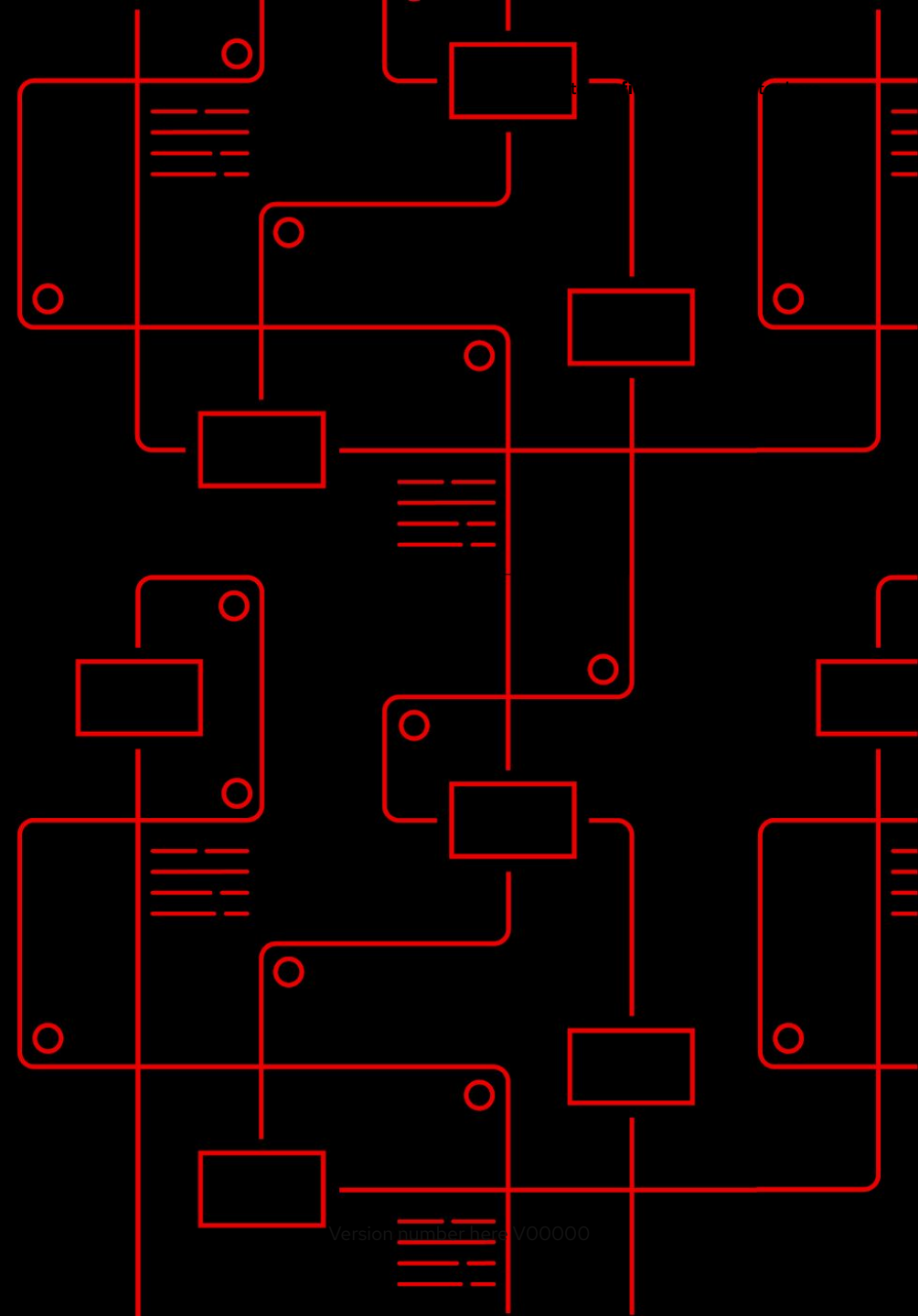
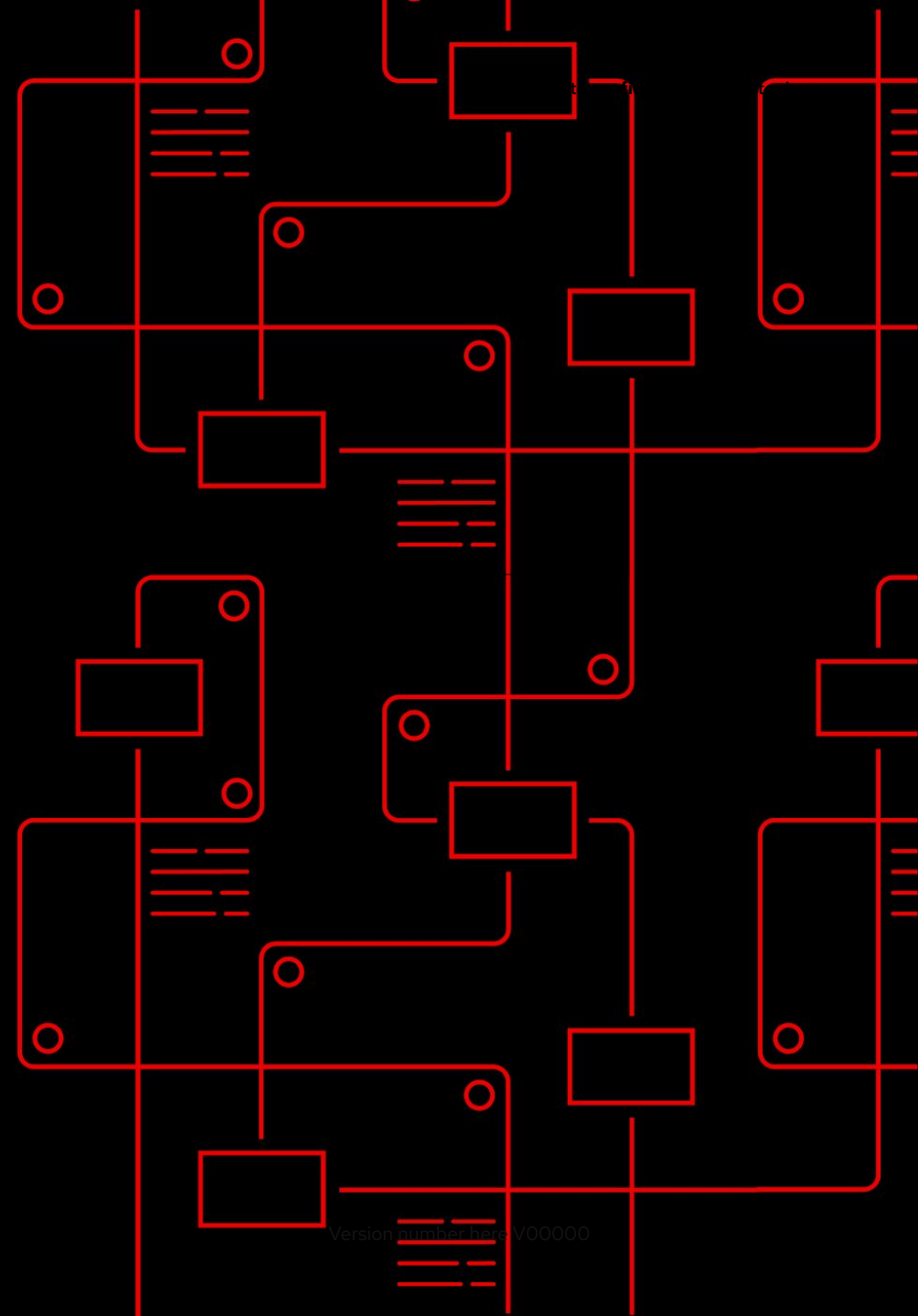


Strategy & Roadmap





PLACEHOLDER

Intro Loic

Red Hat Ansible Automation Platform

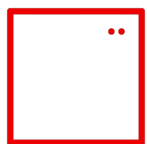
A comprehensive IT automation solution

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

Simple | Human readable | YML



Ansible Automation Platform is engineered to help IT teams **create, manage, and scale** their automation.



Applications

- ▶ DevOps
- ▶ CI/CD
- ▶ GitOps



Network

- ▶ Network visibility
- ▶ Configuration management
- ▶ Network operations



Cloud

- ▶ Orchestration
- ▶ Operationalization
- ▶ Governance



Security

- ▶ Investigation enrichment
- ▶ Threat hunting
- ▶ Incident response
- ▶ Endpoint protection



Infrastructure

- ▶ Deployment
- ▶ Provisioning
- ▶ Management



Edge

- ▶ Infrastructure, network and security extension
- ▶ Industrial/IoT device automation
- ▶ Manufacturing/Retail remote site management

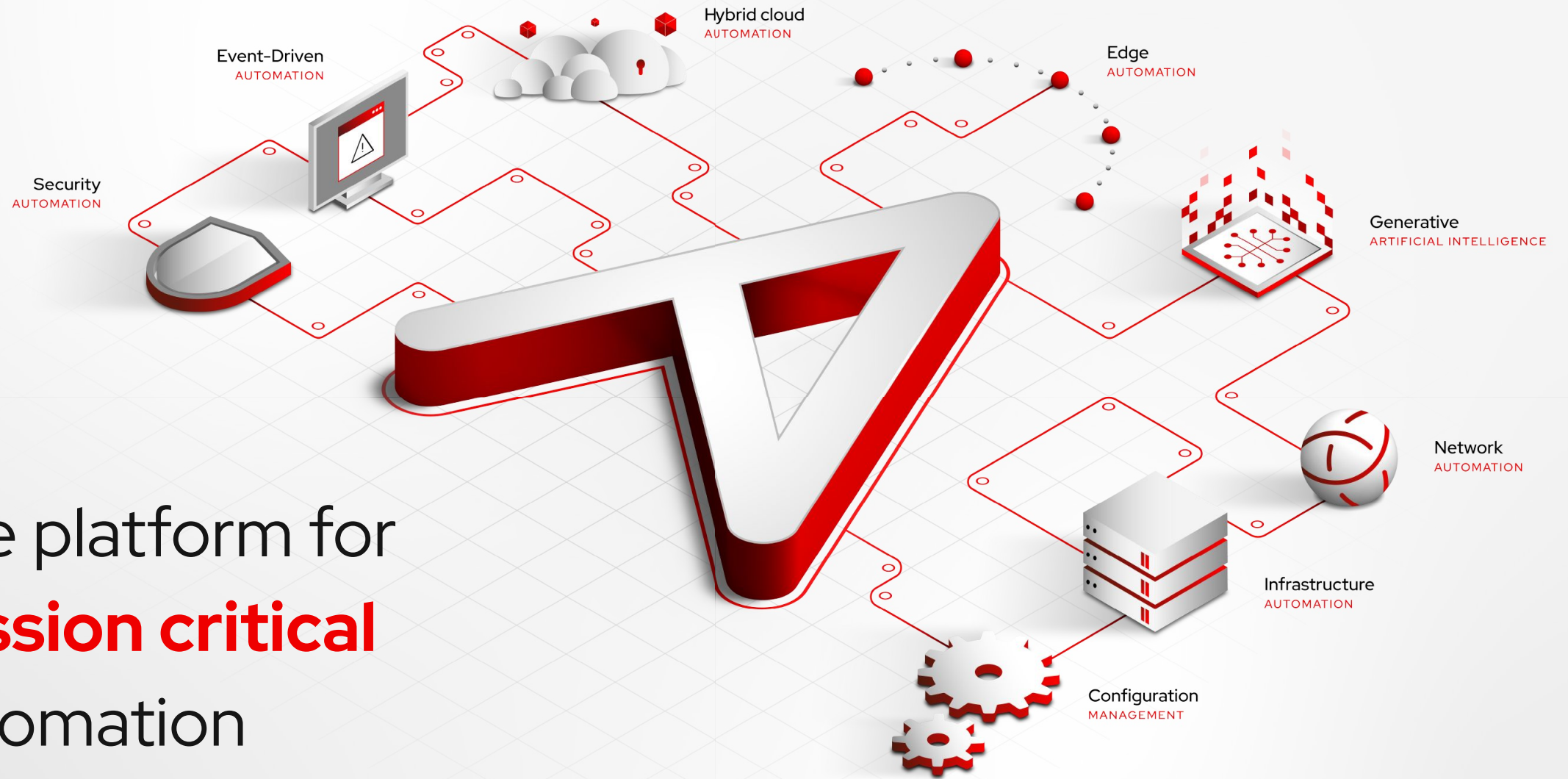
The mission critical automation mindset shift

> **Concentration drives criticality.** Customers adopting automation need to plan at a systems level across the enterprise.

> Complexity can be a blocker. Customers **need a force multiplier** to get the most out of their technology investments

> Customers need to **better prepare themselves for the impending AI revolution.**

MISSION CRITICAL



The platform for
mission critical
automation

The platform for mission critical automation



More efficiency

- ✓ Generative AI to lower barriers to entry (*Ansible Lightspeed*)
- ✓ Unified UI for true platform experience
- ✓ Enhanced developer tooling



More consistency

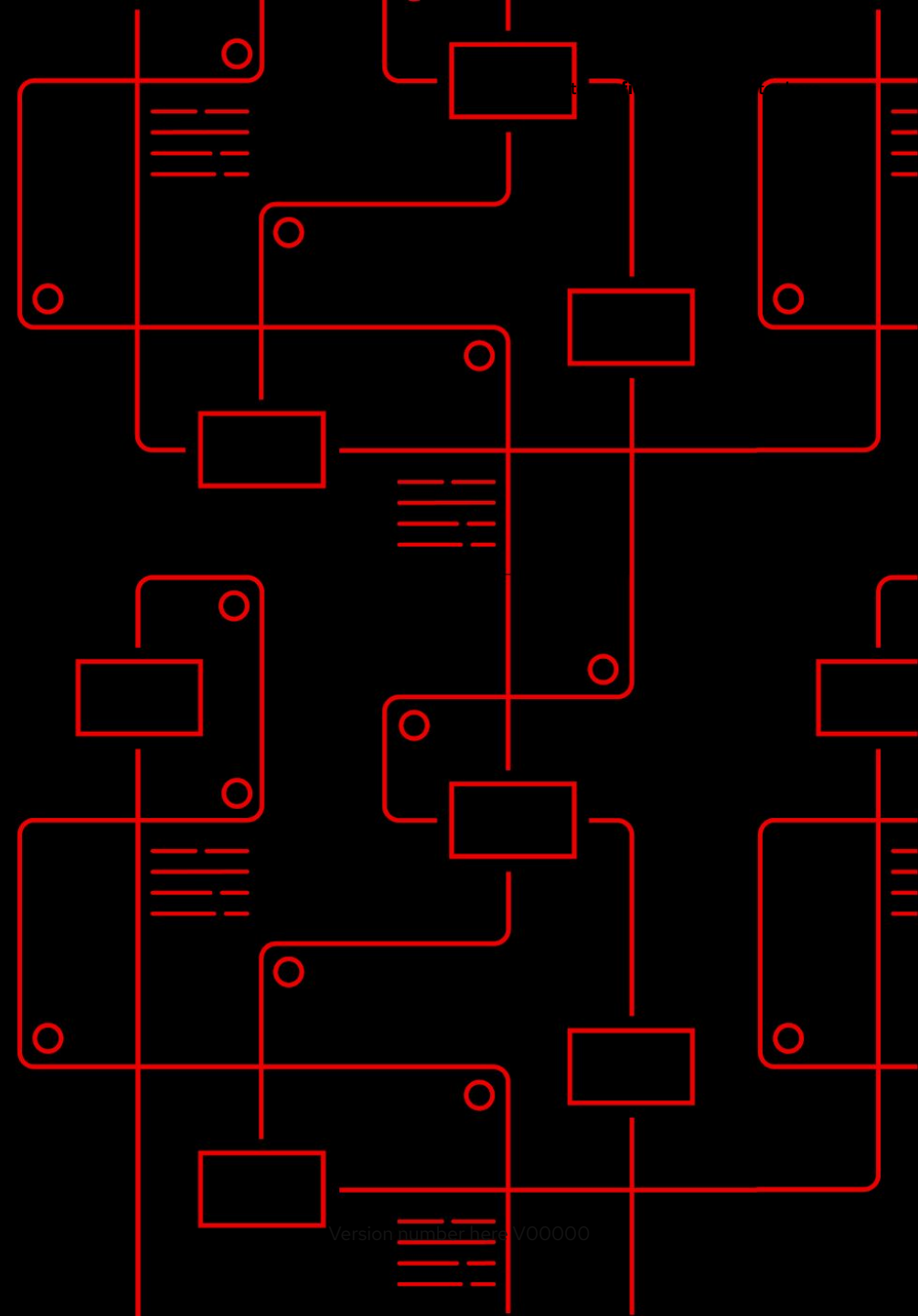
- ✓ Out of the box integrations across domains
 - > Network
 - > Infrastructure
 - > Security
 - > Edge
 - > Applications
- ✓ *Ansible on Clouds*; flexibility across environments
- ✓ "Policy as Code" (GRC)



More reliability

- ✓ *Event-Driven Ansible* for observability + response
- ✓ Trusted automation supply chain
- ✓ Consulting, services, and support for sustainable automation practices

Concentration requires more consistency





*“Automation helped support a positive cultural shift, **resulting in better collaboration between teams.** Red Hat is collaborating with us to implement best practices and **learn from their expertise across our entire organization.**”*

- **Automation manager**
European energy company

The Automation Platform Engineering Model



Adopt platform engineering to maximize the flow of value from self-service teams, and capture the potential of managing IT delivery using proven product management practices.

Gartner

Which challenges are they trying to solve?



Applying organizational **security policy requirements**



Lack of compatibility with preferred tooling



Varied tool preferences among users



The **automation skills gap**; varied level of Ansible expertise



Technical debt hinders innovation

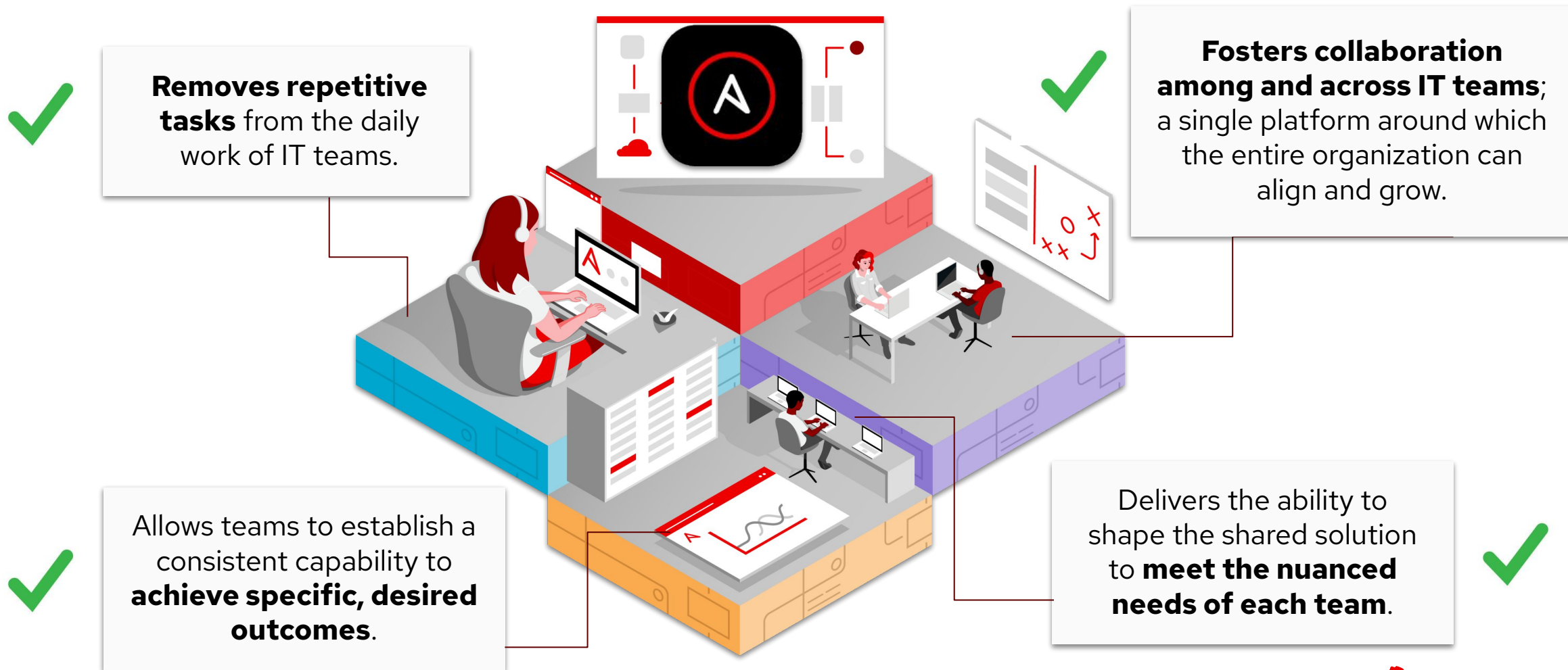


Cultural resistance to learning new skills and behaviors



No **standards or best practices** in place to align teams

Built to support a Platform Engineering approach to automation



Seamless integration with other mission critical tools

Building mission critical workflows across the open hybrid cloud ecosystem



Where we see the market going



+



Infrastructure as Code

- ▶ *"Build, Provision, Configure, Deploy"* - with a more focused, automation-first mindset.
- ▶ Extend and leverage "legacy knowledge"
- ▶ Expand into additional IT domains and footprints (network, edge, cloud, etc)

Operations as Code

- ▶ Standardize operations processes IT-wide
- ▶ Observability is easy, remediation is hard
- ▶ A skills vacuum is coming soon

Growth in end-to-end automation across the entire lifecycle

Policy as Code for GRC

> Policy as Code



- > **Check policy enforcement during the development cycle**

- > Standardised policy schema and format based on YAML
- > Ansible Lightspeed integration to accelerate development
- > Integration into Ansible plugins for Integrated Development Environments (IDE)s

- > **Provide an integrated mechanism for policy enforcement based on unique needs**

- > Discretionary or mandatory checks before or during automation runs
- > Hook into a wider ecosystem for defining, selecting, finding and using policies for checks and enforcement

- > **Reporting mechanisms to aid in compliance status and audit tracking.**

- > Output to common output data schemas to allow third party tools easy access to results
- > Customizable alerts and notifications for policy status

Goal:

Extend AAP directly into the realms of governance, risk and compliance (GRC)

Who:

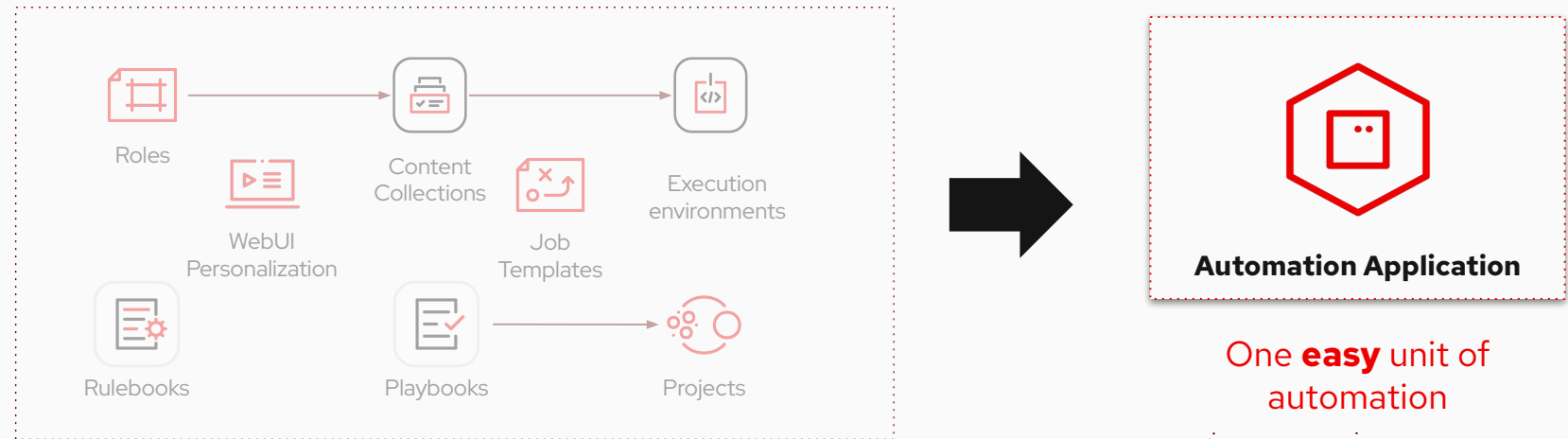
Developers, Operators + Admins. CISO, CAIO.*

**New avenue for C-suite conversations.*

When: Summit & H2 2024

> Automation applications

An automation application is an **all-in-one package** that makes it simple to distribute and use automation tasks.



Traditional Ansible content development

One **easy** unit of automation

Goal:
Simplify the automation experience by creating better connections between content creators and content users.

Who:
Developers, Automation engineers

When:
Q4+

Delivery will happen in stages:

Stage 1: Content seeding, allowing AAP to be provisioned with Projects, Job Templates, Workflows and more; will also Allow easy importing of Ansible content collections into usable Automation jobs

Stage 2: Composable automation allowing content to be logically stacked together to fulfill more complex uses cases

Stage 3: Self contained & autonomous automation capable of running as a function; Automation execution environments automatically created on the fly



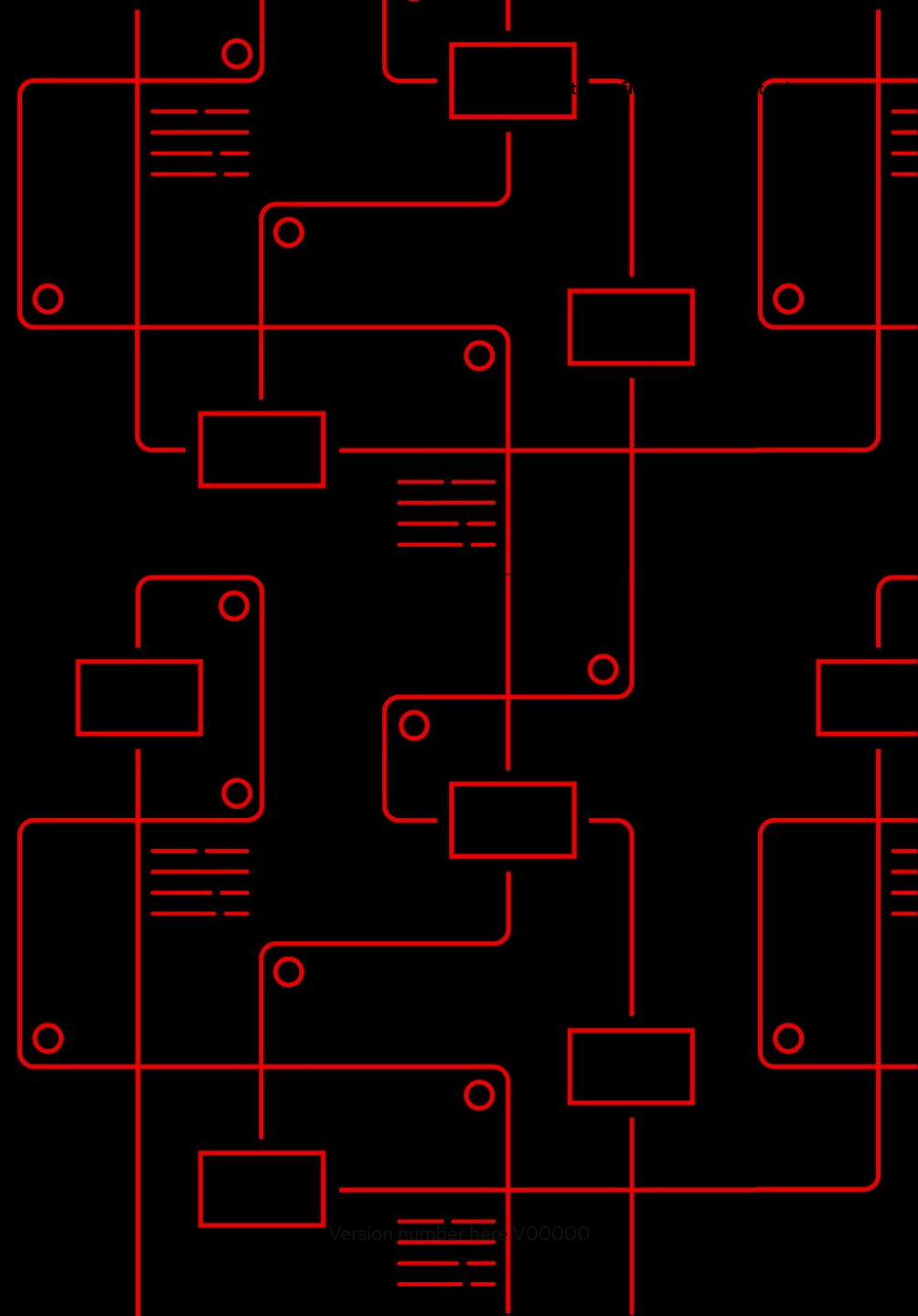
Experience for Cloud Engineers



Experience for Network Engineers



Experience for Sysadmins



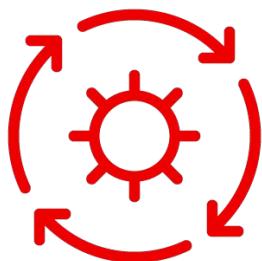
Complexity requires
more efficiency



By 2026, 30% of enterprises will **automate more than half** of their network activities.

This figure was **under 10%** in mid-2023

Source: Gartner



By 2025, 70% of organizations will implement structured infrastructure automation. The goal? To deliver **more flexibility + efficiency.**

This figure was **20% in 2021.**

Source: Gartner Hype Cycle

Filling the IT Skills Gap



By 2027, 75% of enterprises will combine their siloed automation initiatives to improve overall value, which is a significant increase from fewer than 10% in 2022.

Gartner



Through 2025, 80% of the operational tasks will require skills that less than half the workforce are trained in today.

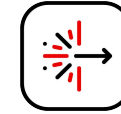
Gartner

Accelerating time to automation



Certified + validated content

Set automation projects into motion
Ready-made roles, modules, plug-ins, and templates



Ansible Lightspeed

Collaboration with IBM to bring generative AI to Ansible
Faster and easier to create Ansible content



Ansible development tools

Suite of supported components
Build, test, and deploy Ansible content

2024 Roadmap



Ansible development experience

Opinionated, integrated dev environment
Dev tools, VS code, RHDH for Ansible, and Ansible Lightspeed

> **Enhanced developer experience:**

AI for automation

Goal:

Harness AI to empower engineers to create, manage and scale their automation more efficiently

Who:

Developers, automation engineers, operators, platform admins

When: Available now, with improvements introduced continually

Create | Red Hat Ansible Lightspeed

- > On-premises capability (IBM WCA) - 1H '24
- > Full Ansible Playbook generation - 1H '24

Adopt | DevOps Integration

- > Ansible Risk Insights integration
- > Pipeline integration and REST APIs

Maintain | Ansible Codebot

- > General availability + full support - Q1 '24
- > Gitlab and Bitbucket integrations - Q2 '24



> Unified platform experience

Goal:
Simplify the platform experience for all users

Who:
Automation engineers,
Operators, Platform Admins,
Automation architects

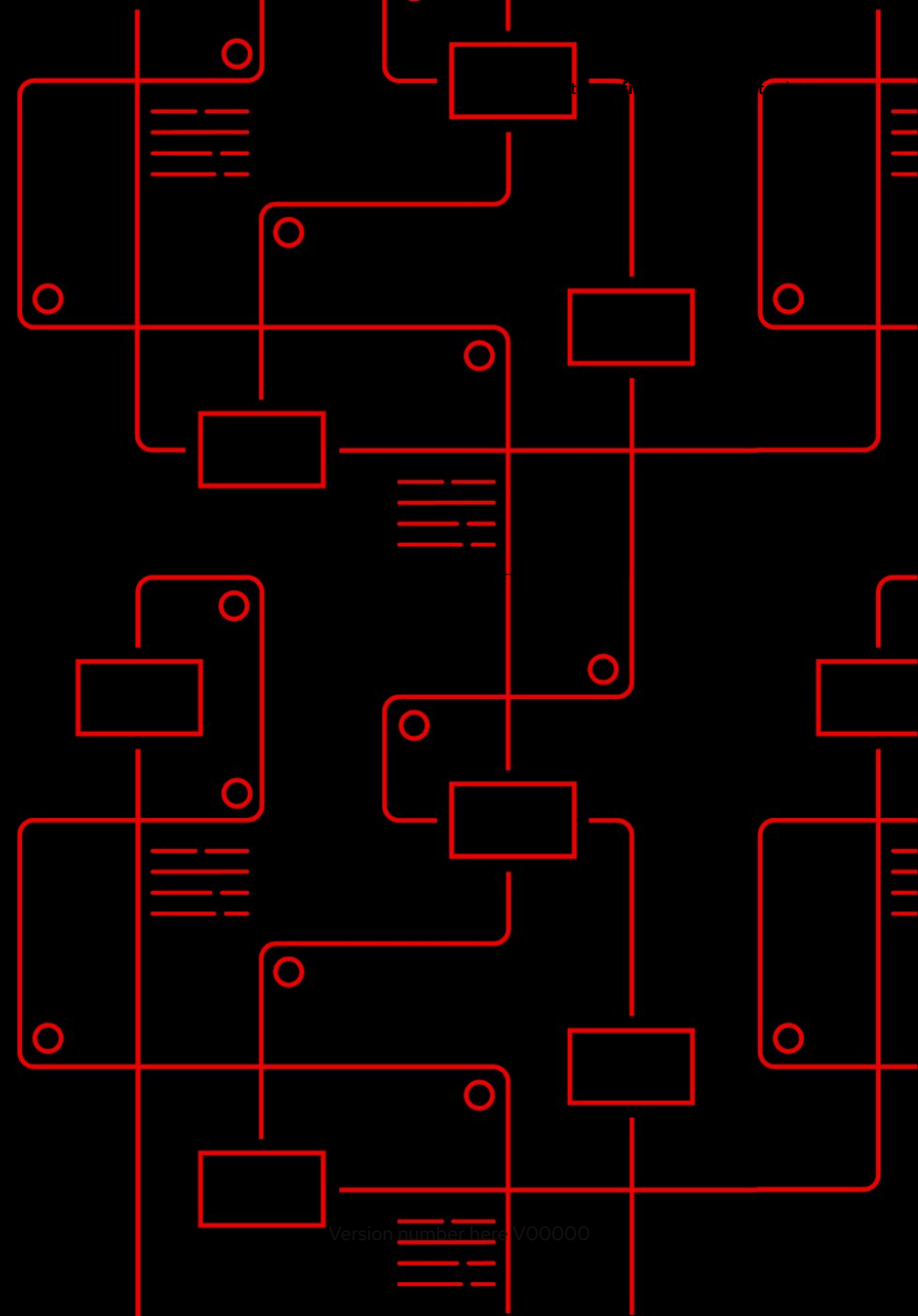
When: Beta: March
GA: Q2 (AAP 2.5 release)

The screenshot shows the 'Automation Developer' interface for the Red Hat Ansible Automation Platform. The top navigation bar includes the Red Hat logo and 'Ansible Automation Platform' on the left, and 'Automation Developer' on the right. A dark sidebar on the left contains a menu with categories: 'Ansible Automation Platform', 'Automation Execution' (with sub-items: Overview, Projects, Automation Execution, Jobs, Templates, Schedules, Execution Environments), 'Automation Decisions' (with sub-items: Rule Audit, Rulebook Activations, Decision Environments), and 'Automation Infrastructure' (with sub-items: Topology View, Instance Groups, Instances, Inventories, Hosts). The main content area features a 'Welcome to Ansible Automation Platform' message with a 'Get started' button. Below this is a 'Subscription' section showing 'Total nodes 100', 'Nodes used in current cycle 80/100' with a progress indicator, and 'Dates of billing cycle 10/1 - 10/31/23' (15 days left). A 'Getting started with Ansible Automation Platform' section contains six quick-start cards: 'Getting started with Ansible Automation Platform', 'Browse Automation Content', 'Build Environment', 'Inventory', 'Project', and 'Create Template'. A 'View all Quick Starts' link is located at the top right of this section.

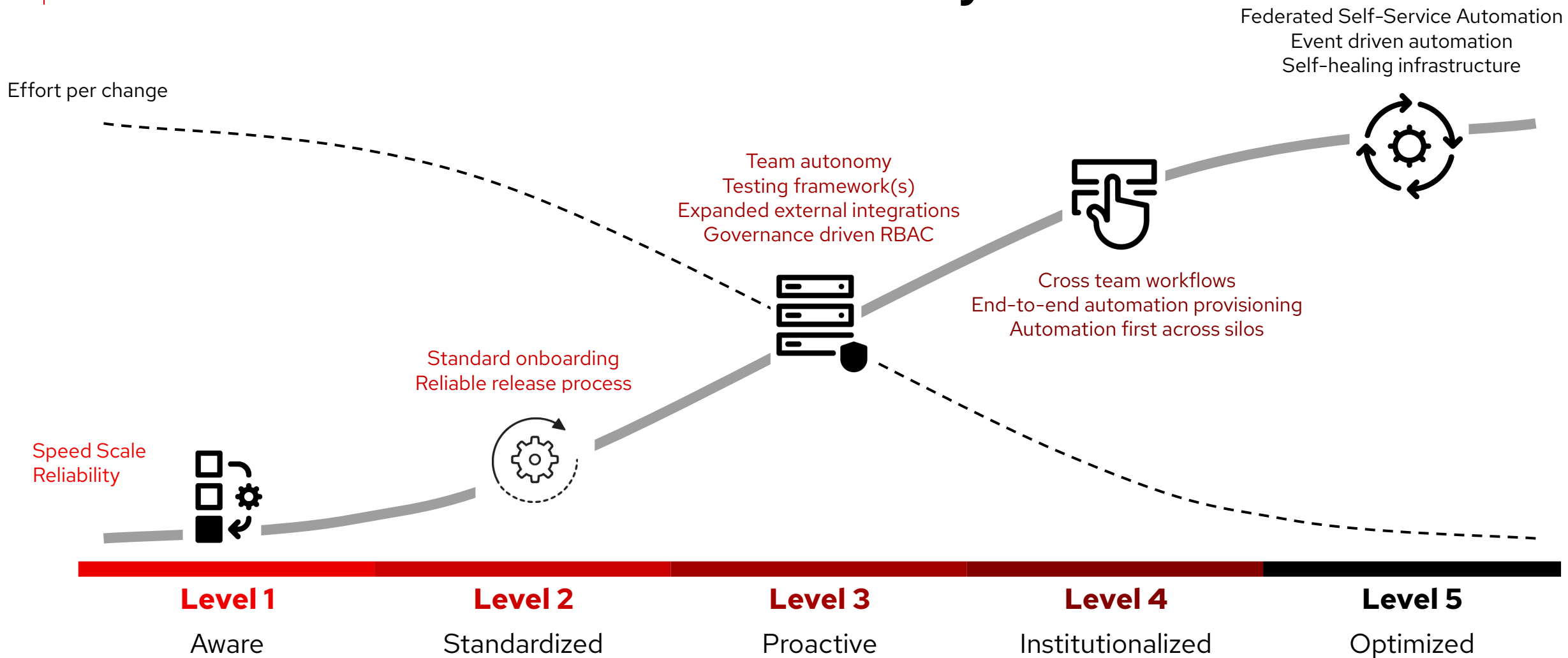
Note: Experience for public cloud subscriptions may vary pending final development

Version number here V00000

The future requires more reliability

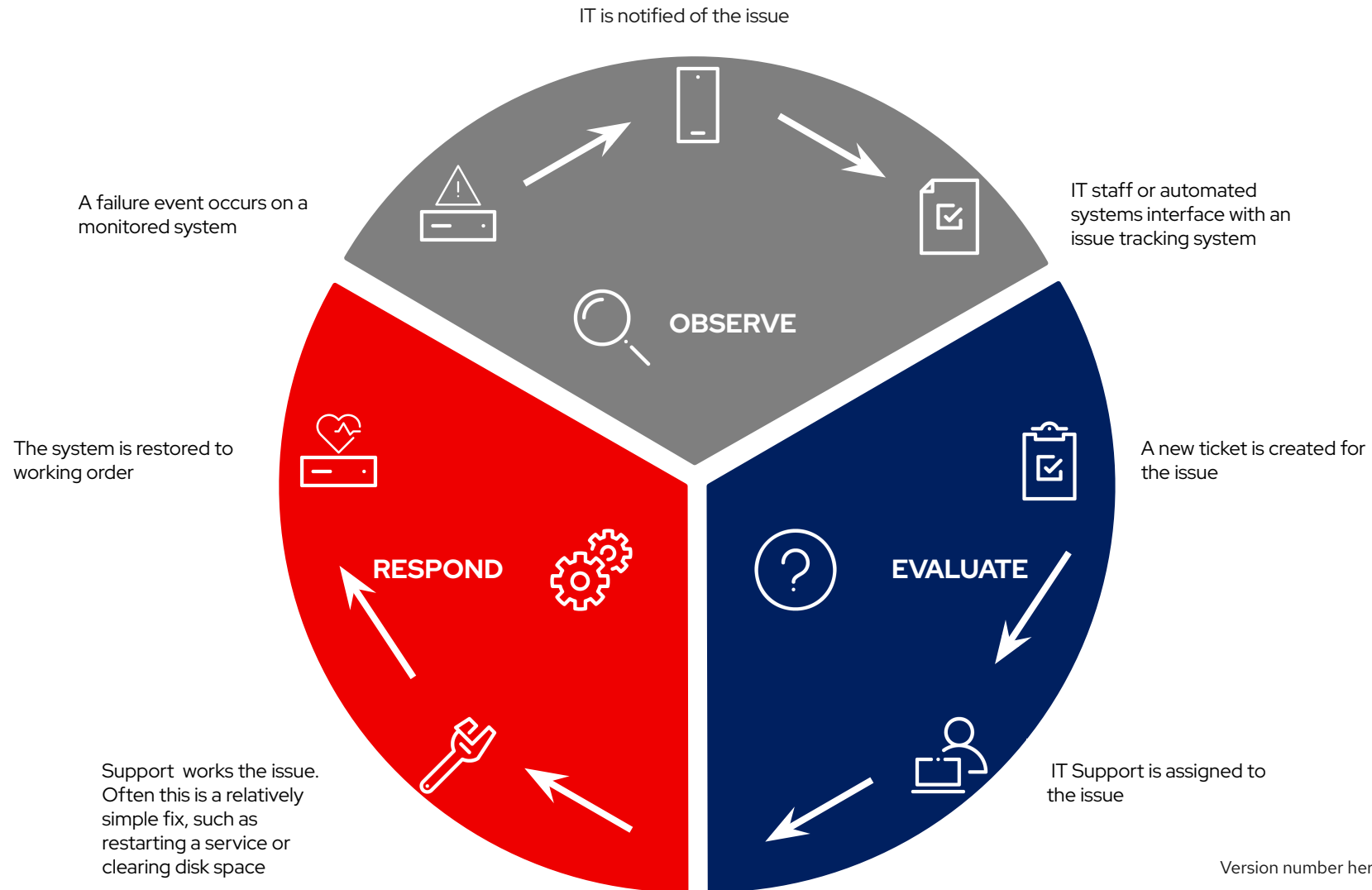


Automation Maturity Curve



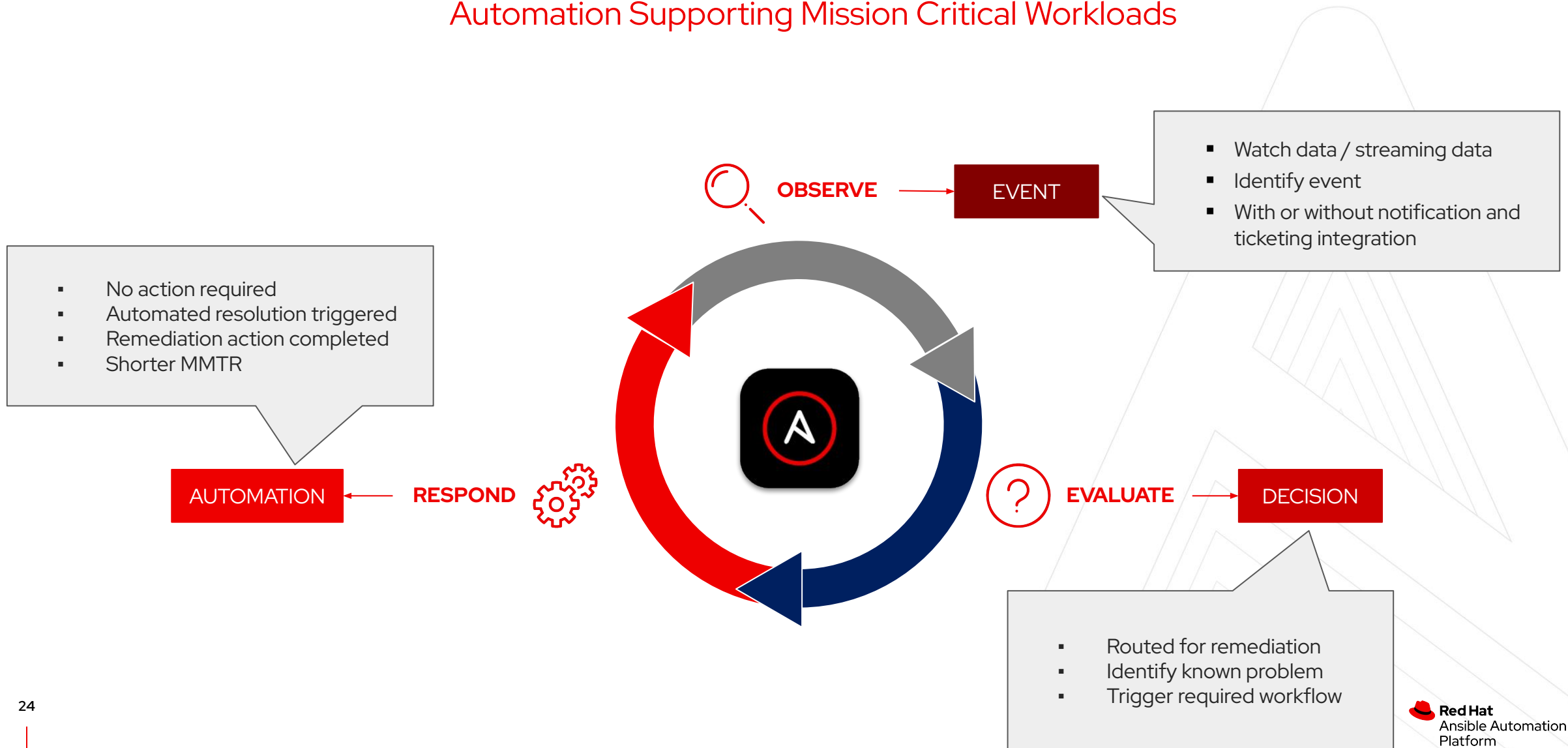
Traditional Operations Workflow

Rely on manual remediation of issues



Event-Driven Ansible

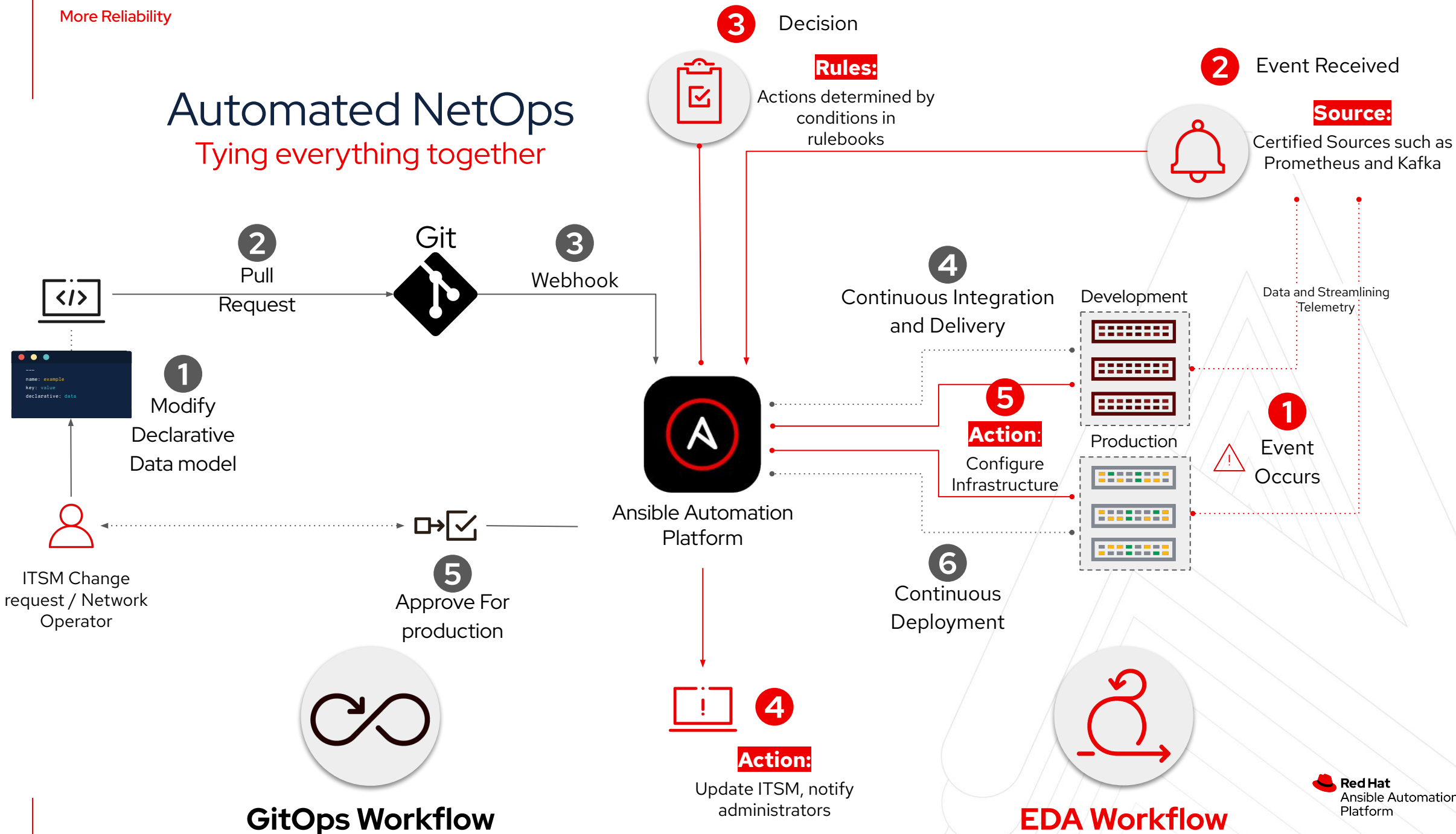
Automation Supporting Mission Critical Workloads



More Reliability

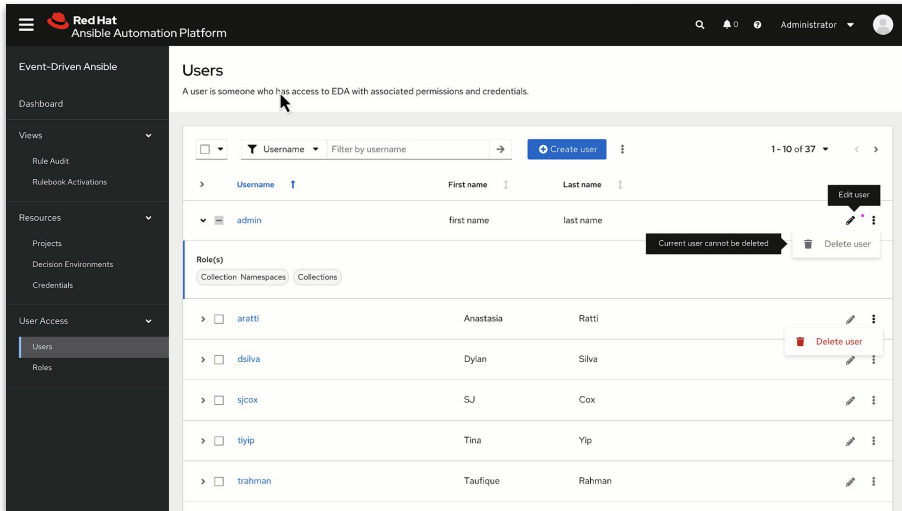
Automated NetOps

Tying everything together



> Event-Driven Ansible:

Single Sign On

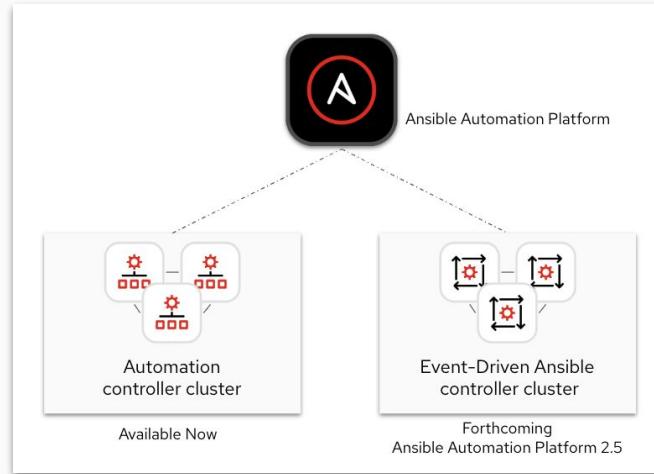


Goal: Mission critical capabilities for Event-Driven Ansible

Who: All platform users

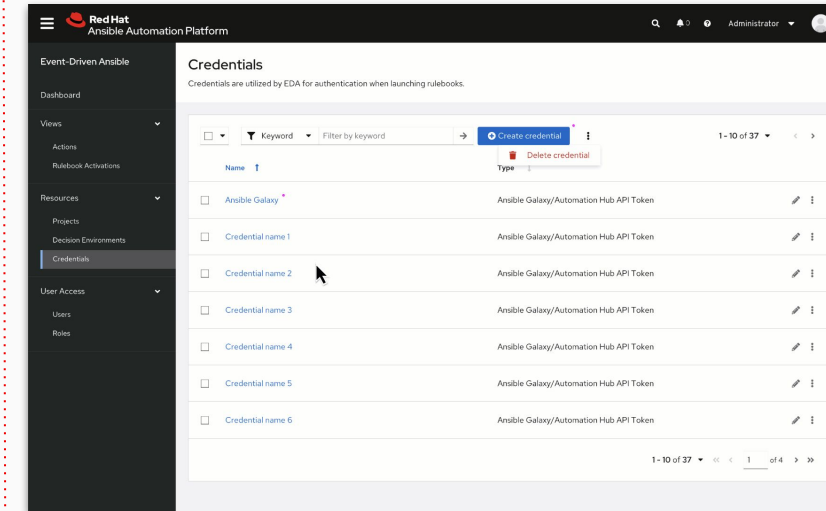
When: Q3 FY2024

High Availability, performance and scale



- ✓ Increased resiliency and capacity through Event-Driven Ansible failover capabilities
- ✓ Easily configurable via bundled installer or Openshift Operator

Credential management



What was delivered in 2023

AAP 2.4 release

- ▶ Event-Driven Ansible - *generally available*
- ▶ Collection repository management
- ▶ Validated content integration
- ▶ Ansible-builder 3.0
- ▶ Platform install support for ARM, IBM Z and Power Platforms

Ansible on Cloud

- ▶ Buying subscriptions on AWS
- ▶ Self-managed Ansible on Azure
- ▶ Ansible on Azure
 - ▷ Automation scaling
 - ▷ Customer deployment enhancements
- ▶ Self-managed Ansible on Google Cloud

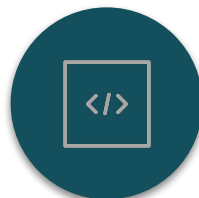
Z Streamless

- ▶ Ansible Lightspeed
 - ▷ Ansible code bot
- ▶ Ansible Molecule
- ▶ Containerized AAP*

* Technology Preview | **Developer preview

What's coming in 2024

CREATE



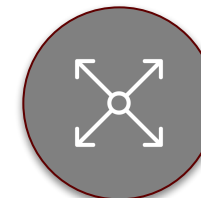
- > Enhanced developer experience
 - > Ansible development tools
 - > Red Hat Developer Hub
 - > Developer spaces
 - > AI for automation
- > Automation applications
- > Automation content experiences
- > State management for AAP

MANAGE



- > Ansible as a Service: AWS
- > Unified platform experience
- > Containerized AAP
- > Policy as Code initiatives for Governance, Risk + Compliance (GRC)

SCALE



- > Automation mesh for cloud deployments
- > Event-Driven Ansible improvements
 - > SSO + RBAC
 - > Credential management
 - > High Availability, performance and scale
- > Availability on mission critical infrastructure

Thank You

