# Unlock your automation advantage with AAP 2.5

Red Hat Ansible is becoming increasingly mission-critical for customers who rely on automation to bridge skills gaps, tame operational complexity across the enterprise, and mitigate costly tool sprawl.
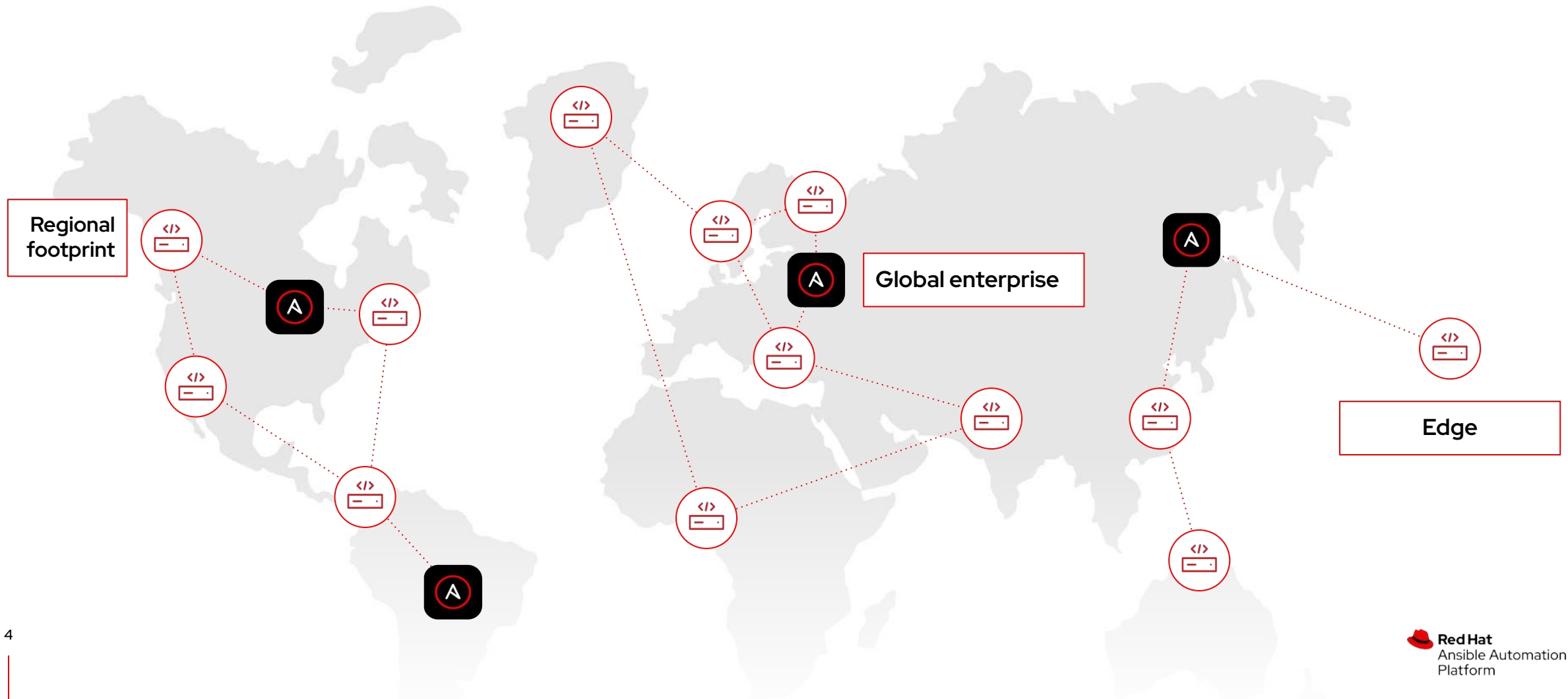
Our goal with Red Hat Ansible Automation Platform 2.5 is to make it easier for every customer to fully unlock the potential of automation to transform IT - and deliver strategic advantages to the business.

This latest release is engineered to help our customers:

> **Accelerate automation adoption at scale,** with a reimagined automation platform experience, new features for enhanced usability, and tools for more effective collaboration and coordination.

> **Empower automation engineers,** with integrated developer tooling and generative AI capabilities designed to bolster ease and efficiency for a range of skill sets and experience across the entire automation creation lifecycle.

> **Orchestrate across the enterprise,** with event-driven automation capabilities that make intelligence from other tools more actionable, along with a robust ecosystem of integrations that put true end-to-end automation within reach.
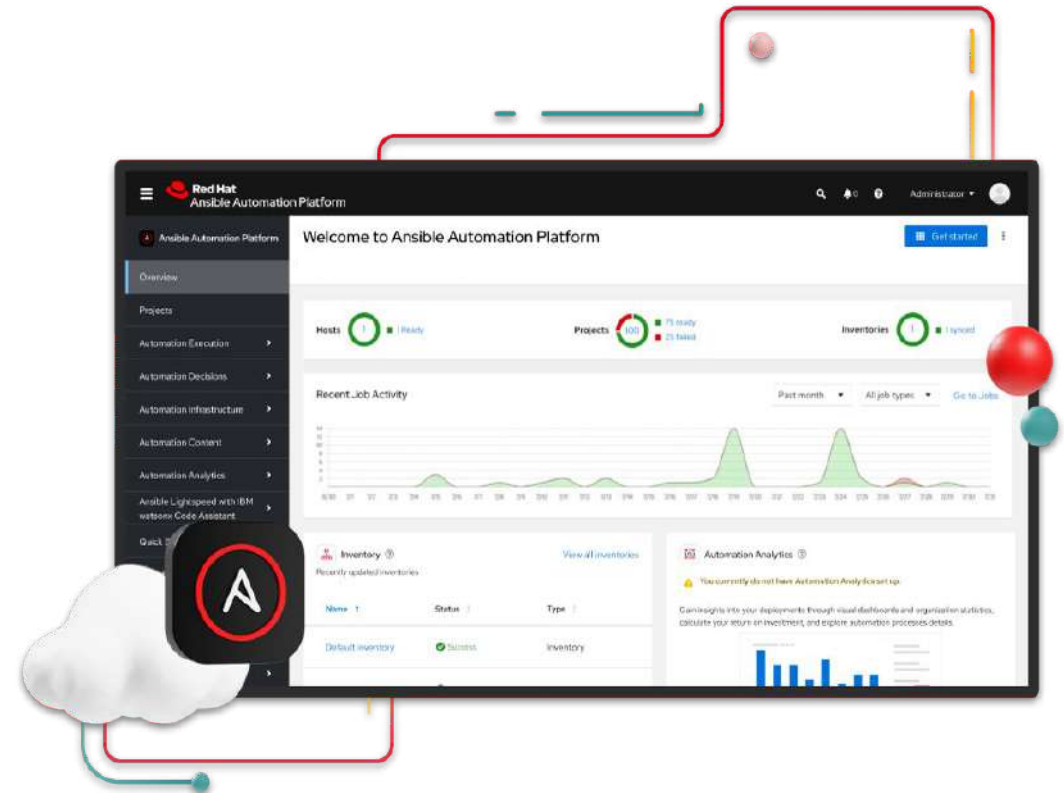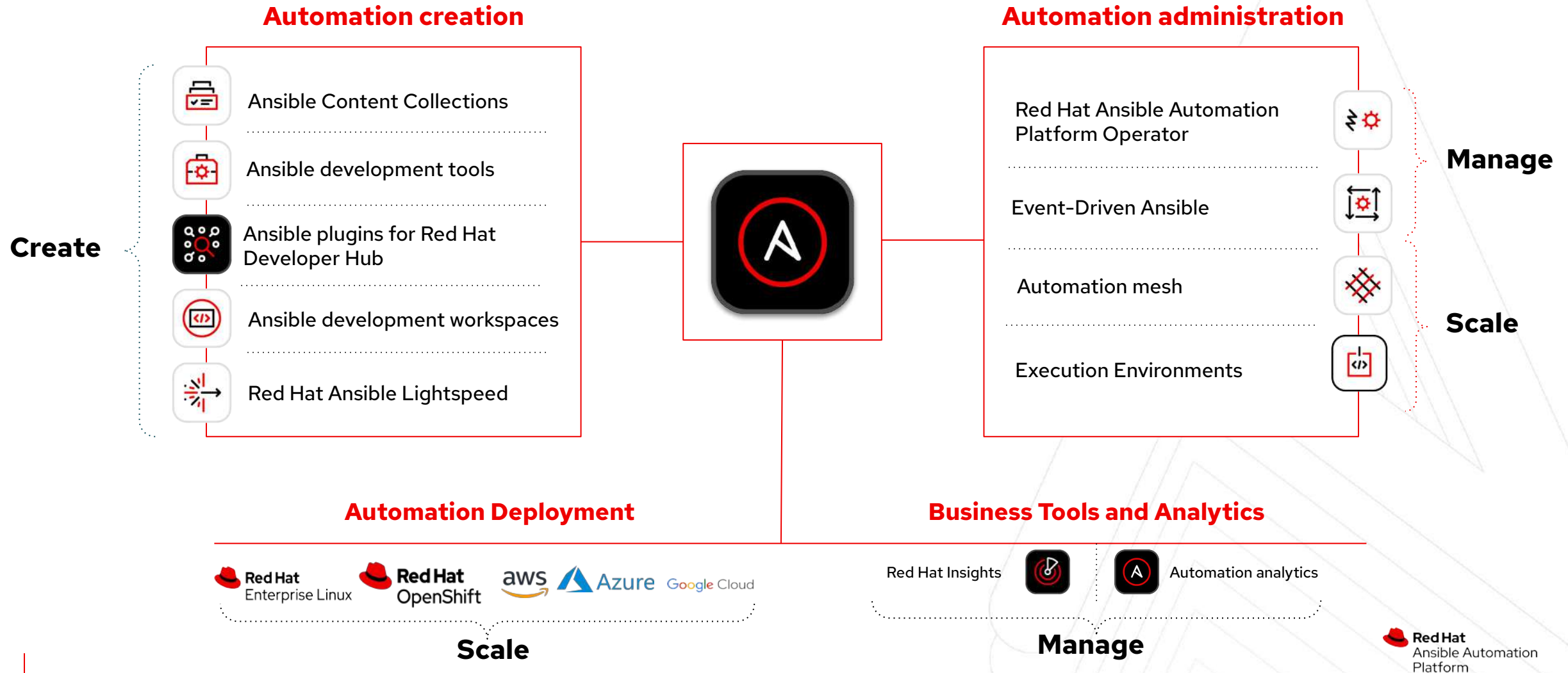
The flexibility to scale, wherever that may be.

Regional footprint

Global enterprise

Edge

Red Hat
Ansible Automation
Platform

What is Red Hat® Ansible® Automation Platform?

An integrated solution for the enterprise.

Automation creation

Create

- Ansible Content Collections
- Ansible development tools
- Ansible plugins for Red Hat Developer Hub
- Ansible development workspaces
- Red Hat Ansible Lightspeed

Automation administration

- Red Hat Ansible Automation Platform Operator
- Event-Driven Ansible
- Automation mesh
- Execution Environments

Manage

Scale

Automation Deployment

Red Hat Enterprise Linux · Red Hat OpenShift · aws · Azure · Google Cloud

Scale

Business Tools and Analytics

Red Hat Insights · Automation analytics

Manage

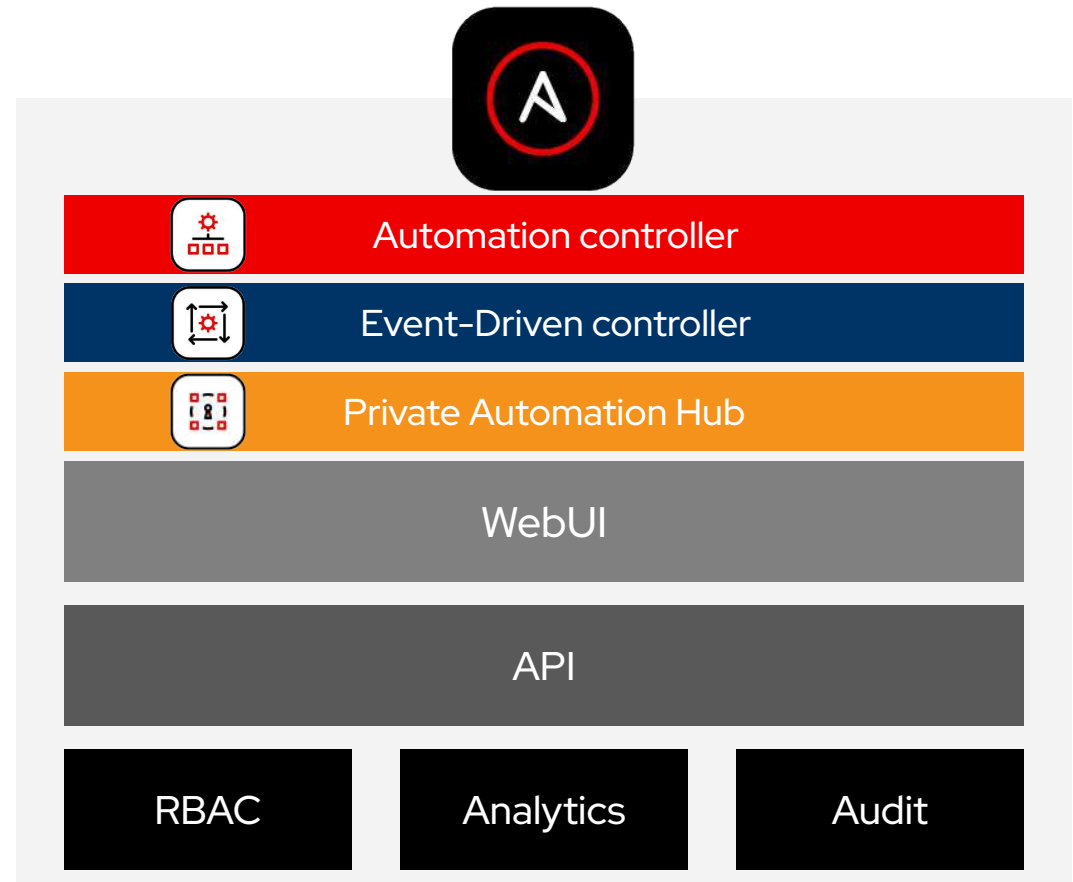Red Hat Ansible Automation Platform

New unified UI for a more cohesive platform experience

What is it?

The unified UI in Ansible Automation Platform delivers a seamless and consistent experience for operators, developers, and platform administrators to manage automation across their enterprise.
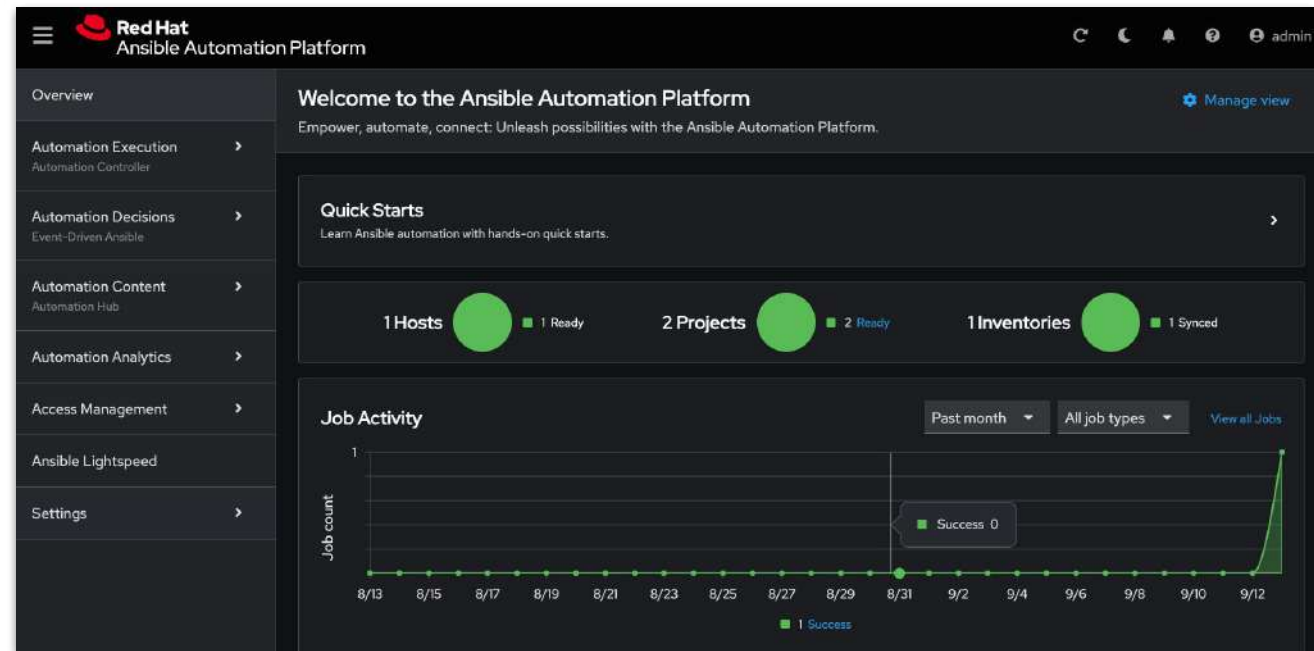
Unified UI provides:

▸ Centralized control

▸ WebUI and API

▸ Role-based access control

▸ Centralized logging

▸ Credential management

▸ Ansible analytics integration

| Automation controller |
| Event-Driven controller |
| Private Automation Hub |
| WebUI |
| API |

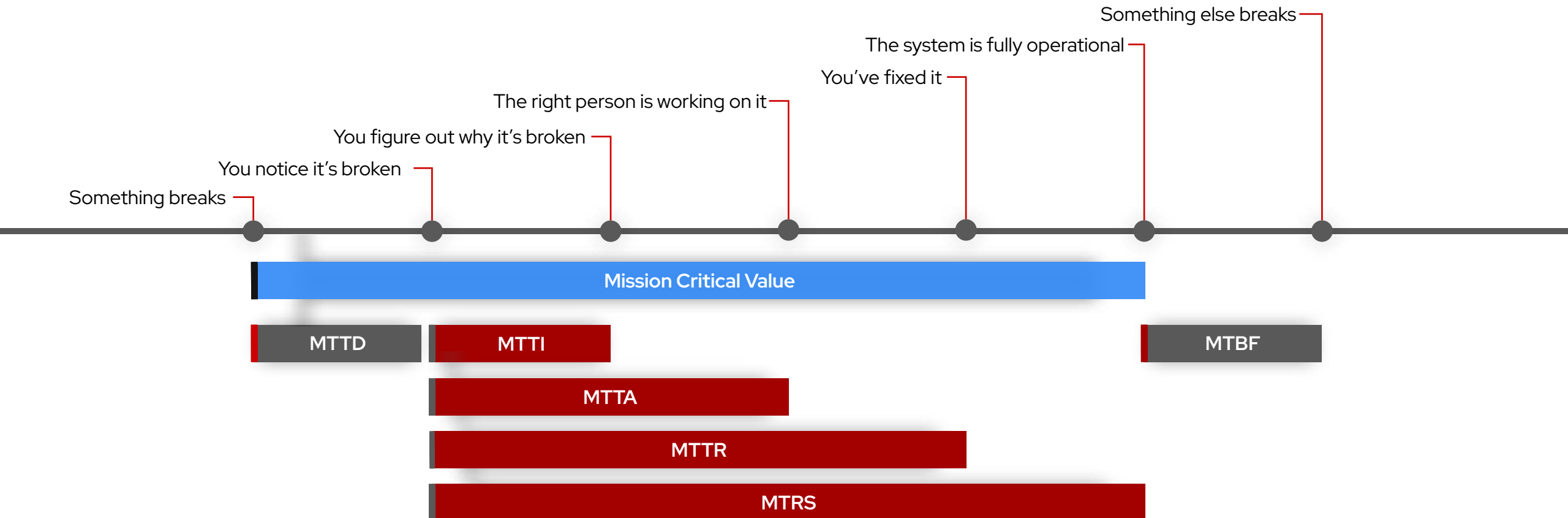| RBAC | Analytics | Audit |

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Platform
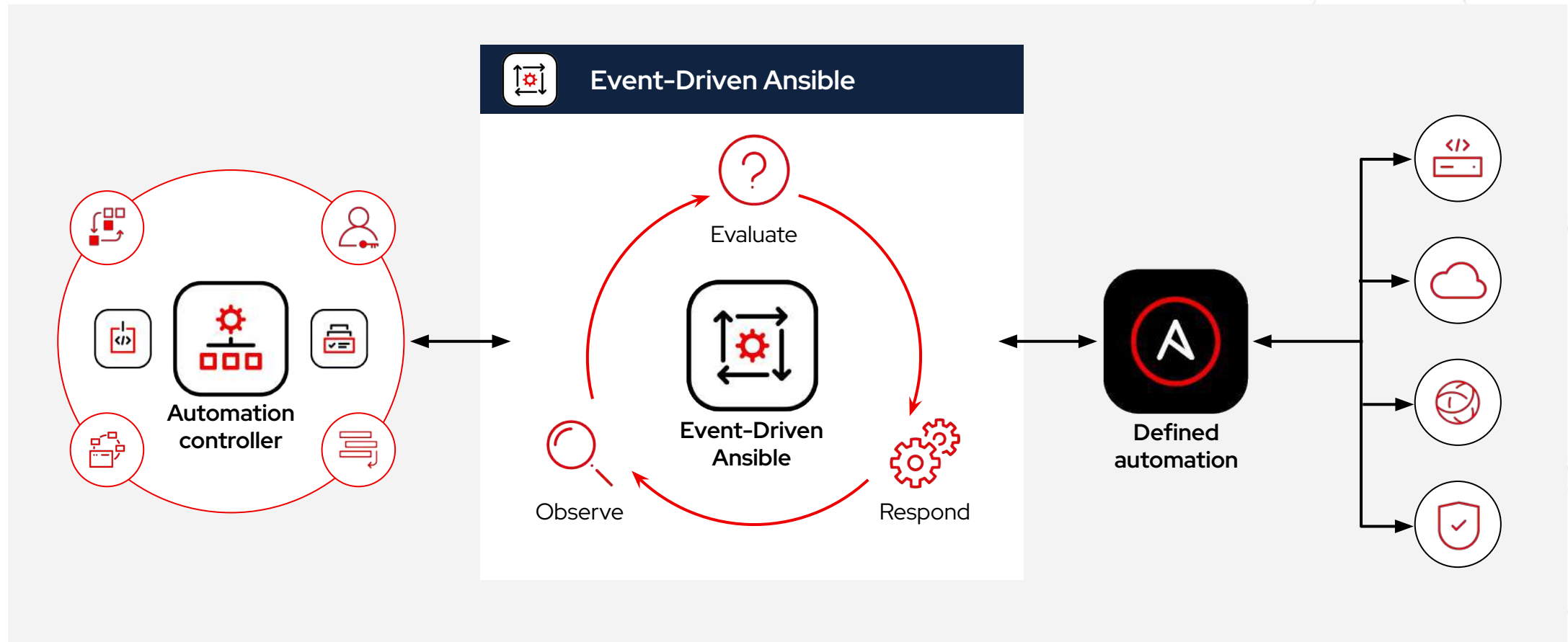
New unified UI for a more cohesive platform experience

> A new interface that delivers an improved experience for operators, developers and platform administrators, with a more consistent and centralized:
>> WebUI
>> API
>> Authentication and authorization
>> Role based access controls (RBAC)

> Use Ansible Analytics directly within the unified UI to generate reporting at scale.

>> *Automation Calculator*: ROI reporting to demonstrate the value and impact of automation initiatives .

> Upgrades in AAP 2.5 lay the foundation for future enhancements to the Day 2 operations platform experience.

Improving the incident timeline for mission-critical apps and more

Something else breaks

The system is fully operational

You've fixed it

The right person is working on it

You figure out why it's broken

You notice it's broken

Something breaks

Mission Critical Value

| MTTD | MTTI | | | | | MTBF |

MTTA

MTTR

MTRS

MMTD: Mean Time to Detect **MTTI**: Mean Time to Investigate **MTTA**: Mean Time to Action **MTTR**: Mean Time to Repair

MTRS: Mean Time to Restore Service **MTBF**: Mean Time Between Failures **MTBSI**: Mean Time Between Service Incidents

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Event–Driven Ansible. Observe, evaluate, respond.
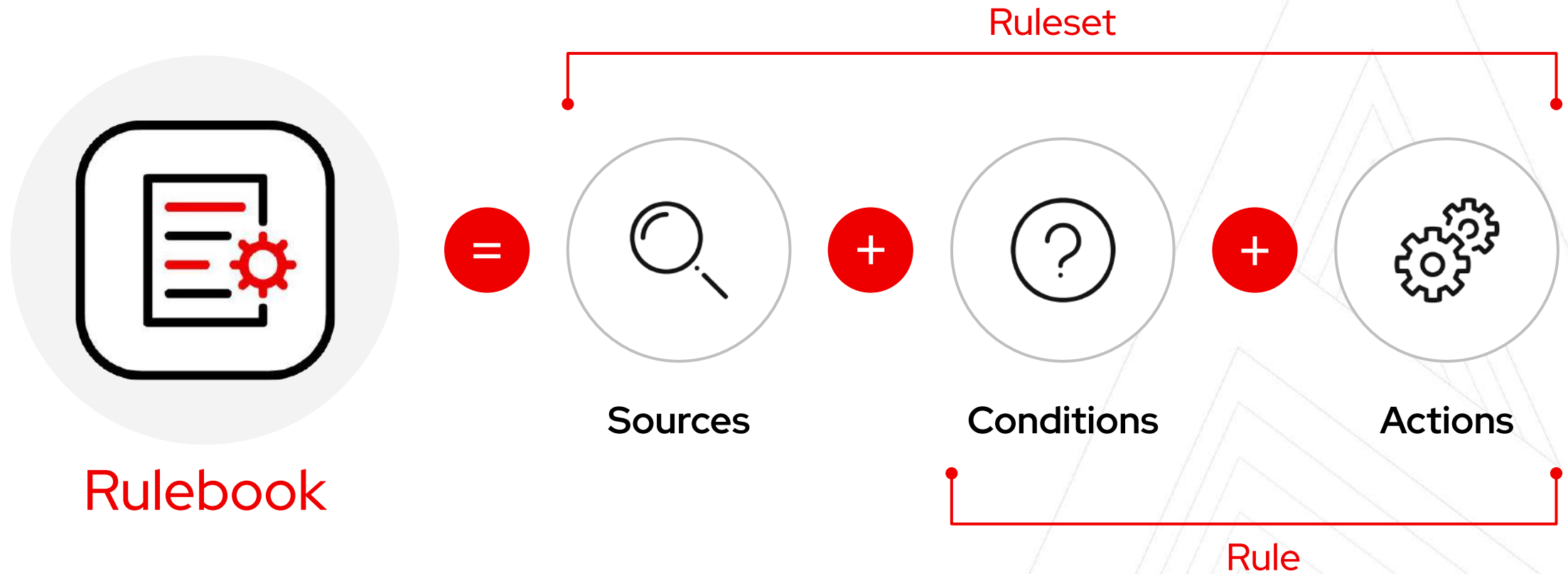
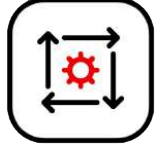# Ansible Rulebooks

```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 }}"
```

What makes up an Ansible Rulebook?

Ruleset

Rulebook = Sources + Conditions + Actions

Rule

# 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.

▸ Event streams

▸ Role-based access control(part of Unified UI).

▸ Auditing trail.

EDA Controller

WebUI

Controller integration

RBAC

Audit

13

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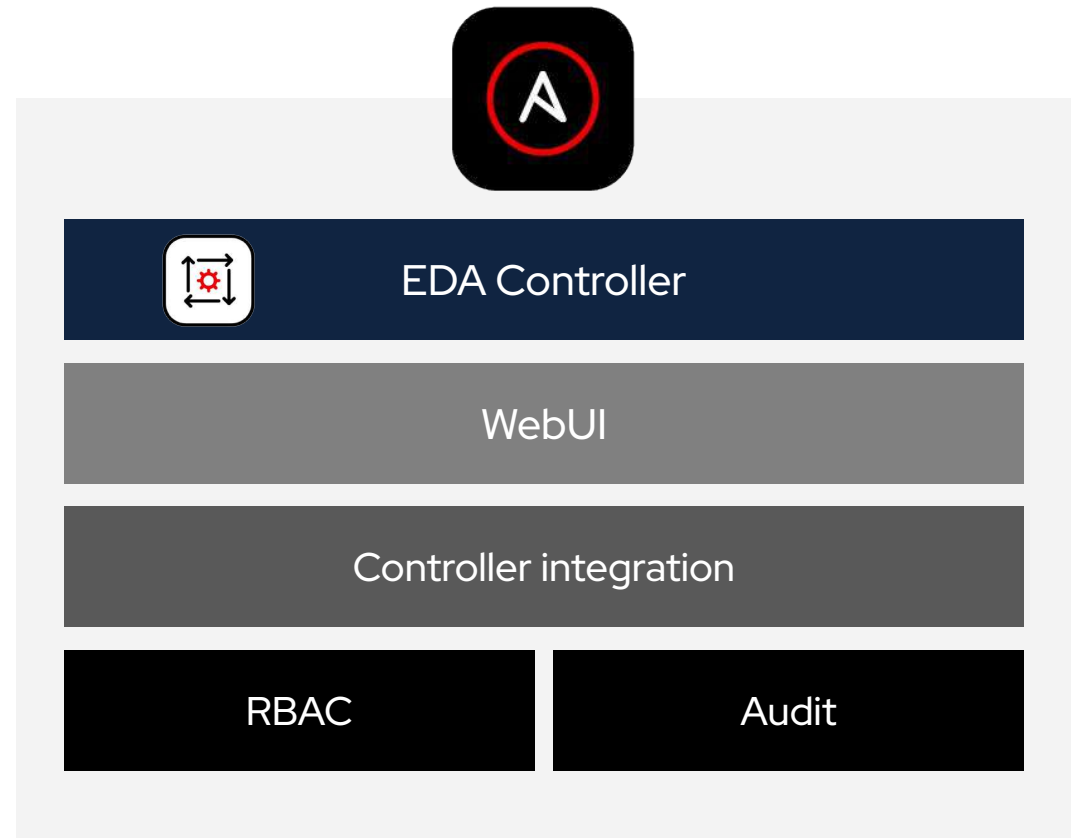
Orchestrate across the enterprise

Advance your automation with the ability to automatically respond to changing IT conditions

Automate at scale
Take on any automation use case, across any IT domain, and tap into the huge ecosystem of Ansible technology partners and integrations

Turn intelligence into action
Event-Driven Ansible helps make your observability tools more actionable, turning events from a variety of sources into automated workflows.

Orchestrate across the enterprise
Make end-to-end automation a reality, with automated workflows that connect across the entire stack, integrate with all of your tooling, and use real-time intelligence from your observability platforms to deliver performance and resilience at scale.

OBSERVE + RESPOND

AUTOMATE

ORCHESTRATE

Event-Driven Ansible | Enterprise enhancements

High availability + scalability
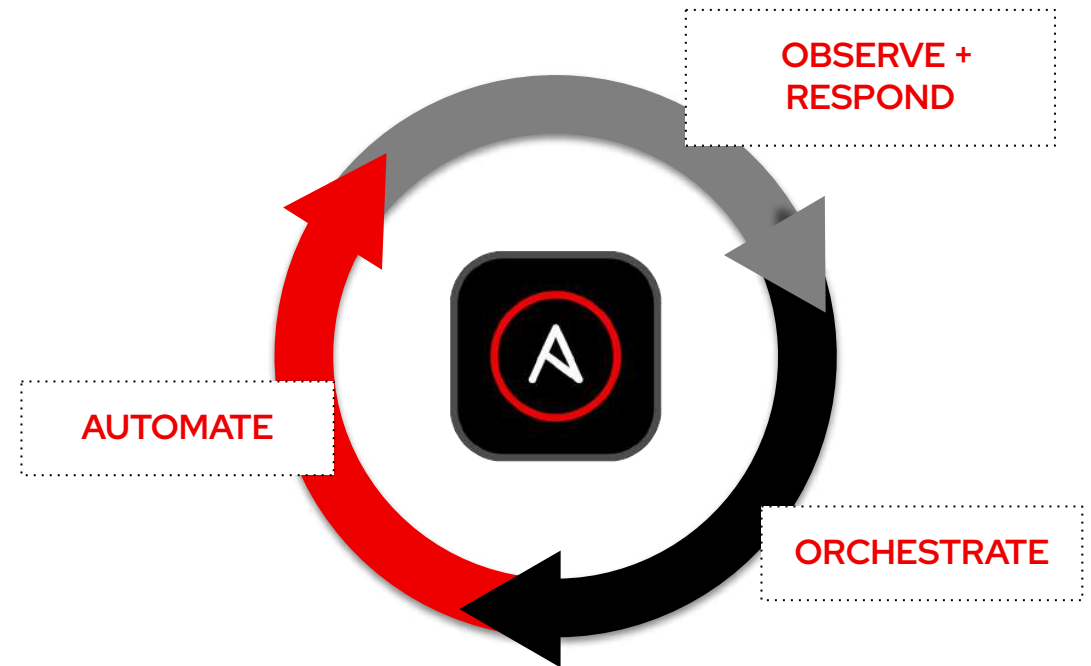
> Increased resiliency through Active/Active failover between multiple deployments

> Easily configurable via bundled installer or OpenShift Operator

Credential management

> Enterprise Credential Management for securing Event Sources.

> Encrypted Credentials can be passed to Event Sources or Event Streams can be configured with Credentials to secure event authentication.

Integrated platform experience

> Event Driven Ansible is now a fully integrated Ansible Automation Platform component.

> Leverages platform features such as Unified UI, Centralized RBAC, Single-Sign On and 3rd Party Authentication like LDAP.
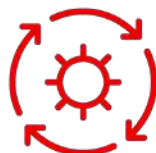
Some Use Cases

TLS Certificate Lifetimes Will Officially Reduce to 47 Days

Certificate Renewal and Rotation

Unsecure Access
Check to see if certificates are valid across all servers

Automate Certificate Lifecycle
If a certificate is invalid or expired. Contact the certificate authority and renew certificate

Install Certs Automatically
If a new server is provisioned without a cert. Check and install new valid cert of server

Update tasks within ITSM
When a certificate is found to be invalid or missing. Open ticket in ITSM instance, update ticket with what was done, and close ticket.

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Self Healing Services

Web Service Is Not Responding
Through a log from one of our many intelligence sources a web service is found to be down.

Ticket In ITSM Is Opened
Rulebook initiates the action to open a ticket in the ITSM system of the customer

Web Service Restarted
Web service is restarted, and verified to come back up to a functioning state

Ticket In ITSM Is Updated And Closed
ITSM ticket is updated with status, and automatically closed

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Auto-Scaling for Hybrid Cloud

Application Needs To Scale During Peak Usage Times
During Peak Usage times, such as Christmas season for retailers, applications need to be able to scale on demand

Event Driven Ansible Rises To the Occasion
Event Driven Ansible gets a notification of resource constraint. Opens a ticket in ITSM

Increases Servers/Resources
Depending on the need, Event Driven Ansible can increase the affected resource contention in the server. If that is not enough, then a rulebook can be created to instantiate a fully populated new VM

Problem Is Resolved
Ticket is updated in ITSM instance. Event Driven Ansible continues to listen for new issues of server scaling
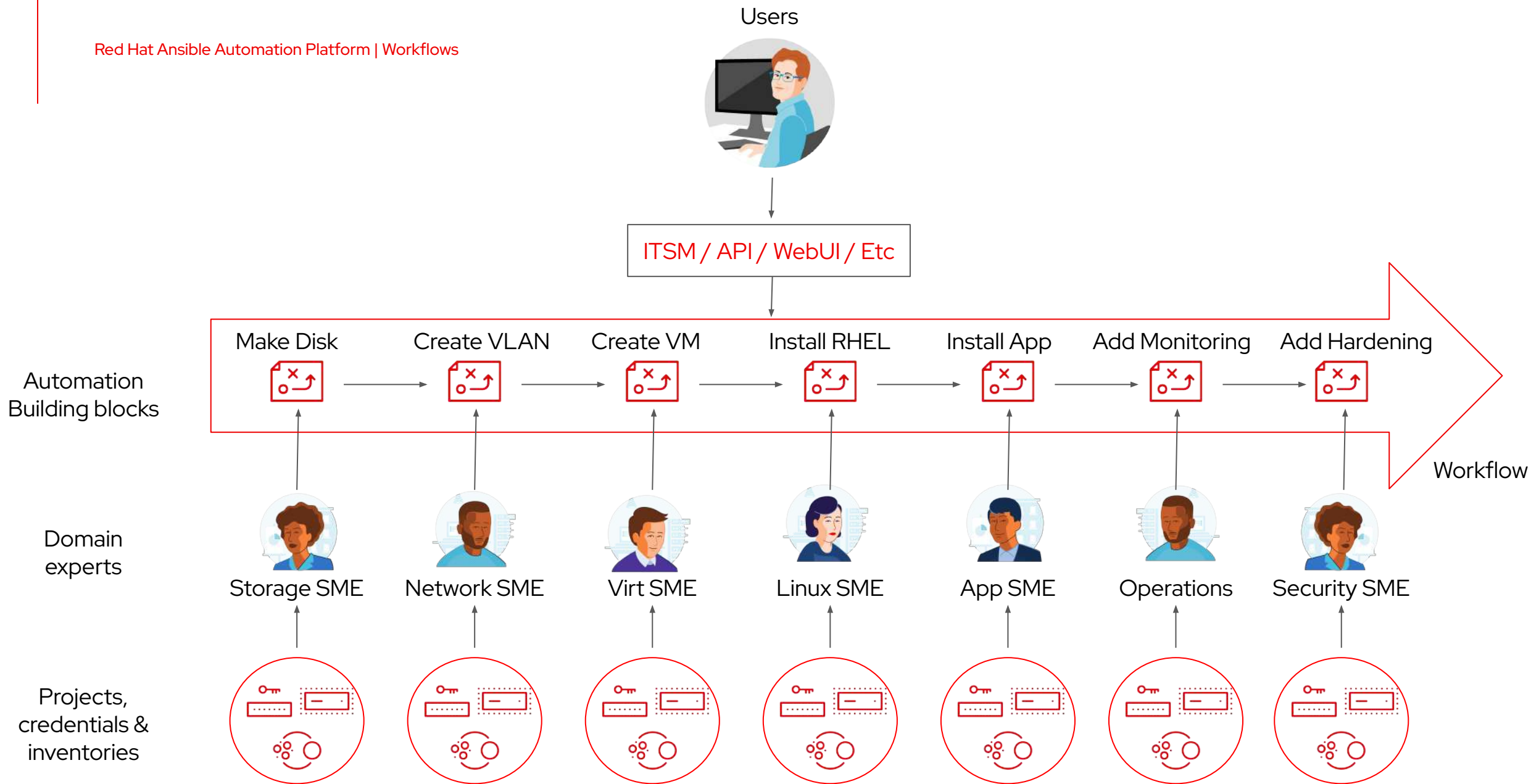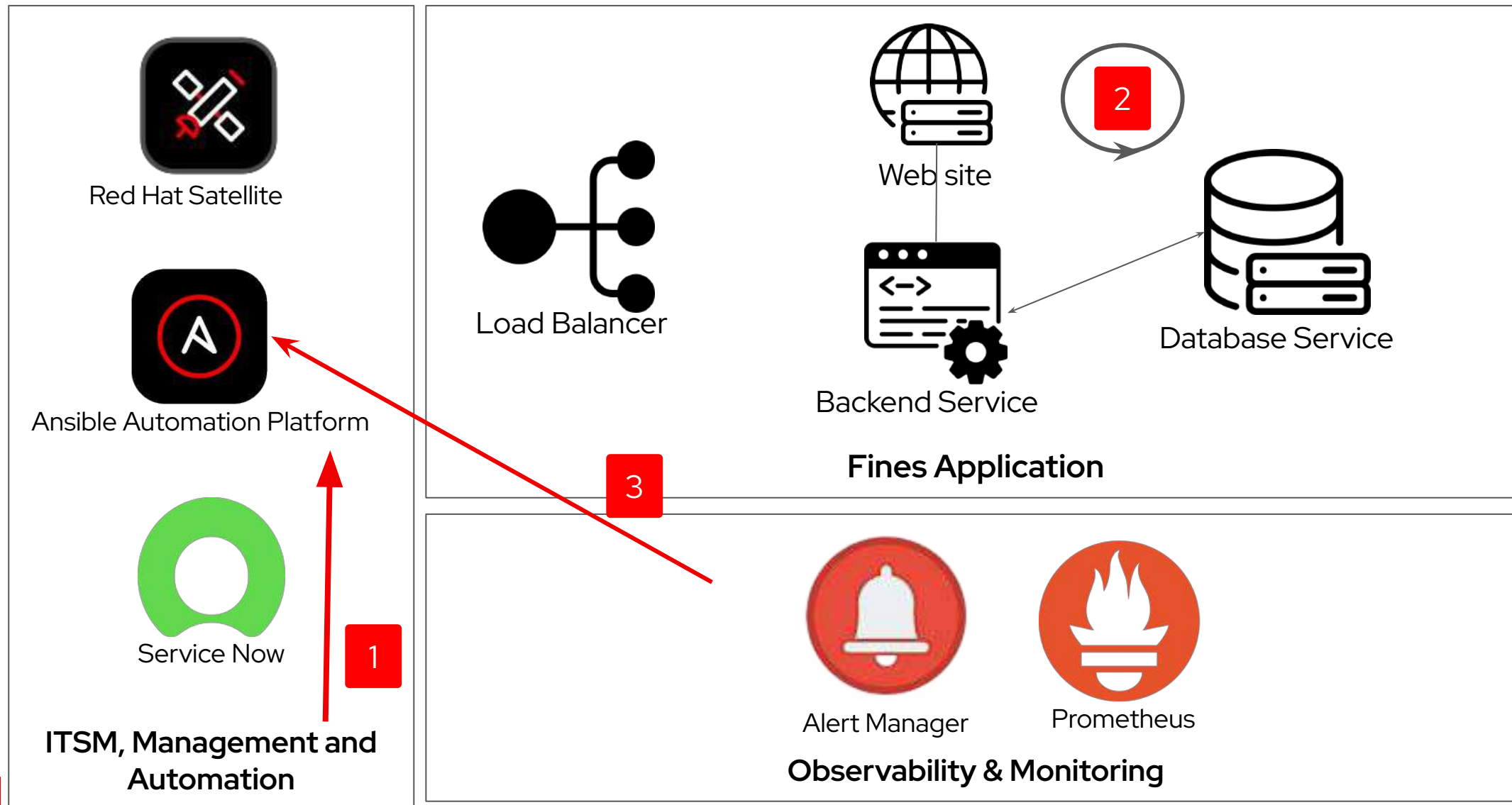
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Delegation

Users

Red Hat Ansible Automation Platform | Workflows

ITSM / API / WebUI / Etc

Automation Building blocks

Make Disk → Create VLAN → Create VM → Install RHEL → Install App → Add Monitoring → Add Hardening

Workflow

Domain experts

Storage SME   Network SME   Virt SME   Linux SME   App SME   Operations   Security SME

Projects, credentials & inventories

Red Hat Ansible Automation Platform

Red Hat TechTalks

Demo Time !

City Police Station Architecture

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](#)

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