

# EXPLORING THE POSSIBILITIES WITH EVENT-DRIVEN ANSIBLE

Getting more value from your Automation Platform



# Agenda

- ▶ Logistics
- ▶ Why is Ansible Automation
- ▶ What is new AAP 2.2
- ▶ **Event-Driven Ansible**
- ▶ How we can help with enablement



## AUTOMATION

### Rethink Repetitive Tasks

**Automation Enables Strategic Thinking at the Speed of Business**

Low-Level repetitive Business and IT tasks are cost organizations large amounts of shareholder value!

## HYBRID CLOUD

### Rethink Where IT is Running

**Hybrid Cloud Enables IT to Run at the Speed of Business**

A lack of a modern hybrid cloud strategy limits organization's ability to think innovatively, which enables disruptors to take market share.

## MODERN APP DEVELOPMENT

### Rethink Development Processes

**Modern SDLC Enables IT to Develop at the Speed of Business**

Legacy SDLC processes cost organizations known and unknown revenue opportunities. When IT is not able to deliver at the speed of Business

## MANAGED SERVICES

### Rethink Operations

**24/7/365 Operational Efficiency and Capability**

Enterprise systems never stop. Adoption of newer platform and modern applications architectures can prove impossible to embrace



# BUSINESS VALUE BY THE NUMBERS



**Red Hat**  
Ansible Automation  
Platform

**667%**

5-year return on investment with 5 months to payback

**\$1.9M**

additional new revenue gained per year

**30%**

more productive IT infrastructure management teams

**39%**

more applications developed per year

**30%**

more efficient IT security teams

**76%**

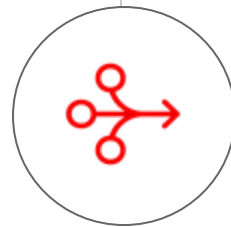
reduction in unplanned downtime

Source:

IDC White Paper, sponsored by Red Hat. "[Red Hat Ansible Automation Improves IT Agility and Time to Market](#)," October 2021.

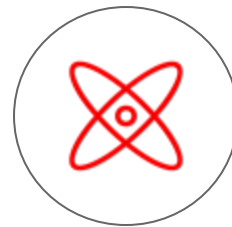


# ANSIBLE IS THE DE FACTO AUTOMATION LANGUAGE.



## Simple

Human-readable language  
with quick adoption



## Powerful

Universal language spanning  
multiple IT domains



## Agentless

Easily integrate with  
hybrid environments

# ENABLING YOUR AUTOMATION TEAM TO CONSISTENTLY...



**Create**

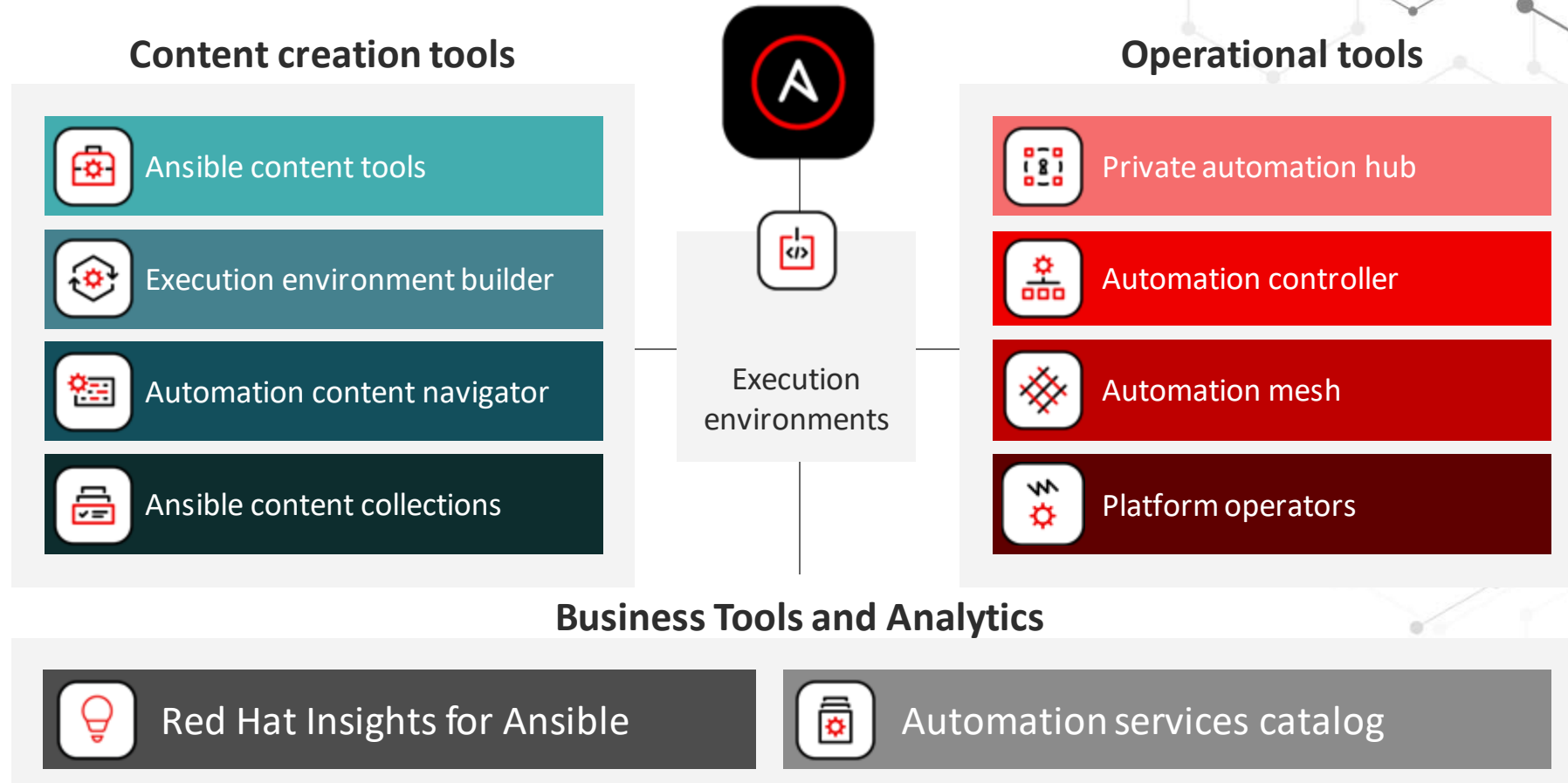
**Manage**

**Scale**

# Ansible Automation Platform



# AN INTEGRATED SOLUTION FOR THE ENTERPRISE



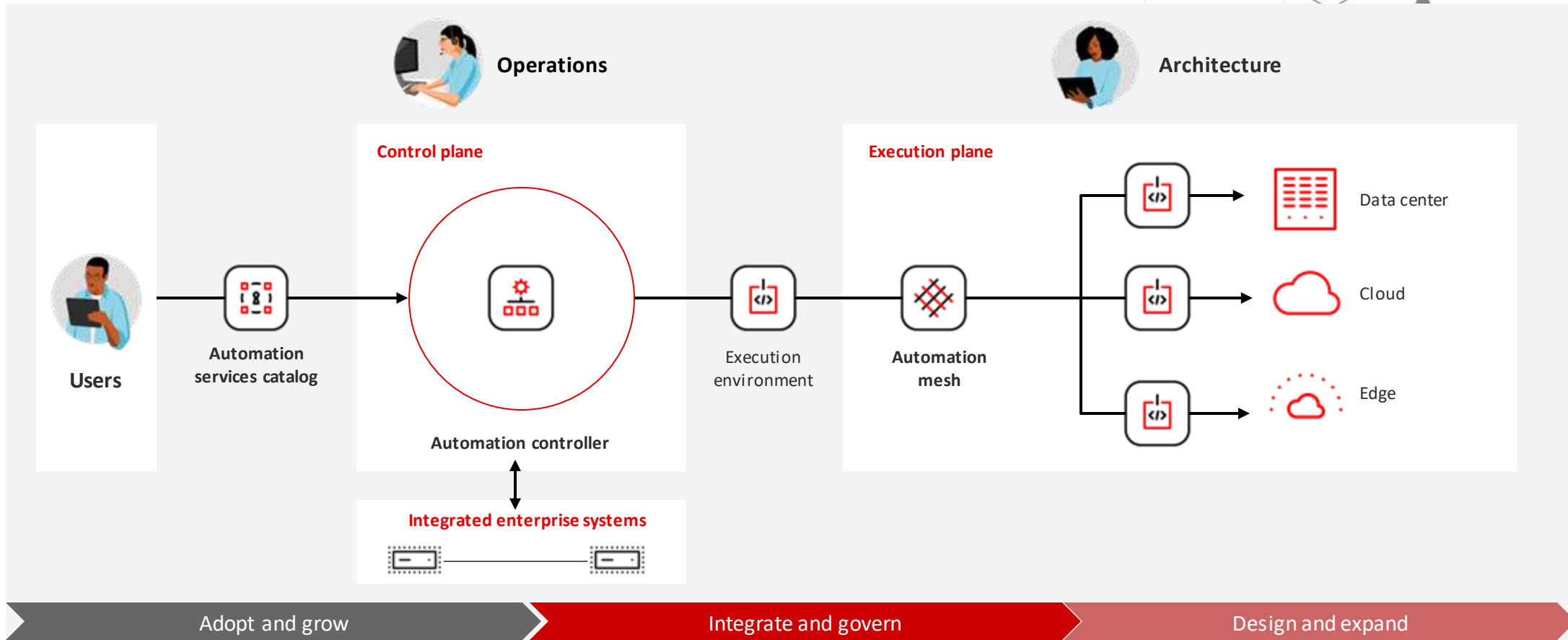


# WHAT IS NEW WITH AAP 2.2

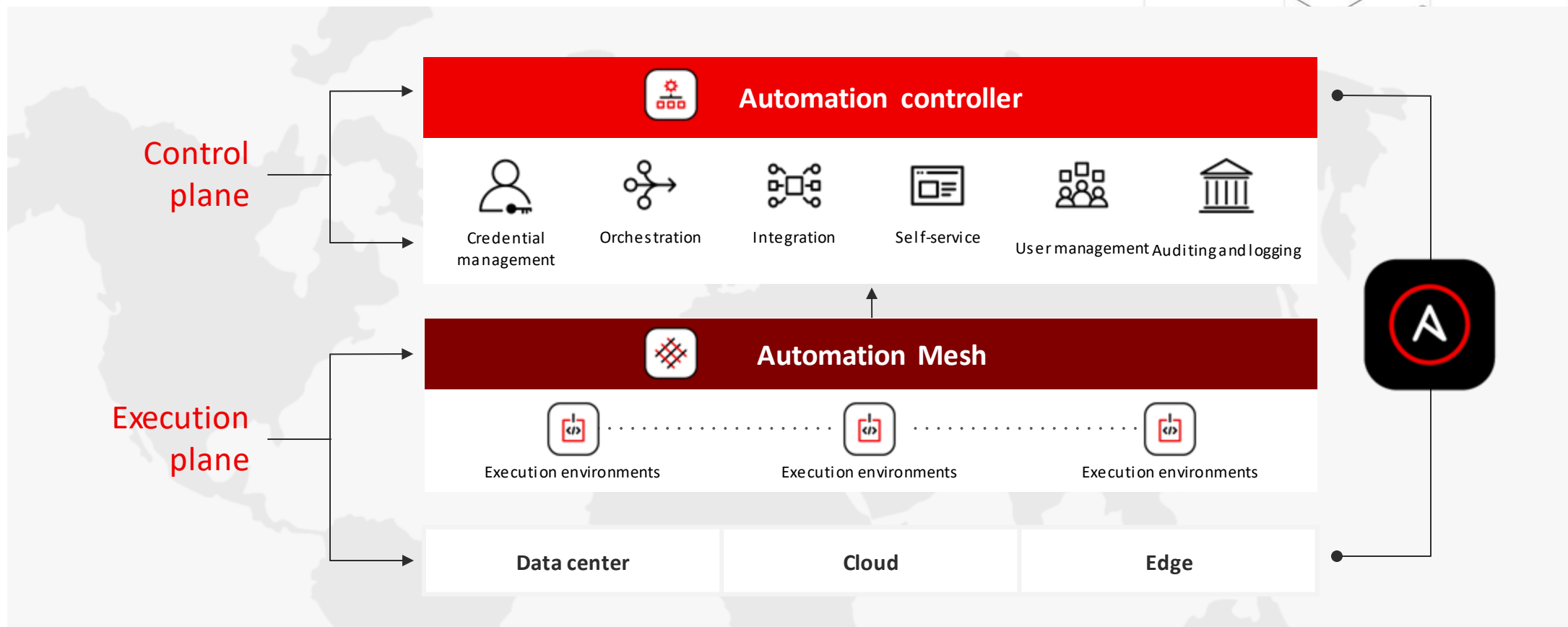
- ▶ The automation and management capabilities of Ansible Automation Platform 2.2 are now supported on Red Hat Enterprise Linux® 9:
- ▶ **Components now available for Red Hat Enterprise Linux 9.** Ansible Automation Platform components, including automation controller, private automation hub, private services catalog, and many developer and creator tools, are now available as Red Hat Enterprise Linux 8 or 9 Red Hat Package Manager (RPM) packages in the Red Hat Customer Portal.
- ▶ **Support for PostgresDB 13.** Red Hat Enterprise Linux 9 now includes PostgresDB version 13, which can be used by the automation controller, private automation hub, and the automation services catalog for improved compatibility and performance.
- ▶ **An updated certified Red Hat Enterprise Linux system roles collection to automate Red Hat Enterprise Linux 9 instances.** The `redhat.rhel_system_roles` certified collection on Ansible automation hub has been updated to support the ability to automate Red Hat Enterprise Linux 9.



# THE AUTOMATION CONTENT LIFE CYCLE. SCALE.



# A DISTRIBUTED ARCHITECTURE BUILT FOR SCALE



# AUTOMATION MESH. DESIGN AND EXPAND.

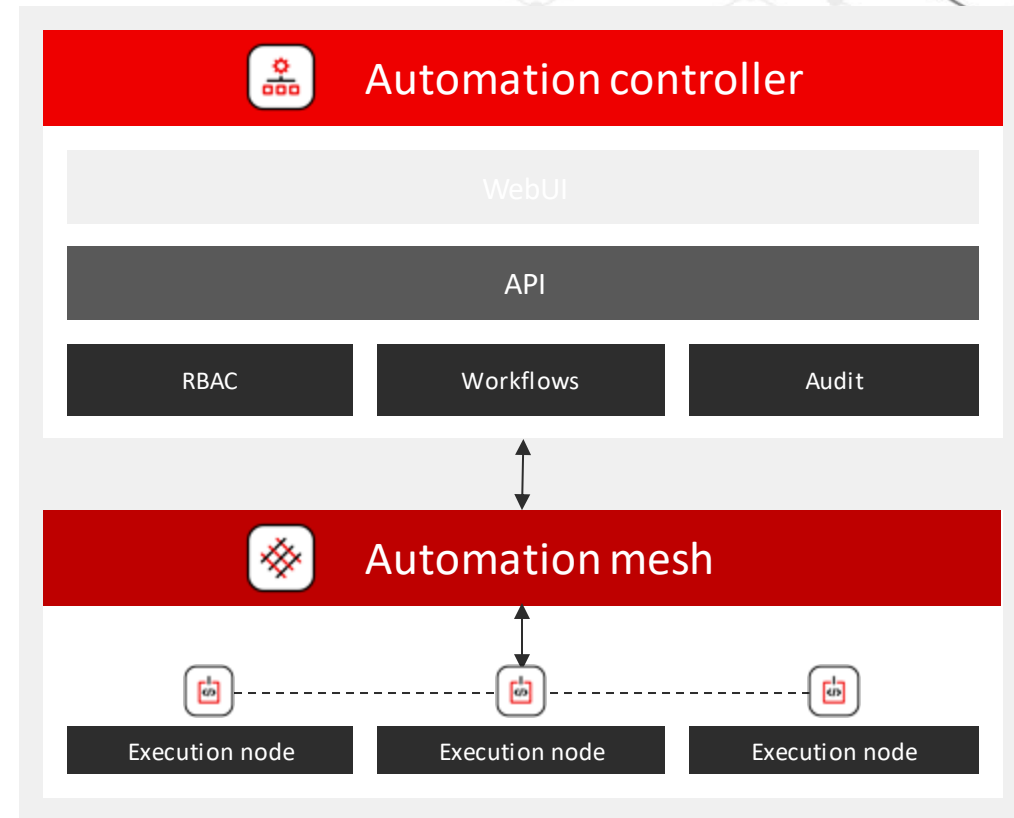


## What is it?

- ▶ Simple, reliable framework to scale automation independently with little or no downtime
- ▶ Distributed and localized execution across worker nodes
- ▶ Scale across segmented and remote networks with native resiliency
- ▶ Flexible design choices to deliver automation across networks and design redundant topologies

## Improved communication and security

- ▶ Worker node health checks
- ▶ Bi-directional, secured (TLS) communication between nodes
- ▶ Centralized, secured management with automation controller



# AUTOMATION MESH. MANAGEMENT AND VISIBILITY.

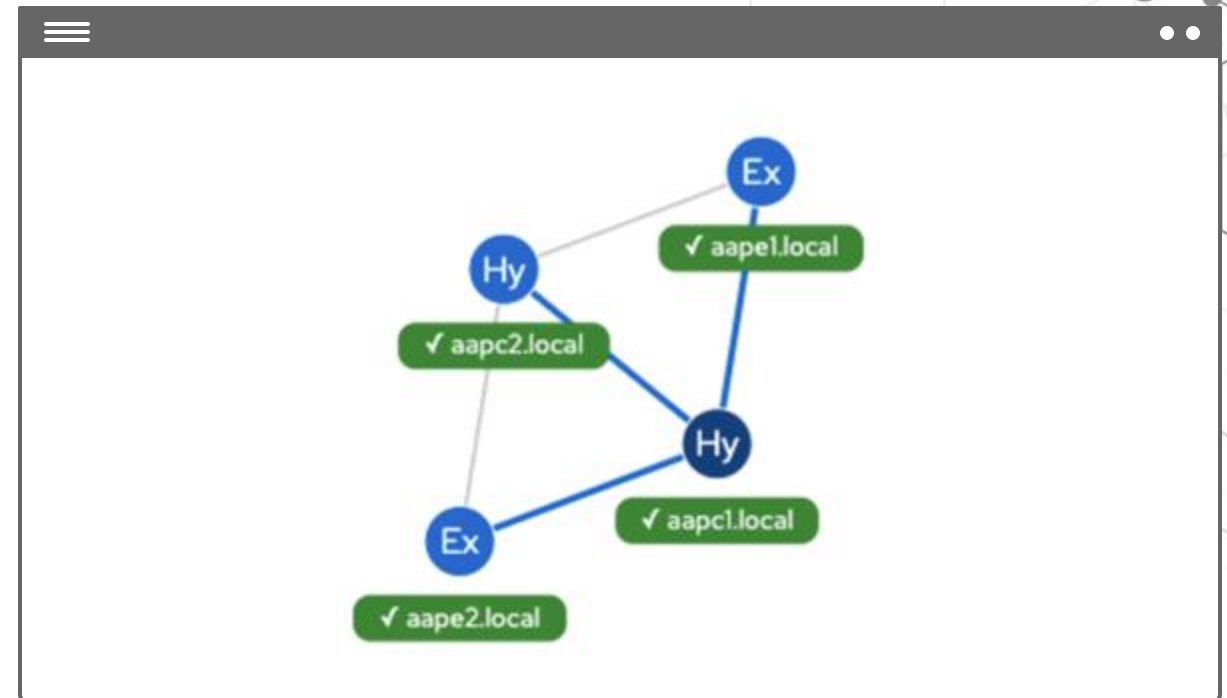


## Instance groups

- ▶ Logically group and assign mesh execution capacity
- ▶ Predefined controlplane and default instance groups
- ▶ Configure instance groups via API, WebUI or installer

## Topology Viewer

- ▶ View existing mesh topologies across environments



# Event Driven



# WHAT IS THE EVENT-DRIVEN ANSIBLE DEVELOPER PREVIEW?

**Highly scalable, flexible**

Event Driven Automation

built within your existing platform to deliver automation

that can process events for

**discrete, actionable intelligence,**

**execute automated actions**

to respond to events and provide

**observation and auditability**

across your automation landscape.



# ACHIEVE GOALS AND FOCUS TEAMS WITH ADVANCED AUTOMATION TECHNIQUES



## Speed

Reduce the number of manual steps, enable orchestration of multiple tools and accelerate cross-tool interaction to become more **agile**



## Consistency

Minimize risks with automated workflows, avoid human errors and use auditable and verifiable processes to ensure **resilience**



## Innovation

Innovate to more advanced levels of automation and free productivity for innovation and higher level projects to **transform IT**



# GET STARTED WITH EVENT-DRIVEN ANSIBLE

Quick wins: solve these use cases fast, simply and cost-effectively



## SERVICE TICKET AUGUMENTATION

- ▶ Automate fact gathering
- ▶ Network administration, e.g. Update infrastructure awareness on network events
- ▶ Edge device management, e.g. Compliance & drift are managed post event



## REMEDIATION

- ▶ Address drift issues
- ▶ Slow performance issues, e.g. Automate common port troubleshooting and shut/no shut the port
- ▶ Outage issue



## USER MANAGEMENT

- ▶ User authentication + access, e.g., providing and troubleshooting access
- ▶ Login issues, e.g., reset password
- ▶ Group/role access, e.g., configuring access to network resources

# ANSIBLE INTEGRATION WITH SERVICENOW

Installing the Certified Content Collection for ServiceNow

Managing Incidents, the Ansible Way

Updating the CMDB

Dynamic Inventory

Automation Resolution of Standard Change Request

 **Red Hat**  
Ansible Automation  
Platform



 **now**

## BUSINESS VALUE HIGHLIGHTS

**667%**  
five-year return on  
investment (ROI)

**10 months**  
months to payback

**30%**  
more efficient IT  
infrastructure management

**29%**  
more efficient network  
infrastructure management

**75%**  
faster deployment of new  
storage resources

**39%**  
more applications developed  
per year

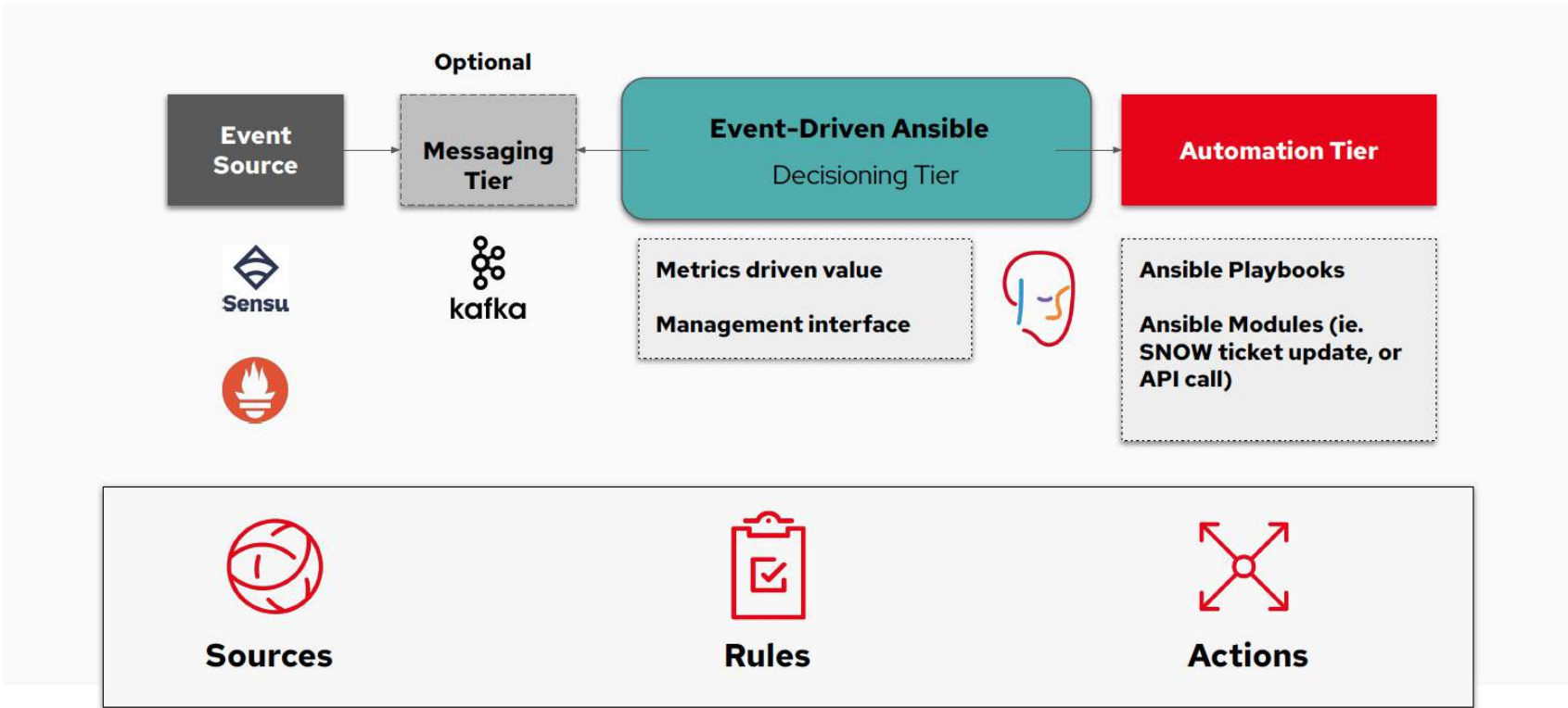
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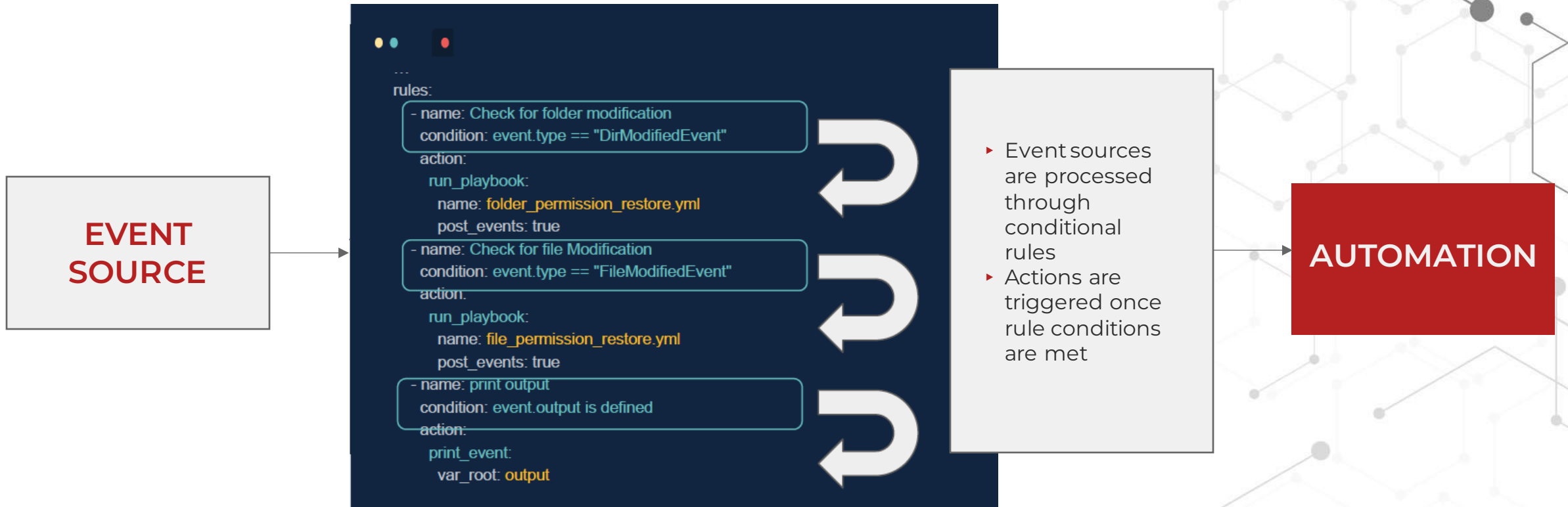


# TIERS OF EVENT DRIVEN ANSIBLE



# HOW DOES ANSIBLE HANDLE RULES PROCESSING?

Smart automation from conditional rules

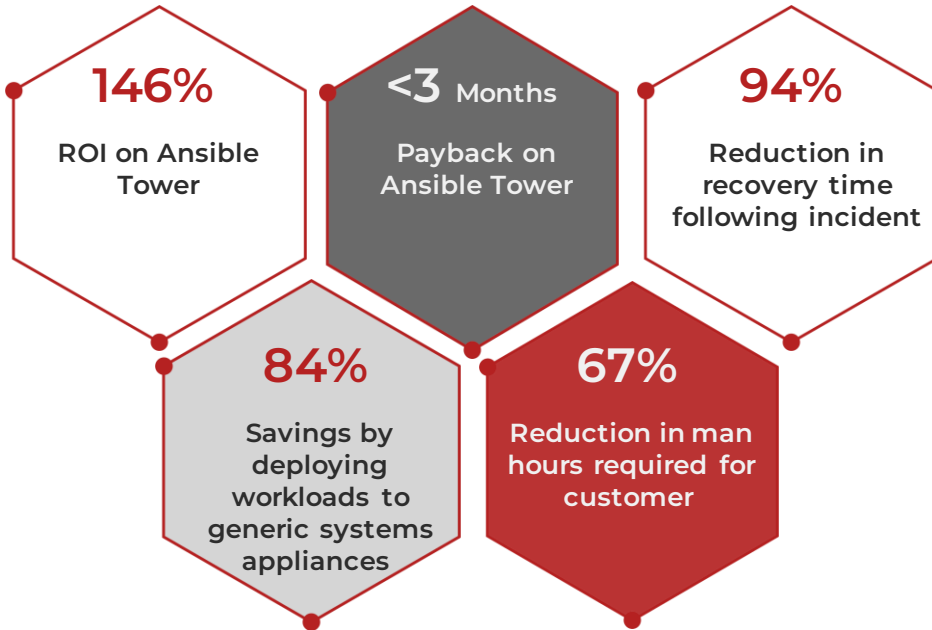


# Enablement



# IT AUTOMATION LAUNCHPAD

## Quantifiable Results



Red Hat  
Ansible Automation Platform

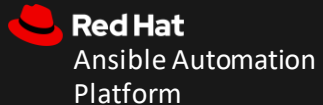
## Simple, Clear Journey to Management

	STANDARD	ADVANCED	ENTERPRISE
OVERVIEW	<p>Ideal, low-cost starting point to build a long-term strategy around:</p> <ul style="list-style-type: none"> <li>▶ Ticketing</li> <li>▶ Orchestration</li> <li>▶ Provisioning</li> <li>▶ Reconciliation</li> </ul>	<p>Highly available (HA) instance integrated and customized into your environment.</p> <p>Team fully trained to harness the platform</p>	<p>Create a centre of excellence</p> <p>Drive leadership and direction for your entire business operations</p> <p>Develop a business culture around automation</p>
DELIVERABLES	<ul style="list-style-type: none"> <li>▶ AAP* HA install</li> <li>▶ AAP LDAP integration</li> <li>▶ AAP Git integration</li> <li>▶ AAP flat file inventory</li> <li>▶ Example playbook run</li> <li>▶ Integration with existing Satellite</li> <li>▶ Gather facts report</li> </ul>	<p><b>All STANDARD plus..</b></p> <ul style="list-style-type: none"> <li>▶ AAP integrated inventory</li> <li>▶ Satellite Installation</li> <li>▶ Use cases featuring Surveys</li> </ul>	<p><b>All ADVANCED plus..</b></p> <ul style="list-style-type: none"> <li>▶ Ticketing system integration</li> <li>▶ System patching workflowing external approvals</li> <li>▶ AAP inventory integration with CMDB</li> <li>▶ Playbooks automation Windows systems</li> <li>▶ Automate network devices</li> </ul>
DURATION	2 weeks	6 weeks	13 weeks

\* Ansible Automation Platform

# NETWORKING AUTOMATION LAUNCHPAD

## Network Integrations



## Simple, Clear Journey to Management

	STANDARD	ADVANCED	ENTERPRISE
OVERVIEW	<p>Ideal, low-cost starting point to build a long-term strategy around:</p> <ul style="list-style-type: none"> <li>▶ Ticketing</li> <li>▶ Orchestration</li> <li>▶ Provisioning</li> <li>▶ Reconciliation</li> </ul>	<p>Highly available (HA) instance integrated and customized into your environment.</p> <p>Team fully trained to harness the platform</p>	<p>Create a centre of excellence</p> <p>Drive leadership and direction for your entire business operations</p> <p>Develop a business culture around automation</p>
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DURATION	2 weeks	6 weeks	13 weeks

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# Q&A Wrap Up





# LET'S PARTNER TOGETHER ...

## CONTACT INFORMATION

### Link to more info on Ansible:

: <https://www.redhat.com/en/technologies/management/ansible>

