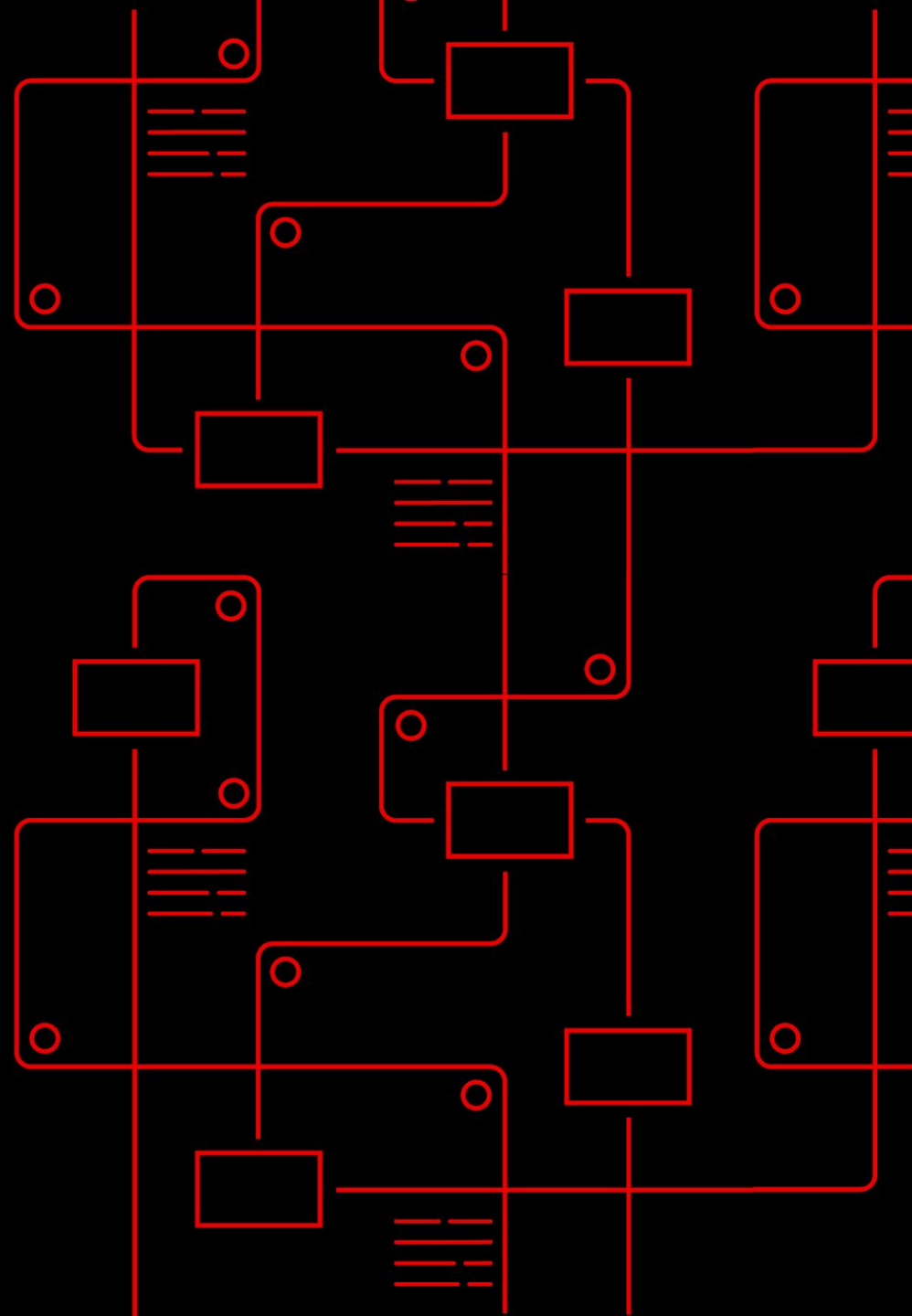
Red Hat
Ansible Automation
Platform

Event Driven Ansible, Piping events into automation

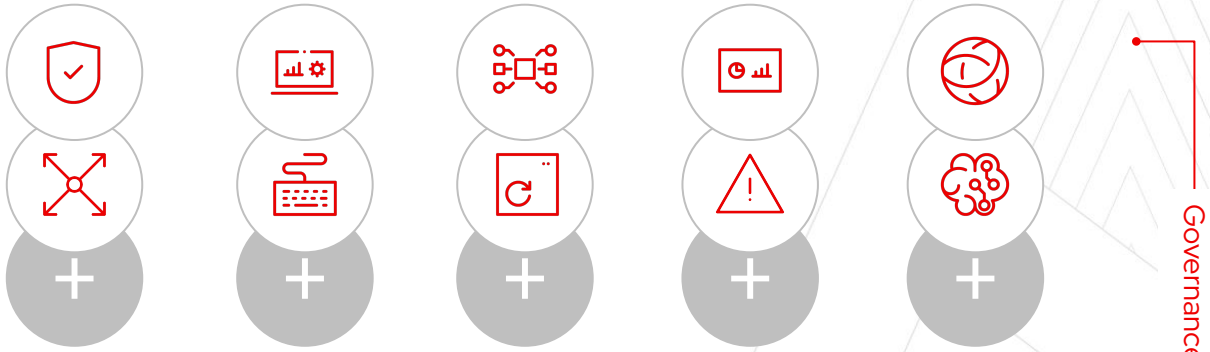
Anyone can automate...
but an enterprise needs to coordinate and scale



Many organizations share the same challenge.

Differing skills, roles, and responsibilities

Growing number of use cases



Multiple platforms and locations

Across multiple domains

Physical	Virtual	Cloud	Edge
Compute	Network	Storage	Security

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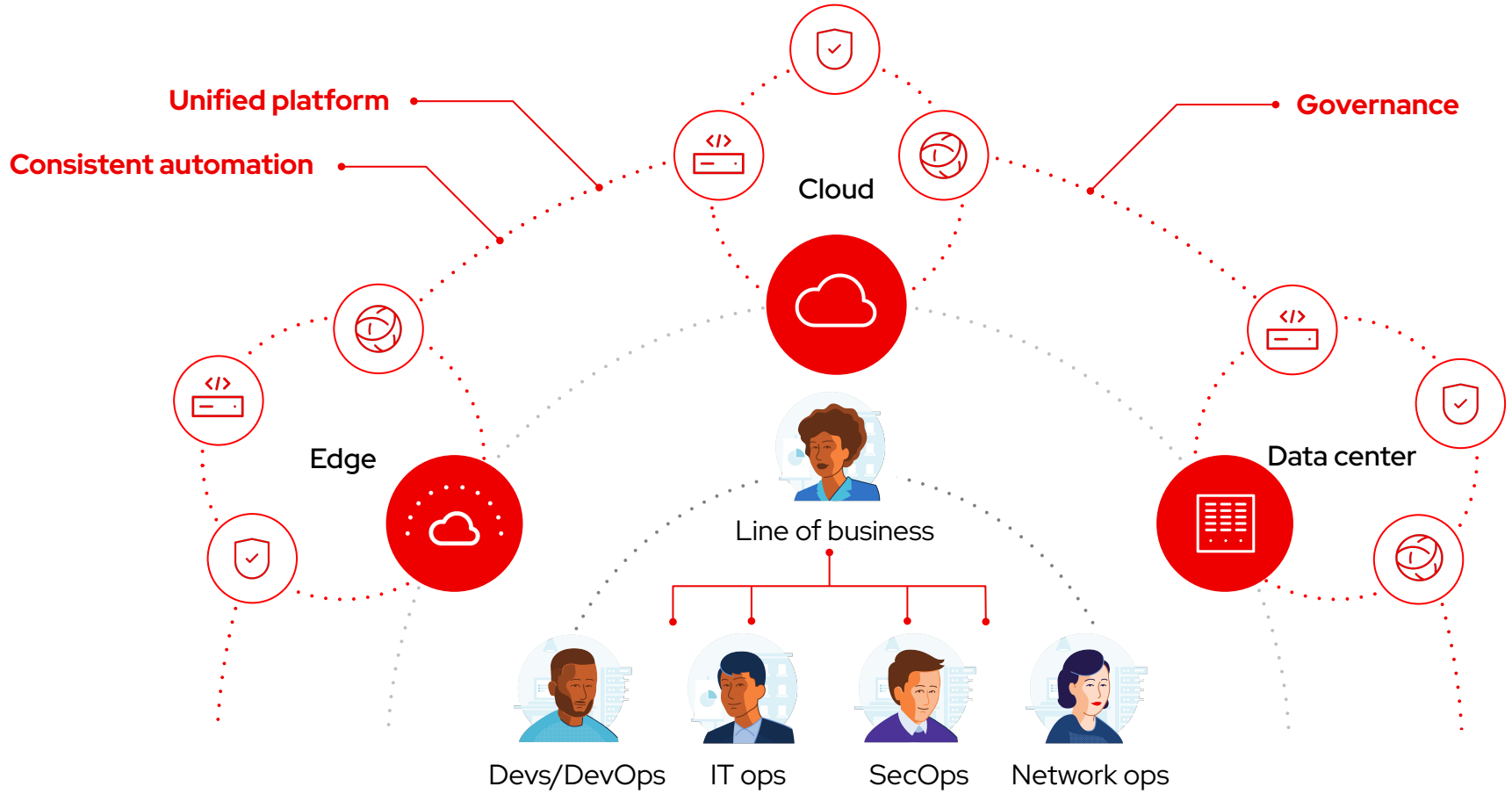
The solution? Break down the silos.



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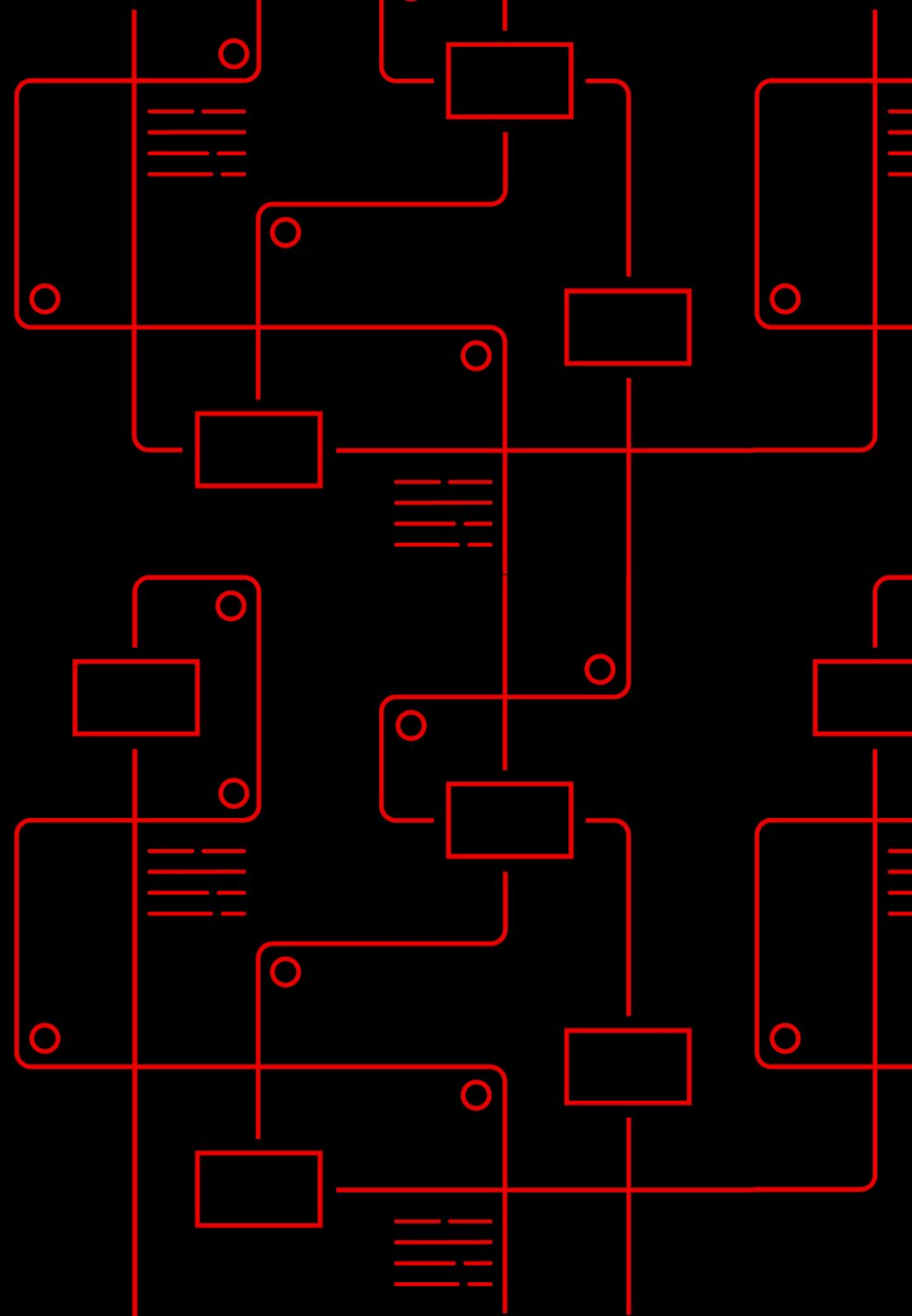
Why Red Hat® Ansible® Automation Platform?



Supported and certified content you can trust.

150+

Certified Content Collections

55+

Certified technology partners

Infrastructure | Cloud | Network | Security | Edge

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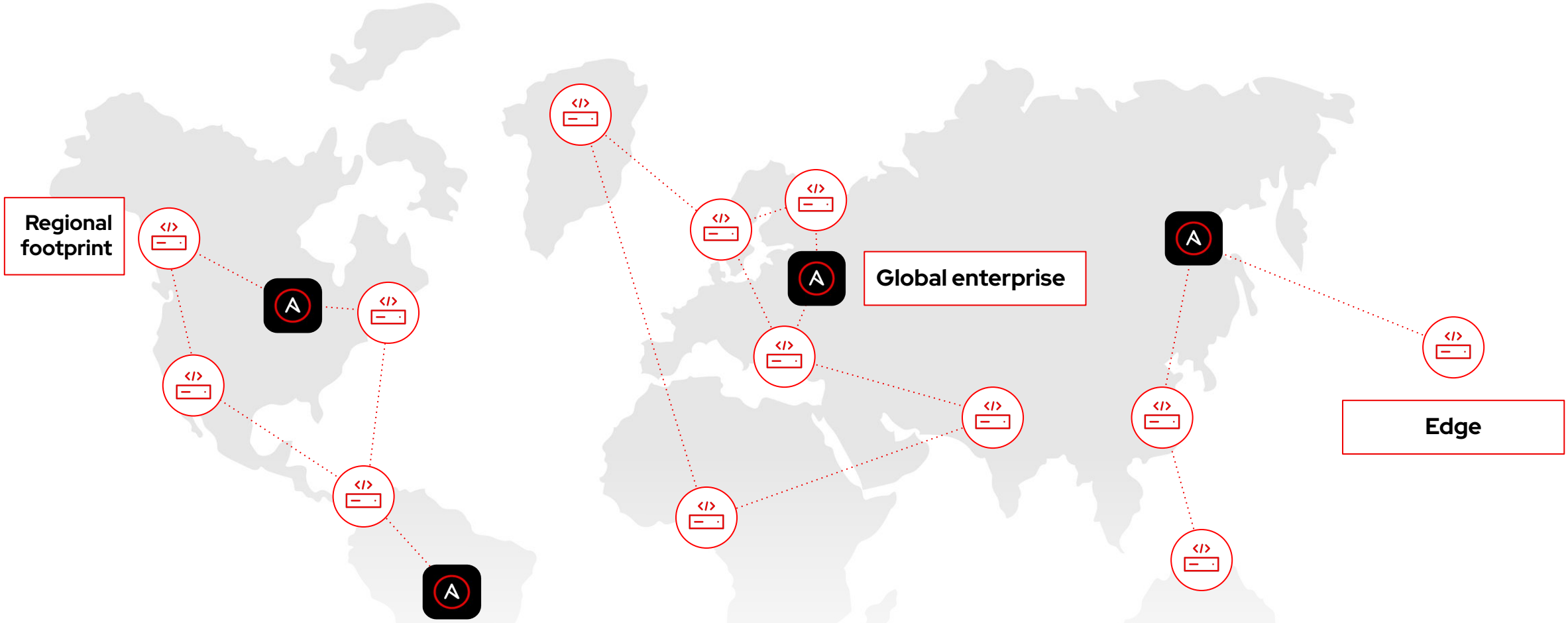
The flexibility to scale, wherever that may be.



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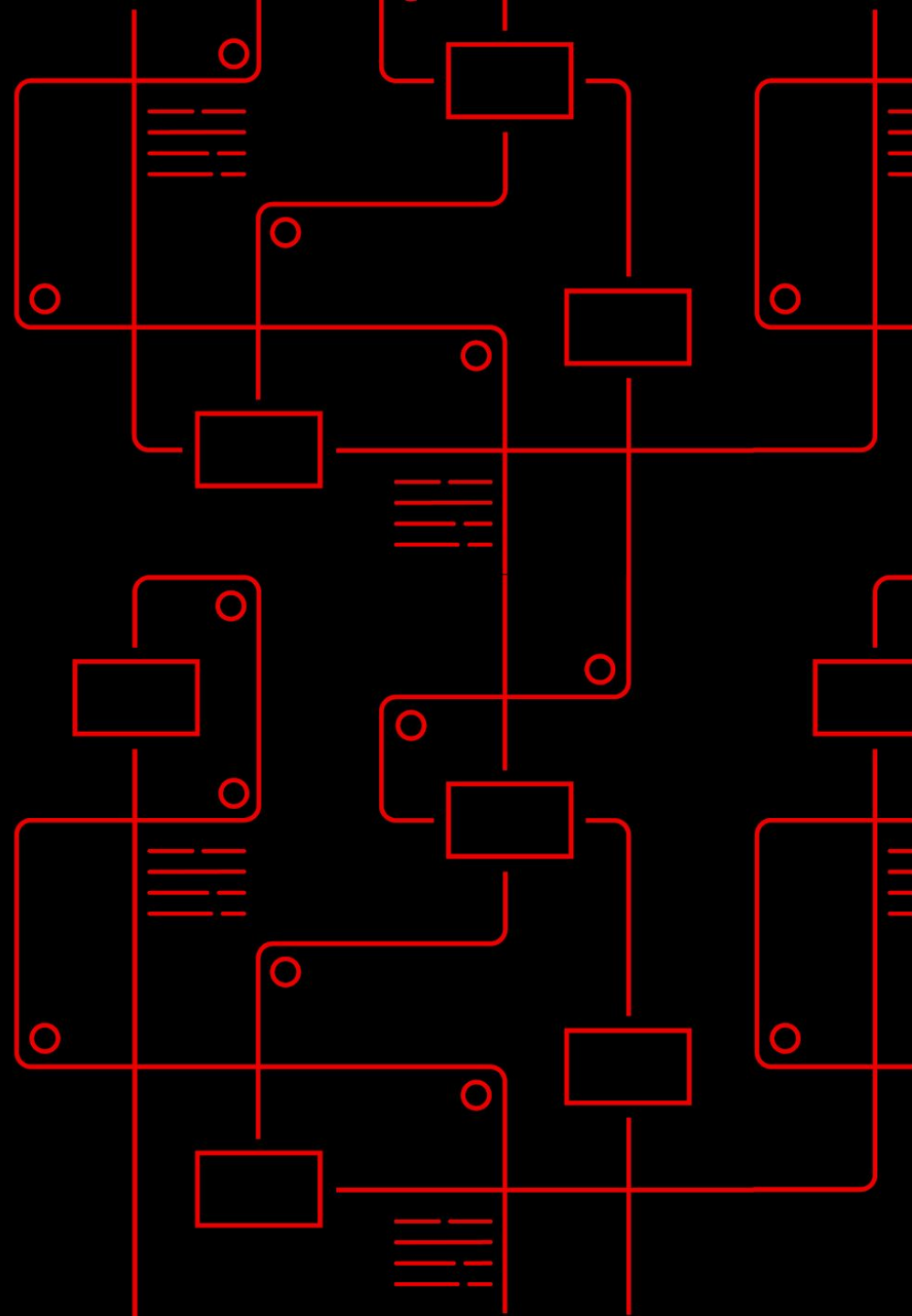
What is Red Hat® Ansible® Automation Platform?



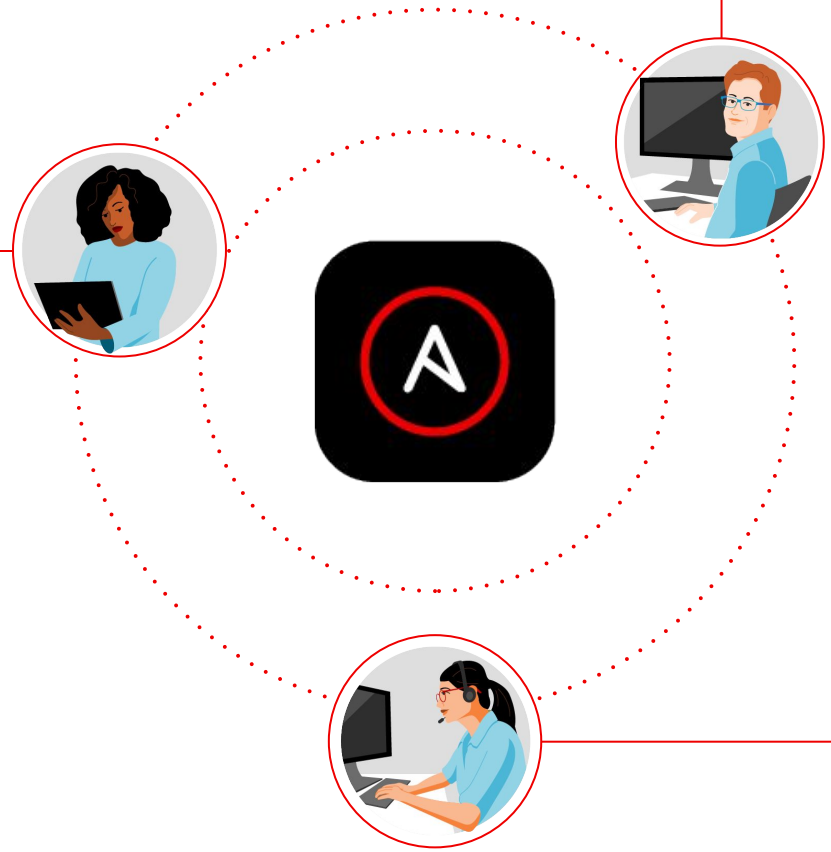
A platform for the entire automation team.

Architecture

Flexible container-native architecture

Real-time analytics and reporting

Scale globally with distributed execution across regions



Content creation

Content creation tooling

Portable distribution and reliable execution

Large ecosystem of certified automation

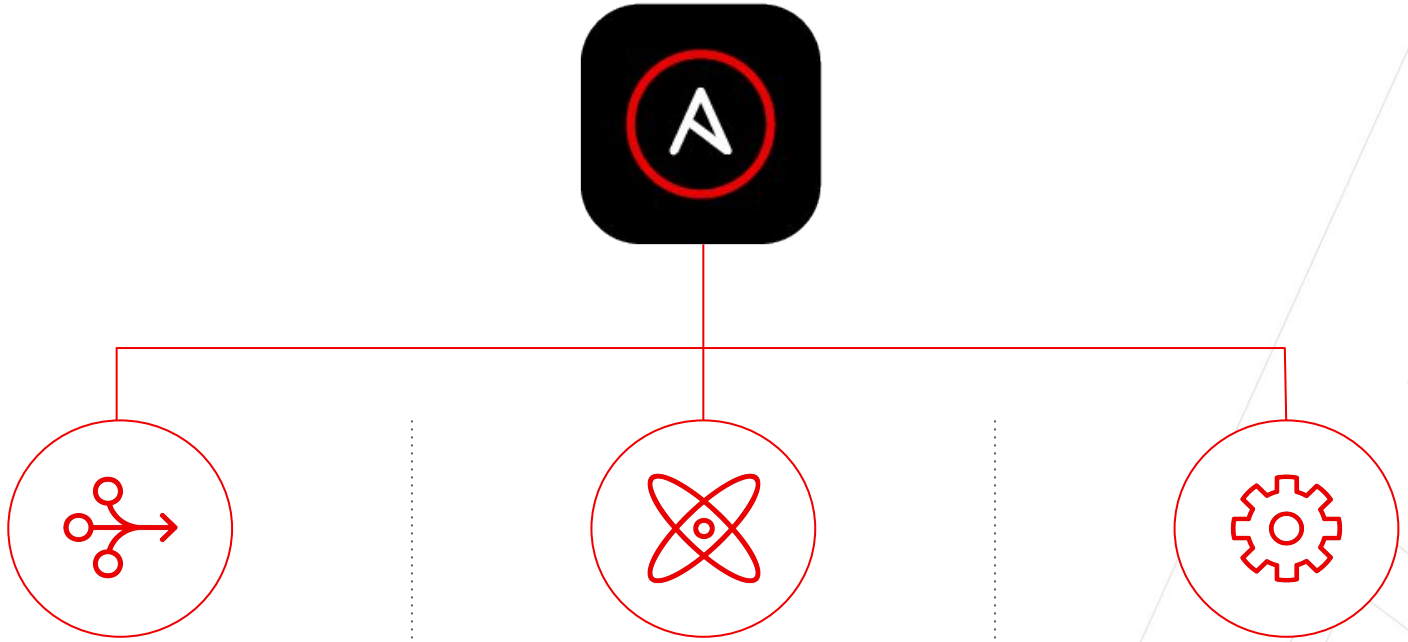
Operations

Enterprise features: WebUI, API, role-based access control (RBAC), auditing and workflows for managing at scale

Hosted and private content management solutions

Integrates with your environment

Ansible is the de facto automation language.



Simple

Human-readable language with quick adoption

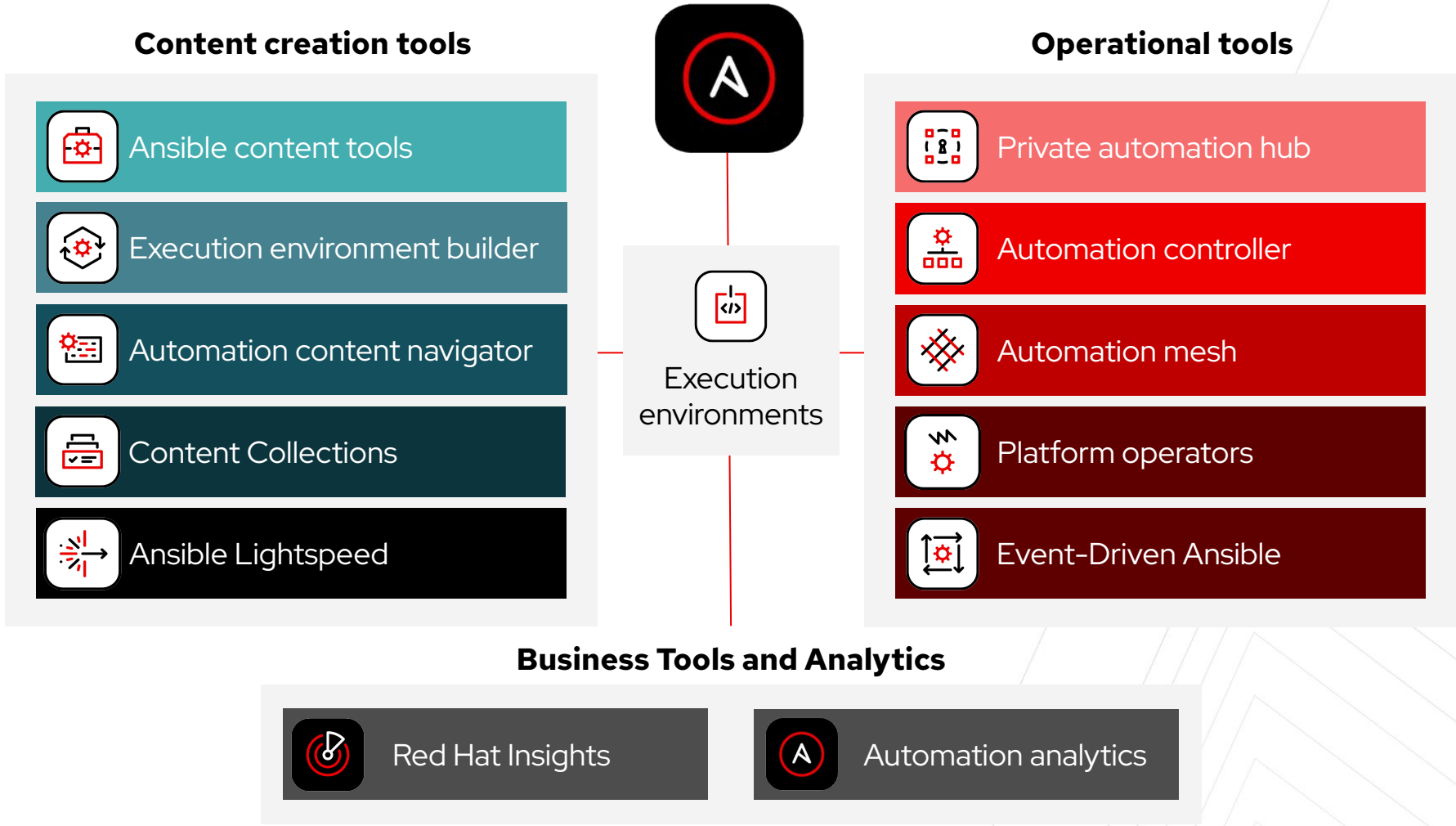
Powerful

Universal language spanning multiple IT domains

Agentless

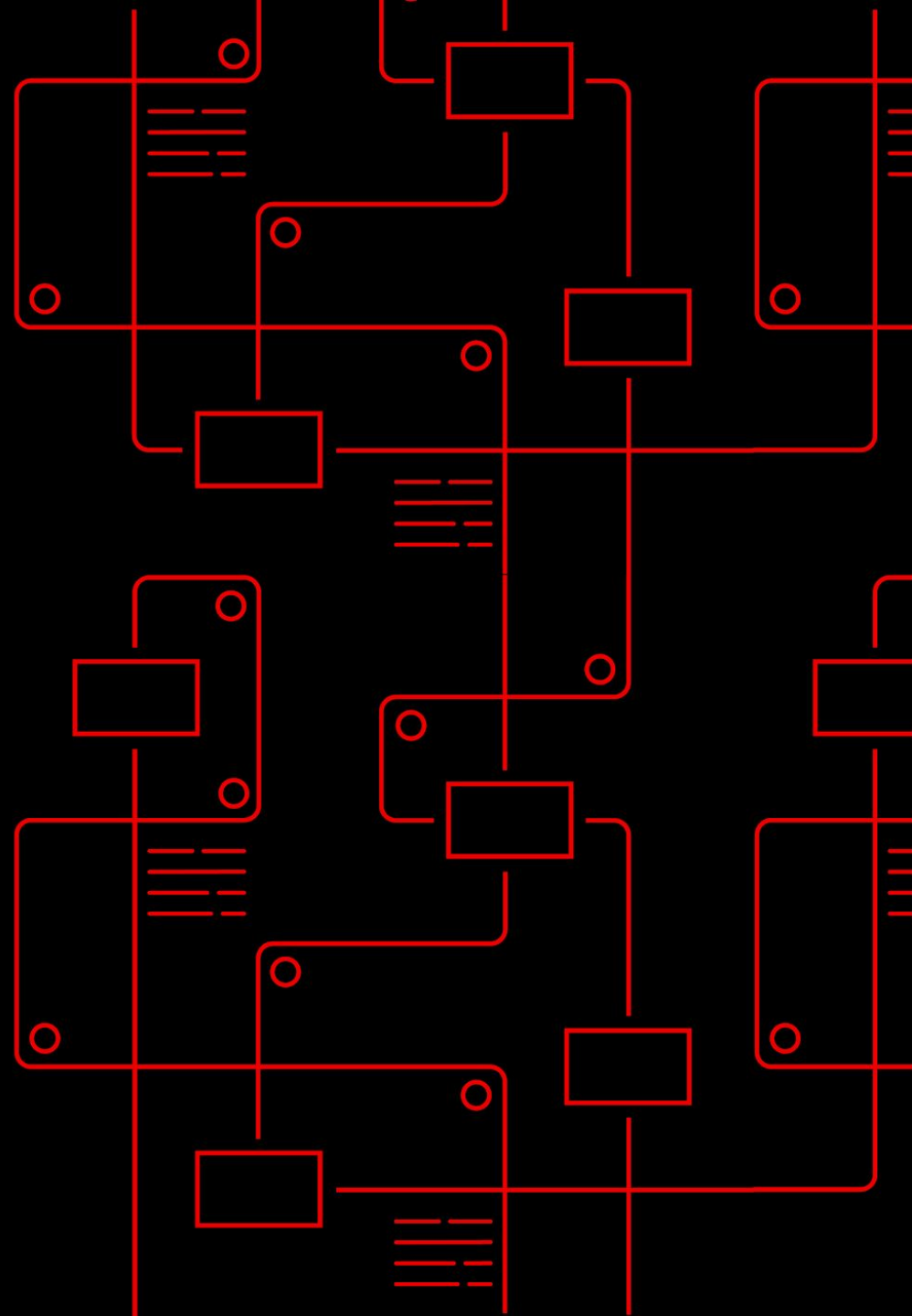
Easily integrate with hybrid environments

An integrated solution for the enterprise.



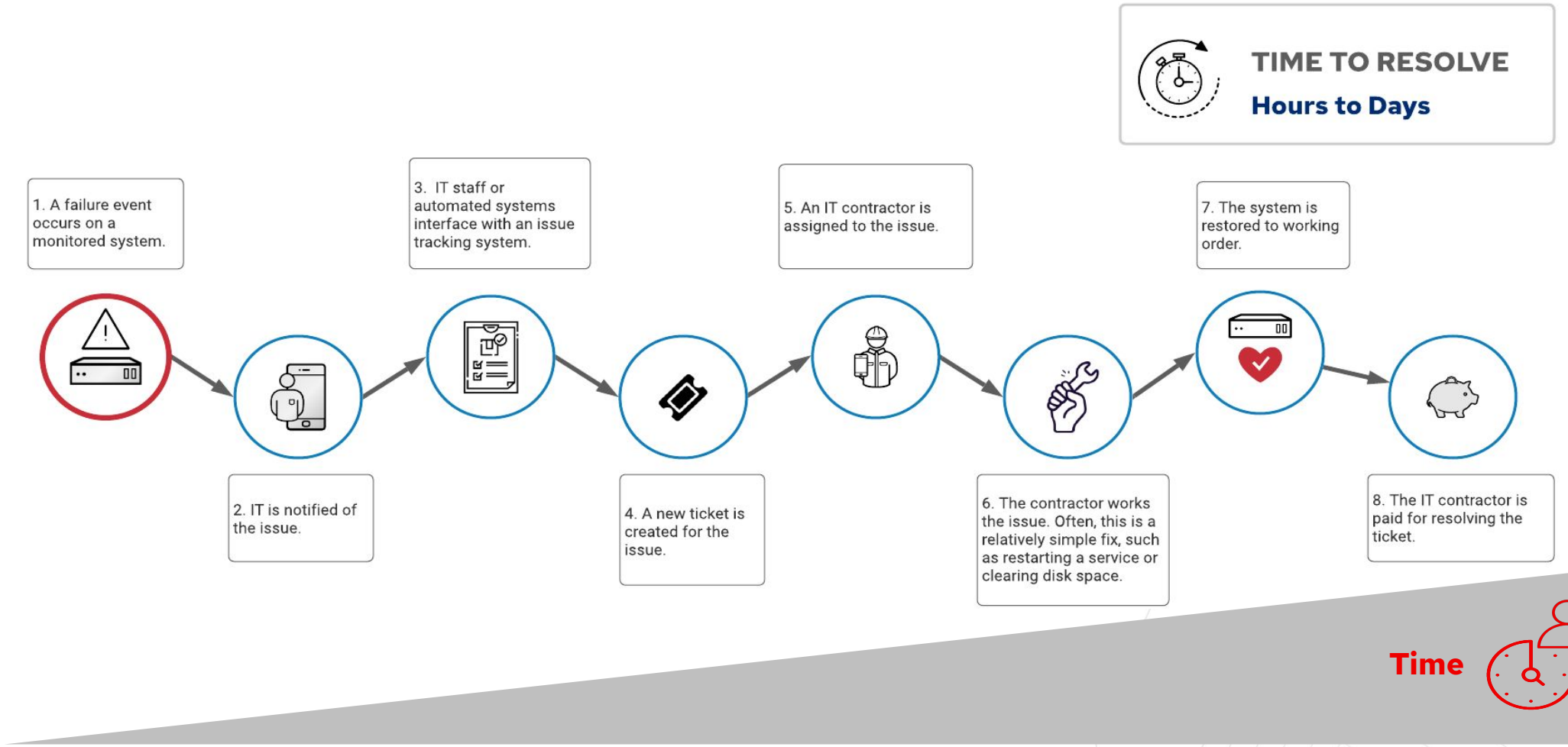
** Ansible Lightspeed with IBM watsonx Code Assistant is available as non-supported technical preview.*
https://access.redhat.com/articles/7016058

Event Driven Ansible



Example manual workflow: remediating issue on managed system

Time is spent on toil and churn



Event-Driven Ansible

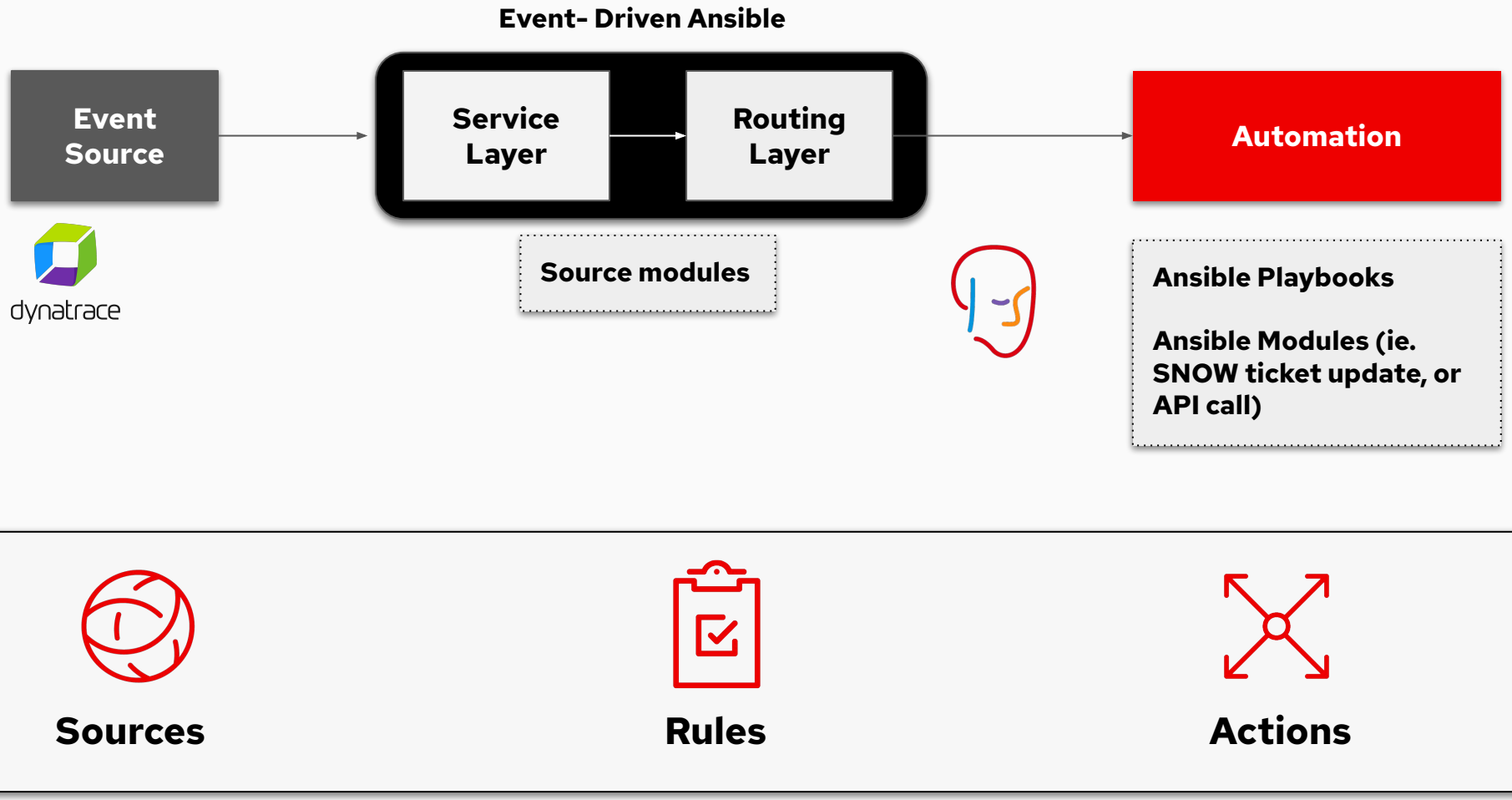
Automate decision making

Leverage numerous sources of events

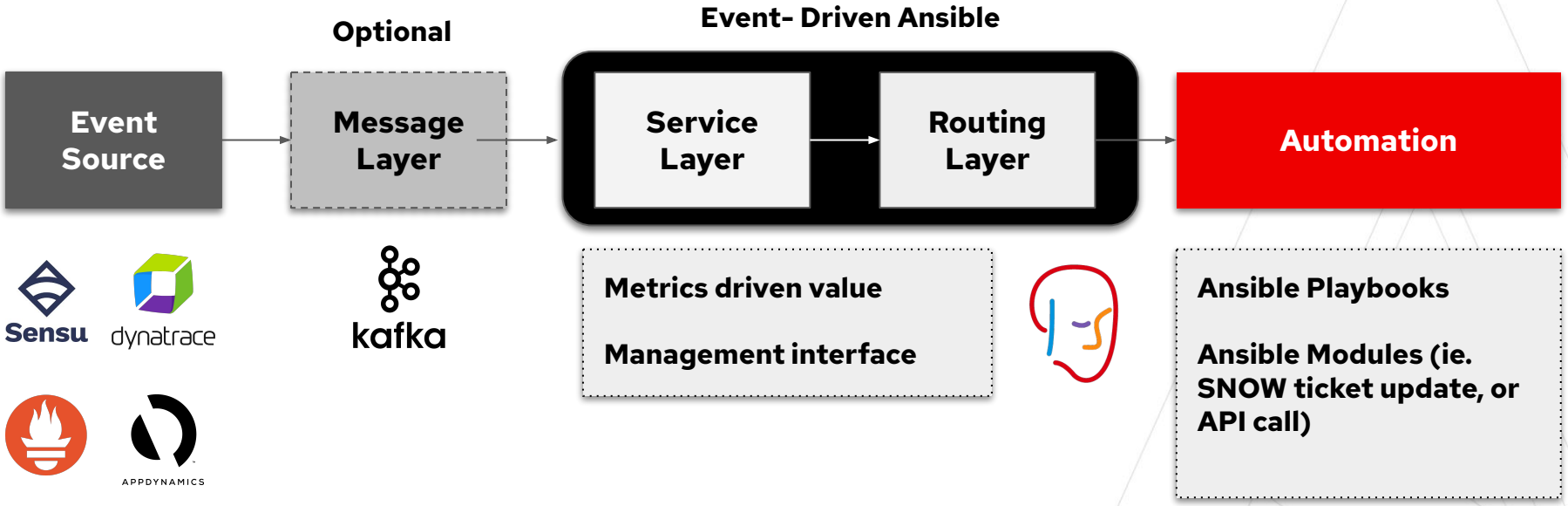
Implement event-driven automation within and across multiple IT use cases

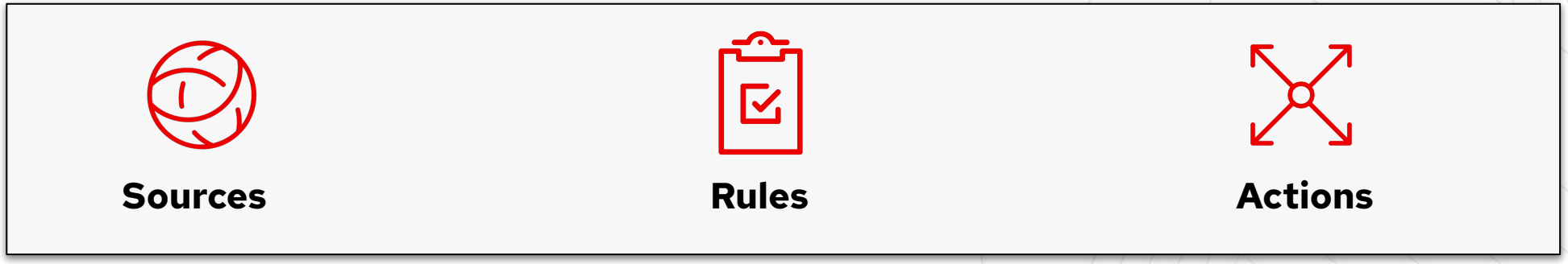
Achieve new milestones in efficiency, service delivery excellence and cost savings

Execution layers of Event Driven Automation without messaging layer



Execution layers of Event Driven Automation





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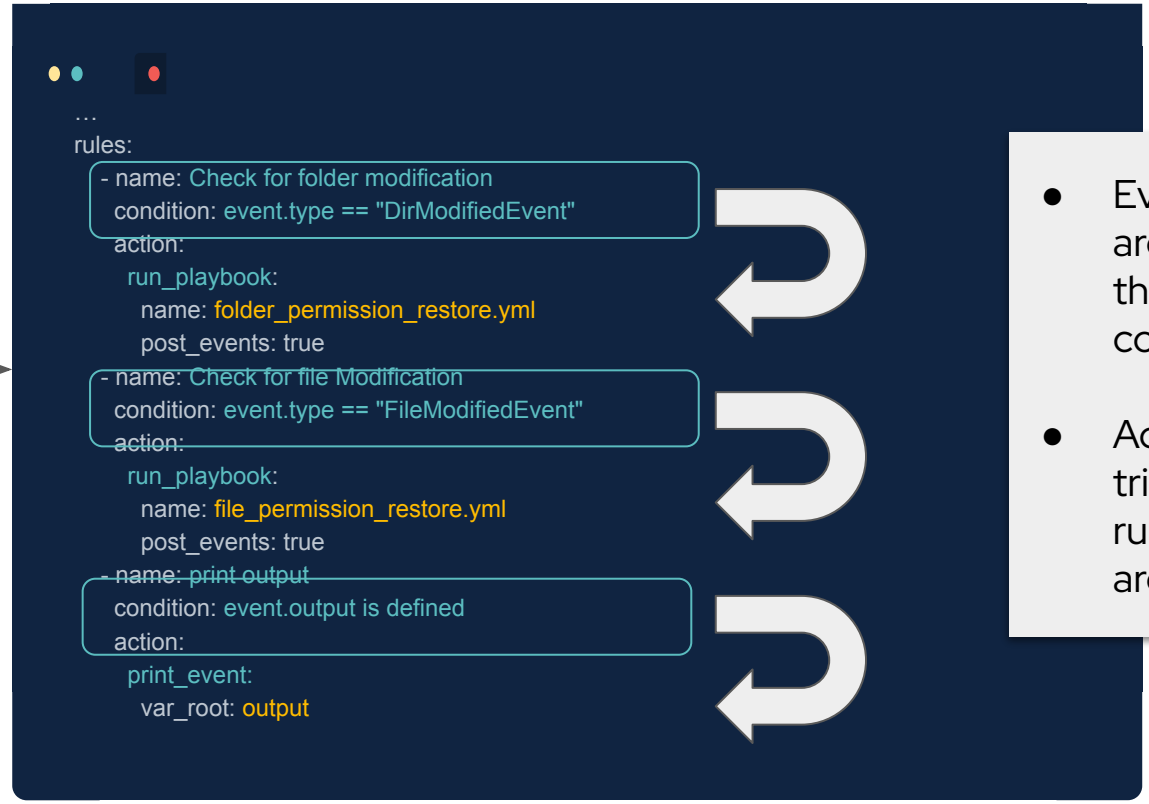
How does Ansible handle rules processing?

Smart automation from conditional rules

Event Source



- Event sources are processed through conditional rules
- Actions are triggered once rule conditions are met

Automation

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Event-Driven Ansible is Use Case-Friendly

Apply to any of your IT domains for full automation of key tasks

Networking

- Basic network troubleshooting tasks
- Remediate configuration issues based on port events
- Infrastructure awareness based on routing events

Edge

- Remediate application deployment issues
- Trigger edge app redeployments
- Automate application scaling

Cloud

- Trigger cloud estate check from instance creation events
- Automate remediation tasks from service bus events

Infrastructure

- Escalate Infrastructure issues for improved observability
- Ensure compliance post change events

Security

- Automate log enrichment from a security event.
- Automate security responses from incidents.
- Escalate events for human intervention

Applications

- Allow applications to trigger remediation of issues from patterns
- Enrich healing capabilities of applications and their dependencies.

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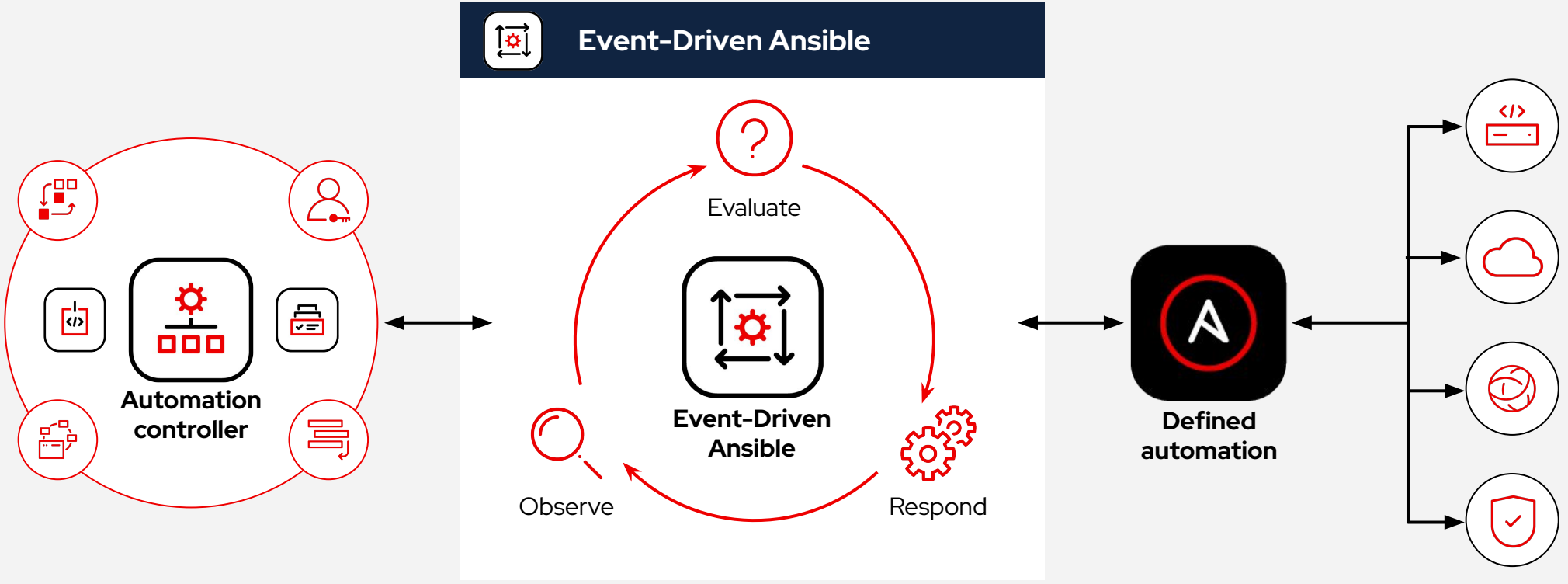
Event-Driven Ansible. Observe, evaluate, respond.



Ansible Rulebooks

```yaml
---
- name: Capture alertmanager alerts
  hosts: all
  sources:
    - ansible.eda.alertmanager:
        host: 0.0.0.0
        port: 5050
        data_alerts_path: alerts
        data_host_path: labels.instance
        data_path_separator: .
        skip_original_data: true

  rules:
    - name: SELinux was disabled
      condition: event.alert.labels.alertname == "selinux disabled" and
                 event.alert.status == "firing"
      action:
        run_job_template:
          name: Apply baseline
          organization: Default
          job_args:
            limit: "{{ event.meta.hosts }}"
```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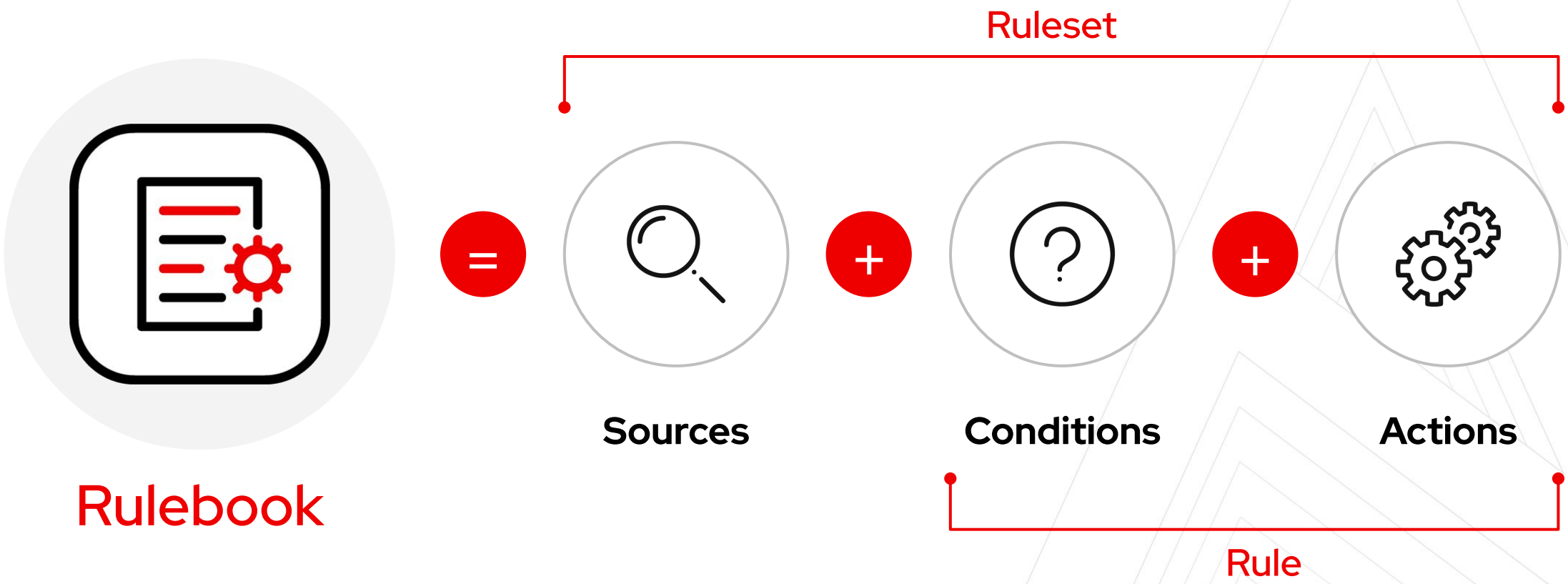
What makes up an Ansible Rulebook?



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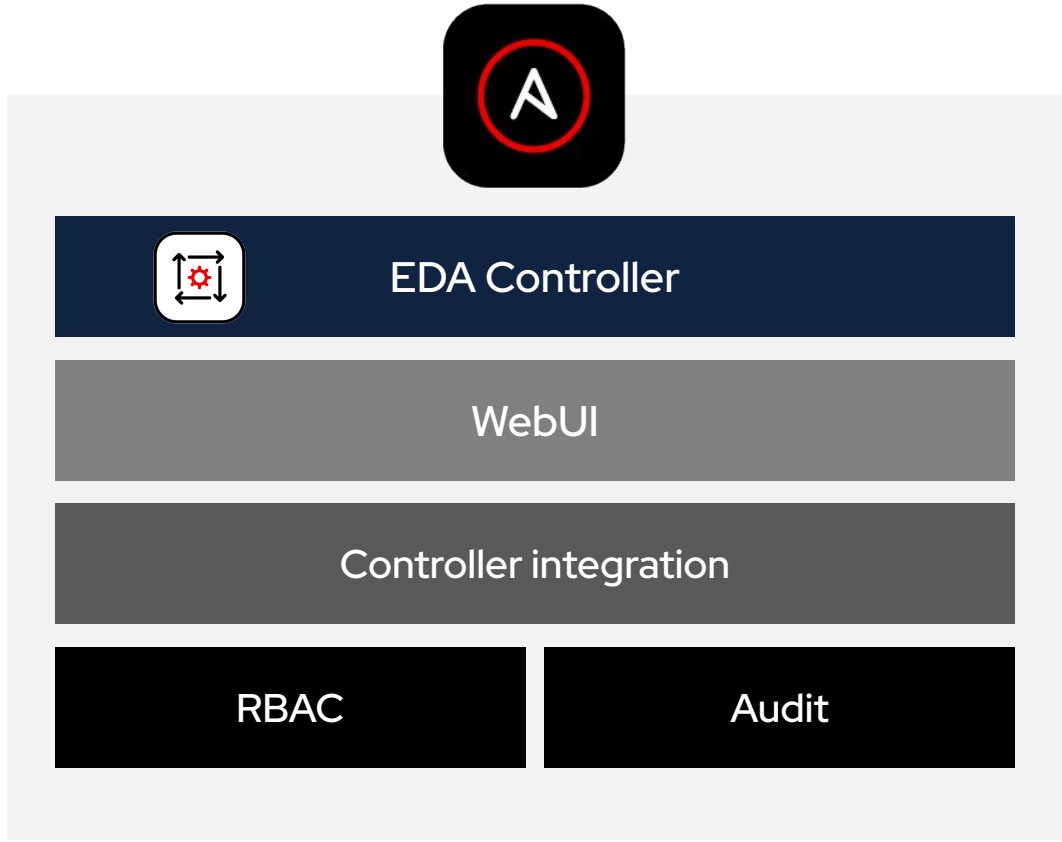
Event-Driven Ansible controller. Define and manage.

What is it?

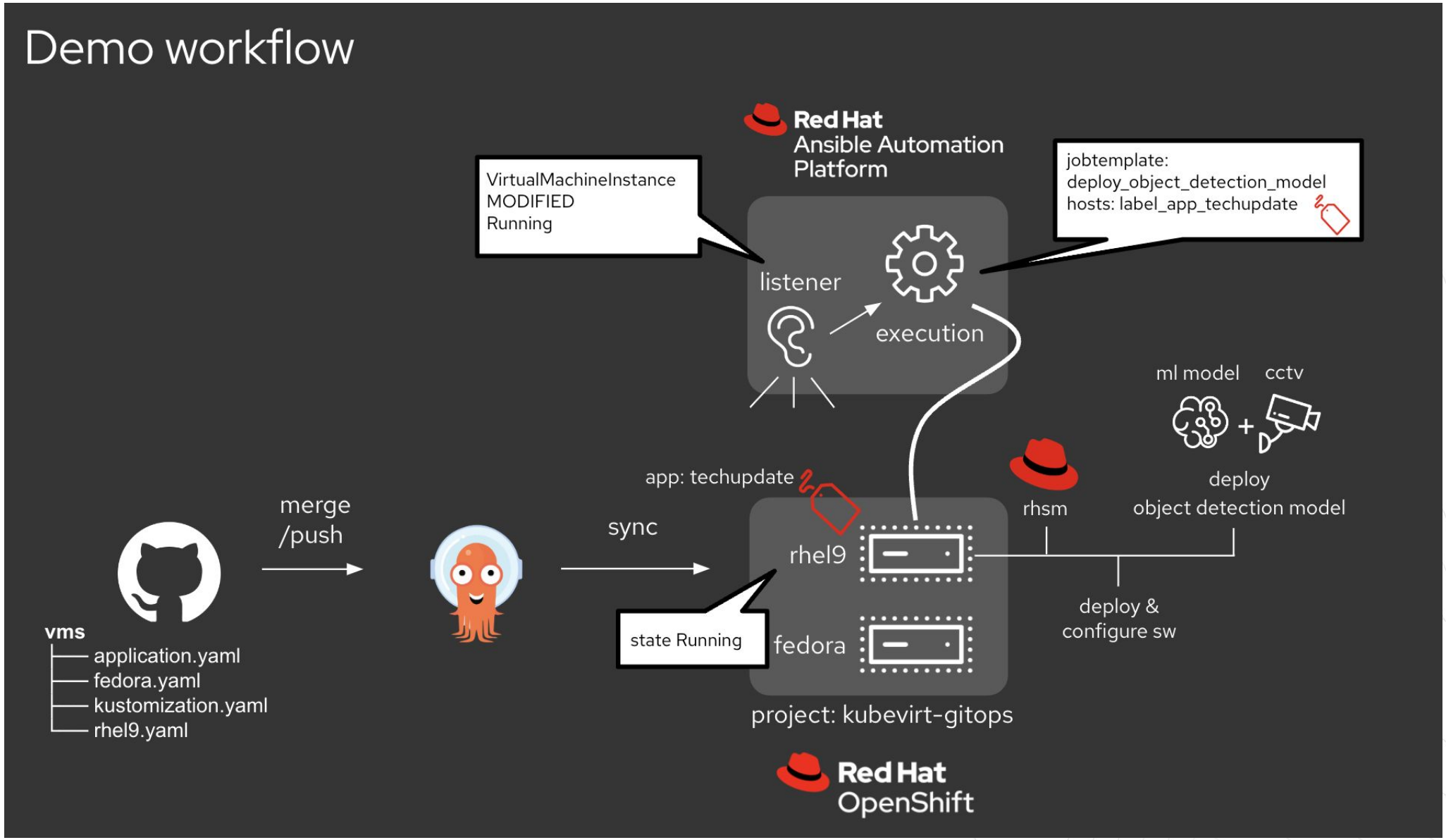
- EDA Controller enables users to centrally manage Event-Driven Ansible across the enterprise.

EDA controller provides:

- WebUI.
- Rulebook activation.
- Role-based access control.
- Auditing trail.
- Secure automation controller integration.



Demo workflow



Thank you

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