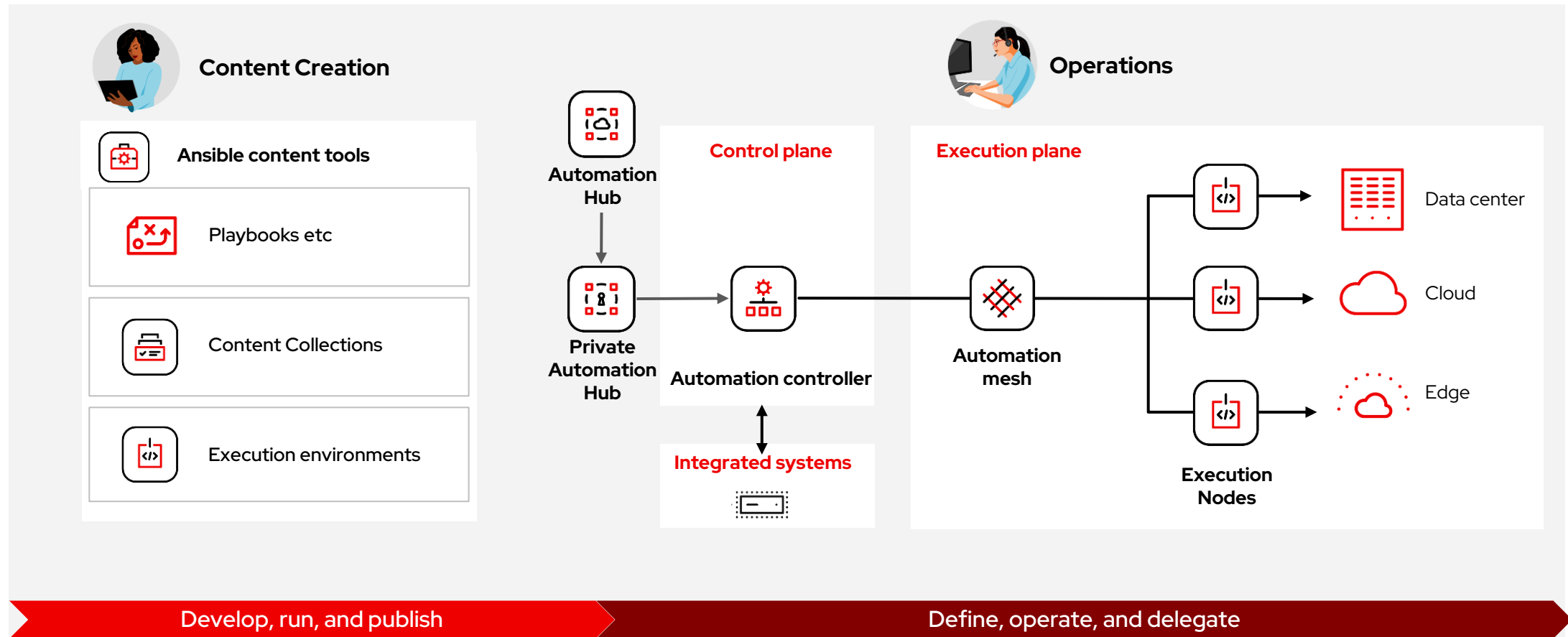
# Develop, test and run **containerized Ansible content**.



# 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



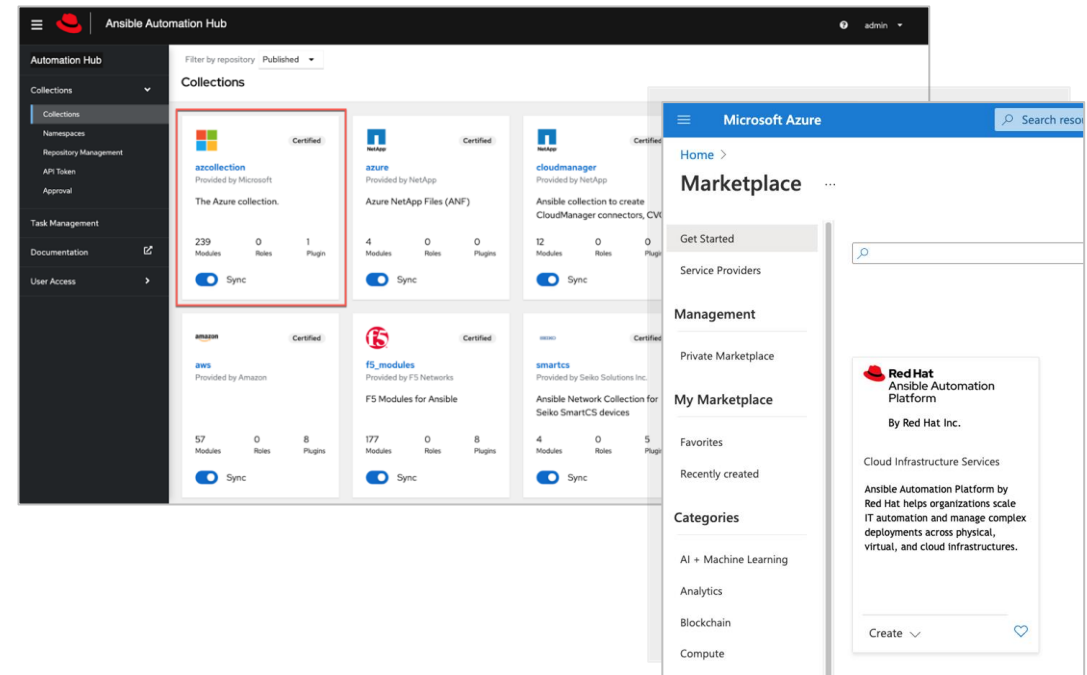
**Quick and easy** to get started



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



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

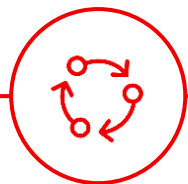


# Ansible Automation Platform on AWS

# Red Hat Ansible Automation Platform via AWS Marketplace



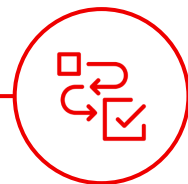
**Runs in  
your AWS cloud**



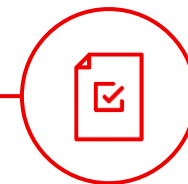
**Fully installed  
and integrated**



**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

### 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

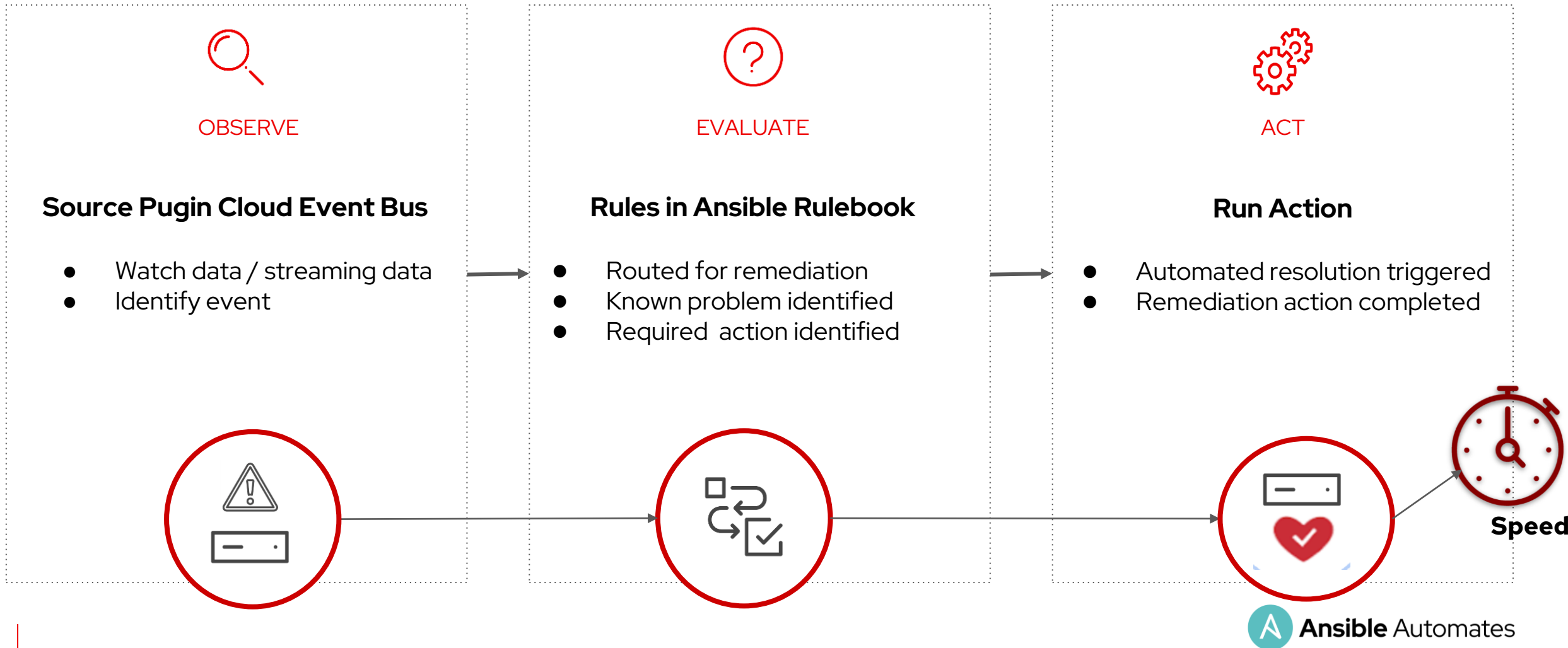
# Ansible Event Driven Automation



## 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

# Example event-driven workflow: Speed and shorter MTTR



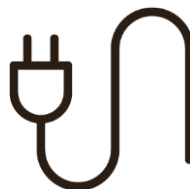
# Ansible Automation Platform Validated Content

# 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.



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