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# Lab: Unlock AIOps with Red Hat Ansible Automation Platform



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# What we'll discuss today

- > 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

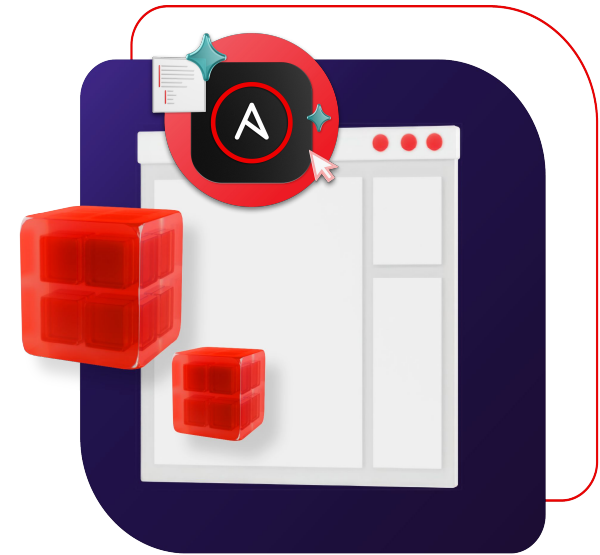
Areas organizations must address when looking to adopt AI at an enterprise level



Infrastructure  
readiness



Real-time response to  
alerts and conditions

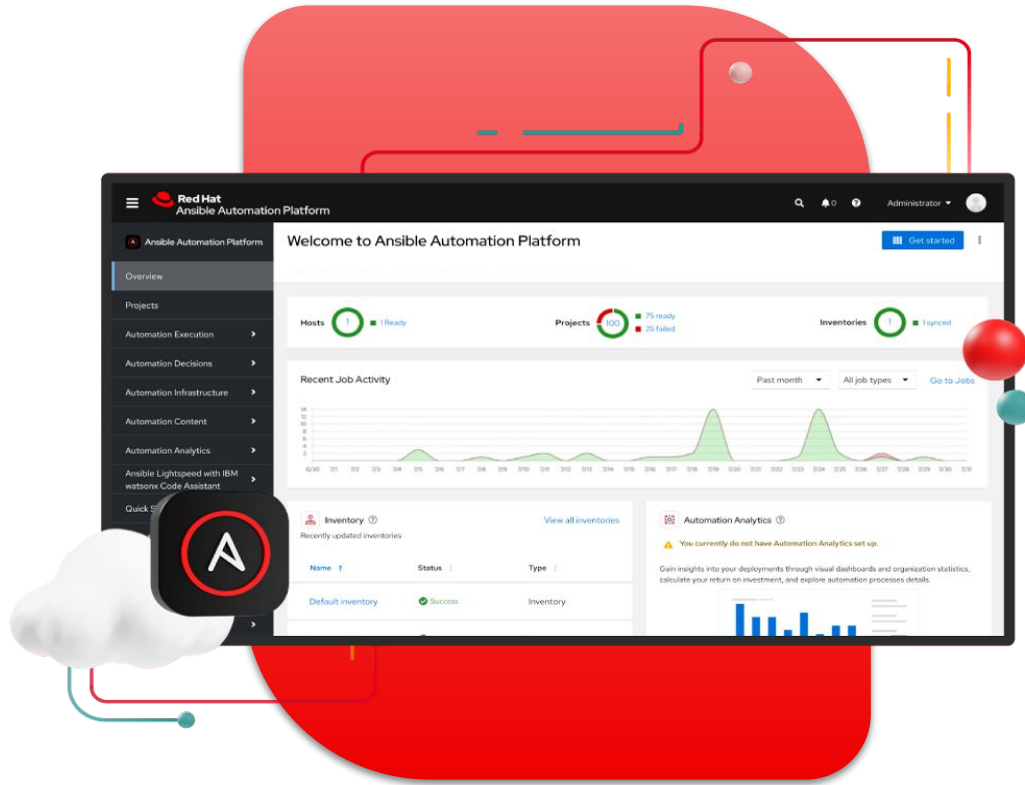


Confidence in acting on  
AI inferences



# 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

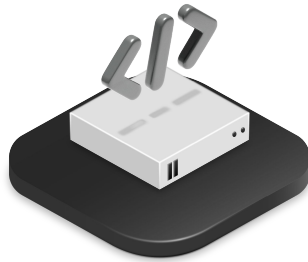
Securely apply automation across your organization and ensure end-to-end code integrity with signed content.



# A common platform for scaling automation across environments



**Networking**



**OS**



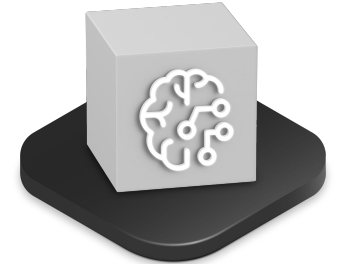
**Cloud**



**Virtualization**



**App delivery**



**AI**



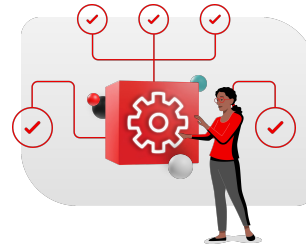
# Establish a reliable AI foundation. Enable ongoing AI innovation.

## 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 AIOps



- 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.



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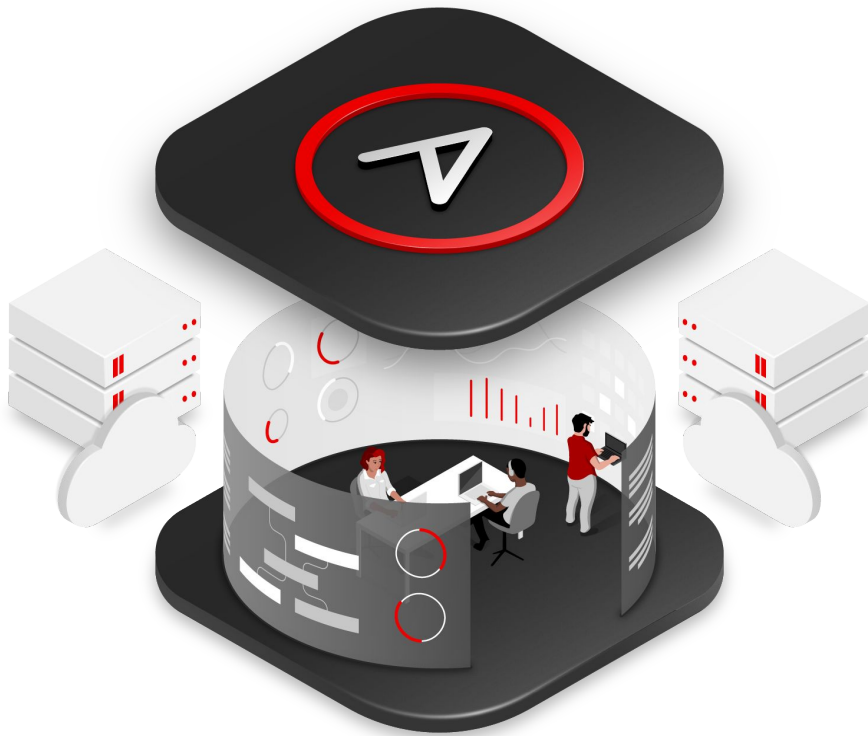
# Unlock AIOps with Red Hat Ansible:

## Path to value



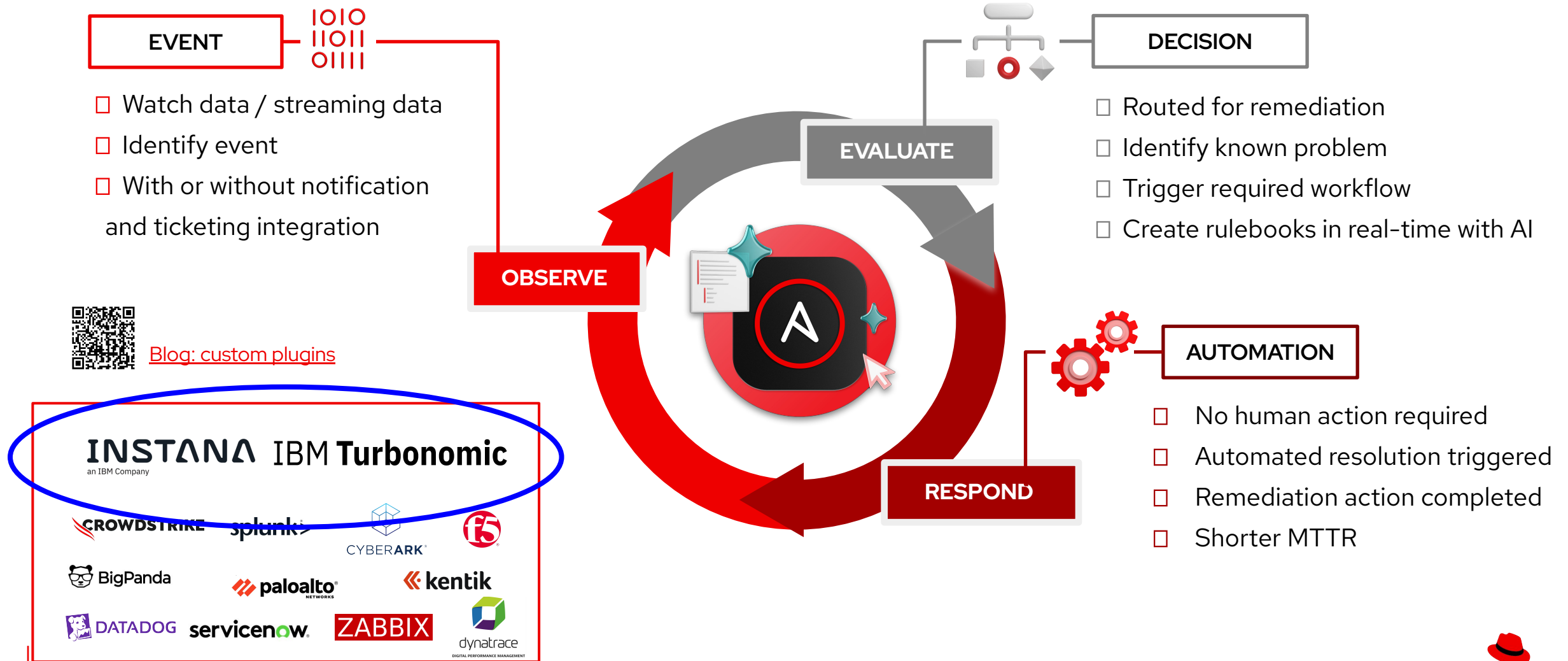
## Unlock AIOps

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

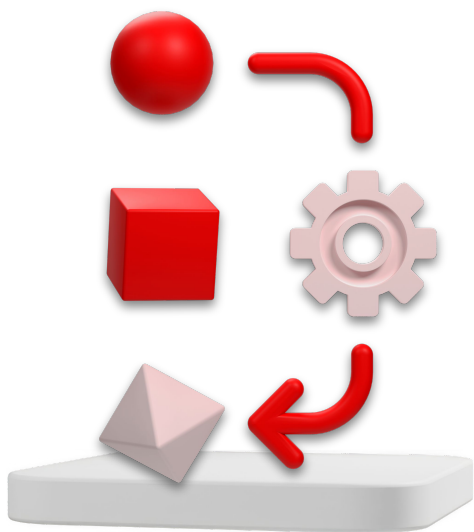


- ✓ **Event-Driven Ansible.** Engineered to turn intelligence into action.
- ✓ **Industry-leading technology ecosystem.** Ansible works with the tools you already have, and can help you better orchestrate the AIOps processes you have in place.
- ✓ **Comprehensive automation capabilities.** If your tools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

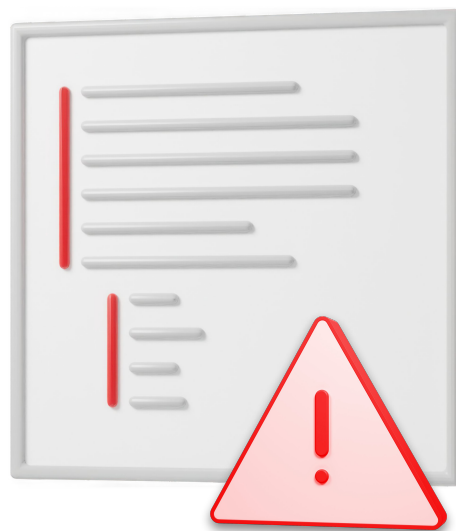
# Event-Driven Ansible: Intelligence into action



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



**Self-healing  
Infrastructure**



**Support and incident  
ticket enrichment**



**Cost + resource  
optimization**



# Customer story: AIOps in action

"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.



Headquarters

### Insurance

11,900+ employees

### Benefits

- ▶ Standardized automation procedures and repeatable

"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

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



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# AI building blocks:

Essential prerequisites for activating AIOps

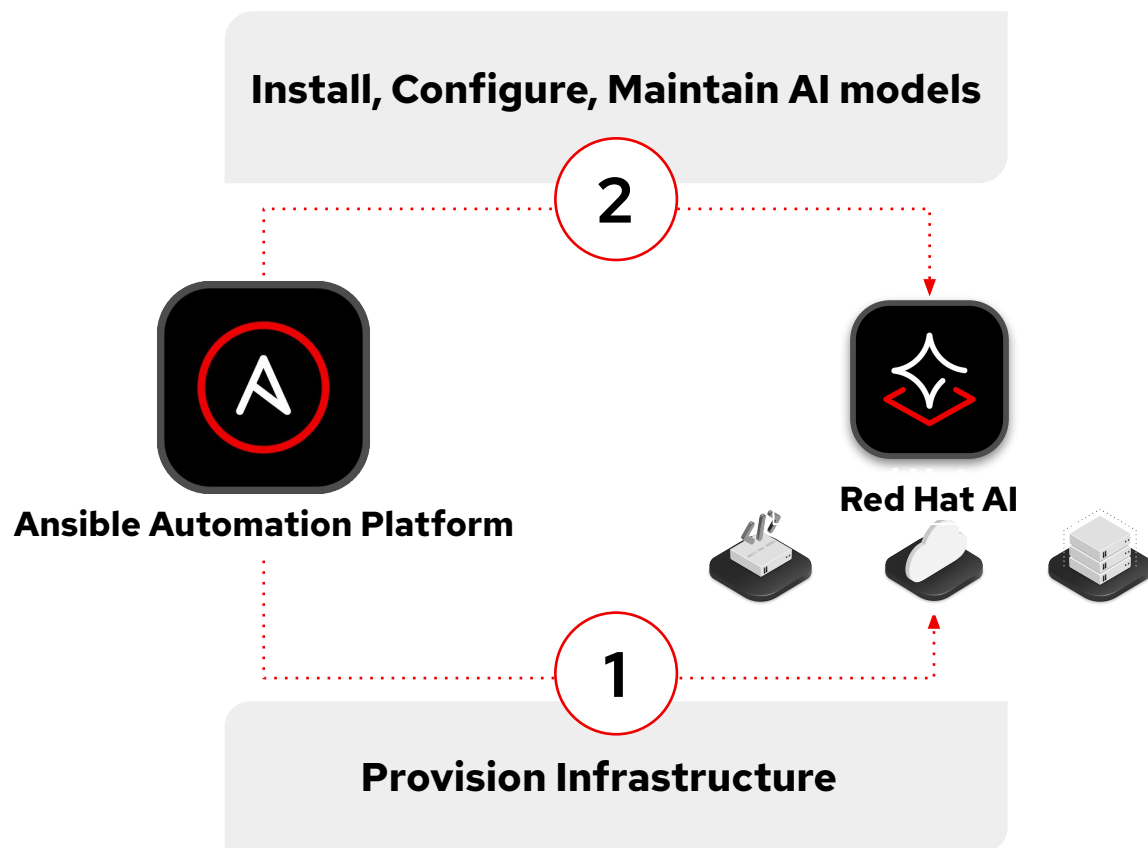






# Standardize AI infrastructure operations

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**

Turn your automation expertise into Ansible content

## **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**

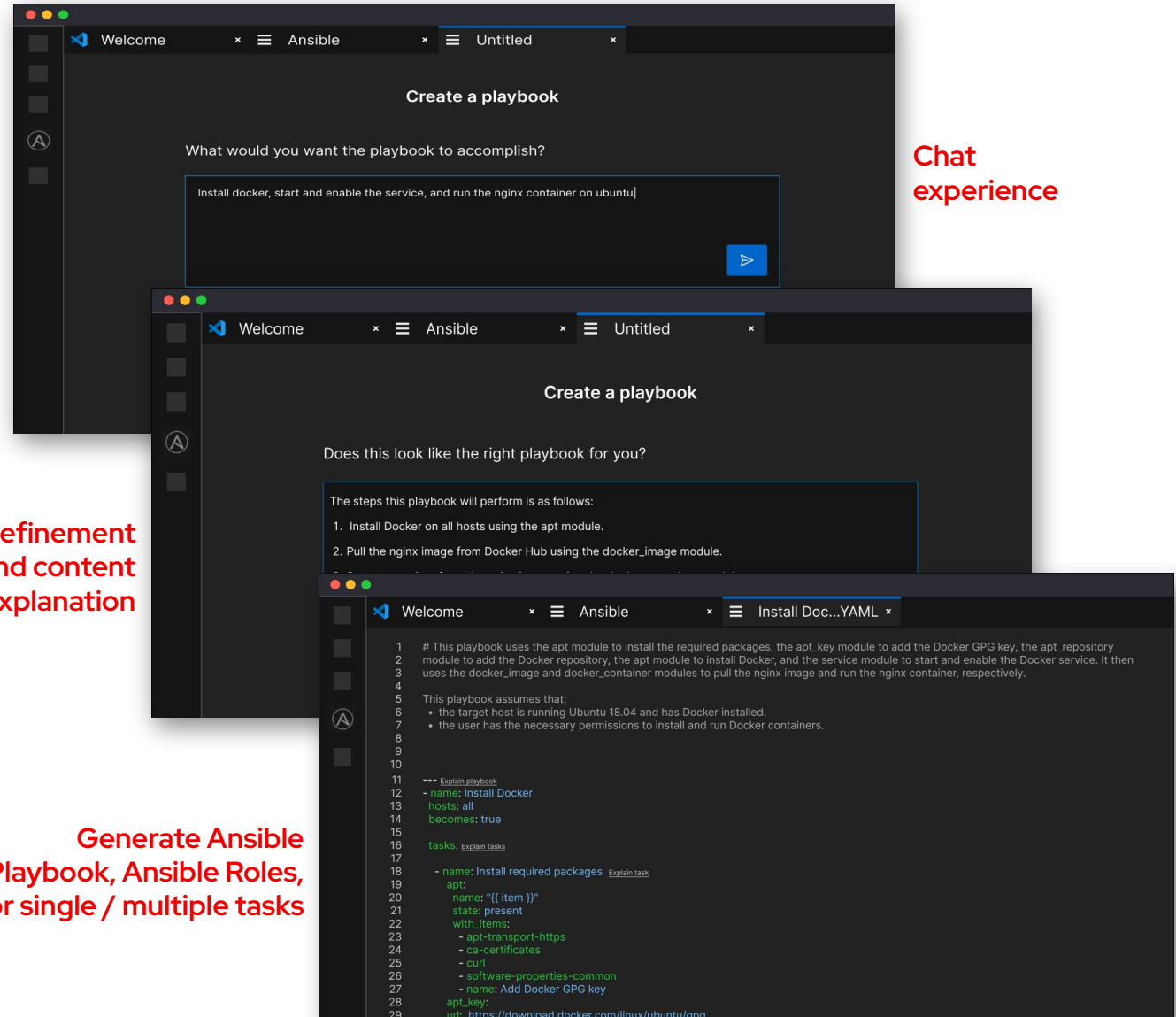
Example prompts:

- *"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**



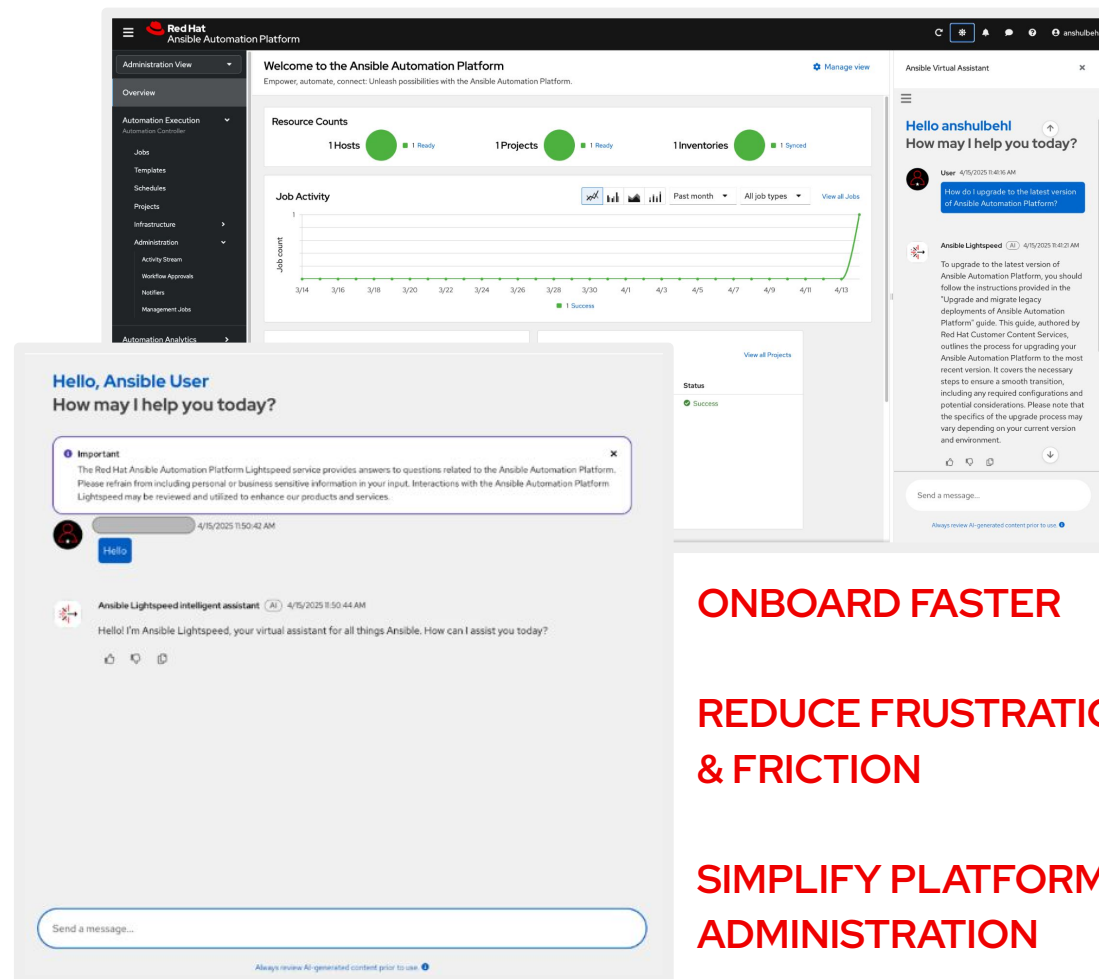


# Introducing the Red Hat Ansible Lightspeed **intelligent assistant**

Like having an Ansible administrator as close as your keyboard

## **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?"





# Red Hat Ansible Lightspeed **intelligent assistant**

Enhance your IT operations workflows with agentic AI

Q4  
Roadmap

## **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**

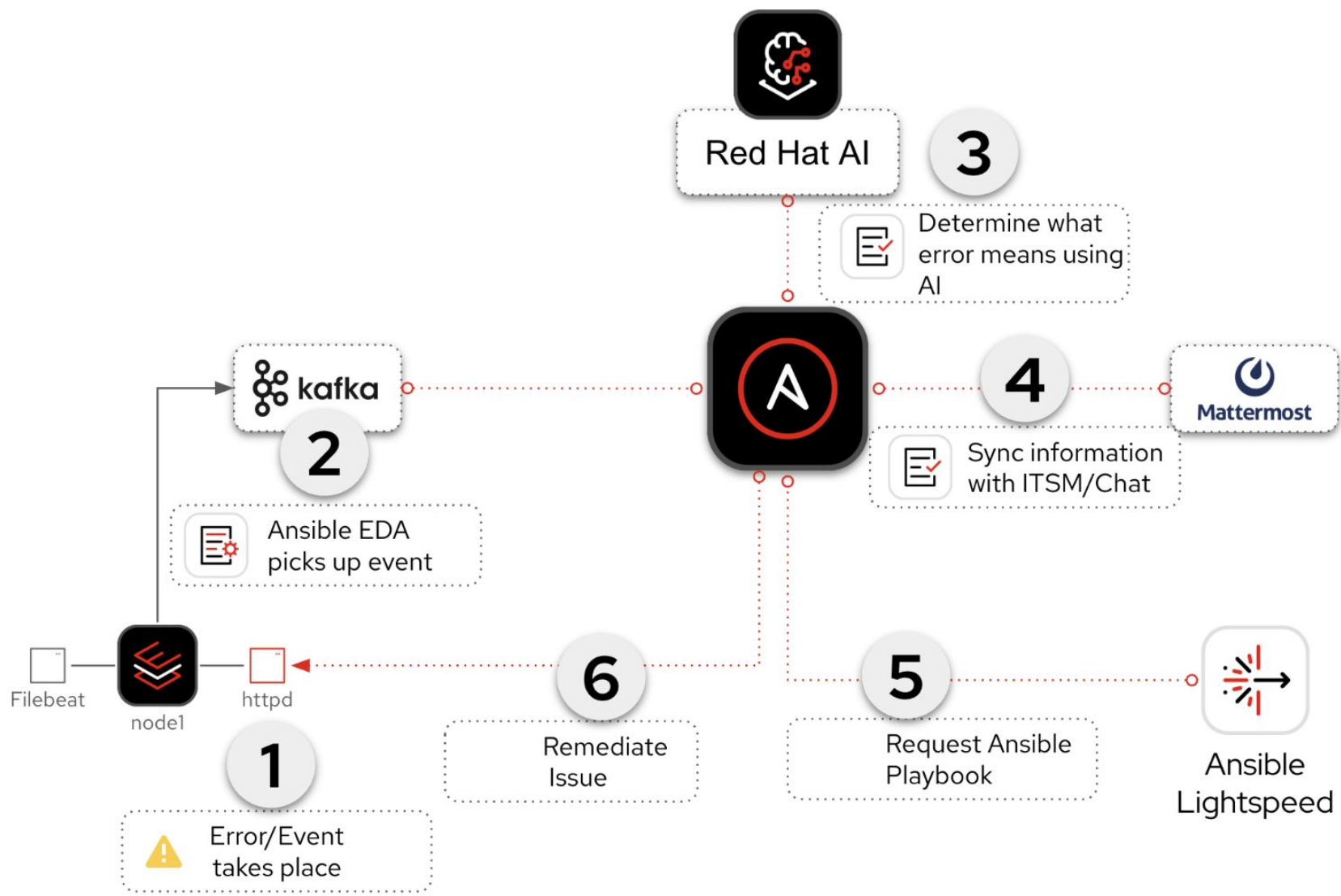
**REDUCE SWIVEL CHAIR OPERATIONS**

**DEPLOY SELF-HEALING INFRASTRUCTURE**

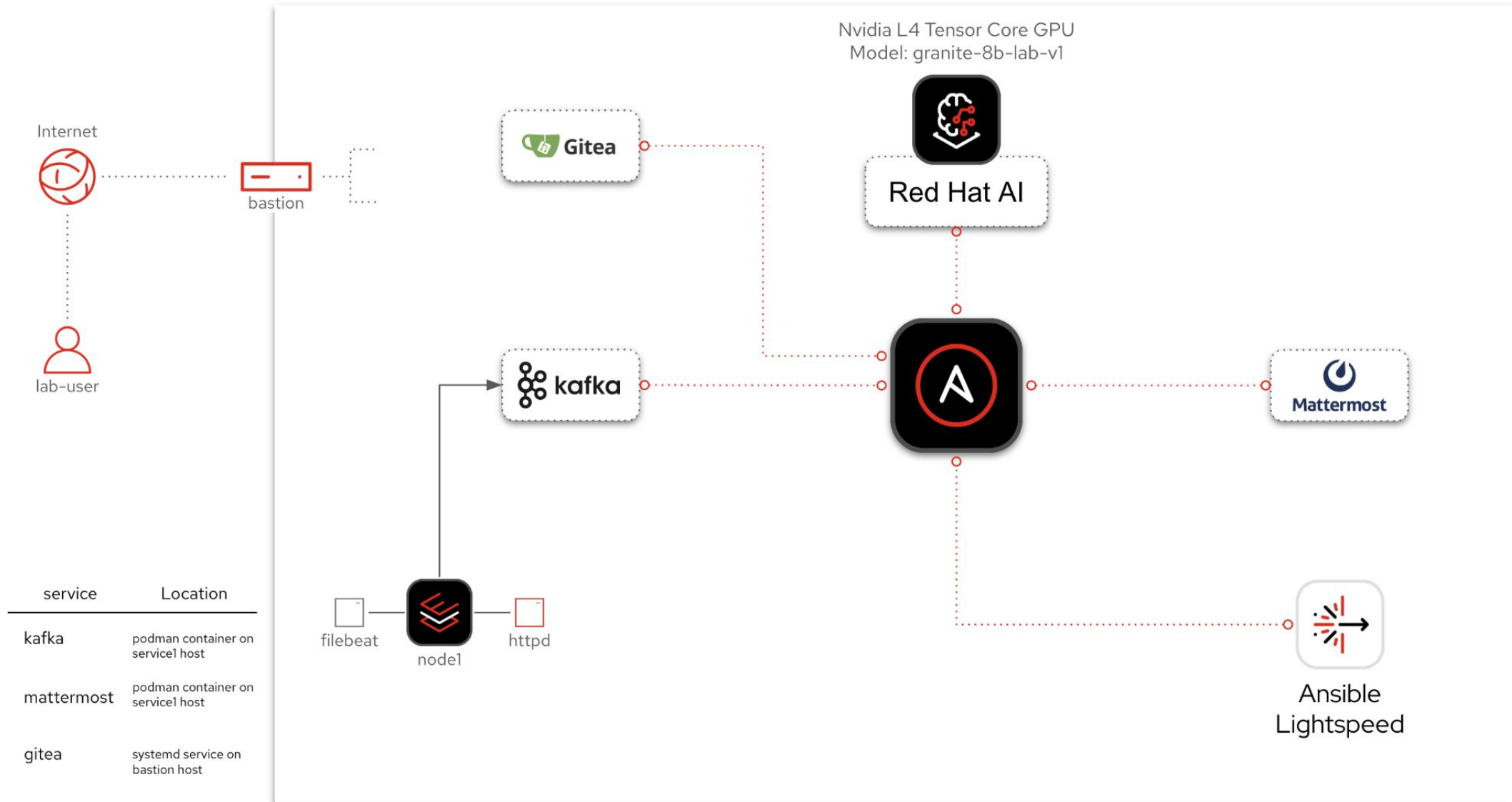
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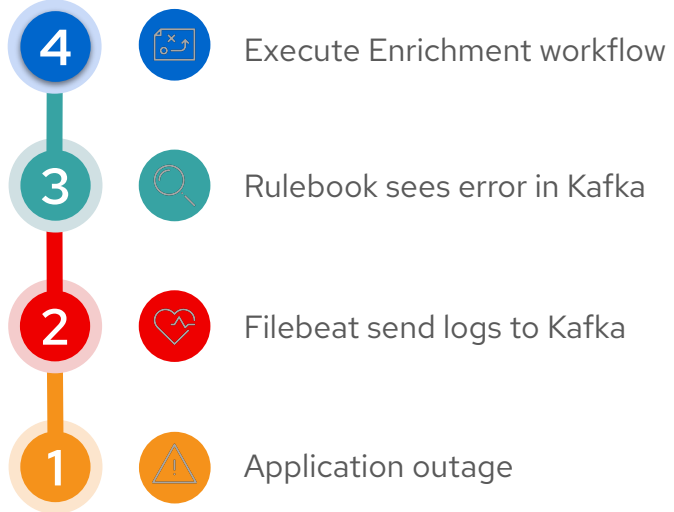
# Lab overview





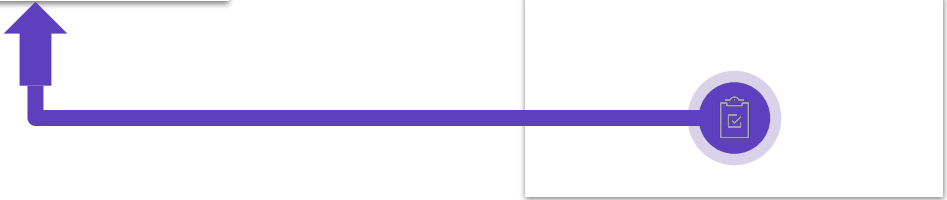
# Lab Topology





**EDA Response**  
Event Driven Ansible responds to  
systemd application outage

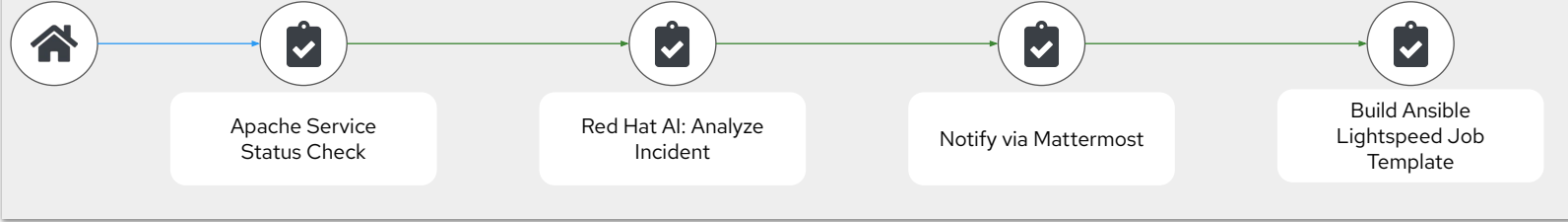
Server / VM





## Enrichment Workflow

Issue enrichment driven by  
EDA + Red Hat AI



4



Execute Enrichment workflow

3



Rulebook sees error in Kafka

2



Filebeat send logs to Kafka

1



Application outage

## EDA Response

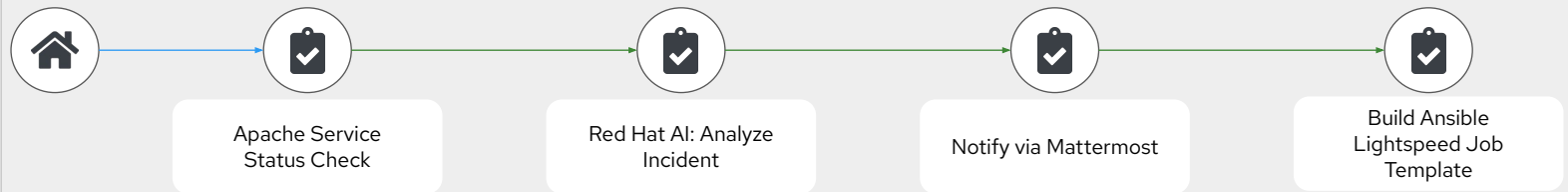
Event Driven Ansible responds to  
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Server / VM



## Enrichment Workflow

Issue enrichment driven by  
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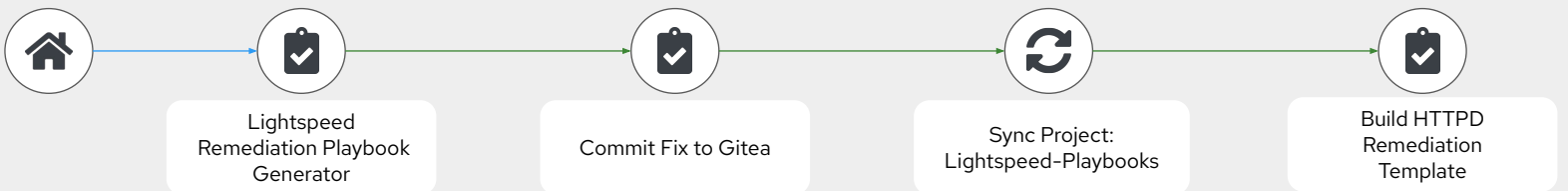


Manual Step

Review Prompt for Remediation

## Remediation Workflow

Issue Remediation by Ansible Lightspeed



Server / VM



## EDA Response

Event Driven Ansible responds to  
systemd application outage

4 Execute Enrichment workflow

3 Rulebook sees error in Kafka

2 Filebeat send logs to Kafka

1 Application outage

4

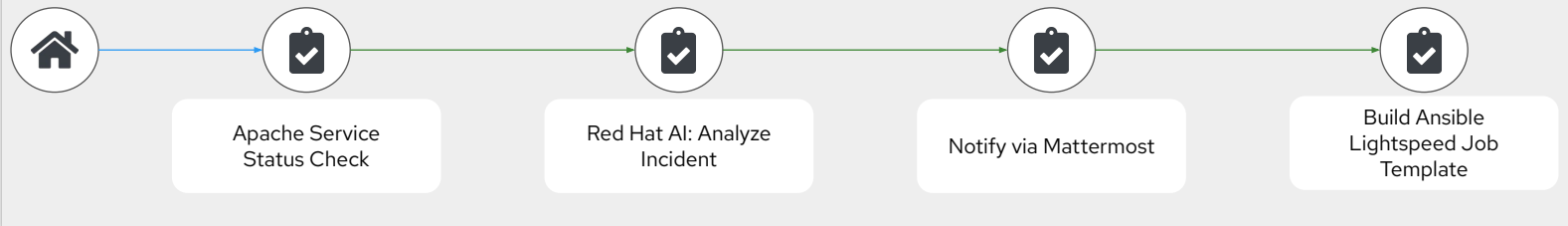
3

2

1

## Enrichment Workflow

Issue enrichment driven by  
EDA + Red Hat AI

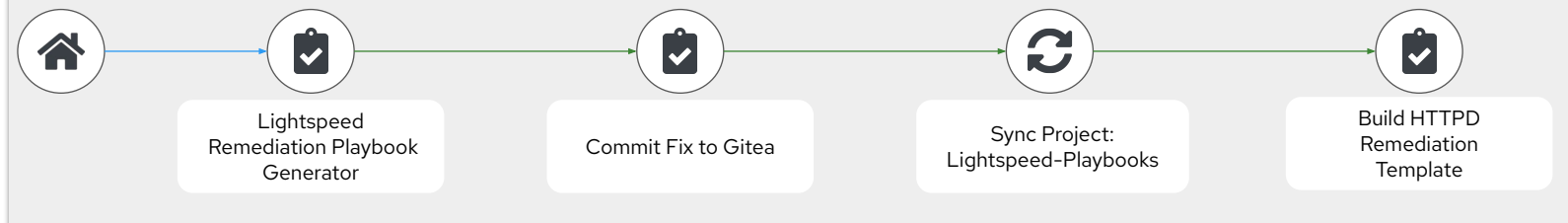


Manual Step

Review Prompt for Remediation

## Remediation Workflow

Issue Remediation by Ansible Lightspeed



Execute HTTPD Remediation

Manual Step

Steady state



## EDA Response

Event Driven Ansible responds to  
systemd application outage

4 Execute Enrichment workflow



3 Rulebook sees error in Kafka



2 Filebeat send logs to Kafka



1 Application outage



Go to **red.ht/lab01**

- Username: Enter your email address
- Password: **ai4**

Red Hat  
Summit

## 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 (driven8)
- > Click on Lab User Interface link
- > Showroom: <https://bit.ly/3SMXldP>
- > Slides: <https://bit.ly/3HjFokw>



LB2961

Introduction to AI-Driven Ansible Automation

[Access this lab →](#)

Red Hat  
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|                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                             |                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br>Build an Open Source Agentic AI<br>for managing Cloud<br>Deployments<br>May 19, 11:30 AM<br><a href="#">Access this lab →</a>                        | <br>Jumpstarter: An open source<br>framework for hardware-in-the-<br>loop testing in modern<br>DevSecOps pipelines<br>May 19, 1:00 PM<br><a href="#">Access this lab →</a> | <br>Smart Aquaculture edge-to-<br>cloud developer workshop<br>May 19, 2:30 PM<br><a href="#">Access this lab →</a> |
| <br>Assess prioritize and modernize<br>your applications at scale to use<br>Red Hat OpenShift<br>May 19, 10:00 AM<br><a href="#">Access this lab →</a> | <br>Merging Declarative and<br>Procedural Methodologies for<br>End-to-end Application<br>Deployment<br>May 19, 11:30 AM<br><a href="#">Access this lab →</a>             | <br>Introduction to AI-Driven Ansible<br>Automation<br>May 19, 1:00 PM<br><a href="#">Access this lab →</a>      |

<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 (aidriven1/driven7/driven8)
- > Click on Lab User Interface link



LB2961

Introduction to AI-Driven Ansible  
Automation[Access this lab →](#)

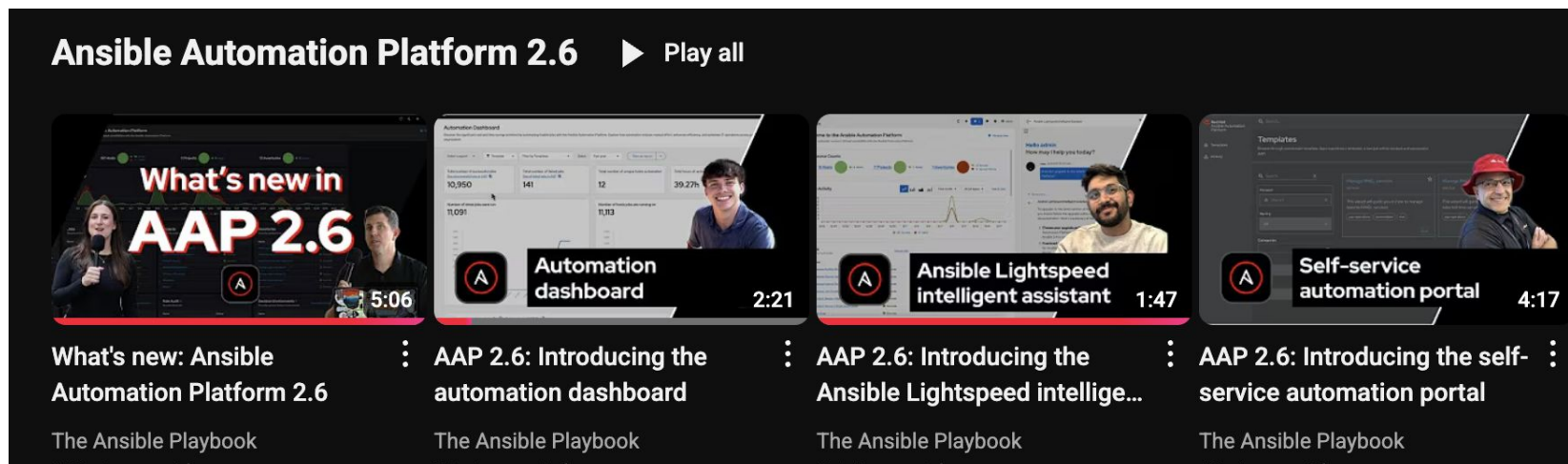


# AAP 2.6 is now available!

Scan this QR code to watch our playlist on YouTube!

[red.ht/aap\\_26](https://red.ht/aap_26)

Learn more about Red Hat Ansible Automation Platform key features and how to get the most out of IT automation across your organization.



Quick demonstrations and walkthroughs

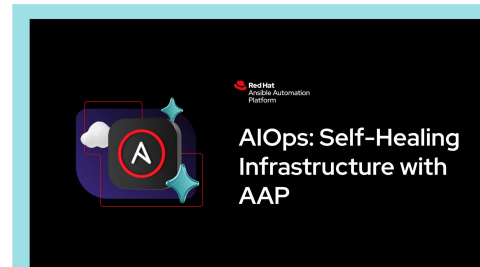
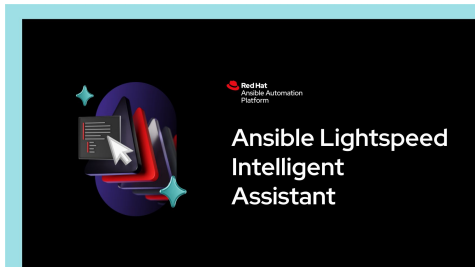
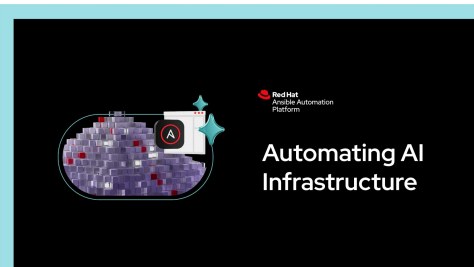
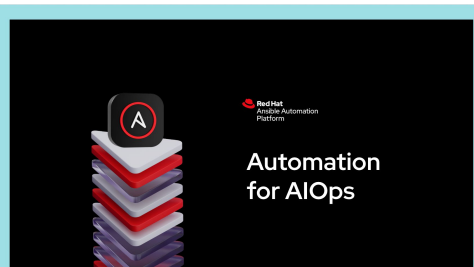




# Ready to do more with Red Hat Ansible?

Scan this QR code to explore a curated collection of 31+ [interactive experiences](#).

Learn more about Red Hat Ansible Automation Platform key features and how to get the most out of IT automation across your organization.



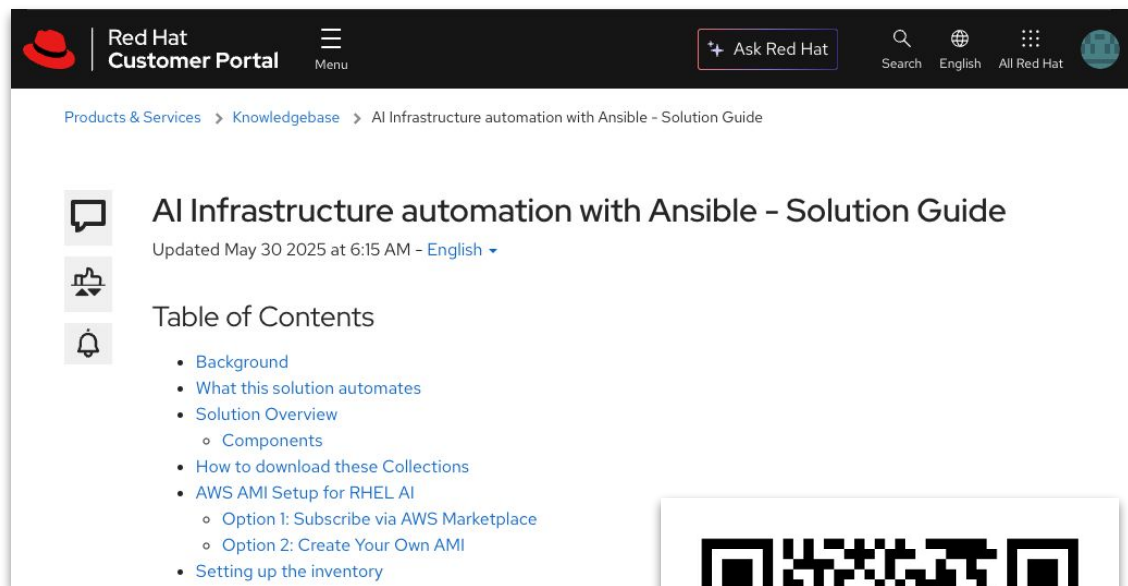
And checkout these AAP + AI focused demos



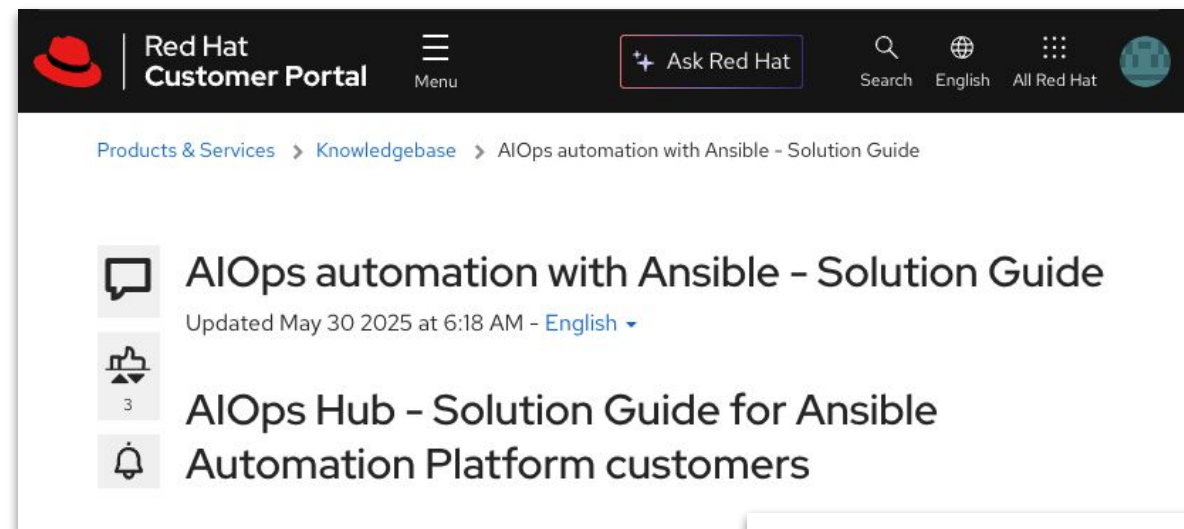


# New resource available: Solution guides

Opinionated guidance on how to tackle key AI use cases with Red Hat Ansible



The screenshot shows the Red Hat Customer Portal interface. The header includes the Red Hat logo, 'Red Hat Customer Portal', a menu icon, an 'Ask Red Hat' button, and search, language, and user profile icons. The breadcrumb trail reads: 'Products & Services > Knowledgebase > AI Infrastructure automation with Ansible - Solution Guide'. The main heading is 'AI Infrastructure automation with Ansible - Solution Guide', updated May 30 2025 at 6:15 AM in English. Below the heading is a 'Table of Contents' section with a list of links: Background, What this solution automates, Solution Overview (with a sub-link for Components), How to download these Collections, AWS AMI Setup for RHEL AI (with sub-links for Option 1: Subscribe via AWS Marketplace and Option 2: Create Your Own AMI), and Setting up the inventory.



The screenshot shows the Red Hat Customer Portal interface. The header is identical to the first screenshot. The breadcrumb trail reads: 'Products & Services > Knowledgebase > AIOps automation with Ansible - Solution Guide'. The main heading is 'AIOps automation with Ansible - Solution Guide', updated May 30 2025 at 6:18 AM in English. Below the heading is a list of links: AIOps Hub - Solution Guide for Ansible Automation Platform customers.

