



Connect

Transform Your Operations Combining Ansible Automation and AI

Carlos Parada, Ansible Specialist Solution Architect

Red Hat



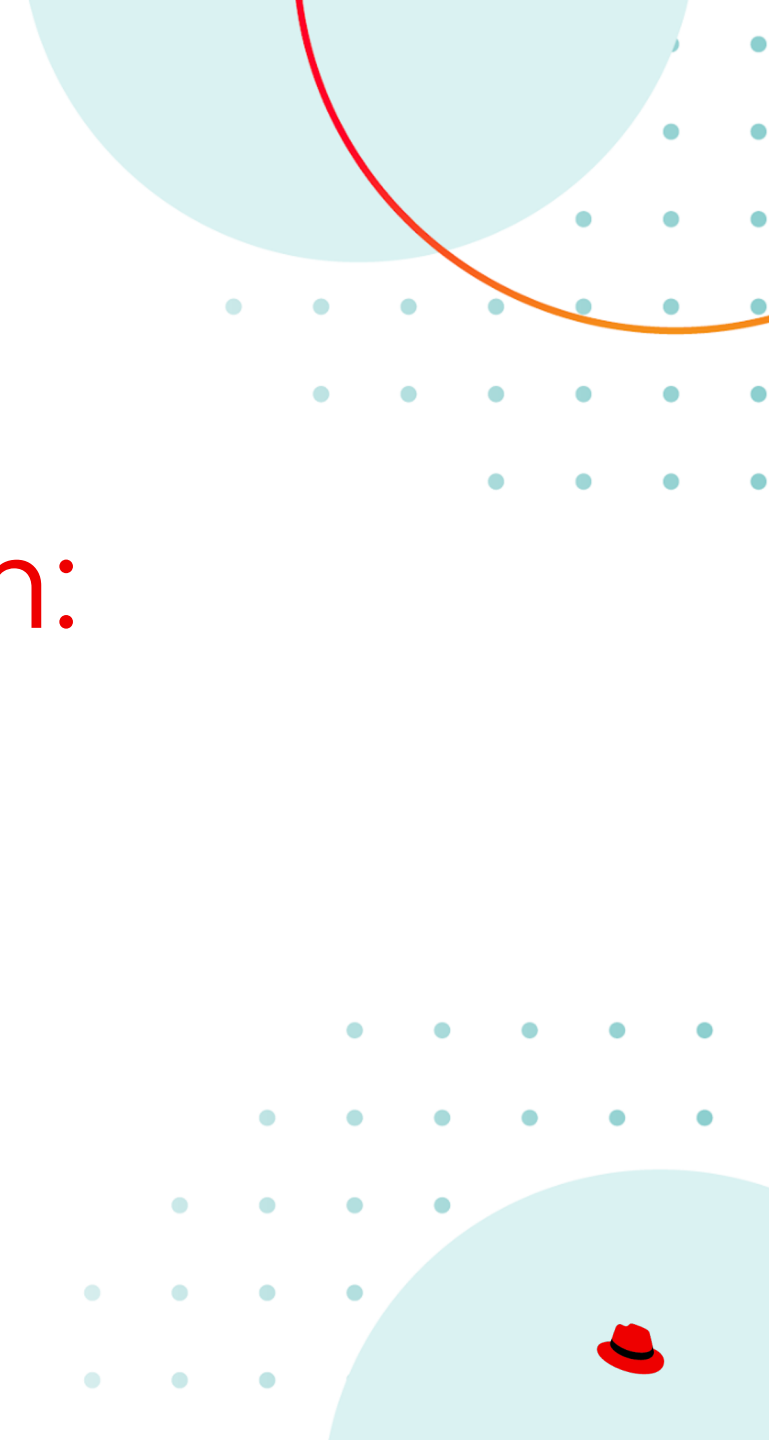


Carlos Parada

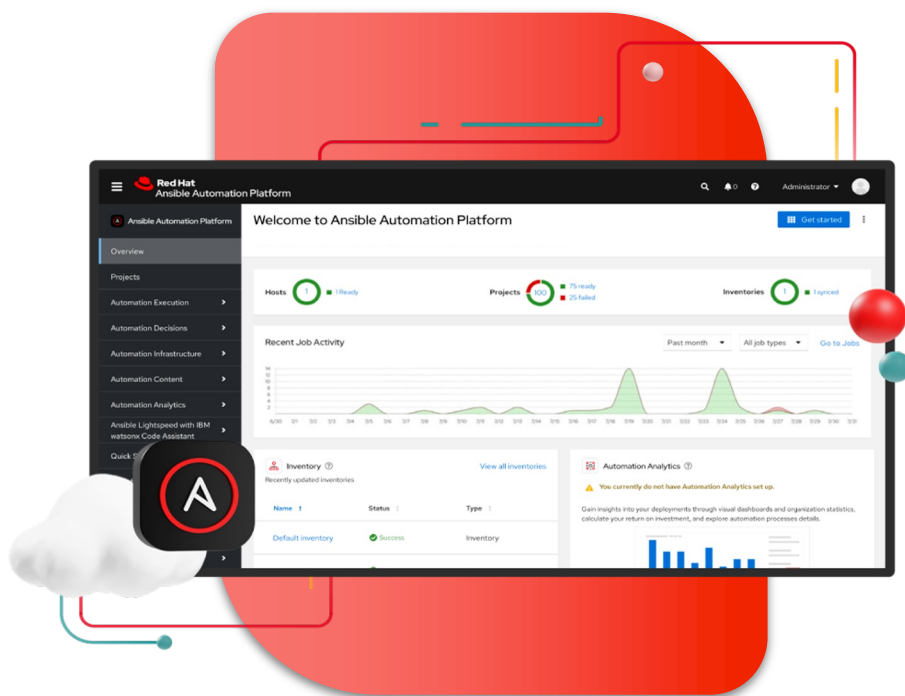
Ansible Specialist Solution Architect
Red Hat



Ansible Automation Platform: Overview



Ansible Automation Platform



Increase speed

Reduce the number of manual steps and GUI-clicking, enable the orchestration of multiple tools and accelerate their interaction with each other



Reduce human error

Minimize risks with automated workflows, avoid human operator errors in time-sensitive, stressful situations



Ensure consistency

Enable auditable and verifiable deployment processes by using a single tool and common language

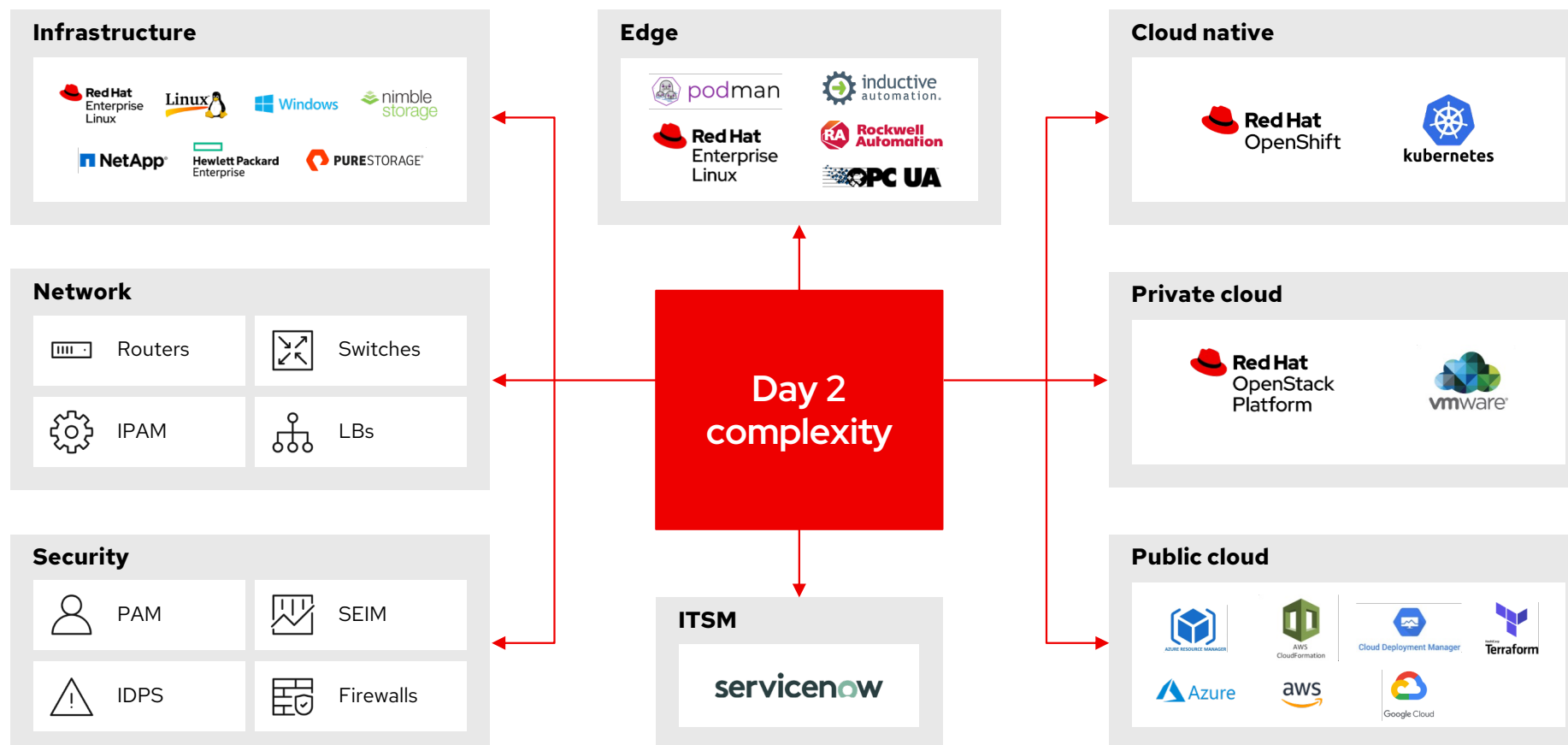


Improve security and compliance

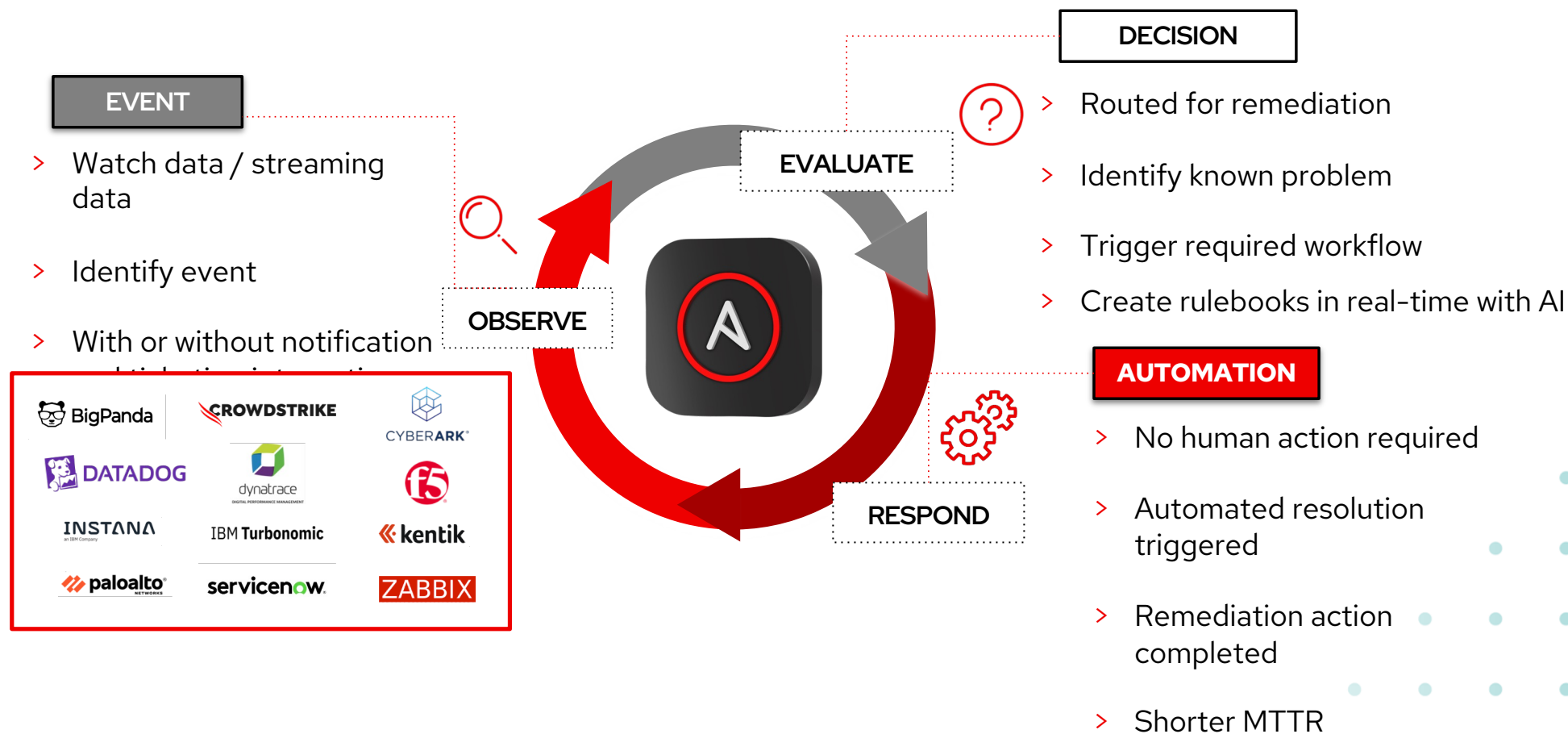
Securely apply automation across your organization and ensure end-to-end code integrity with signed content.



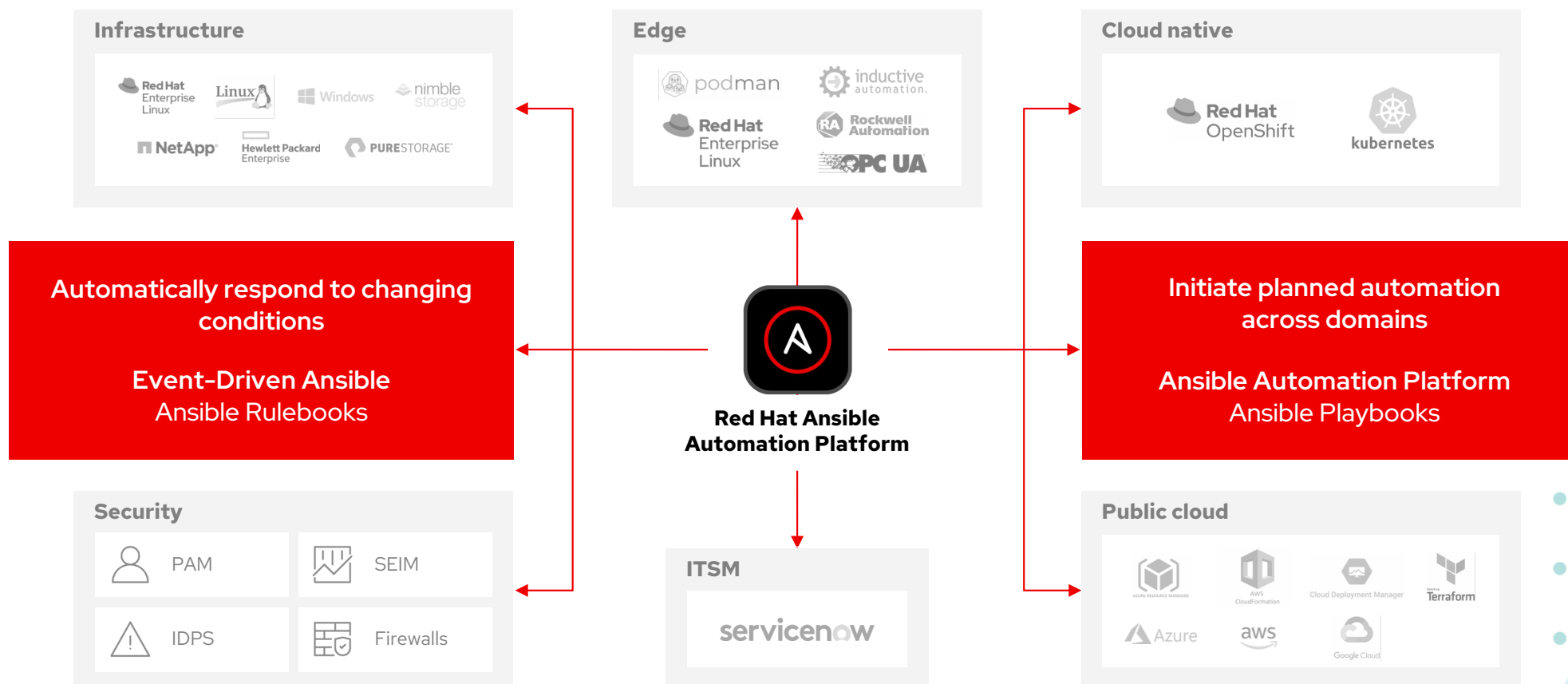
Reality of IT Operations



Event-Driven Ansible



Closed-Loop with EDA



Ansible Lightspeed Code Assistant

CODE ASSISTANCE

Ansible-specific code generation service to:

- ▶ Boost development productivity
- ▶ Democratize access to automation
- ▶ Establish trust and confidence in code
- ▶ Connect to IBM watsonx Code Assistant, powered by IBM Granite code models

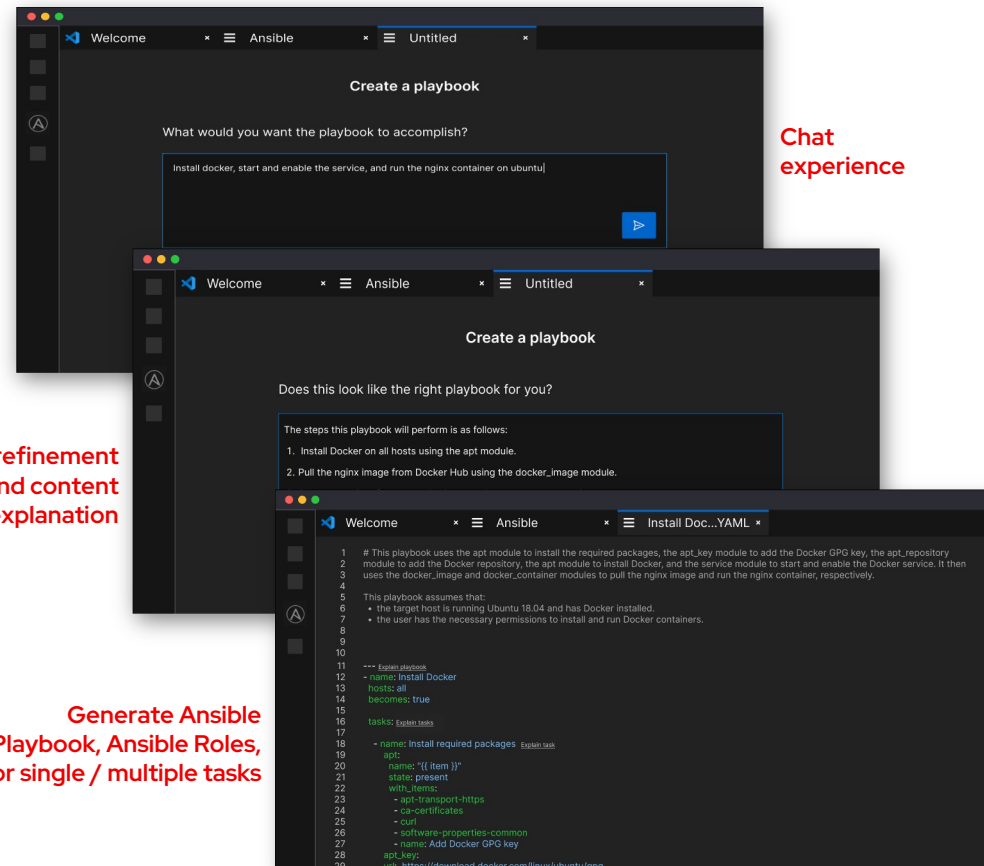
Example prompts:

- ▶ "Write an Ansible Playbook to provision a VM on AWS."
- ▶ "Deploy LAMP stack on a RHEL server."
- ▶ "Show me an Ansible Playbook that will install RHEL AI"

Prompt refinement
and content
explanation

Generate Ansible
Playbook, Ansible Roles,
or single / multiple tasks

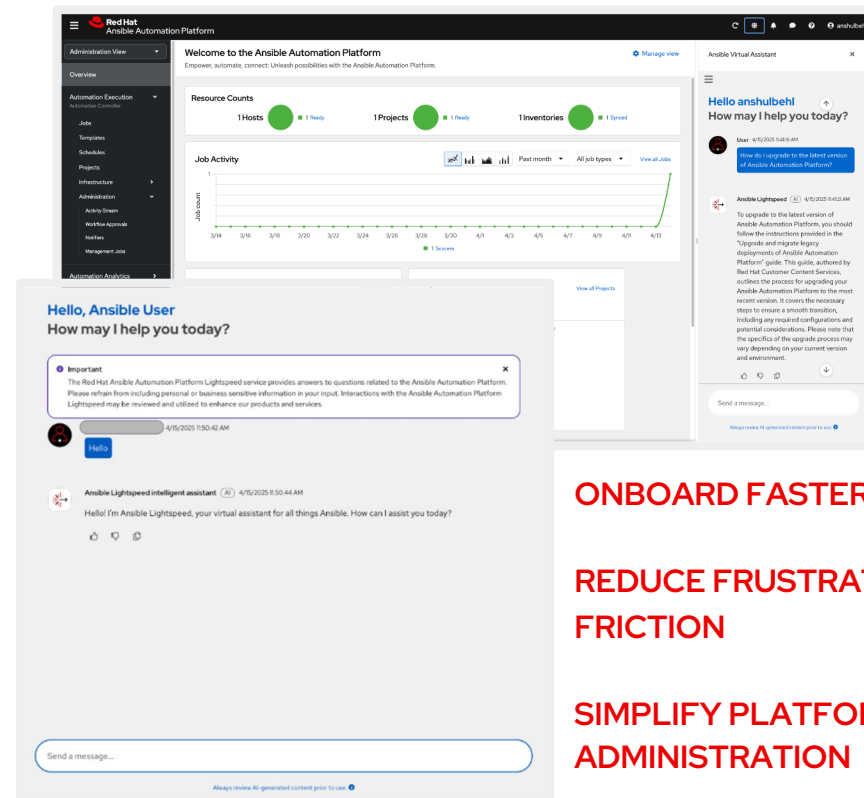
Chat
experience



Ansible Lightspeed Intelligent Assistant

PLATFORM ASSISTANCE

- ▶ Intuitive chat assistant embedded directly into Ansible Automation Platform UI
- ▶ Contextual support for faster troubleshooting, platform onboarding, and the day-to-day management of automation.
- ▶ Includes links to references and resources for source validation and accelerated learning.
- ▶ Flexible model connectivity: Red Hat AI or 3rd-party models
- ▶ **Example prompts:**
 - "What is an execution environment?"
 - "How do I upgrade to the latest version of Ansible Automation Platform?"



ONBOARD FASTER

REDUCE FRUSTRATION & FRICTION

SIMPLIFY PLATFORM ADMINISTRATION



Agentic AI and MCP

IT WORKFLOW ASSISTANCE

Expanded contextual support within Ansible Automation Platform to accelerate operational workflows:

- ▶ Perform root cause analysis and remediation within an intuitive chat experience.
- ▶ Gather facts and insights into system health and status to resolve issues faster.
- ▶ Leverages model context protocol (MCP) to query and troubleshoot operational issues within Ansible Automation Platform (near term) and external systems (roadmap)
- ▶ **Example prompts:**
 - "How can I reduce the runtime for this job template?"
 - "Provide recommendations to optimize the performance of my current playbook"

Inside model context protocol (MCP)

- ▶ Allows Ansible Lightspeed intelligent assistant to connect to and act on data from Ansible Automation Platform and external systems and tools
- ▶ Will enable prompting from intelligent assistant to Ansible-connected systems
- ▶ Allows Red Hat to combine Lightspeed code generation feature with Lightspeed agent in a seamless user experience

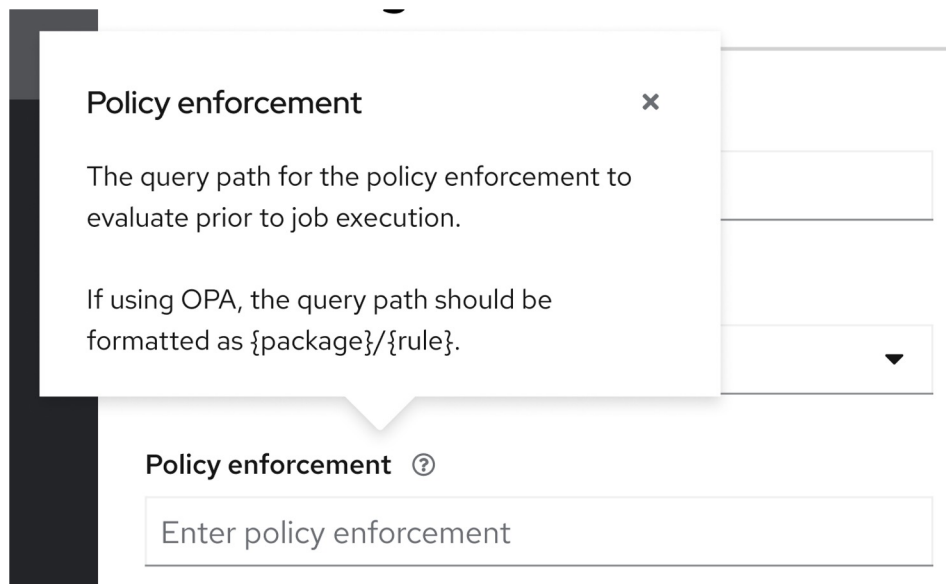
MAKE BETTER DECISIONS

REDUCE SWIVEL CHAIR OPERATIONS

DEPLOY SELF-HEALING INFRASTRUCTURE



Policy Enforcement

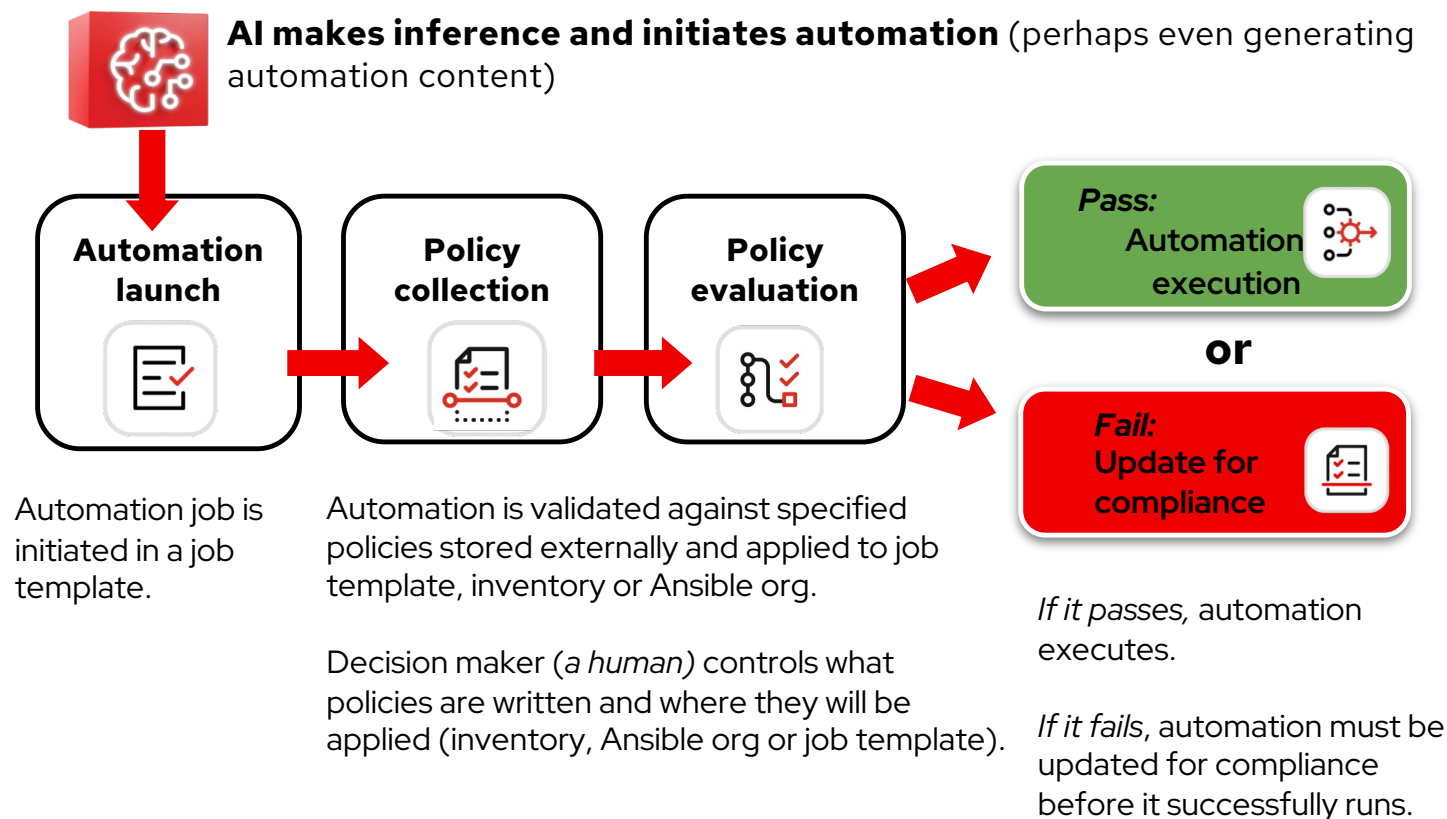


The screenshot shows a user interface for policy enforcement. A tooltip box is open, displaying the following text: "Policy enforcement" with a close button (x), "The query path for the policy enforcement to evaluate prior to job execution.", and "If using OPA, the query path should be formatted as {package}/{rule}." Below the tooltip, there is a label "Policy enforcement" with a help icon (?), and a text input field containing the placeholder text "Enter policy enforcement".

- ✓ **Operate within boundaries for AIOps**
to ensure the best outcomes.
- ✓ **Focus on compliance is accelerating**
so you must meet requirements across ITOps even as they grow and expand.
- ✓ **Reduce risk**
minimize security issues, outages and downtime through operational controls.
- ✓ **Automate with discipline**
control and provide boundaries for scaling enterprise automation scenarios.

red.ht/PolicyEnforcementExamples

Policy Enforcement for AI



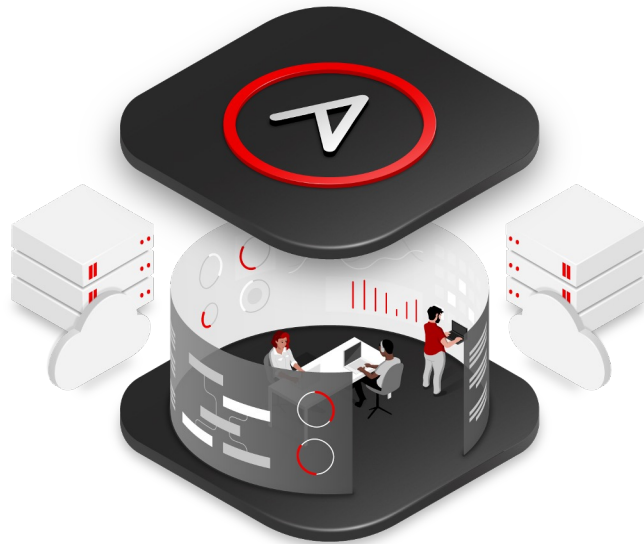
TRUST

- ✓ **Control** what AI-driven automation is able to do prior to completion.
- ✓ Improve **compliance**, auditability, and AI outcomes.
- ✓ Tightly align event-driven automated responses **to company policies**.

Ansible Automation Platform: Unlocking AIOps



Ansible Unlocks AIOps



- ✓ **Event-Driven Ansible data.** Ansible is engineered to gather data from whatever observability tools you have.
- ✓ **AI technology integration.** Ansible integrates with external and internal AI tools to get inference responses, and code generation.
- ✓ **Policy enforcement guardrails .** Ansible policies will make sure that AI doesn't go beyond certain limits.

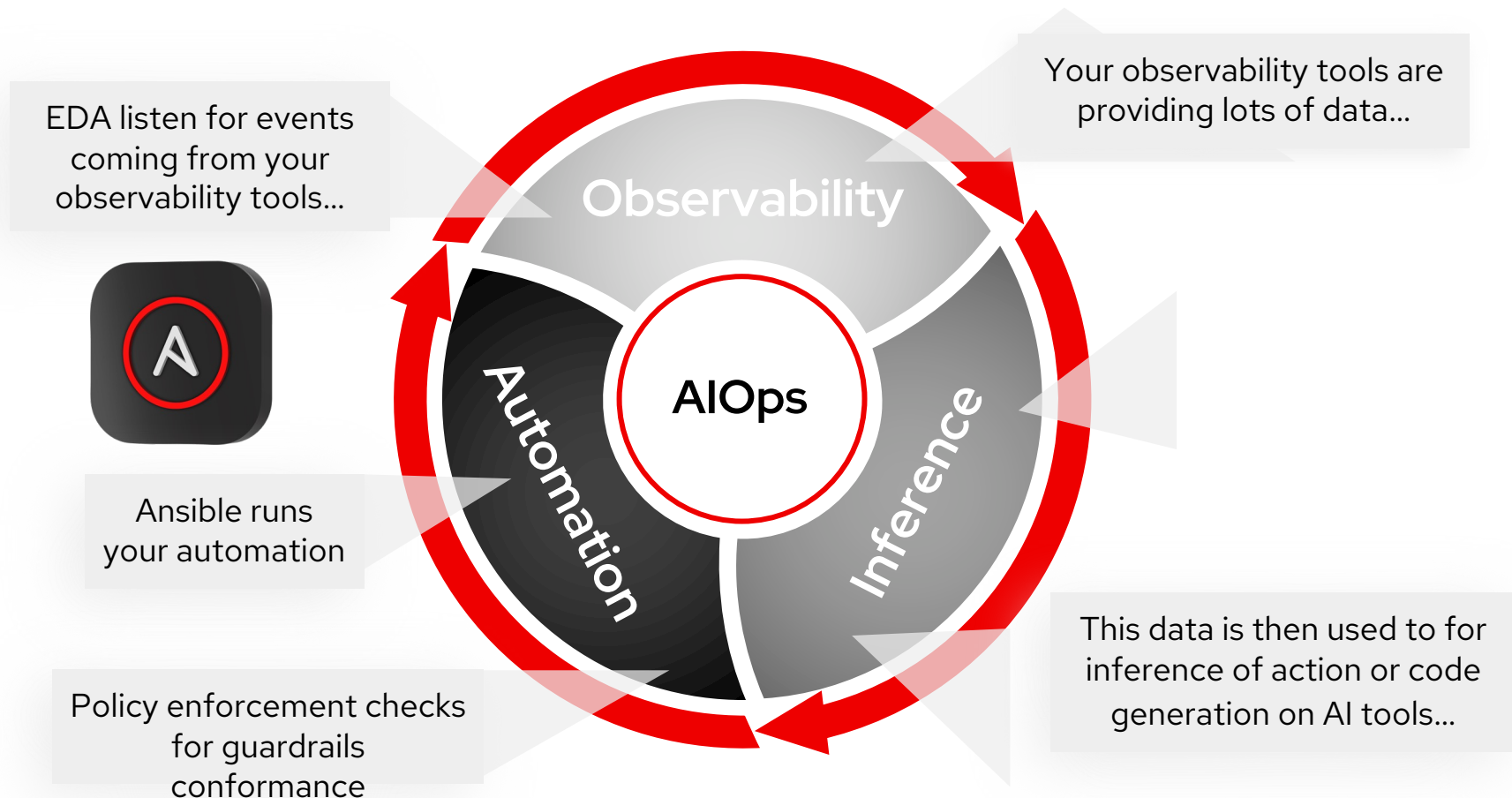


AIOps Use Cases

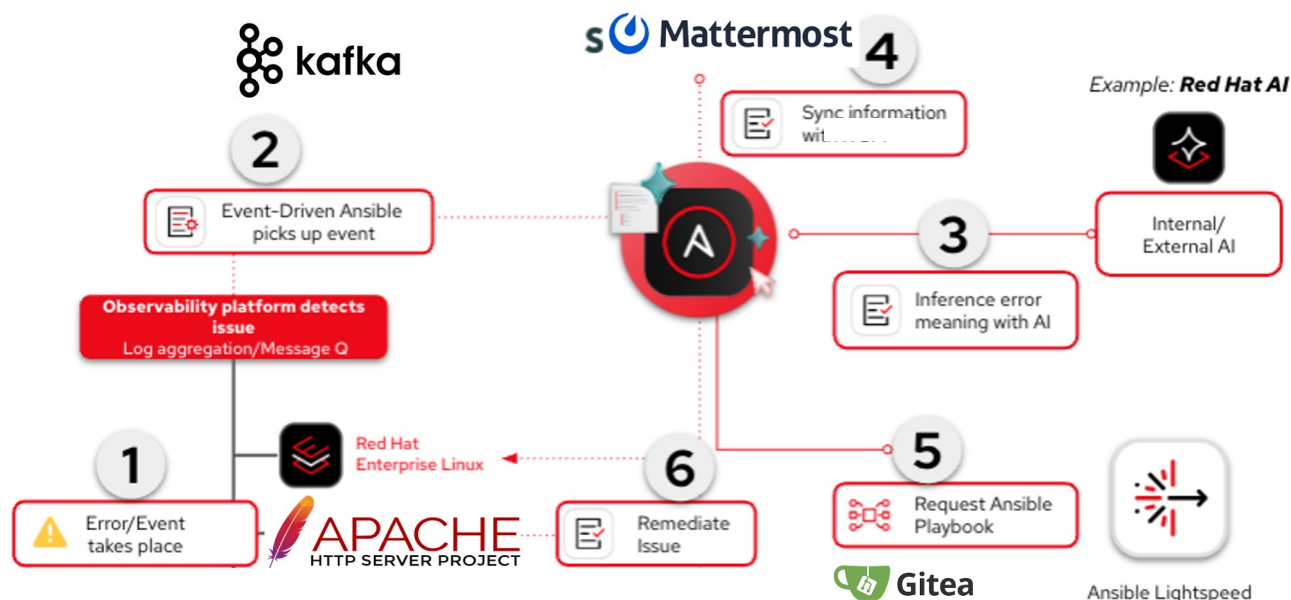
- > **Self-healing infrastructure and applications.** Deploy automation that responds to common alerts from your monitoring systems.
- > **Ticket enrichment for support teams.** Synchronize events and AI recommendations with ticketing and tracking.
- > **Cost + resource optimization.** Automatically discover and implement optimizations for nodes, clusters and projects attached to AI personas.
- > **Automated configuration drift detection and correction.**
Continuously monitor system configurations against desired state baselines



AIOps: Self-healing



AIOps: Self-healing Steps

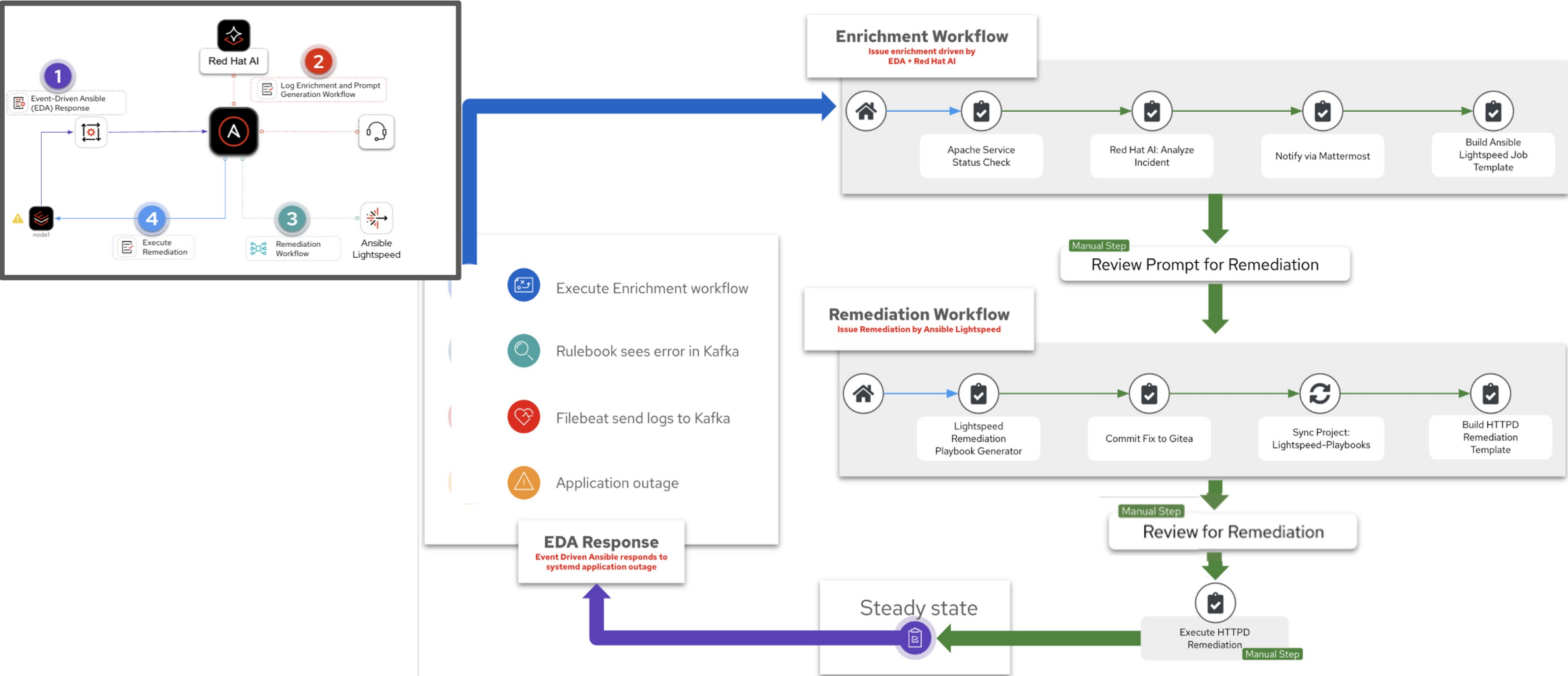


NEW! AI solution guides for Ansible Automation Platform

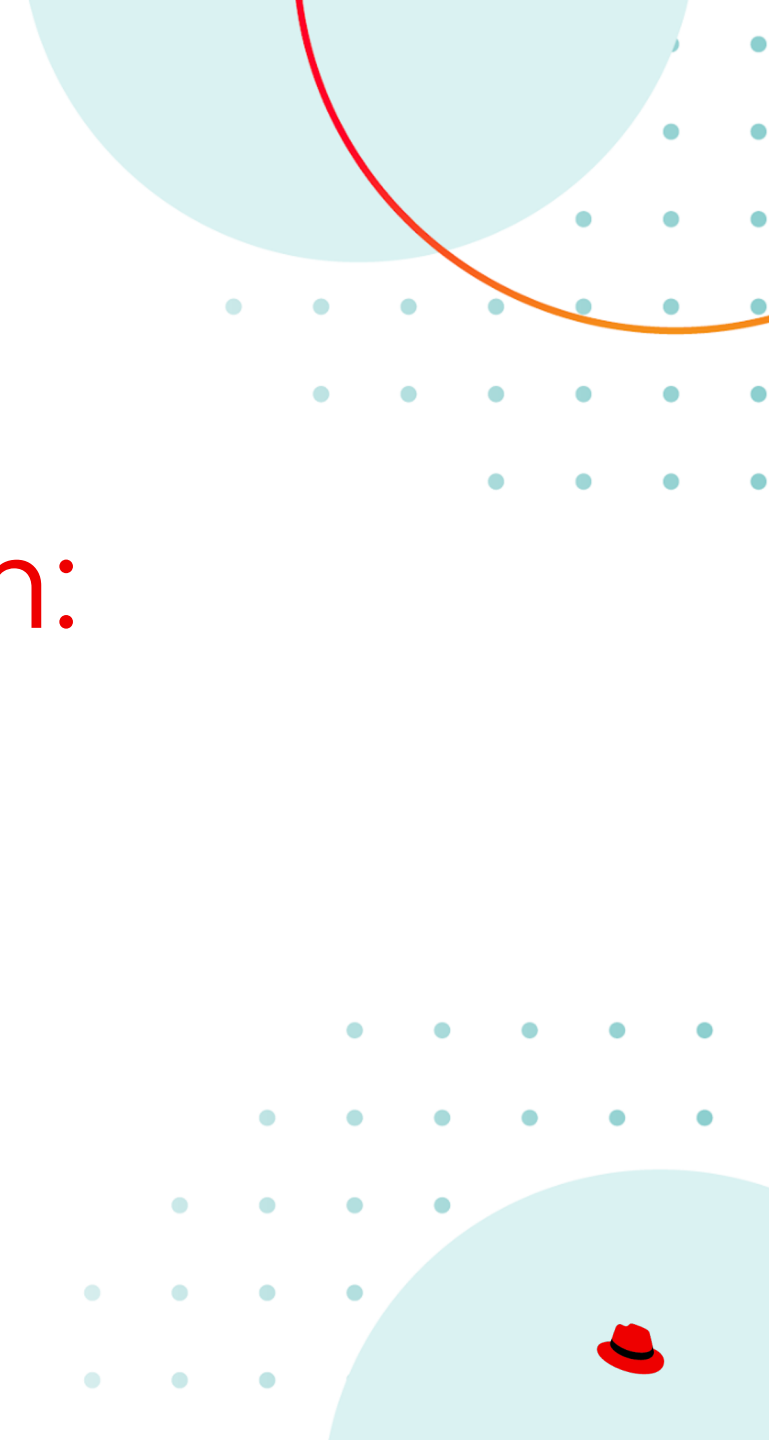
RESILIENCE

- ✓ Maximize observability and AI Ops investments with seamless integration.
- ✓ Decrease time spent diagnosing and manually responding to errors.
- ✓ Shift from reactive to proactive model.
- ✓ Reduce downtime and MTTR by detecting and reacting to emerging issues.
- ✓ Minimize manual intervention and human error.
- ✓ Address skills gaps with automated playbook generation and intuitive virtual assistant embedded directly into UI.

AIOps: Self-healing Workflows



Ansible Automation Platform: Demo Time!



Stop working hard... and party hard!





Connect

Thank you



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