Red Hat
Ansible Automation
Platform

Automation for Everyone

One platform—unlimited possibilities

Matti Nieminen
Automation Sales Specialist

Timo Vilén
AppDev Sales Specialist
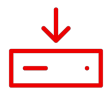
Ansible Automates

What we'll discuss today

Automation as a lifetime career-changing opportunity

Automation as your company's innovation engine

How Red Hat can help you mitigating the risks and beyond

Ansible Automates

~~Automation is a tool.~~

~~Automation is tactical.~~

Automation is **strategic**.

According to **Forrester Research...**

"Automation is now a boardroom imperative."

FORRESTER®

Home > Newsroom > COVID-19 Has Made Automation A Boardroom Imperative

COVID-19 Has Made Automation A Boardroom Imperative

MAY 13 2020

As we emerge from the Coronavirus crisis, firms will undoubtedly look to automation as a way to mitigate the risks that future crises pose to the supply and productivity of human workers. The report "The COVID-19 Crisis Will Accelerate Enterprise Automation Plans" details how automation has been a major force reshaping work since long before the pandemic, and how it's now taking on a new urgency in the context of business risk and resiliency. Key takeaways include:

- **Firms will invest in more cognitive capabilities and supplied AI, industrial robots, service robots, and RPA**, however these investments will have unequal impacts on the global workforce

- **COVID-19 has made automation a boardroom imperative as CEOs** are now forced to expand business continuity and risk to include 'white swan' events

- **Businesses will need to approach automation with empathy** as the human impact of the crisis on the workforce continues into recovery

The author of the report, Leslie Joseph, has also published a blog post on this topic: COVID-19, Automation, And You. Leslie is available for media interviews. Please reach out to press@forrester.com
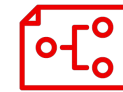
Automation as a lifetime career–changing opportunity

Ansible Automates

Automate in concert

Ansible is a global phenomenon

Top 10 framework
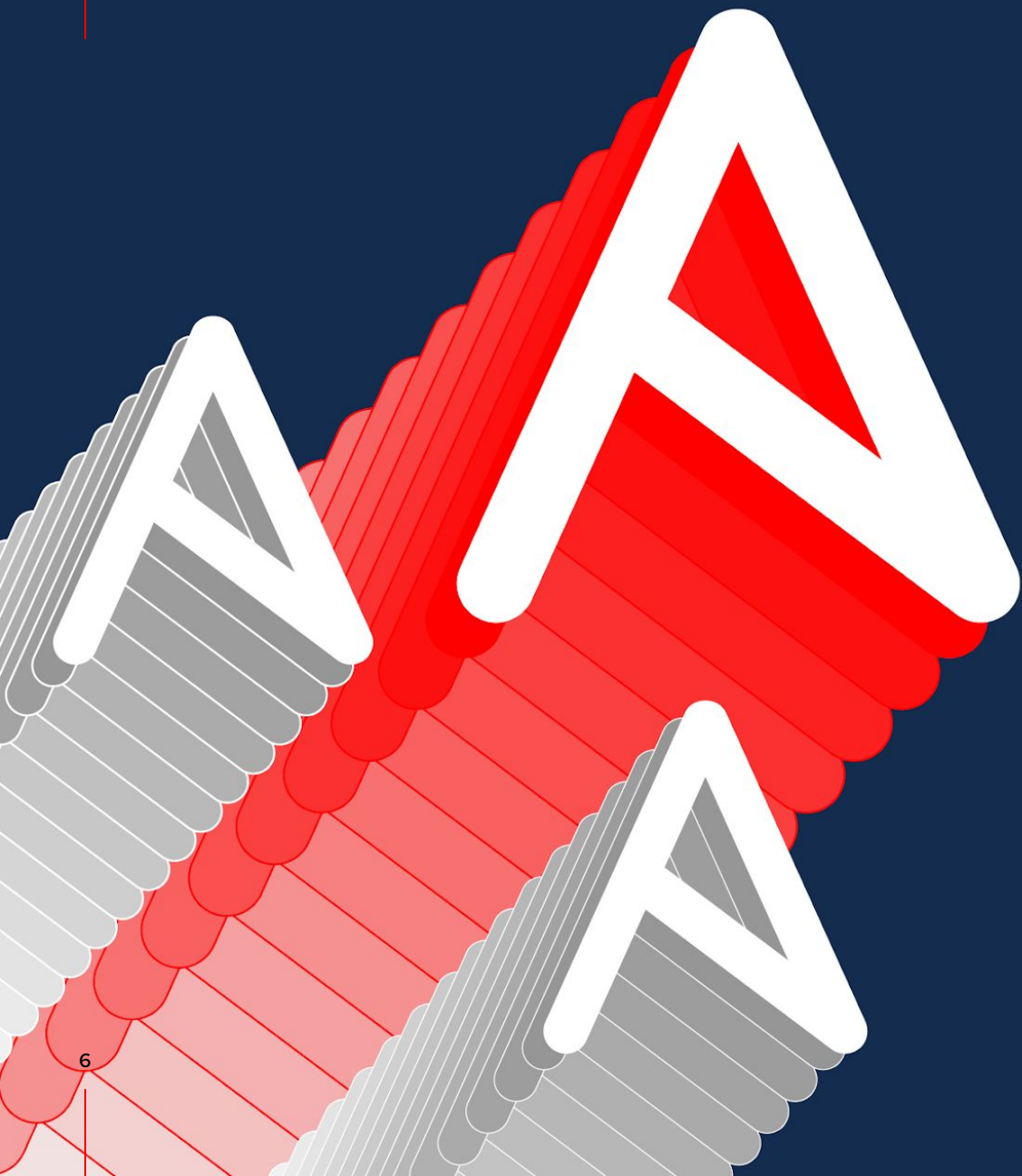Use a developer validated framework[1]

40,000+ openings jobs
Boost your career[2]

#1 automation community
Belong to the world's largest
IT automation community[3]

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By 2025, **more than 90%** of enterprises will have an **Automation Architect** (up from less than 20% in 2020)

Gartner, Top 10 Trends Impacting Infrastructure and Operations, Ross Winser, David Cappuccio

Ansible Automates

Automate in concert

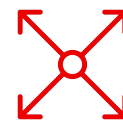Automate your entire organization

Major analyst validation
Use the leading automation platform[1]

Top automation tech skill
Train and certify your team[2]

Scale and coordinate
Address your organizations digital transformation challenges

Source:
[1]Forrester Wave Leader
[2]LinkedIn 2022

Ansible Automates

Automate in concert

Customers achieve remarkable results

667%
five-year ROI

10 months
to payback

75%
faster deployment of new storage resources

76%
reduction in unplanned downtime

39%
more applications developed per year

8

Source:
The Business Value of Red Hat Ansible Automation Platform, IDC, October, 2021 and AnsibleFest presentation, IDC, September, 2021

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Automation as your company's innovation engine

Ansible Automates

The road to open hybrid cloud

Hybrid cloud infrastructure

Secure, scale, and manage foundations for traditional and cloud workloads across all environments
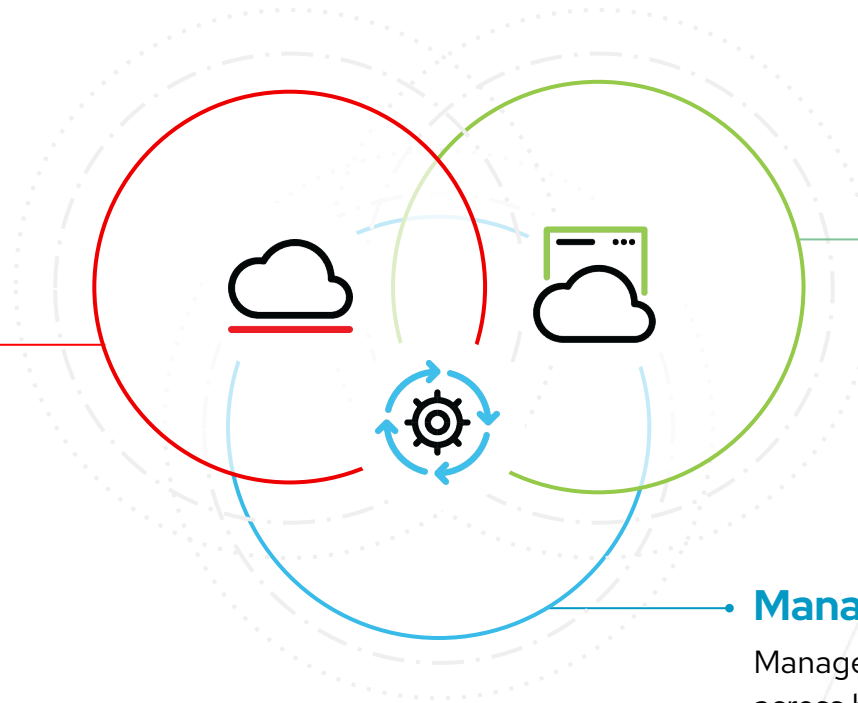
Cloud-native development

Develop, deploy, and manage any application, on any environment and give developers what they need to innovate
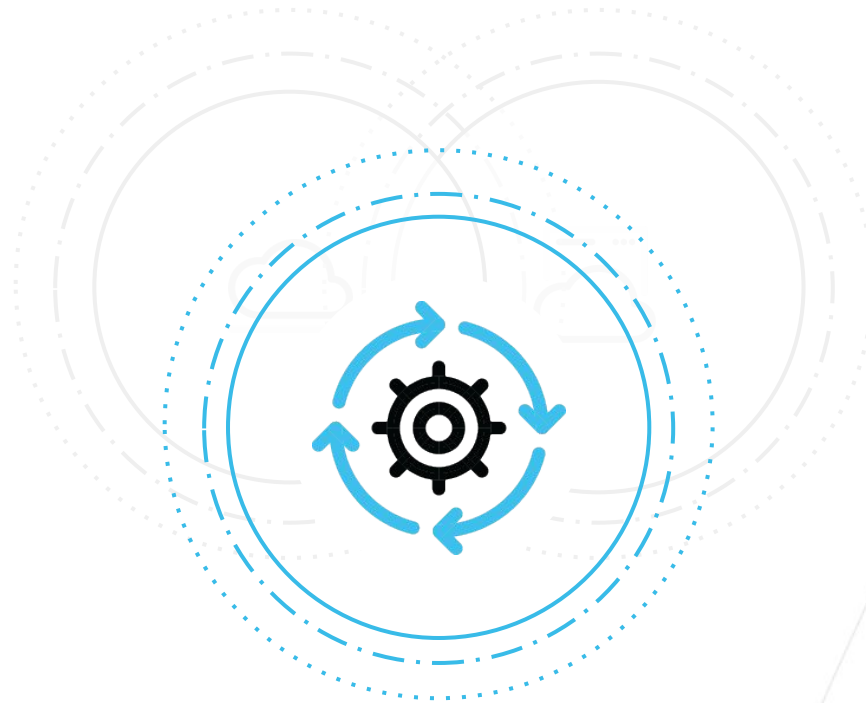
Management and automation

Manage Red Hat platforms and automate across hybrid environments with more simplicity

Ansible Automates

The road to open hybrid cloud

Cloud-native development

Hybrid cloud infrastructure

Management and automation

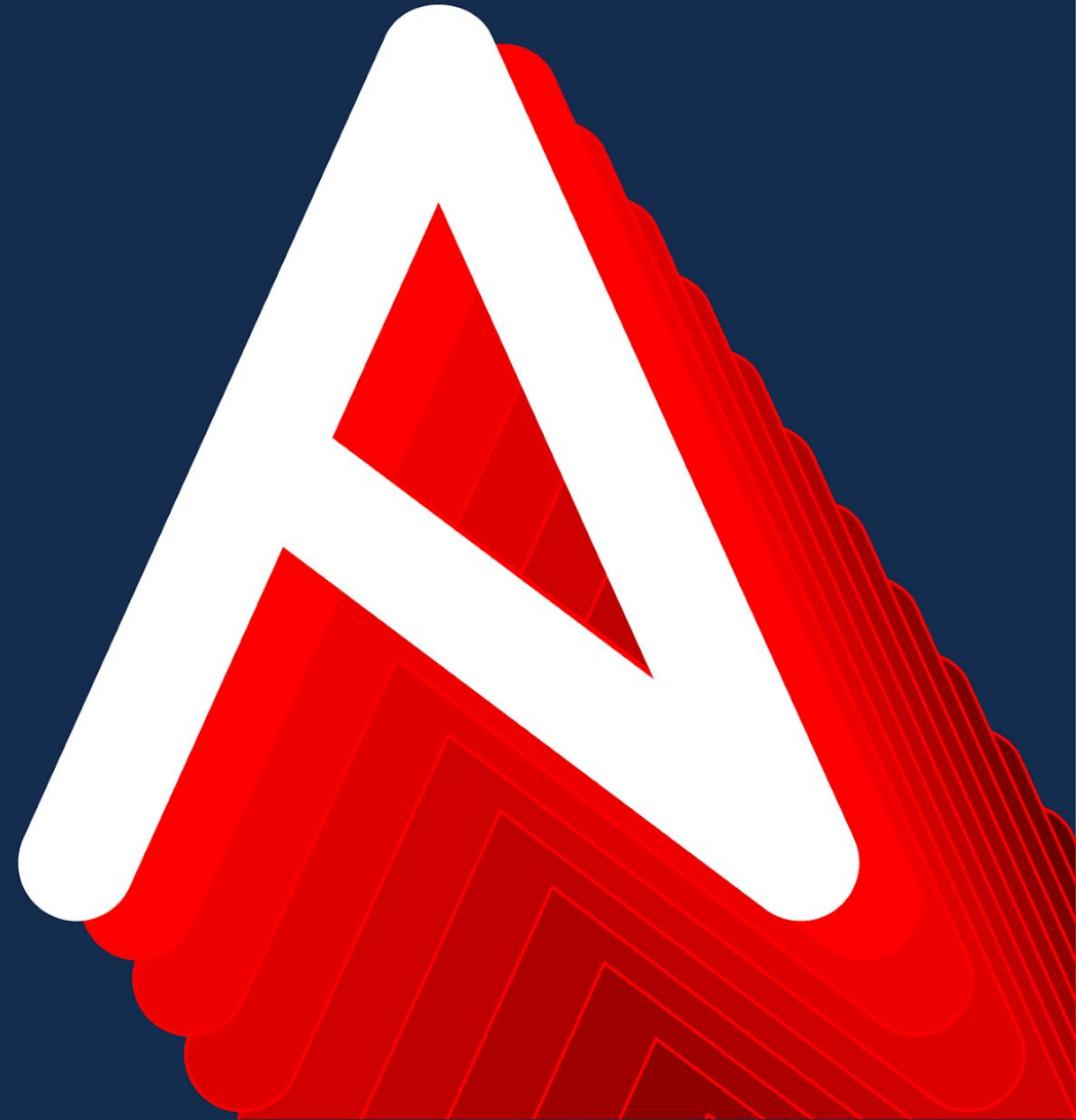Ansible Automates

"The enterprise that does not innovate inevitably ages and declines. And in a period of rapid change such as the present…the decline will be fast."

—

Peter F. Drucker
Management consultant –
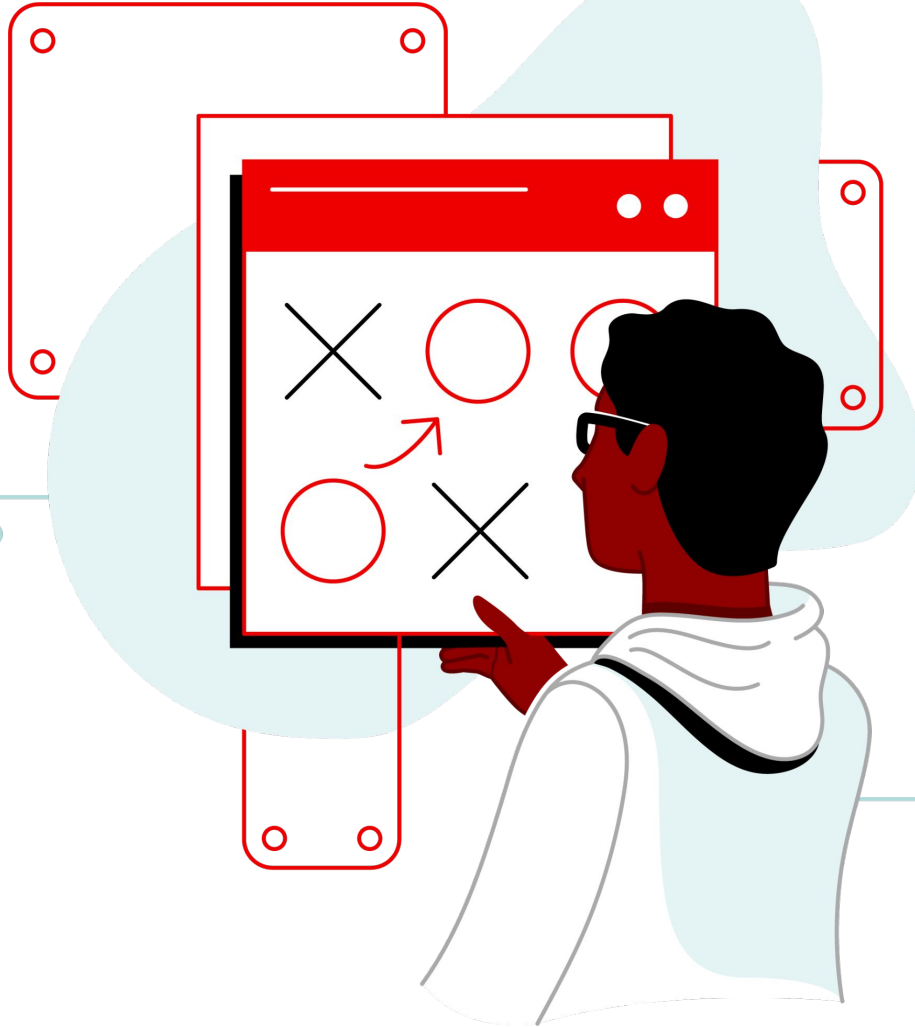"Father of Management Thinking"

"If the rate of change on the outside exceeds the rate of change on the inside, the end is near"

Jack Welch,
Former chairman and CEO
General Electric

Where is your automation journey heading?

The solution often lies **along hire and automate** because hiring alone is not enough to scale IT operations.

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What priorities drive the IT agenda?

- ▸ **Advance** IT collaboration

- ▸ **Manage** risk and resilience

- ▸ **Outpace** competition

- ▸ **Increase** innovation

- ▸ **Improve** customer satisfaction

- ▸ **Grow** your career

- ▸ **Improve** compliance

- ▸ **Build** resilience

- ▸ **Reduce** business costs

- ▸ **Decrease** time-to-market

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Developing an "automation-first" IT mindset

Gaining a competitive advantage in your industry

68%

Automation

68% report IT automation at their organization has shifted from a "nice to have" to a "must have".

80%

Success

80% say adopting IT automation is "extremely important" or "very important to the future success of their organization.

53%

Culture change

53% embrace culture change to ensure automation is accepted— but only 26% say IT leaders are doing this now.

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What's holding organizations back?

83%

...of implementers say they received **leadership support** to purchase their open source automation licenses.

1 in 4 still experience leadership's misalignment

▸ Setting automation priorities

▸ Determining which open source automation to use

▸ Deciding the level to which infrastructure automation tasks are automated

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What's holding organizations back?

Too many unintegrated, domain-specific tools, limited collaboration, scale...

Dev/DevOps

IT Ops

Sec Ops

Network Ops

Ansible Automates
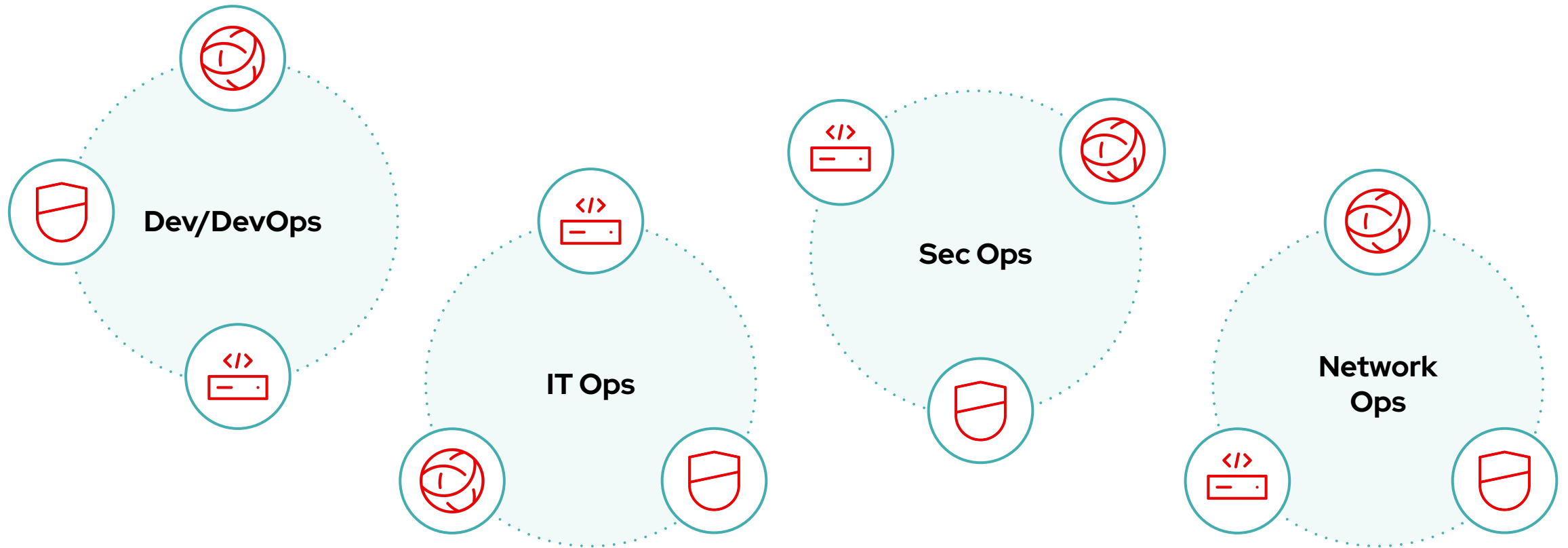
"Complexity is killing us."

If you are already struggling with traditional...
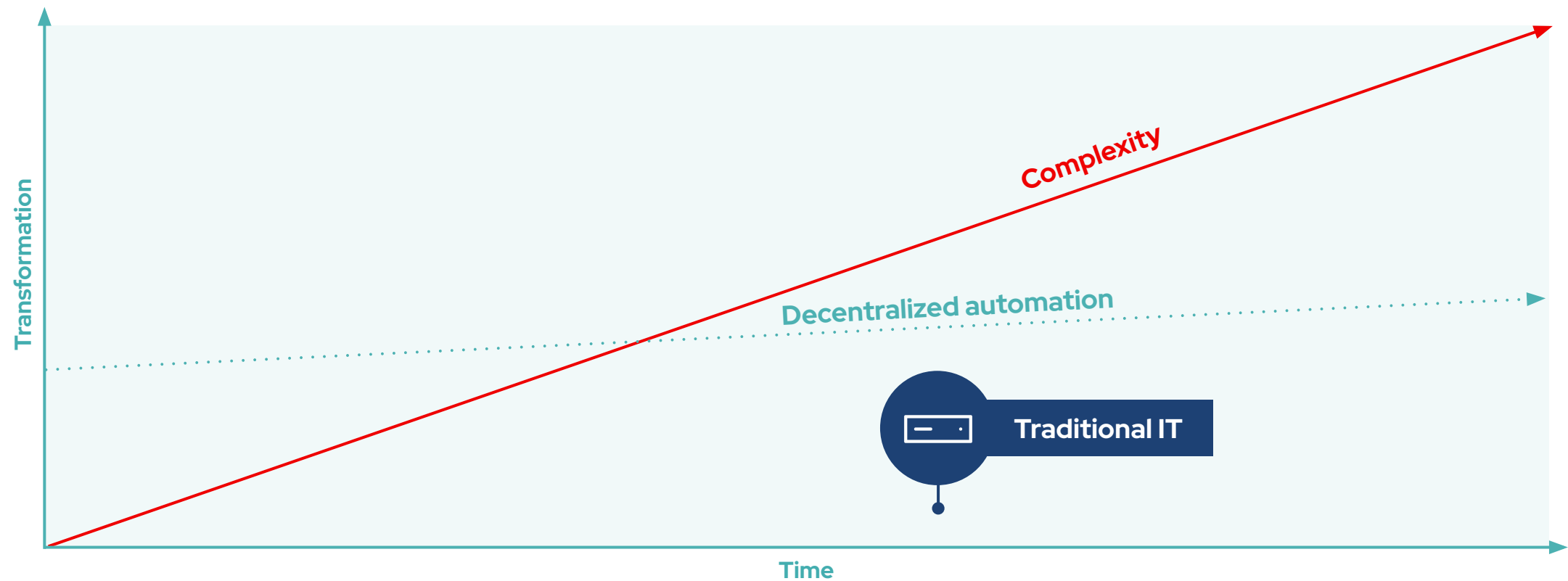
"Complexity is killing us."

How can you improve innovation...
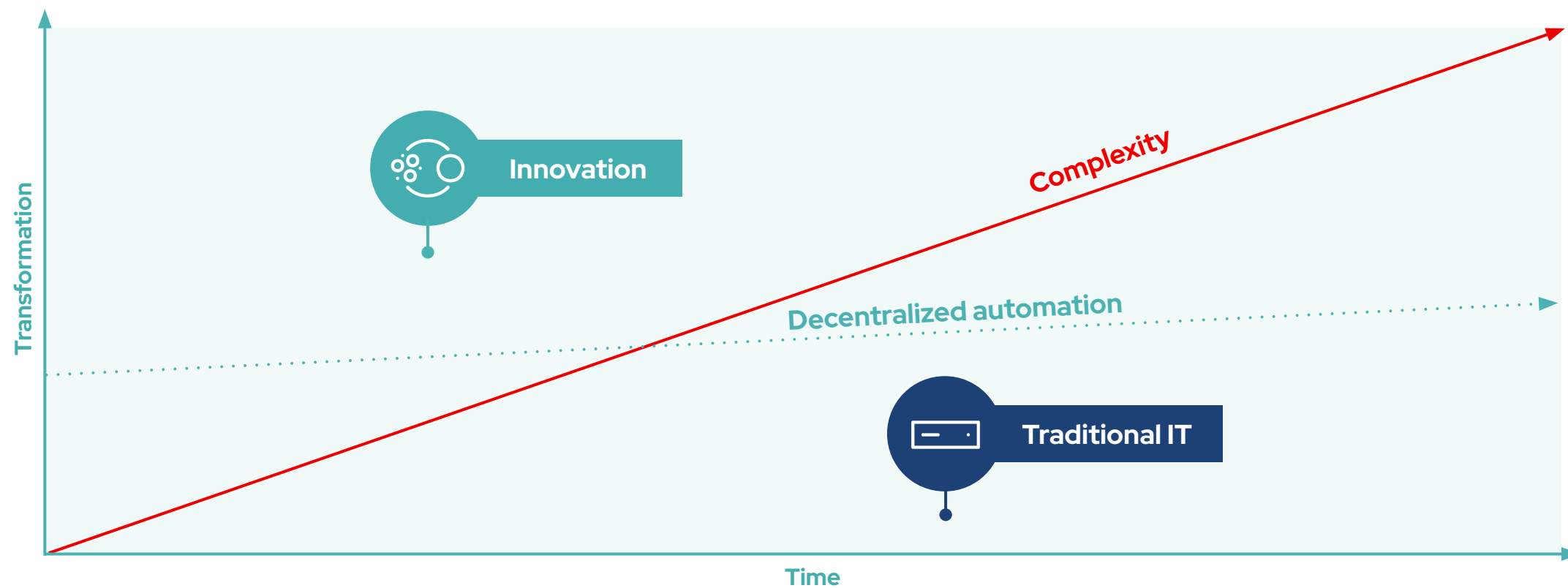
"Complexity is killing us."

Without addressing requirements...

Ansible Automates
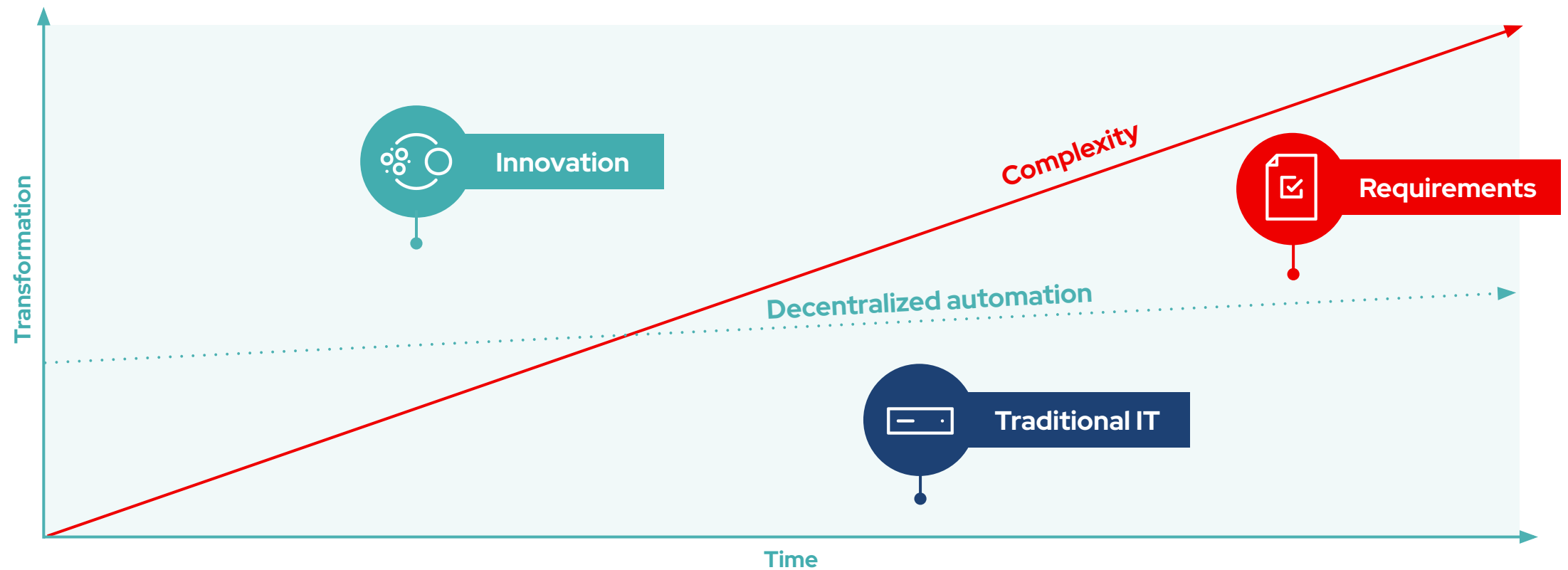
How automation helps mitigate risk

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How Red Hat can help you

The 3 Ps to succeed in enterprise scale automation strategy

Platform

Process

People

Ansible Automates

How Red Hat can help you

The 3 Ps to succeed in enterprise scale automation strategy

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Open transformation

Ansible Automates

Platform

Automate in concert
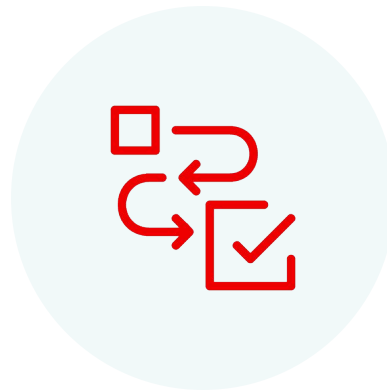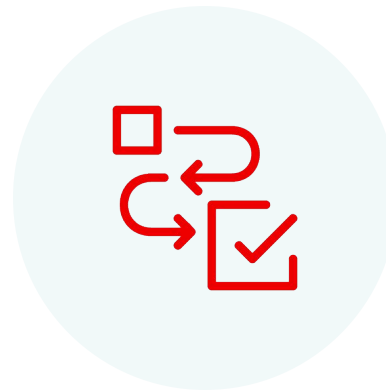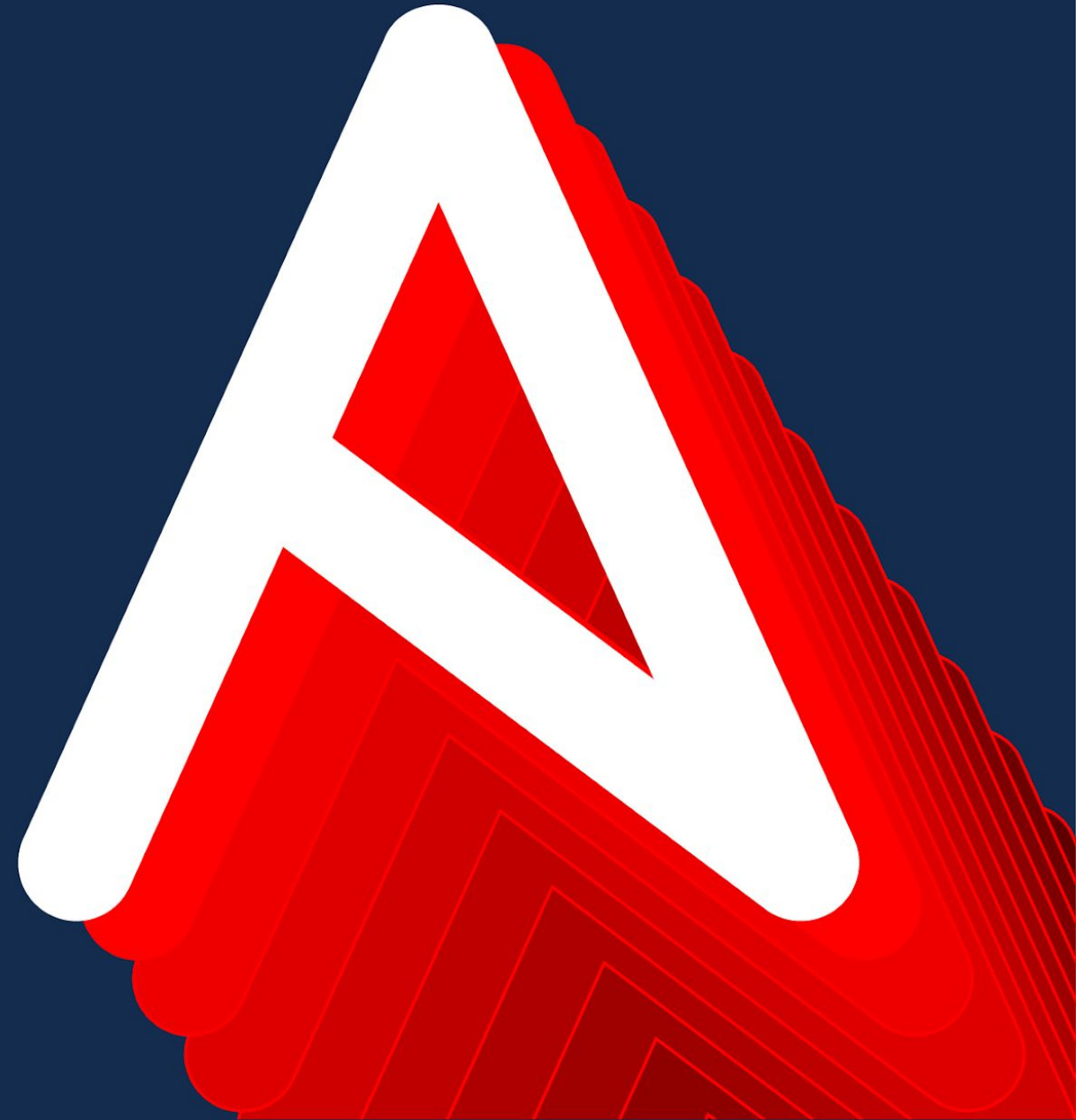
Red Hat
Ansible Automation
Platform

One platform for **all**

your automation needs.

Powerful. Simple. Agentless.

Security

Applications

Infrastructure

Cloud

Networking

28

Ansible Automates

Automate in concert
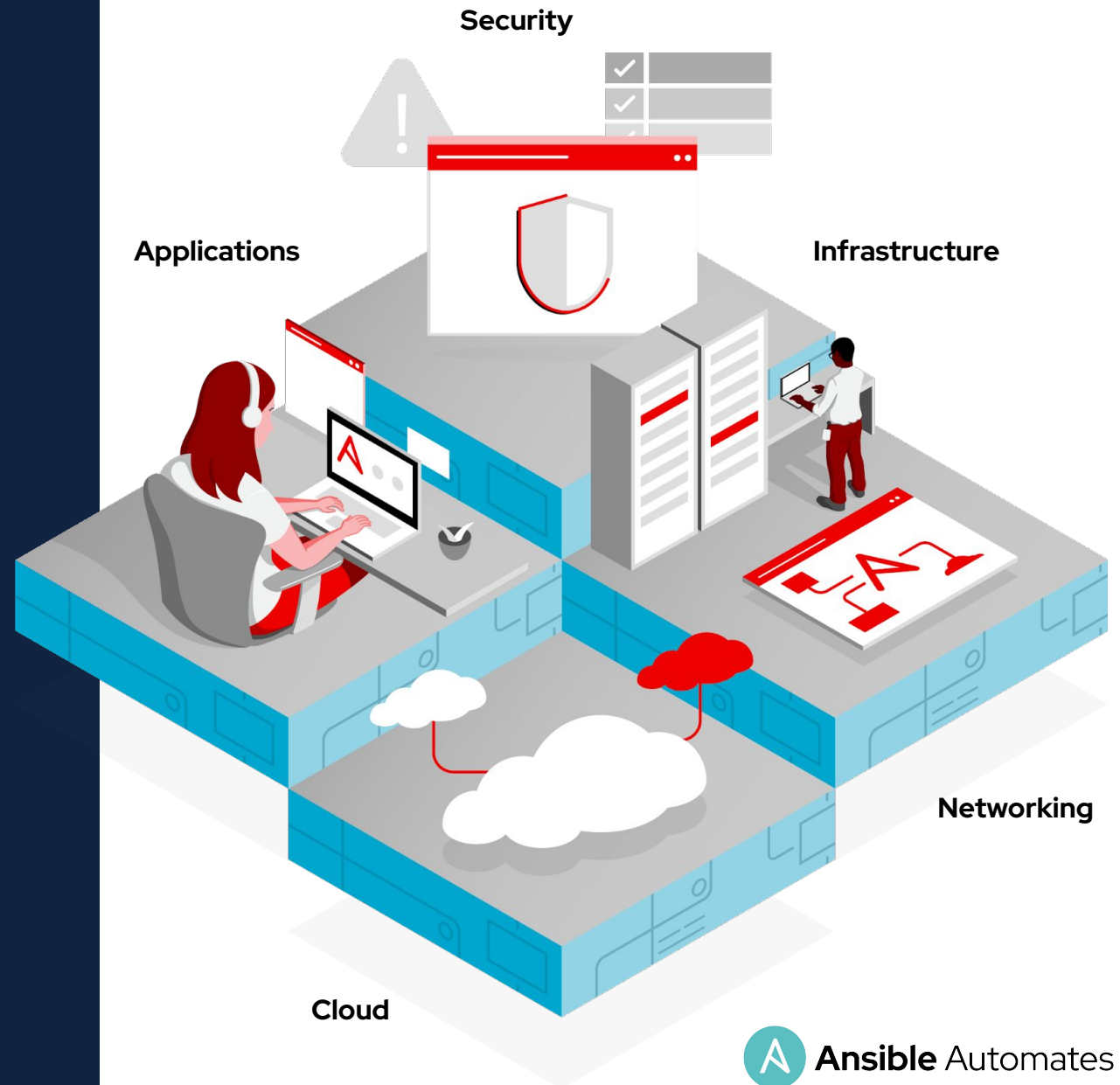
Red Hat
Ansible Automation Platform

One platform for **any**

automation deployment.

Powerful. Simple. Agentless.

Edge

Public clouds

Hybrid cloud

Datacenter

29

Ansible Automates

Automate in concert
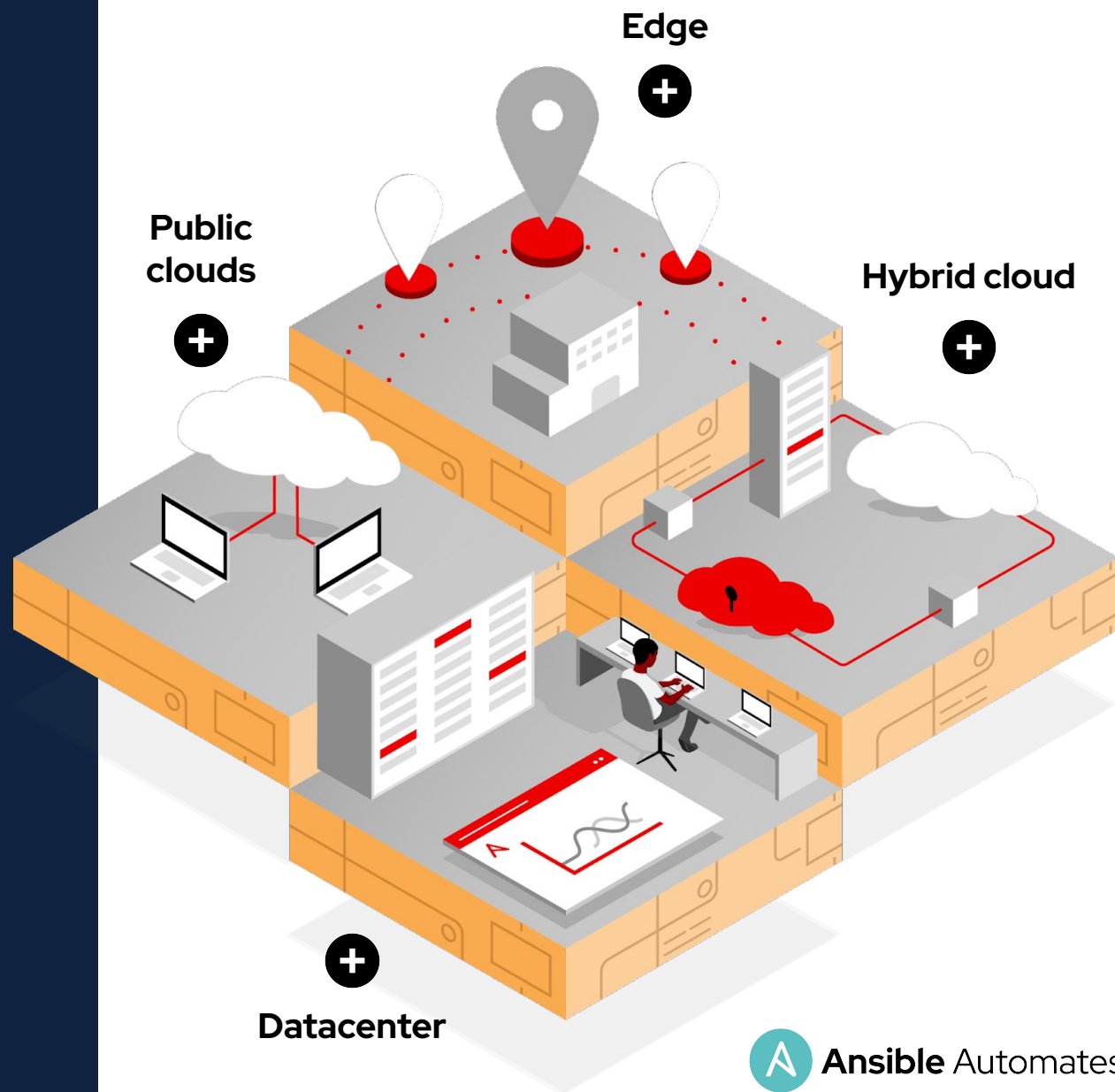
Red Hat
Ansible Automation
Platform

One platform for **your**

entire automation team.

Powerful. Simple. Agentless.

Architects

Administrators

Developers

Operators

30

Ansible Automates

Automate in concert
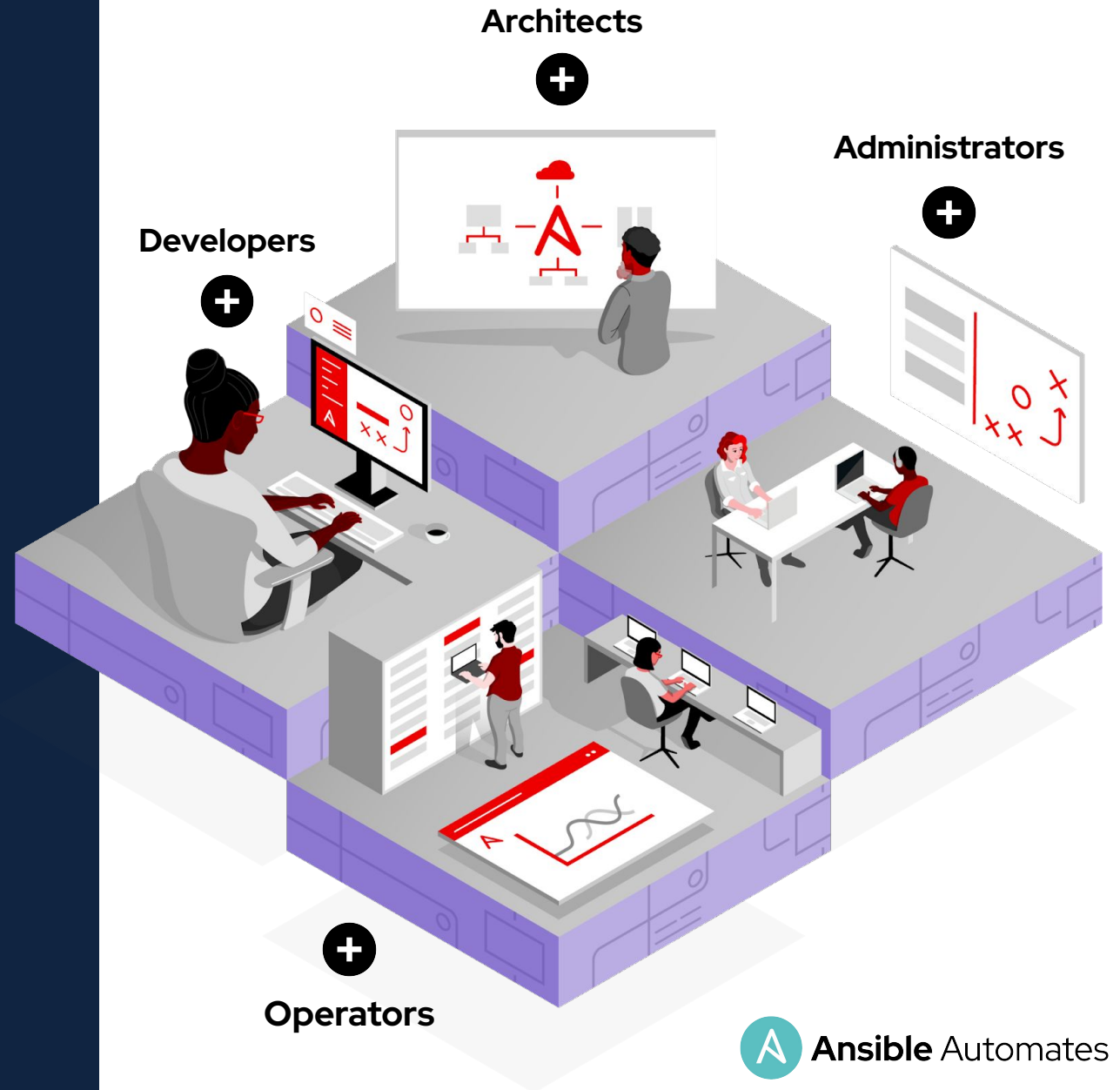
Red Hat
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Platform

One **subscription.**

One **integrated platform.**

All **enterprise ready.**

Ansible automation
Technologies combined into a product delivered to customers

Ansible cloud services
Platform services provided via cloud.redhat.com

Ansible content
Use cases delivered via automation hub

17+ Open source components, integrated, ready to use with lifecycle support

31

Ansible Automates

Complex workflows / orchestration • Event-Driven Ansible • Content and content tools • Integration w/ 140 industry solutions

Infrastructure

Red Hat Enterprise Linux
Red Hat Satellite
Linux
Windows
NetApp
SAP
PURESTORAGE

Edge

podman
inductive automation.
Red Hat Enterprise Linux
Rockwell Automation
OPC UA

Cloud native

Red Hat OpenShift
kubernetes

Network

Routers	Switches
IPAM	LBs

Red Hat Ansible Automation Platform

Private cloud

Red Hat OpenStack Platform
NUTANIX
vmware

Security

PAM	SEIM
IDPS	Firewalls

ITSM

servicenow

Public cloud

AZURE RESOURCE MANAGER
AWS CloudFormation
Cloud Deployment Manager
Terraform
Azure
aws
Google Cloud

Red Hat
Ansible Automation
Platform

Introducing Event-Driven Ansible

Achieve new milestones in IT service efficiency

Automate decision making

Leverage numerous sources of events and make use of data

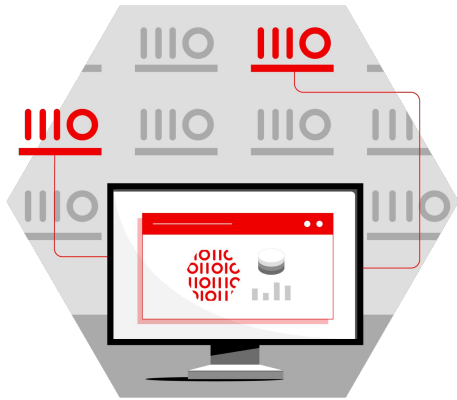**Implement** event-driven automation within and across multiple IT use cases

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

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Key building blocks in Event-Driven Ansible

Simple, powerful, agentless

Sources

All the sources of third party environment data and intelligence you want to use
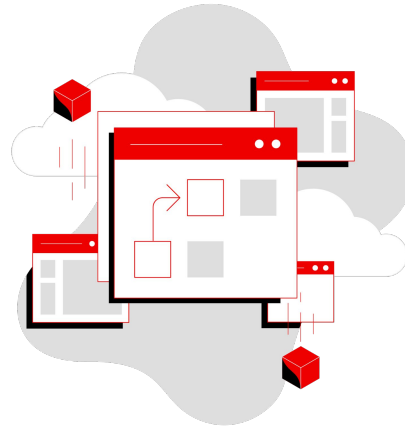
Rules

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.

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Use case **Example**: Dynatrace and Event-Driven Ansible
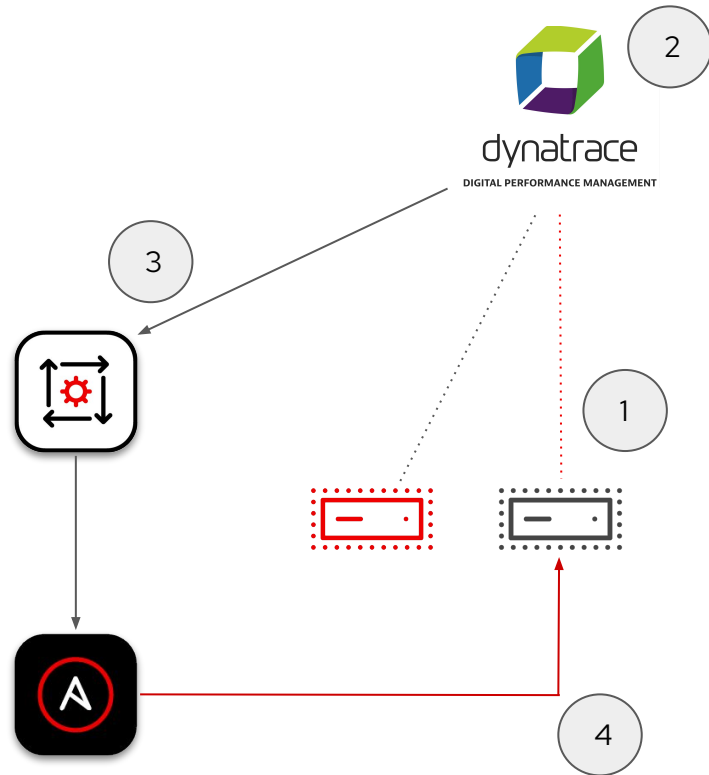

```yaml
---
- name: Listen for events from Dynatrace
  hosts: all
  sources:
    - dynatrace.eda.dt_esa_api:
        dt_api_host: "https://abc.live.dynatrace.com" or "https://abc.apps.dynatrace.com"
        dt_api_token: "asjfsjkfjfjh"
        delay: 60 (Default is 1 min) i.e plugin runs every 1 minute

  Rules:

    - name: Problem payload Dynatrace for CPU issue
      condition: event.payload.problemTitle contains "CPU saturation"
      action:
        run_job_template:
          name: "Remediate CPU saturation issue"
          organization: "Default"

    - name: Problem payload Dynatrace for App Failure rate increase issue
      condition: event.payload.problemTitle contains "Failure rate increase"
      action:
        run_job_template:
          name: "Remediate Application issue"
          organization: "Default"

    - name: Update comments in Dynatrace
      condition:
        all:
          - event.status == "OPEN"
      action:
        run_playbook:
```

What does infrastructure automation look like?
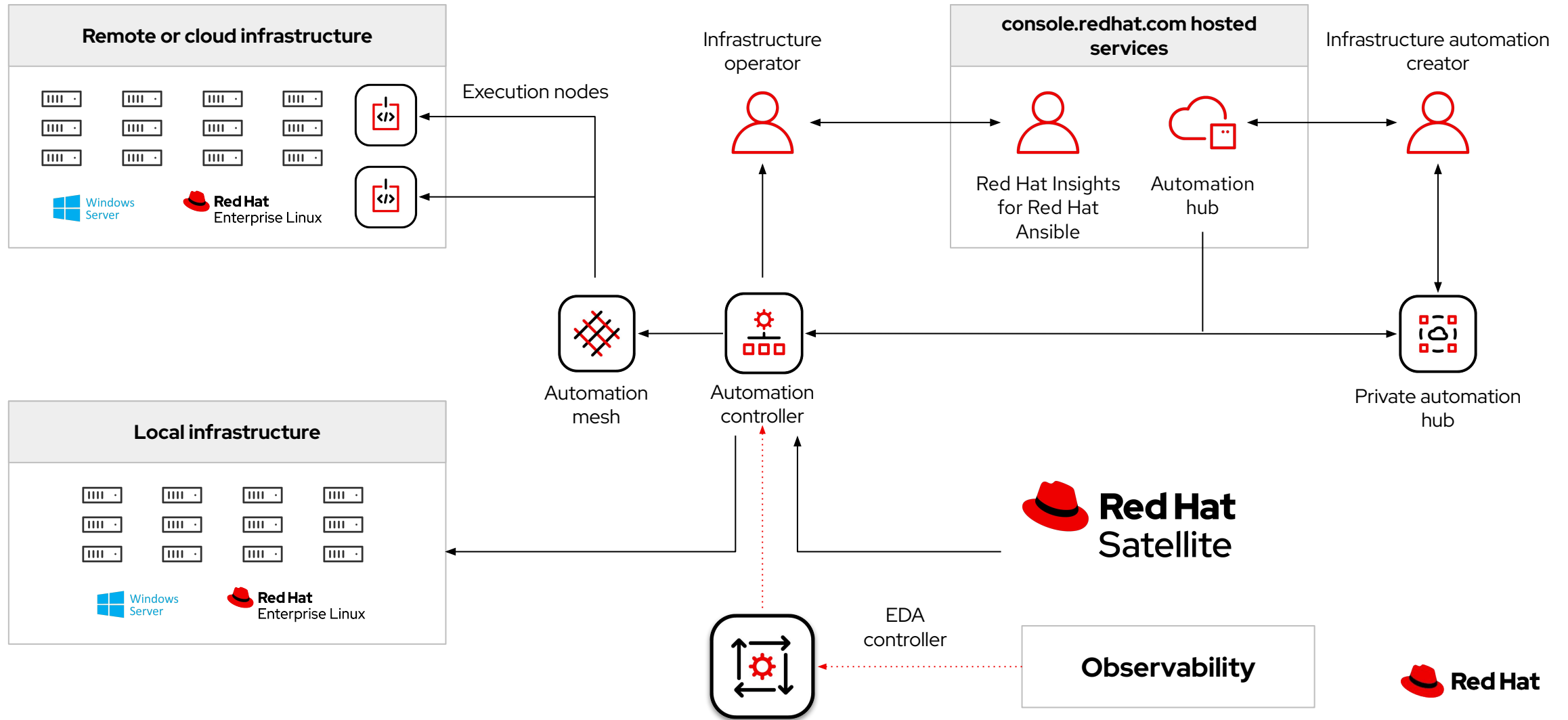
Ansible Lightspeed

with IBM watsonx Code Assistant

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Red Hat wants to accelerate automation, from creation through execution

Why? Because our customers are under increasing pressure to be more efficient, and turn to Ansible automation to help.

The key **to getting the most out of automation, is to drive it from an enterprise level**. That involves multiple teams working together to create automation code.

Code that scales across domains.
Code that meets the varied needs of the teams using it.
Code that is trusted and compliant.
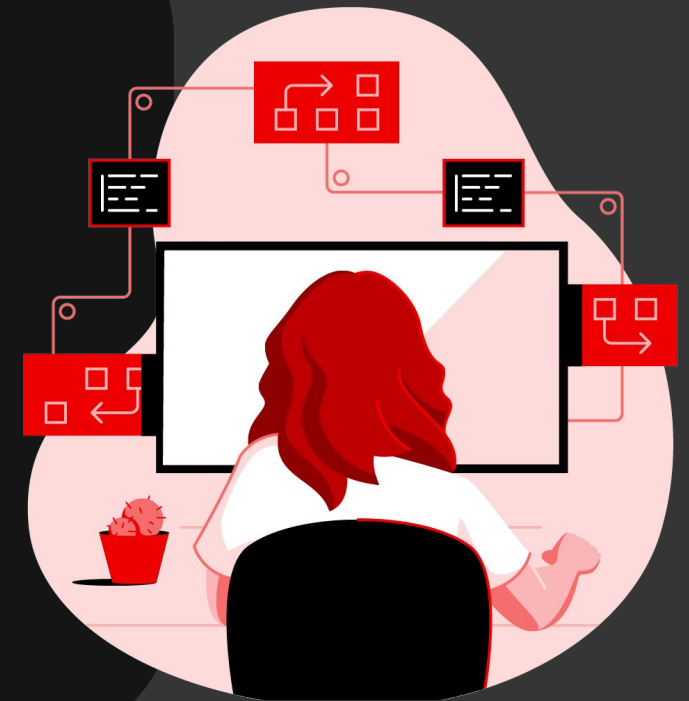
The AI revolution has come to automation

Less time spent coding

Accessible with natural language

More focus on automations outcomes

Expand into new automation domains

Better code

Bridge skills gaps

Integrating generative AI into automation can greatly enhance the automation creation experience, helping creators produce better automation content, more quickly.

The end result? Improved overall efficiency of an organization's automation efforts, **improving ROI and time to value.**

Ansible Lightspeed will transform the Ansible content creation process

> Generate playbook content from a natural language request

Content Generation

> Find me a playbook or role similar to what I'm writing

Content Discovery

> Review my playbook and help make it better

Content Optimization

> Tell me what this playbook is doing - and it's impact

Content Explanation

Features on roadmap for upcoming commercial offering

Process

Find the pockets of ad-hoc automation in your company, and grow them into a formal automation program. Bottom-up automation initiatives that grow organically are more likely to succeed than top-down, mandate-driven projects.

—

Gartner

Source:
Essential Skills for Automation Engineers

Ansible Automates

Automate in concert

Journey to automation maturity

Start small, think big

% of infrastructure managed

Tactical

▸ Remove the rote: automate low-value, high volume tasks

▸ E.g. Security patching

Unify silos

▸ Unifies siloed processes for faster innovation and resiliency

▸ E.g. automated DevOps

Digital transformation

▸ End to end "automation-first" mindset, prepare for event-driven automation

▸ E.g. Automate out to the Edge

Journey to hybrid cloud and modernization   →   Multi-cloud, Edge, event-driven

Governance, risk, and compliance

Automation-first culture transformation

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Automate everything you need

Many use cases across multiple domains

Do this...

Orchestrate	Manage configurations	Deploy applications	Provision	Deliver continuously	Secure and comply

On these...

Firewalls	Load balancers	Applications	Containers	Clouds
Servers	Infrastructure	Storage	Network devices	And more ...

150+
Certified platforms

ATLASSIAN   CYBERARK   ARISTA   aruba   splunk>   FORTINET   Resilient an IBM Company

aws   Azure   IBM Cloud   Google Cloud Platform   CISCO   DATADOG   Infoblox CONTROL YOUR NETWORK   f5

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Automate in concert

GROUPE BPCE

"**Red Hat's agile approach helped meet deadlines despite the impact of Covid.** The know-how and experience from Red Hat allowed us in **3 days to review nearly 80% of the scope of the project** and go very quickly in the following phases and **accelerate our ramp up on the Ansible platform** to meet our needs and become more autonomous"

—

Quentin Dommanget
System Engineer
BPCE-IT

45

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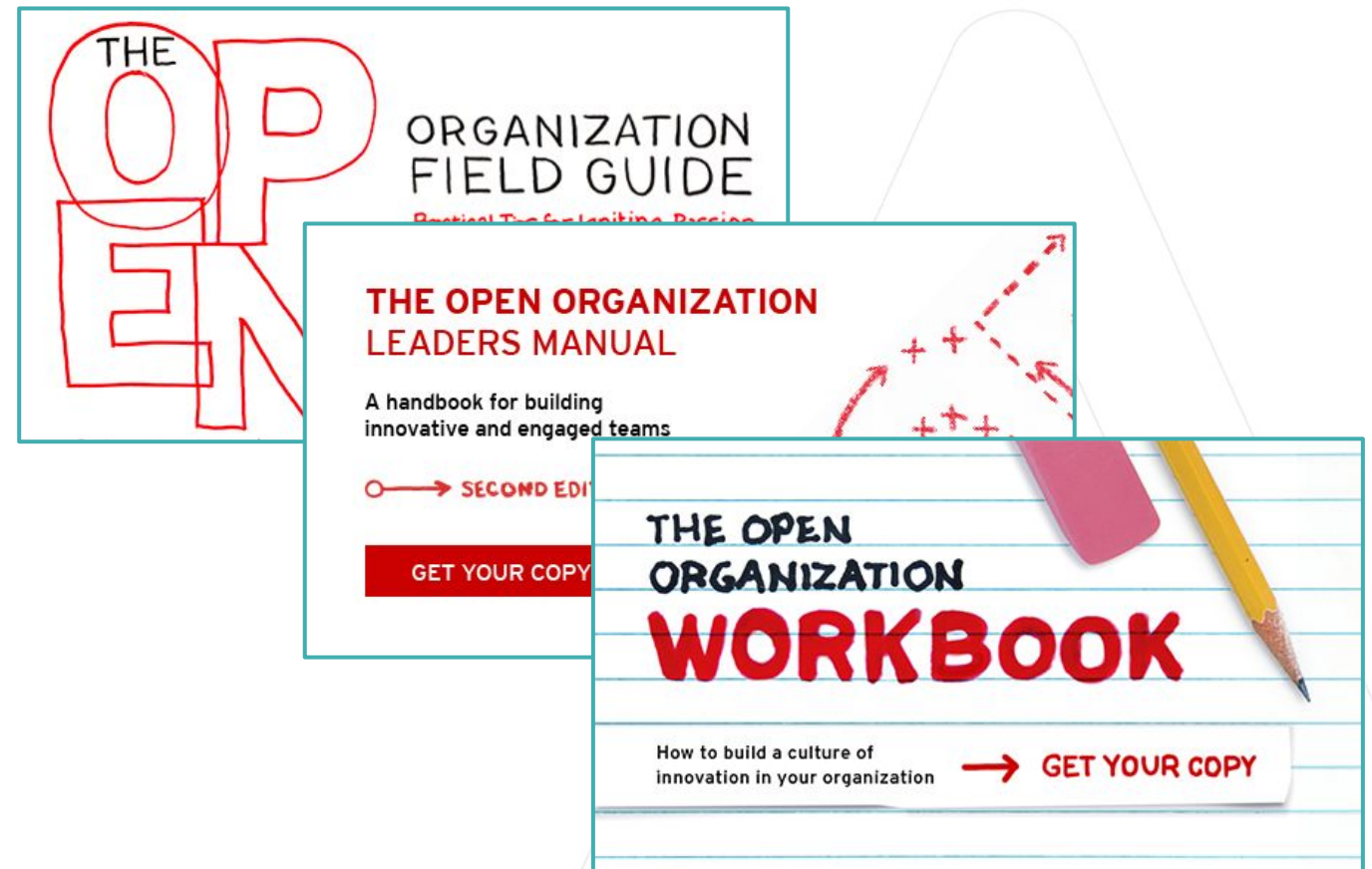
People

Automate in concert
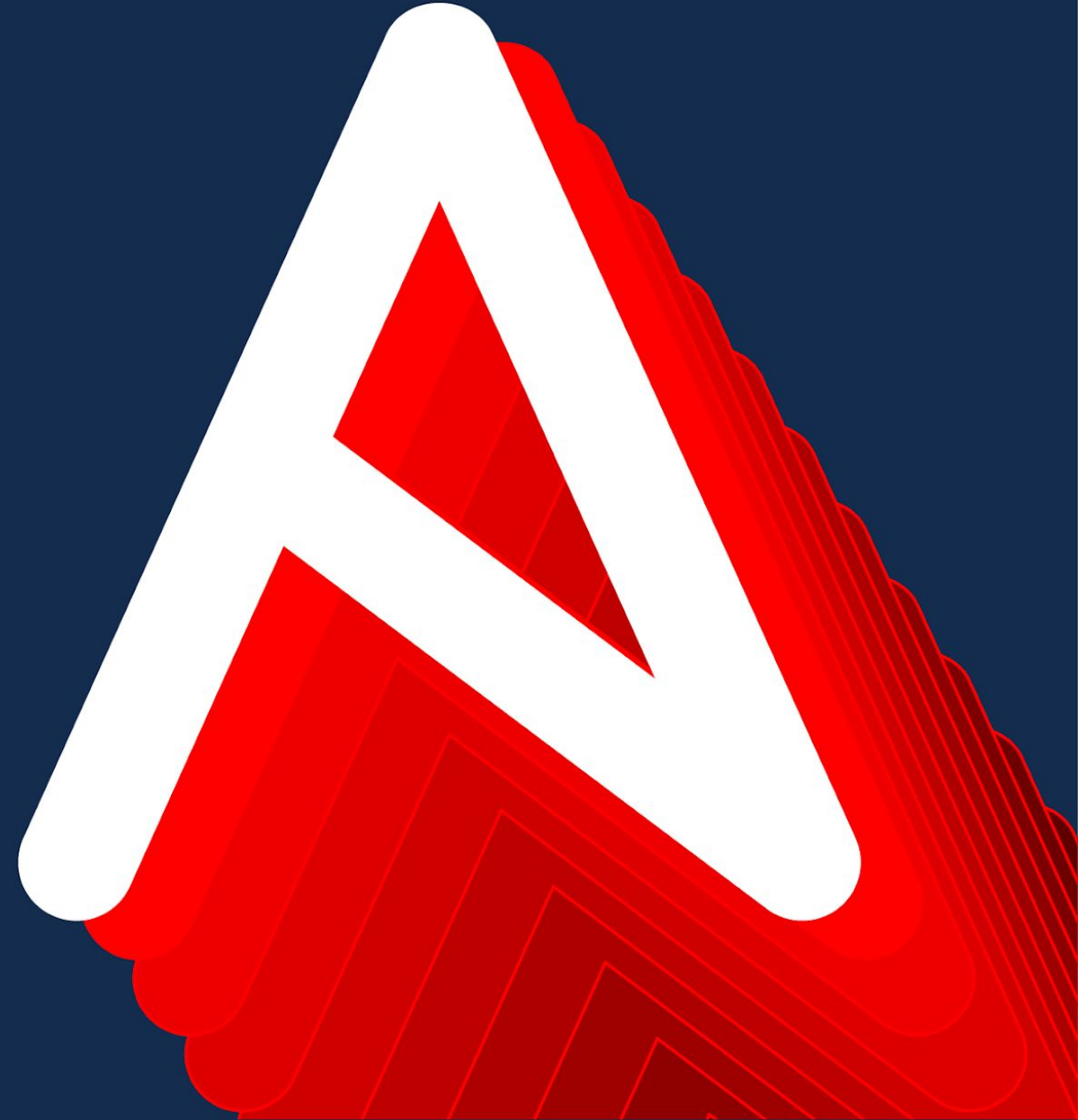
70% of digital transformations fail [1]

Organizations are making **technology investments** and getting limited results because they aren't prepared to **change their behaviors.**

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Automation culture

is a masterpiece

Source:
opensource.com/open-organization/resources/book-series#field

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Culture matters

Bain Insights

Culture's Role In Corporate Transformation

BCG

IT'S NOT A DIGITAL TRANSFORMATION WITHOUT A DIGITAL CULTURE

Harvard Business Review

Leaders Focus Too Much on Changing Policies, and Not Enough on Changing Minds

McKinsey & Company

Digital success requires a digital culture

Gartner.

The Key to Business Transformation is Culture

MITRE

Before Launching Government Transformation, Establish a Culture of Innovation

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Program:
Automation adoption journey

Empower business transformation with highly scalable automation, orchestration of capabilities, and evolved ways of working in a culture of collaboration.
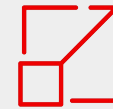
Define your journey

Strategy

Chart a journey map from foundational use case to target state with measurable business outcomes.

Foundation

Empower a cross-functional team to automate and operate an initial set of workflows in an initial automation framework.

Expand and evolve

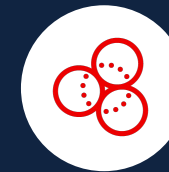Expand skills, add use cases, and extend solutions to match business needs and opportunities.

Increment 0
Discover

Increment 1
Pilot

Increment 2
Integrate

Increment 3
Accelerate

Increment 4
Optimize

50

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Automate in concert

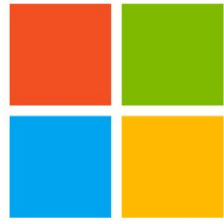"Due to complex and time-intensive processes, the community version did not work to our satisfaction. **Automation is a critical component of our business operations**, and enterprise support was a key reason we decided to use Red Hat's solution."

—

Felix Kuehner
Compute & Runtime Services — Linux
Schwarz IT

The Schwarz Group enhances Linux server management with Red Hat Ansible Automation Platform

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Automate in concert

"Every single process, services, and applications at Microsoft is going through digitization and optimization. We are investing in automating all of our critical business processes. So technology is important. It's critical. **But culture comes first!** "

—

Ludovic Hauduc
General Manager
Core Platform Engineering, Microsoft

Ansible Automates

Automate in concert

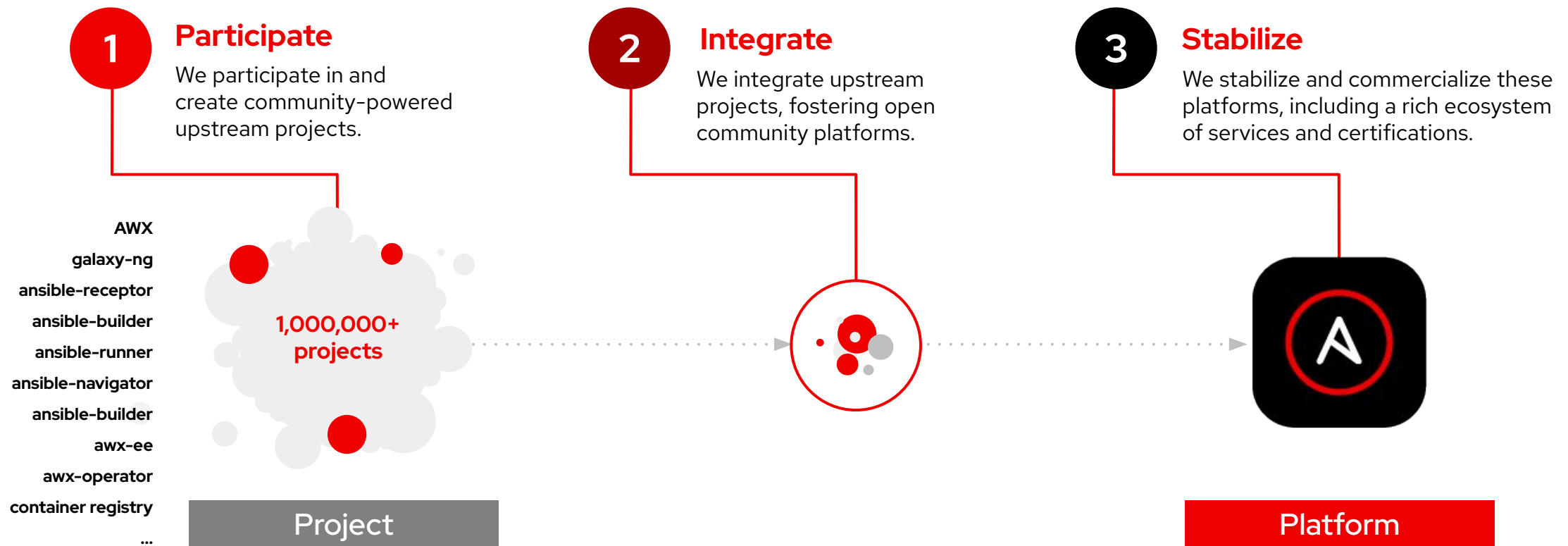> "What we wanted to do is have a **culture just truly obsessed with automation**, and automating every manual task we can get our hands on enabling our staff **to focus on higher-value work**"

—

Amir Aroonioe Mills
CIO
Discover Financial Services

Source:
"Red Hat Ansible Automation Accelerates Past Major Adoption Milestone, Now Manages More Than Four Million Customer Systems Worldwide," 11 Sep. 2019.

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The last mile

It takes more than code to empower technology

(1) Participate

We participate in and create community-powered upstream projects.

(2) Integrate

We integrate upstream projects, fostering open community platforms.

(3) Stabilize

We stabilize and commercialize these platforms, including a rich ecosystem of services and certifications.

AWX
galaxy-ng
ansible-receptor
ansible-builder
ansible-runner
ansible-navigator
ansible-builder
awx-ee
awx-operator
container registry
...

1,000,000+ projects
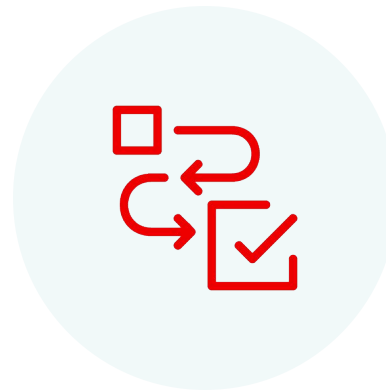
Project

Platform

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Automate in concert

It takes more than technology to move the business forward

Platform

Open source
Automation
Connected

Process

Agile
Continuous
Iterative

People

Collaborative
Transparent
Open

55

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Whats next?

Evaluate your savings
redhat.com/savetime ▸

Increase your knowledge
ansible.com/get-started ▸

Start your automation adoption journey
ansible.com/contact-us ▸

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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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