

# Lab: Introduction to AI-Driven Ansible automation



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# Lab: Introduction to AI-Driven Ansible automation



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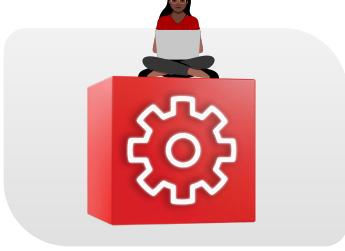
# Agenda

- > Introduction
- > Foundation of automation fuels AI innovation
- > Unlock AIOps with Red Hat Ansible
- > Getting started with AI use cases
- > AI building blocks: Red Hat AI and Ansible Lightspeed
- > Lab Overview



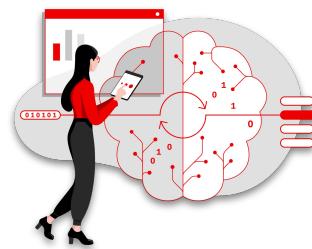
# Automation is the key to successful AI adoption

Questions organizations must address when looking to adopt AI at an enterprise level



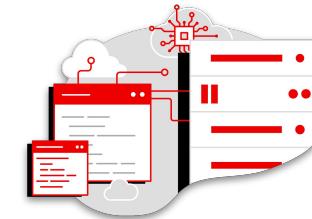
## Infrastructure readiness

Is your infrastructure (networks, storage, data, monitoring, load balancers, applications) fully connected and optimized for AI workloads?



## Real-time response to alerts and conditions

Once your AI and observability tools trigger events, do you have automated response and remediation in place to resolve them?

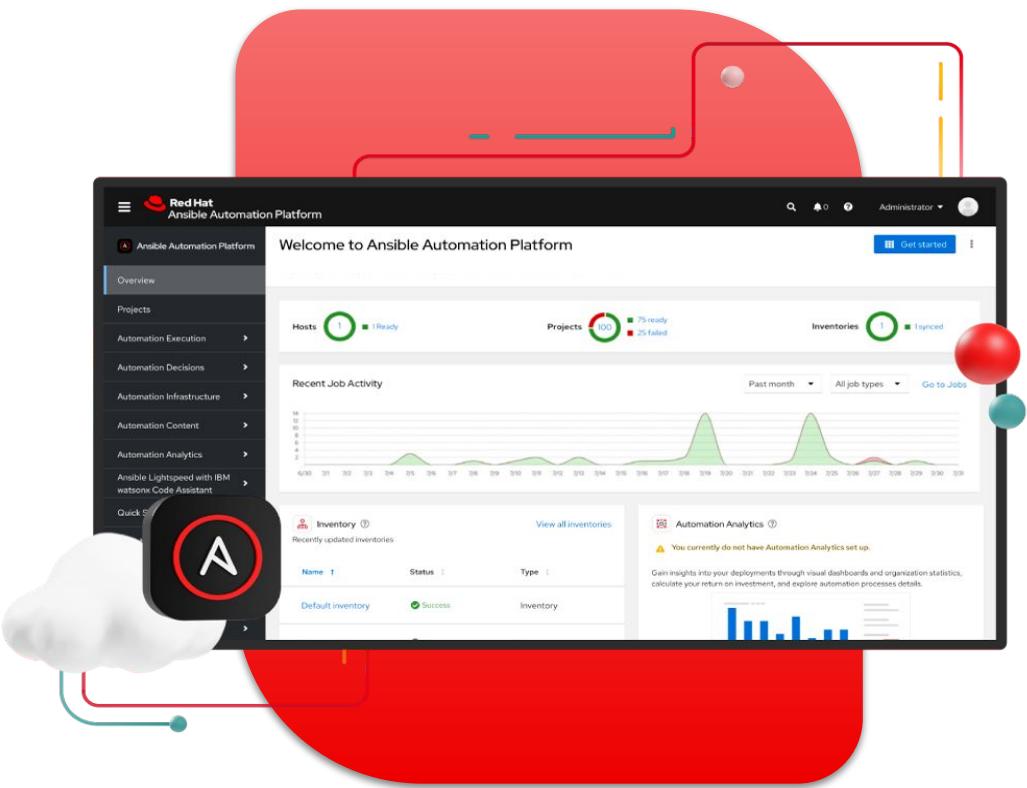


## Confidence in acting on AI inferences

Are you confident in your ability to control the automation that's running in your environment?

# Red Hat Ansible Automation Platform

## Unified solution for mission-critical automation across your enterprise



### 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.

A common platform for scaling automation across environments



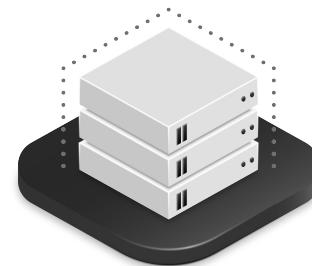
**Networking**



**OS**



**Cloud**



**Virtualization**



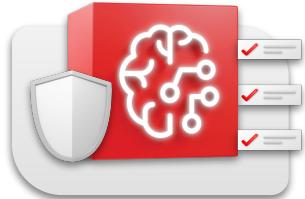
**App delivery**



**AI**

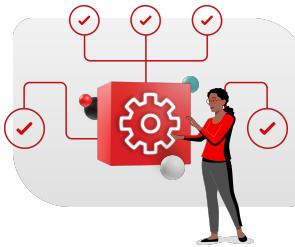
# Establish a reliable AI foundation. Enable ongoing AI innovation.

## Standardize AI infrastructure operations



- Simplify AI infrastructure deployment, usage, and scaling.
- Provide lifecycle management for consistency and repeatability.
- Accelerate time to value for developers consuming the AI platform.

## Unlock AI Ops



- Identify and address potential issues proactively.
- Resolve common, repetitive tasks via actionable advice from generative AI.
- Provide automated remediation, reducing MTTR.

## Ensure policy compliance



- Apply safeguards around your AI solutions for better outcomes and control.
- Ensure AI is aligned to key internal and compliance policies.

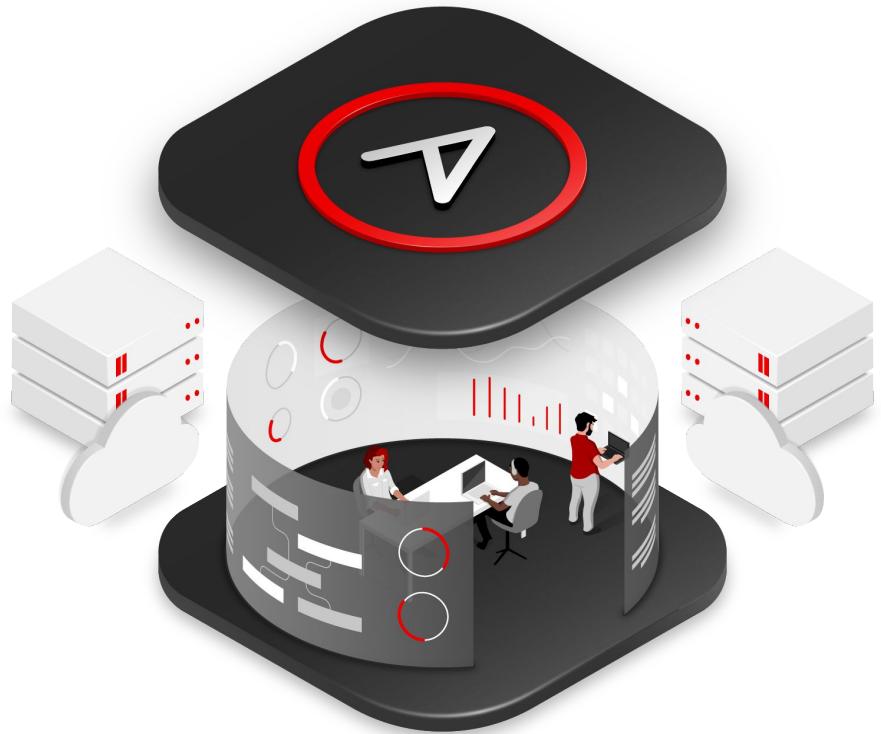


# Unlock AIOps with Red Hat Ansible: Path to value



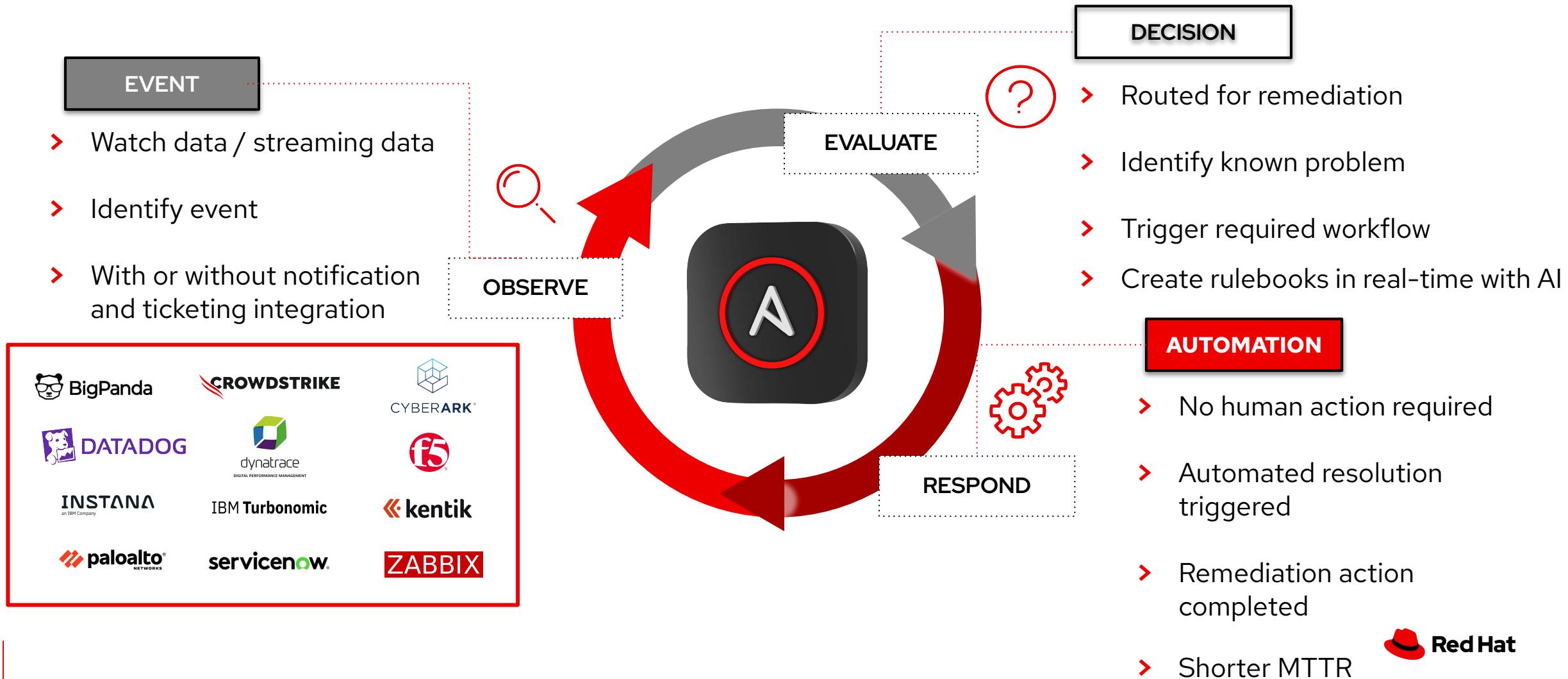
## Unlock AIOps

Red Hat Ansible is built to turn intelligence into action - at scale



- ✓ **Event-Driven Ansible.** Engineered to turn intelligence into action.
- ✓ **Industry-leading technology ecosystem.** Ansible works with the tools you already have, and can help you better orchestrate the AIOps processes you have in place.
- ✓ **Comprehensive automation capabilities.** If your tools can see it, Ansible can automate it.

# Event-Driven Ansible: Intelligence into action



# AIOps use cases that Red Hat Ansible can help you take on TODAY



## Self-healing Infrastructure

Leverage Red Hat AI solutions with Event-Driven Ansible to fully realize self-healing infrastructure end to end powered by the latest AI solutions.



## Support and incident ticket enrichment

Use Red Hat Insights or other third party solutions to coordinate unknown events from Event-Driven Ansible and provide context for IT infrastructure engineers.



## Cost + resource optimization

Red Hat Insights can identify optimizations around nodes, clusters and projects attached to AI persona needs, with the option to execute optimizations in automated workflows to abstract the user from AI infrastructure.

# Customer story: AIOps in action



Red Hat

"We've also integrated intelligent observability from Dynatrace, which uses AI to proactively identify any unusual patterns in our environment before triggering Event-Driven Ansible to resolve the incident and enable application recovery,"

## Mutua Madrileña adopts automation as standard with Red Hat



Software and services  
Red Hat® Ansible®  
Automation Platform

Mutua Madrileña, Spain's leading insurer, has more than 60 platforms managed by its middleware department. This environment is complex—especially following multiple mergers and acquisitions—but crucial to support the company's digital needs. In line with its Digital Transformation plan, the middleware team implemented Dynatrace for intelligent observability and Red Hat Ansible Automation Platform. This allowed the team to automate platform provisioning and accelerate incident resolution using event-driven automation. This standard, automated process can be replicated in any environment to accelerate time to market, reduce operating costs, and free up skilled workers to focus on innovation.



Source: Red Hat case study. ["Mutua Madrileña adopts automation as standard with Red Hat"](#)

"Choosing Red Hat Ansible Automation Platform was one of the **best decisions we've ever made**...Combining observability with self-healing has improved resolution times and reduced service downtime. **We saw a 50% reduction in service tickets.**"

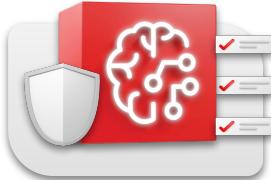
- **Marta Ceciliano**

Head of Middleware, Automation, and Observability



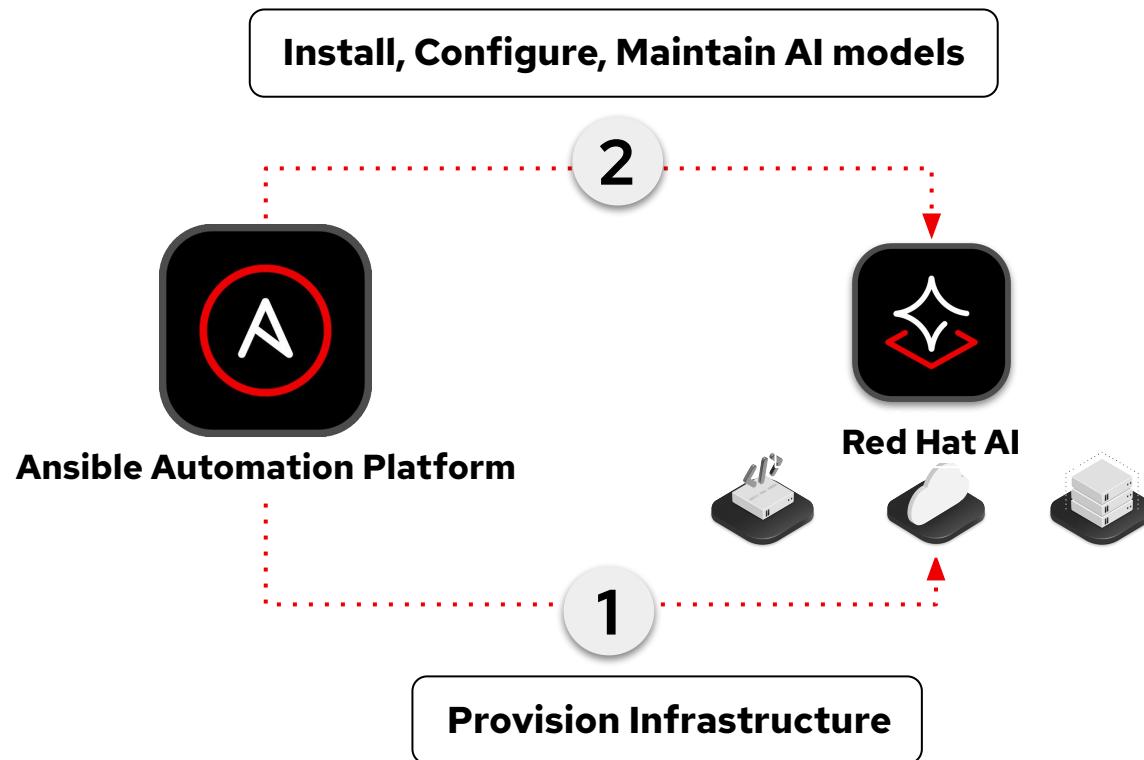


# AI building blocks: Essential prerequisites for activating AIOps



# Standardize AI infrastructure operations

## Install, configure and maintain AI infrastructure: Red Hat AI

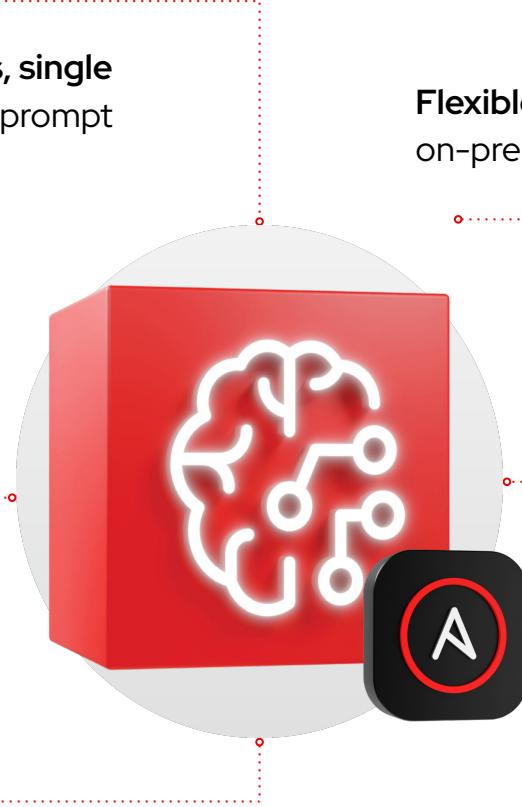


### CONSISTENCY

- ✓ Simplify AI model platform on prem, or cloud, deployment to a single click
- ✓ Ensure infrastructure is available, reliant, performant
- ✓ Manage AI same as existing infrastructure: no new resources required
- ✓ Accelerate time to value for developers consuming AI platform
- ✓ Enable fast, consistent, repeatable AI infrastructure setup and lifecycle, reducing risk of errors



# Red Hat Ansible Lightspeed Coding Assistant

- Generate Ansible Playbooks, Ansible Roles, single tasks, or multiple tasks from a single prompt
  - Content explanations to build user expertise and confidence that generated content will work as intended
  - Content source matching to establish trust with referenced data sources
  - Pre- and post-processing adds extra layer of optimization by with review and enforcement of Ansible best practices and syntax
  - Flexible deployment options: SaaS, on-premise, or hybrid options
  - Trained on Ansible data sets using Ansible Galaxy, GitHub, and other open source repos.
  - Model customization to further optimize and refine code generation using enterprise-specific data sets
- 



# Introducing the Red Hat Ansible Lightspeed intelligent assistant

## The Ansible administrator who never takes a day off

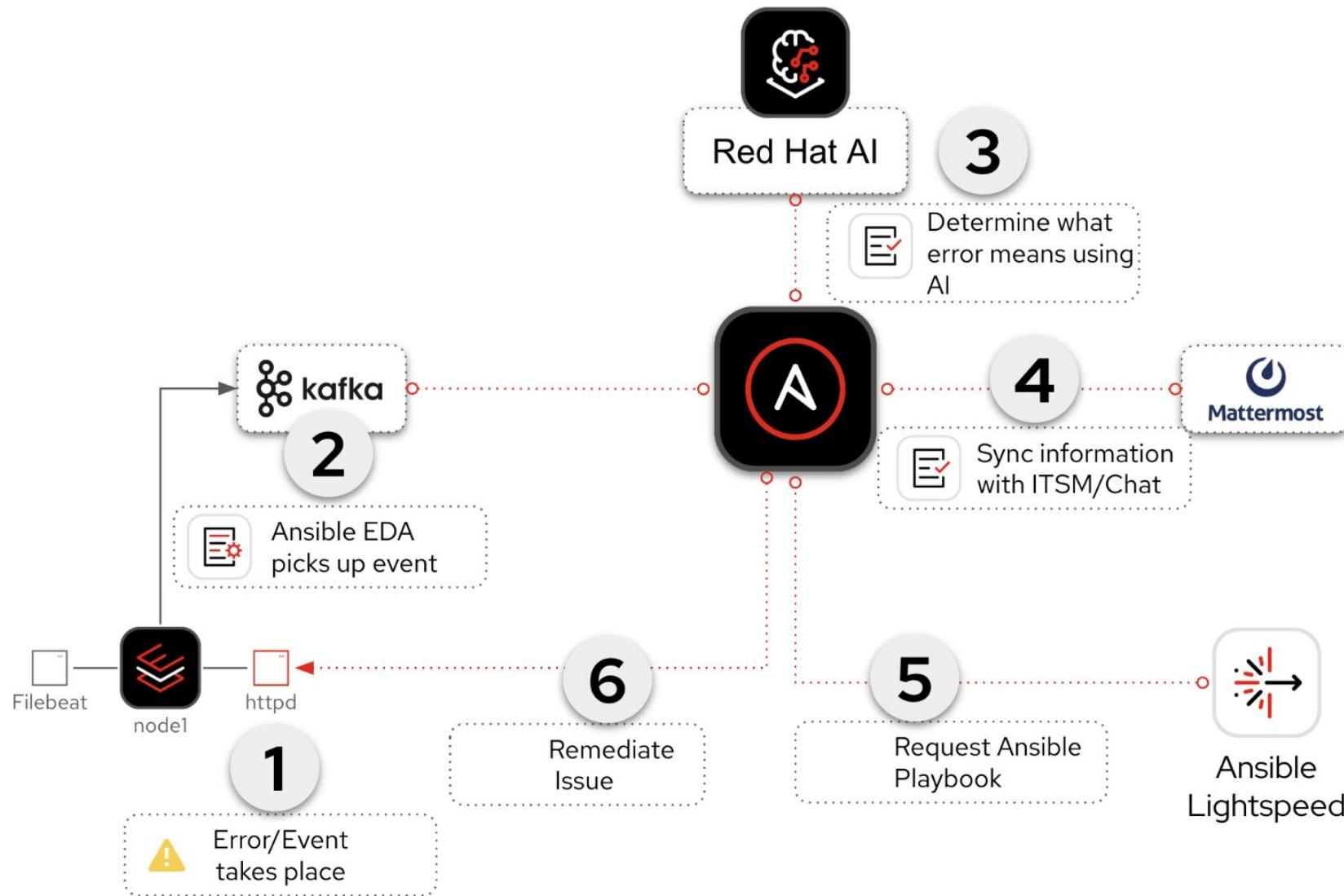
### PLATFORM ASSISTANCE

- **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?"
  - "How do I activate Ansible Lightspeed with watsonx Code Assistant?"
- **Coming soon:** understand conditions within your Ansible Automation Platform deployment
  - "Why did my automation job fail?"
  - "List all inventories in my Ansible Automation Platform deployment."
  - ""Show me the status of all running jobs and their progress."

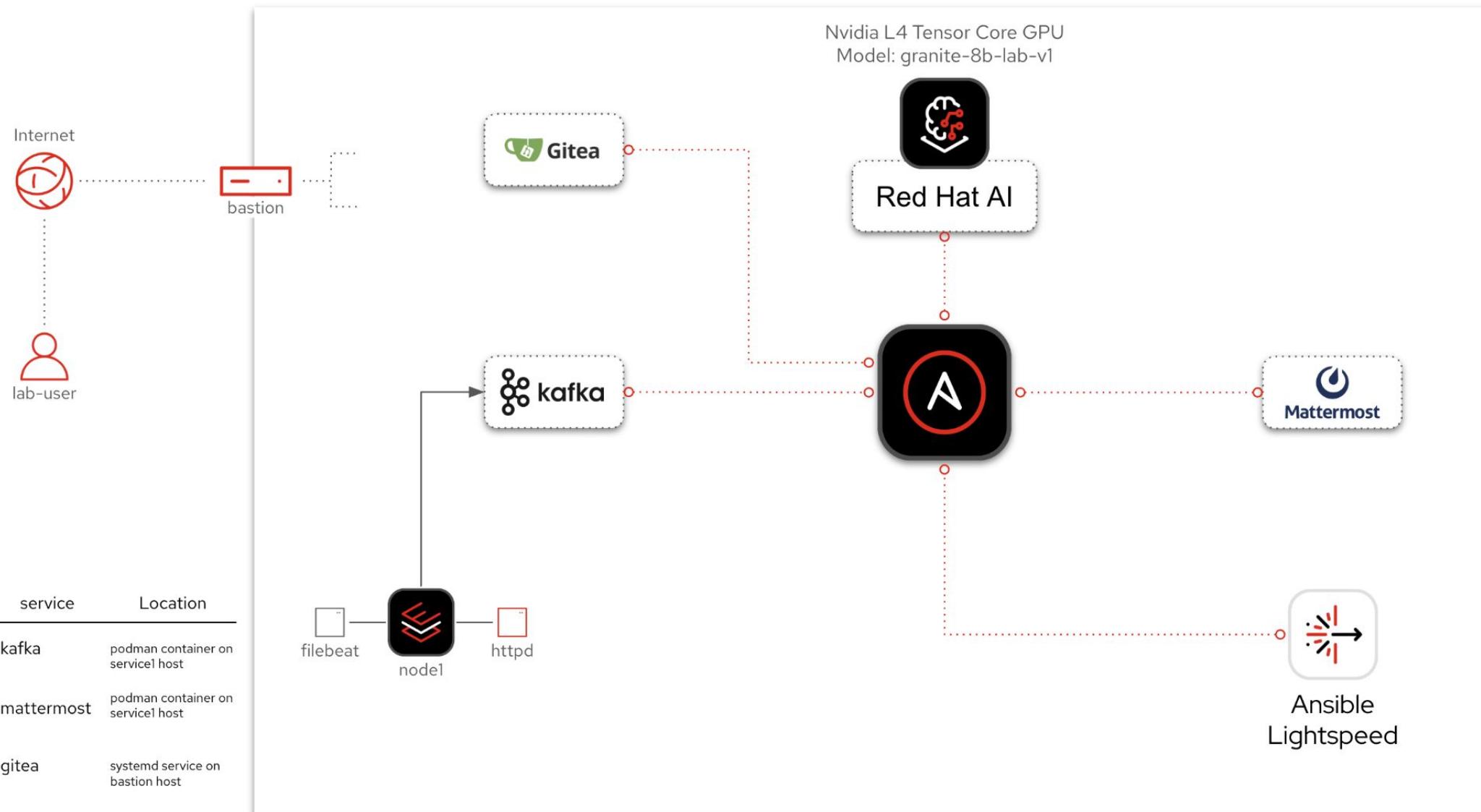
The screenshot shows the Ansible Automation Platform's main dashboard. On the left is a dark sidebar with navigation options like 'Administration View', 'Overview', 'Automation Execution', 'Jobs', 'Templates', etc. The main area displays 'Resource Counts' (1 Hosts, 1 Projects, 1 Inventories) and 'Job Activity'. Overlaid on the bottom right is a light-colored AI chat window. It starts with a welcome message from 'Ansible Lightspeed intelligent assistant' asking 'How can I assist you today?'. A user responds with 'Hello'. The AI replies with an 'Important' note about its purpose and data handling. Another message from the AI follows, ending with a 'Send a message...' input field.

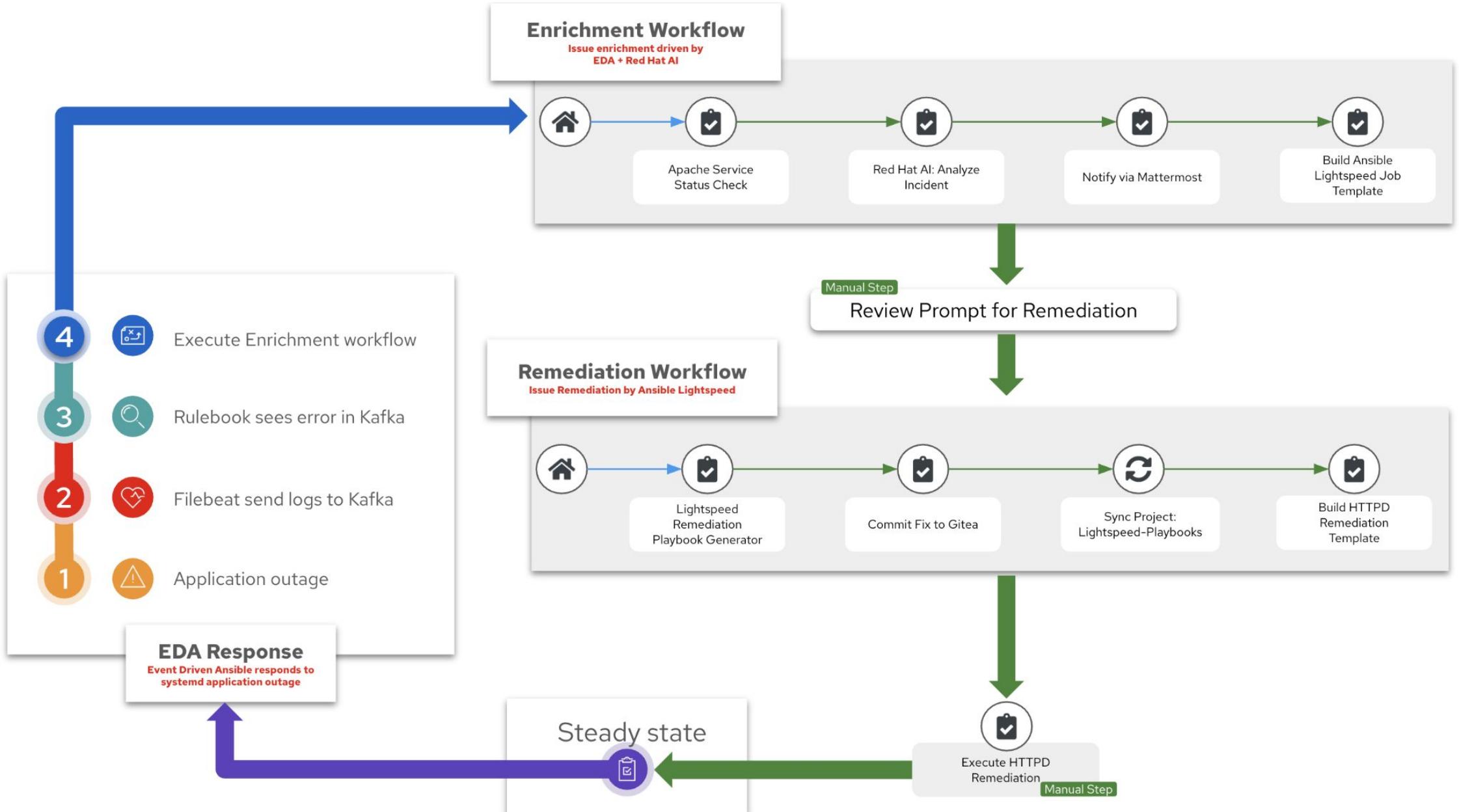
**ONBOARD FASTER**  
**REDUCE FRUSTRATION / FRICTION**  
**SIMPLIFY PLATFORM ADMINISTRATION**

# Lab Overview



# Lab Topology







# AnsibleFest

Boston, MA | May 19-22, 2025

Start your instructor-led lab experience

Select your hands-on lab to begin developing and enhancing your technology skills

Monday, May 19, 2025

LB2806

Build an Open Source Agentic AI for managing Cloud Deployments  
May 19, 11:30 AM

[Access this lab →](#)

LB2255

Jumpstarter: An open source framework for hardware-in-the-loop testing in modern DevSecOps pipelines  
May 19, 1:00 PM

[Access this lab →](#)

LB2221

Smart Aquaculture edge-to-cloud developer workshop  
May 19, 2:30 PM

[Access this lab →](#)

LB2010

Assess prioritize and modernize your applications at scale to use Red Hat OpenShift  
May 19, 10:00 AM

[Access this lab →](#)

LB2313

Merging Declarative and Procedural Methodologies for End-to-end Application Deployment  
May 19, 11:30 AM

[Access this lab →](#)

LB2961

Introduction to AI-Driven Ansible Automation  
May 19, 1:00 PM

[Access this lab →](#)

<https://summit.demo.redhat.com/>

- > Search [Ctrl/Cmd + f] for **2961**
- > **Click the lab tile that matches your scheduled start time.**
- > Enter your registration email
- > Enter lab password (driven7)
- > Click on Lab User Interface link

LB2961

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LB2961

Introduction to AI-Driven Ansible Automation

[Access this lab →](#)

# Next steps

→ [red.ht/AIOps\\_demo](https://red.ht/AIOps_demo)



→ [red.ht/AAP\\_AI\\_KBASE](https://red.ht/AAP_AI_KBASE)



→ Developer program

