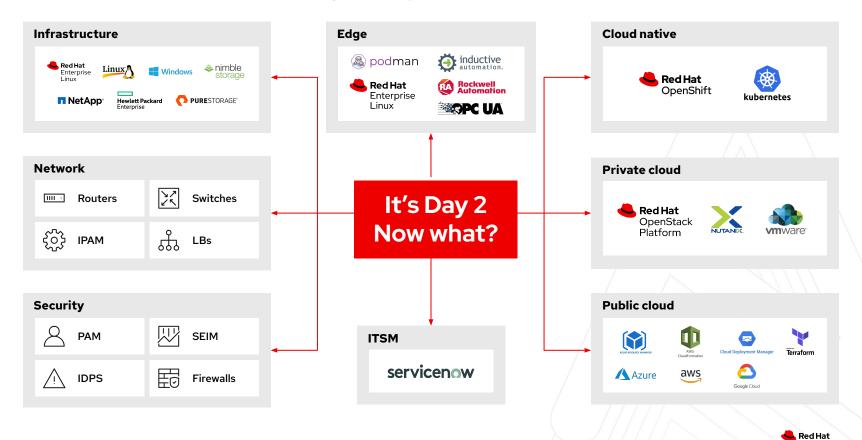


The reality of hybrid infrastructure



Ansible Automation Platform

2

A brief history of IT Operations

The Old Way: Toil and Churn

Outage resolution:

Follow a people-intensive multi-step manual process including opening tickets and multiple handoffs.

Security risk resolution:

Monitor to identify risk, notify and open a ticket, manually apply a patch or manually initiate automation job.

The new way: Event-Driven Automated Ops



Event-Driven outage resolution:

Receive event, matching to rule, respond and act automatically

Event-Driven security risk resolution:

Receive risk event, match to rule, automatically apply patch to impacted inventory.





Introducing Event-Driven Ansible

Achieve new milestones in IT service efficiency

Automate decision making

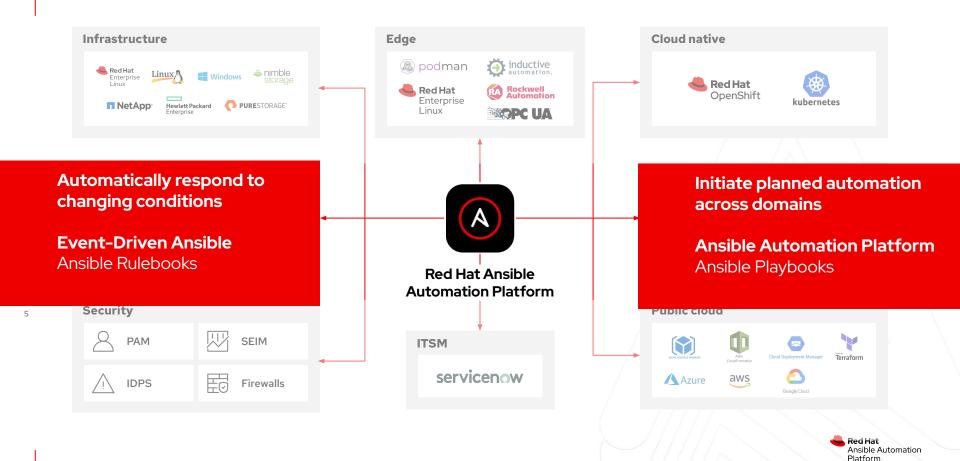
Leverage numerous sources of events

Implement event-driven automation within and across multiple IT use cases

Achieve new milestones in efficiency, service delivery excellence and cost savings



Single enterprise platform now with more automation options



One subscription. One integrated platform.



Automation controller Automation control plane



Automation execution environments

Scalable packaging and runtime execution plane



Automation mesh

Connectivity across diverse enterprise automation environments



NEW

Event-Driven Ansible

Automatic response to environment changes based on environment intelligence



Ansible-builder

Ansible containerized execution environment builder



Automation analytics & Red Hat Insights

Visibility, predictive analytics, and more



Ansible Content Collections

100+ certified content collections



Automation hub

Hosted certified content repository.



Ansible-navigator

Execution environment orchestration tooling



Ansible Platform Operator

Package, deploy and manage this platform on Red Hat OpenShift



Microsoft VS code plugin

Write and manage Ansible code with Visual Studio



Red Hat

Ansible Automation Platform



A typical event driven automation process

RECEIVE EVENT

- Work with third party sources of events
- Send important events to Event-Driven Ansible

DECIDE ON RESPONSE

- Known problem identified
- Automated resolution triggered

RESPOND AUTOMATICALLY

- Outage incident created
- Support team notified
- Remediation executed

WORK ACROSS MULTI-VENDOR IT OPERATIONS

Work flexibly and well with multi-vendor monitoring and other solutions across the event driven architecture with appropriate approvals, controls and awareness



Key building blocks in Event-Driven Ansible

Simple, powerful, agentless



Sources

All the sources of event data you want to use



Rules

What you will create using Event-Driven Ansible®



Actions

When a condition or event is met, the Ansible Rulebook executes

Ansible Rulebooks contain the source of the event, as well as the instructions on what steps to perform when a certain condition is met-and it is all very flexible.



Event-Driven Ansible stands out.



Flexible event-driven automation

Flexible from source to rule to action with multiple event sources. Create and change automation easily.



IT environment friendly

Automate any IT use case quickly and simply. Jumpstart with Red Hat and partner content collections.



Robust automation handling

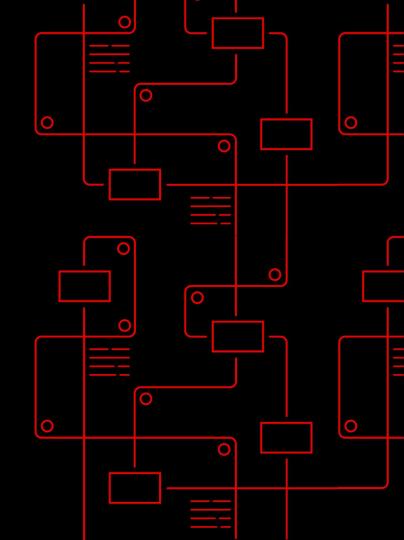
Scalable decisioning and implementation with flexible actions



Single automation platform

Choose your automation style, leverage existing automation content and extend skills





Ansible Rulebooks

Simple declarative decisions through rules

Events are processed by a rules engine

- Rules trigger based on conditions and actions can be carried out by the rules engine
- Rules are organized into Ansible Rulebooks
- Ansible rules can apply to events occurring on specific hosts or groups

Conditional management of actions to events

- Simple YAML structure for logical conditions
- Events can trigger different types of actions:
 - Run Ansible Playbooks
 - Run Modules
 - Post new events to the event handler

YAML-like format familiarity

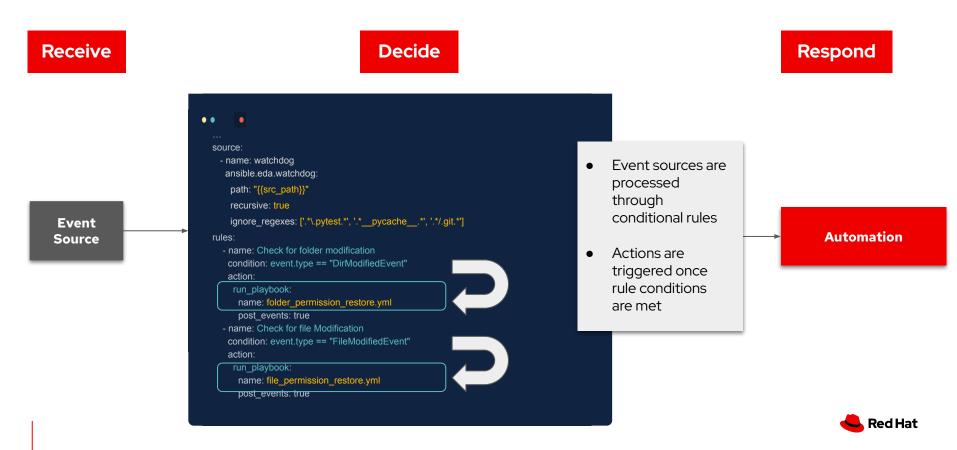
 Current Ansible users quickly learn and use Rulebook writing

```
. .
  - name: Automatic Remediation of a web server
    hosts: all
    sources:
      - name: listen for alerts
        ansible.eda.alertmanager:
          host: 0.0.0.0
          port: 8000
    rules:
      - name: restart web server
        condition: event.alert.labels.job == "fastapi" and
  event.alert.status == "firing"
        action:
          run playbook:
               name: ansible.eda.start app
```



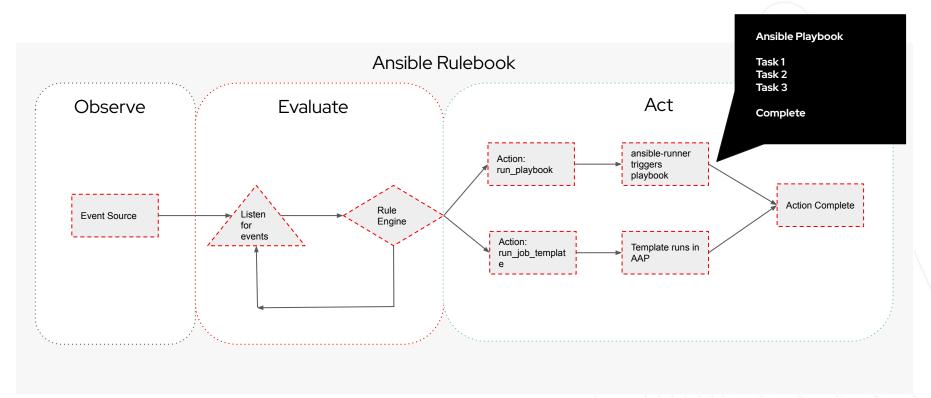
Anatomy of an Ansible Rulebook

Smart automation from conditional rules

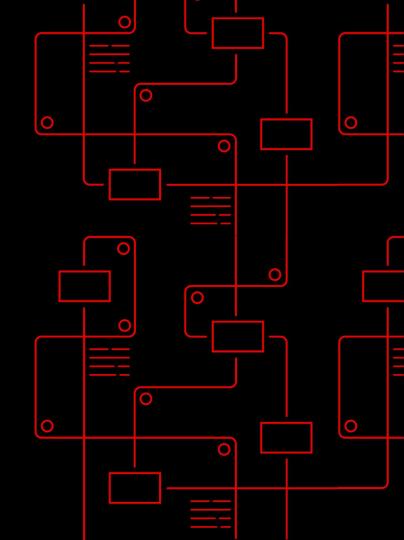


Event-Driven Ansible

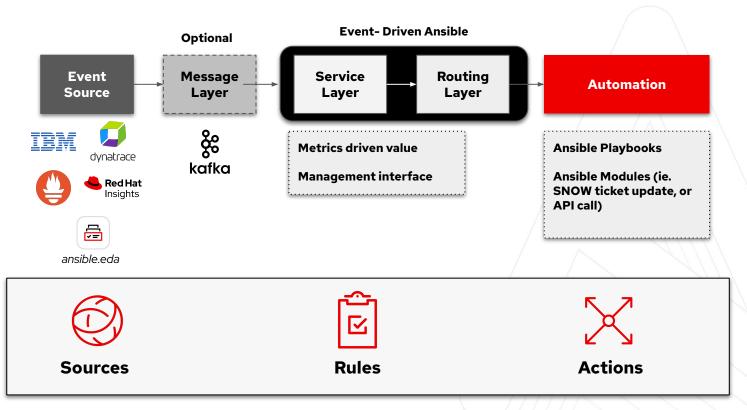
Ansible Rulebooks can call playbooks to leverage and extend trusted playbooks







Execution layers of Event Driven Automation



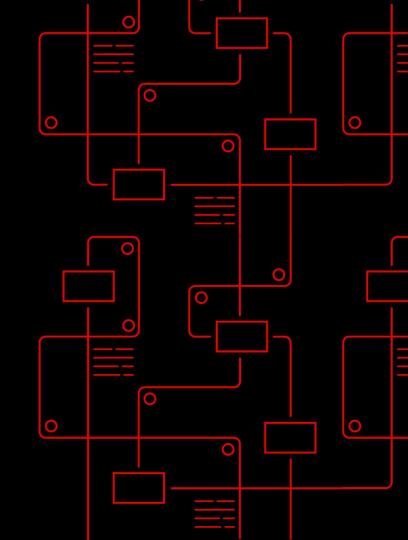


Current Event-Driven Ansible Integrations

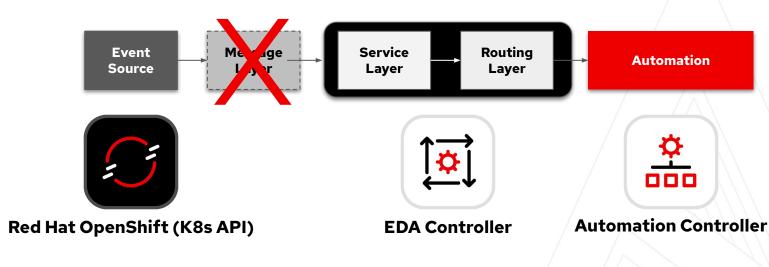
Current Partner certified and validated Content Collections	Current ansible.eda certified Content Collection included in subscription
 CrowdStrike* Dynatrace* F5 (validated content coming soon) Instana* LogicMonitor* Palo Alto Networks* Red Hat Insights* Turbonomic* Zabbix (existing validated content with event source plug-in in process) Currently includes event source plug-in.	 AWS SQS AWS CloudTrail Azure Service Bus Kafka (AMQ Streams) Prometheus/Alertmanager Webhooks watchdog (file system watcher) url_check (url status check) range (event generation plugin) file (loading facts from yaml) journald tick

Check these links often, as the list is expanding.





Demo Environment Execution layers



Events Occur in Kubernetes API

Rule Activations
See Events,
Evaluate Them, and
Trigger
Automations

Automation Controller Executes Job Templates triggered by EDA





Smart IT delivered at the speed of automation

Event-Driven Ansible

Open

Based on open source technology, integrated and hardened for production use

Flexible

From source to rule to action, across your ecosystem

Fast

Close issues and tickets, proactively address problems, eliminate rote tasks

Use Case Friendly

Completely automate IT actions as needed

Familiar

YAML-like Ansible Rulebook constructs

Simple

Choice of automatically- or manually-initiated actions



Resources

Get started on your event-driven automation journey

MANAGERS

Event-Driven Ansible web page

451 Research: The Impact of Event-Driven Automation on IT Operations

IDC QuickTake AnsibleFest 2922, including Event-Driven Ansible

Blog: Highly Efficient, Resilient IT operations

Blog: Introducing Event-Driven Ansible

TECHNICAL ROLES

Event-Driven Ansible web page

Free self-paced labs

Ansible Rulebook documentation

Event-Driven Ansible blog series

Blog: Getting started with Event-Driven Ansible

Blog: Creating custom plugins

PARTNERS

Event-Driven Ansible web page

Free self-paced labs

Blog: Creating custom plugins blog

Contact the partner team: ansible-partners@redhat.com





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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- facebook.com/redhatinc
- **y** twitter.com/RedHat