Tech Journey

Your Fast Track to IT Automation Genius with AWS and Red Hat

Simon Briggs

Red Hat Ecosystem SA

Focused on AWS EMEA

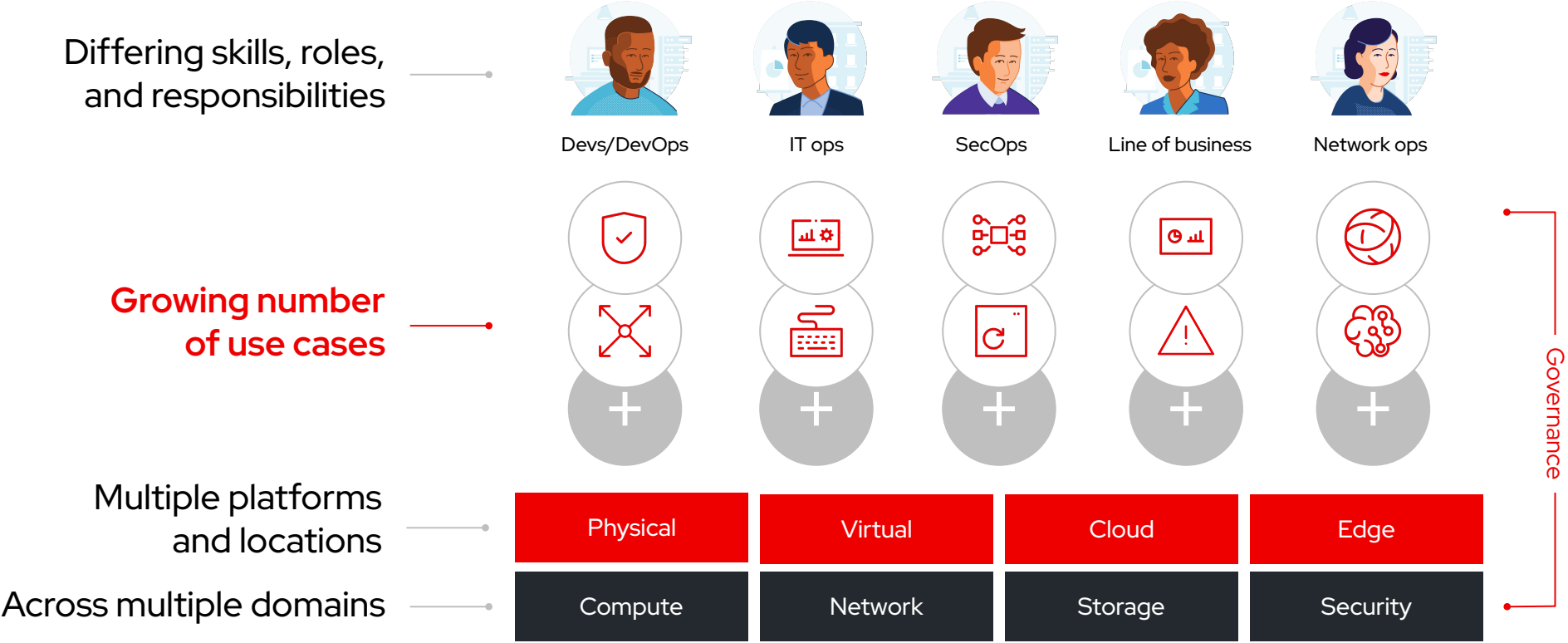sbriggs@redhat.com

Fabio Alessandro "Fale" Locati

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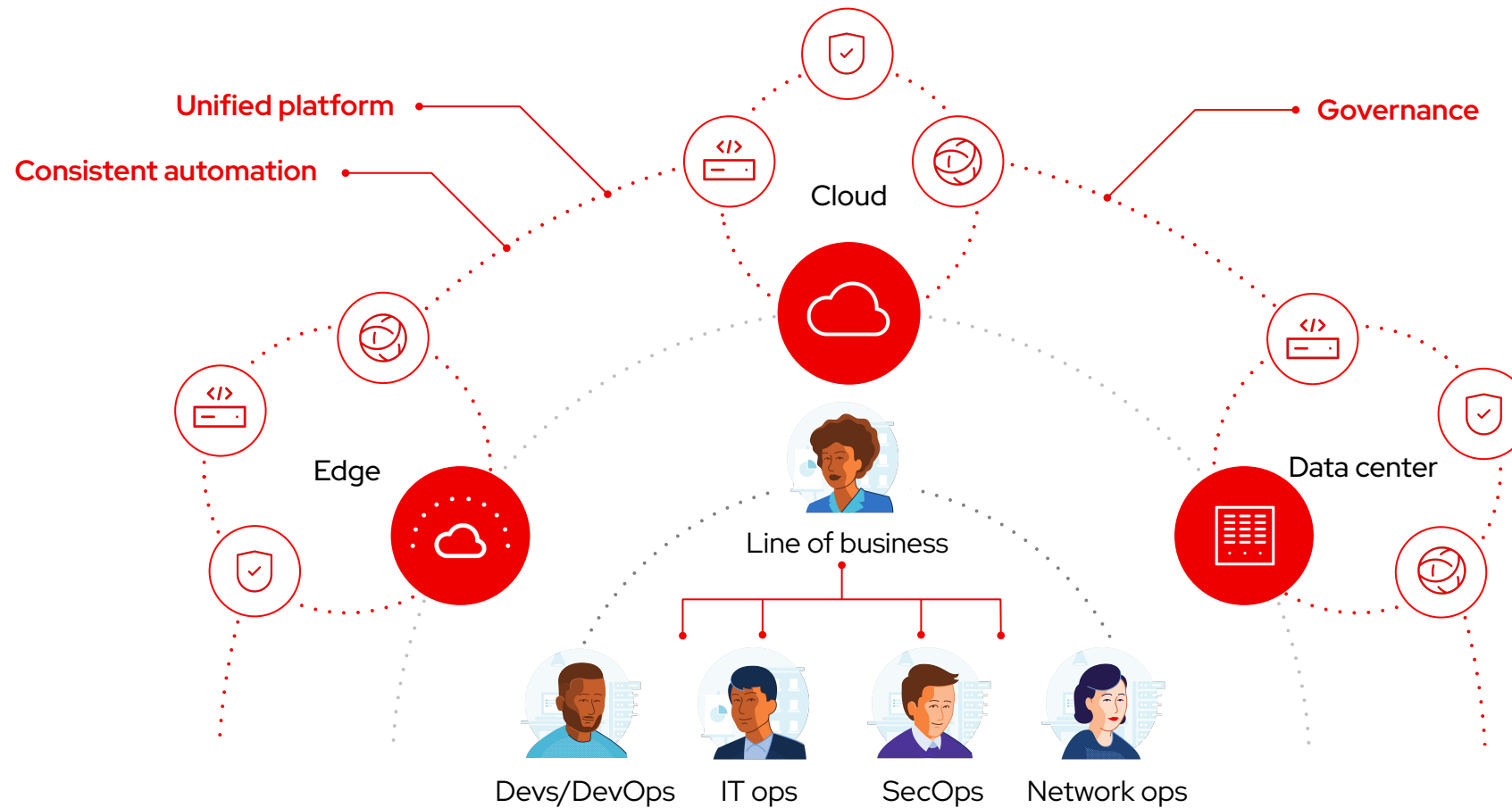
Focused on AAP in EMEA

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Red Hat
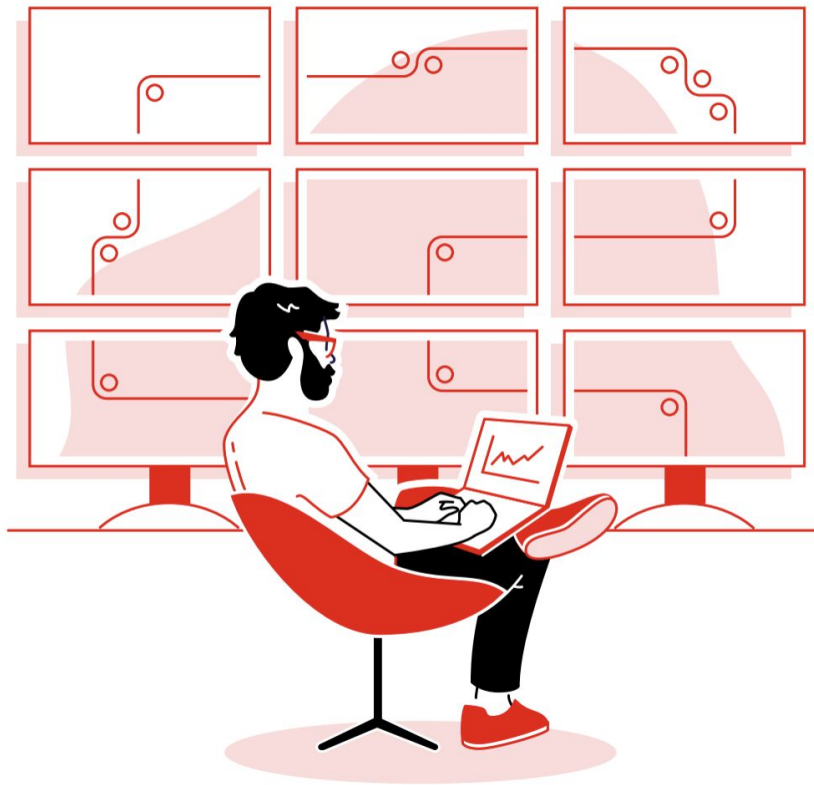
Automation with Ansible Automation Platform

Many organizations share the same challenge.

Differing skills, roles, and responsibilities

Devs/DevOps	IT ops	SecOps	Line of business	Network ops

Growing number of use cases

Multiple platforms and locations

Across multiple domains

Physical	Virtual	Cloud	Edge
Compute	Network	Storage	Security

Governance

The solution? Break down the silos.

Unified platform

Consistent automation

Governance

Cloud

Edge

Data center

Line of business

Devs/DevOps   IT ops   SecOps   Network ops

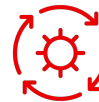# What is the value of Ansible Automation Platform?

Increase speed

Reduce the number of manual steps and GUI-clicking, enable the orchestration of multiple tools and accelerate their interaction with each other
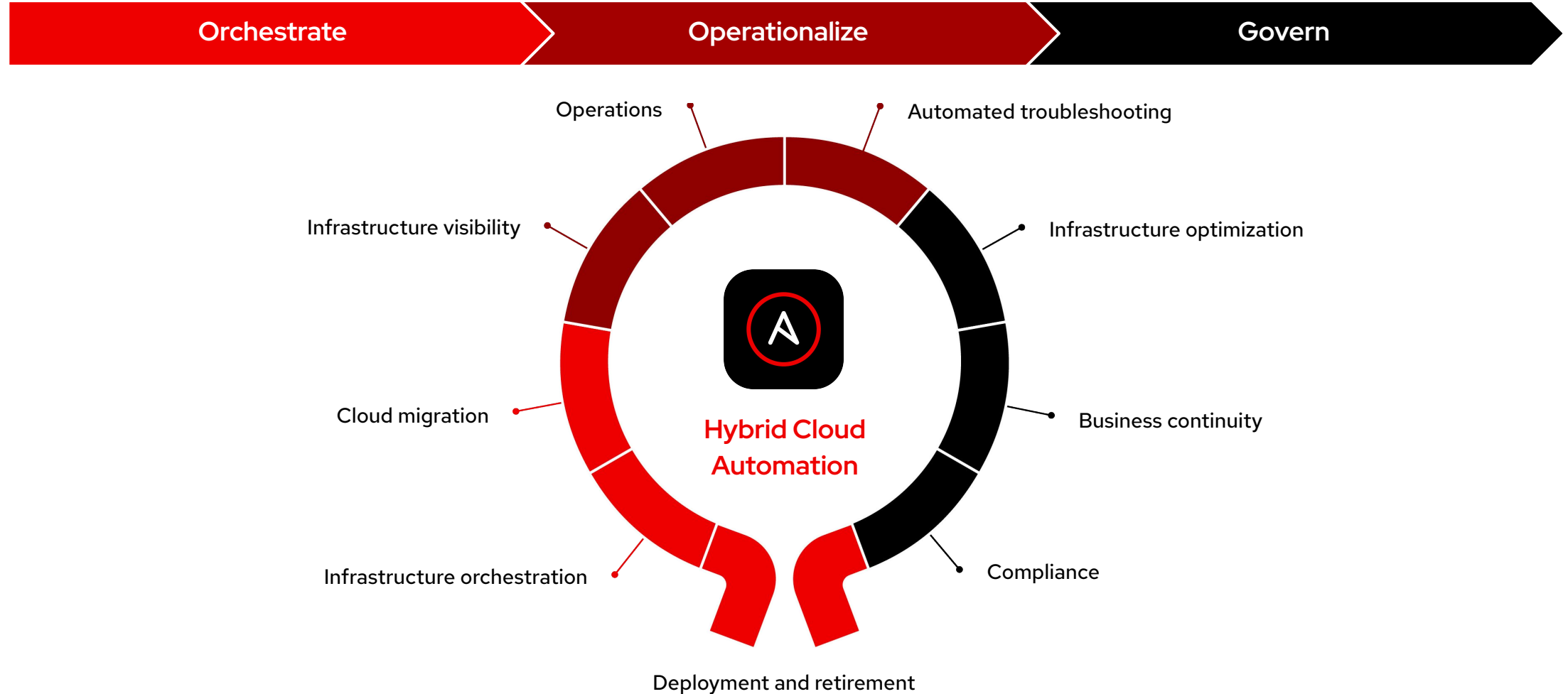
Reduce human error

Minimize risks with automated workflows, avoid human operator errors in time-sensitive, stressful situations

Ensure consistency

Enable auditable and verifiable deployment processes by using a single tool and common language

Automation use cases

Orchestrate	Operationalize	Govern

Operations

Automated troubleshooting

Infrastructure visibility

Infrastructure optimization

Cloud migration

Hybrid Cloud Automation

Business continuity

Infrastructure orchestration

Compliance

Deployment and retirement

Public cloud   **Cloud native**   **Private cloud**

Red Hat

Collaborative automation across your ecosystem

140+ Certified Content Collections

55+ Certified Technology partners

100+ Systems integrators + Resellers

55,000 GitHub stars

1000+ Active open source contributors

Infrastructure

Red Hat Enterprise Linux • Linux • Windows • nimble storage • NetApp • Hewlett Packard Enterprise • PURESTORAGE

Network

JUNIPER NETWORKS • CISCO • ARISTA • Infoblox NEXT LEVEL NETWORKING • aruba NETWORKS • f5

Security

CYBERARK • paloalto NETWORKS • CROWDSTRIKE • splunk> • Check Point SOFTWARE TECHNOLOGIES LTD • FORTINET

Edge

podman • inductive automation • Red Hat Enterprise Linux • RA Rockwell Automation • OPC UA

Red Hat Ansible Automation Platform

ITSM

servicenow

Cloud native

Red Hat OpenShift • kubernetes

Private cloud

Red Hat OpenStack Platform • NUTANIX • vmware

Public cloud

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

Red Hat

Red Hat Ansible is the platform for mission-critical automation
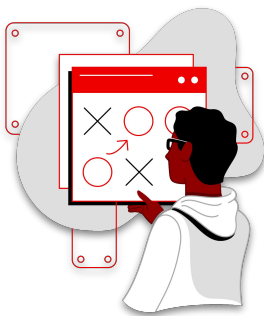
A strategic solution

✓ **Automate with flexibility** across use cases, domains and IT footprints; anything, anywhere.

✓ **Deliver for the business** by ensuring consistency, resilience, and performance at scale.

✓ **Unify teams** on a shared platform that meets their needs.
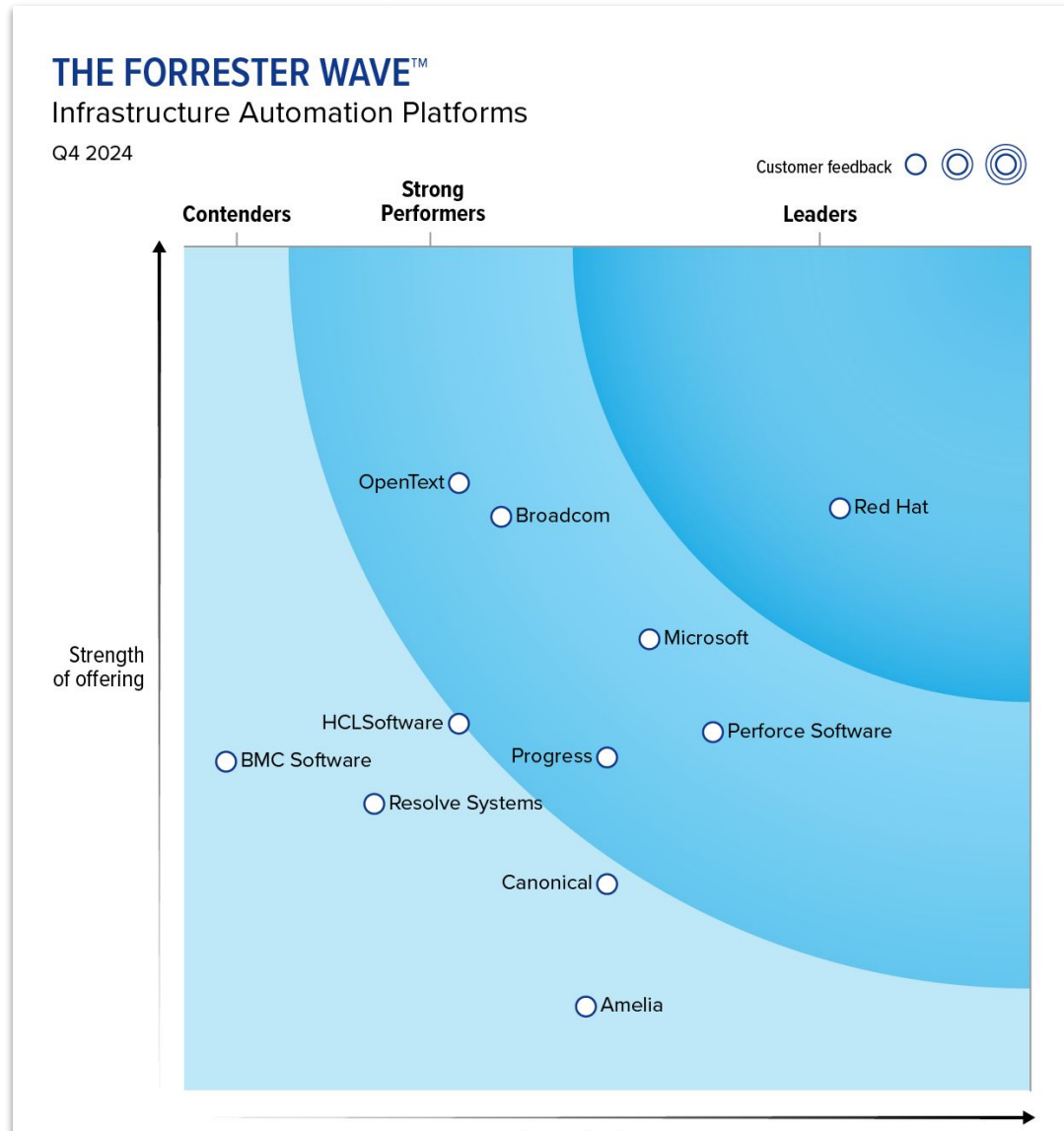
A force multiplier for IT ops

✓ **Maximize the ROI** of your other tools by using event-driven automation to make them more actionable.

✓ **Tame complexity** by extending operational subject matter expertise across your organization in a standardized, codified way.

A foundation for AI adoption

✓ **Amplify the impact of AI,** by orchestrating the tools in your stack to get the most from their AI capabilities.

✓ **Optimize your infrastructure,** by integrating AI to make it more intelligent and resilient.

Red Hat

Red Hat is *the leader* in the 2024 Forrester Wave™: Infrastructure Automation Platforms

THE FORRESTER WAVE™
Infrastructure Automation Platforms
Q4 2024

Customer feedback

Contenders | Strong Performers | Leaders

Strength of offering

- OpenText
- Broadcom
- Red Hat
- Microsoft
- HCLSoftware
- BMC Software
- Progress
- Perforce Software
- Resolve Systems
- Canonical
- Amelia

Key takeaways from vendor profile

> "The Ansible Automation Platform is a comprehensive solution for various use cases, expanding into event-driven automation to reduce human intervention and reduce the burden of writing code for each scenario."

> "Red Hat's strategy for a collective and inclusive user community is spurring growth. Its vision and partner ecosystem are both strengths...supported by the community, Red Hat Ansible addresses numerous automation use cases."

> "Red Hat offers a good all-around automation tool for organizations that aim to enable users to develop mature automation and integrate technology silos."

Source: Forrester Research, "The Forrester Wave™: Infrastructure Automation Platforms, Q4 2024," 2024.
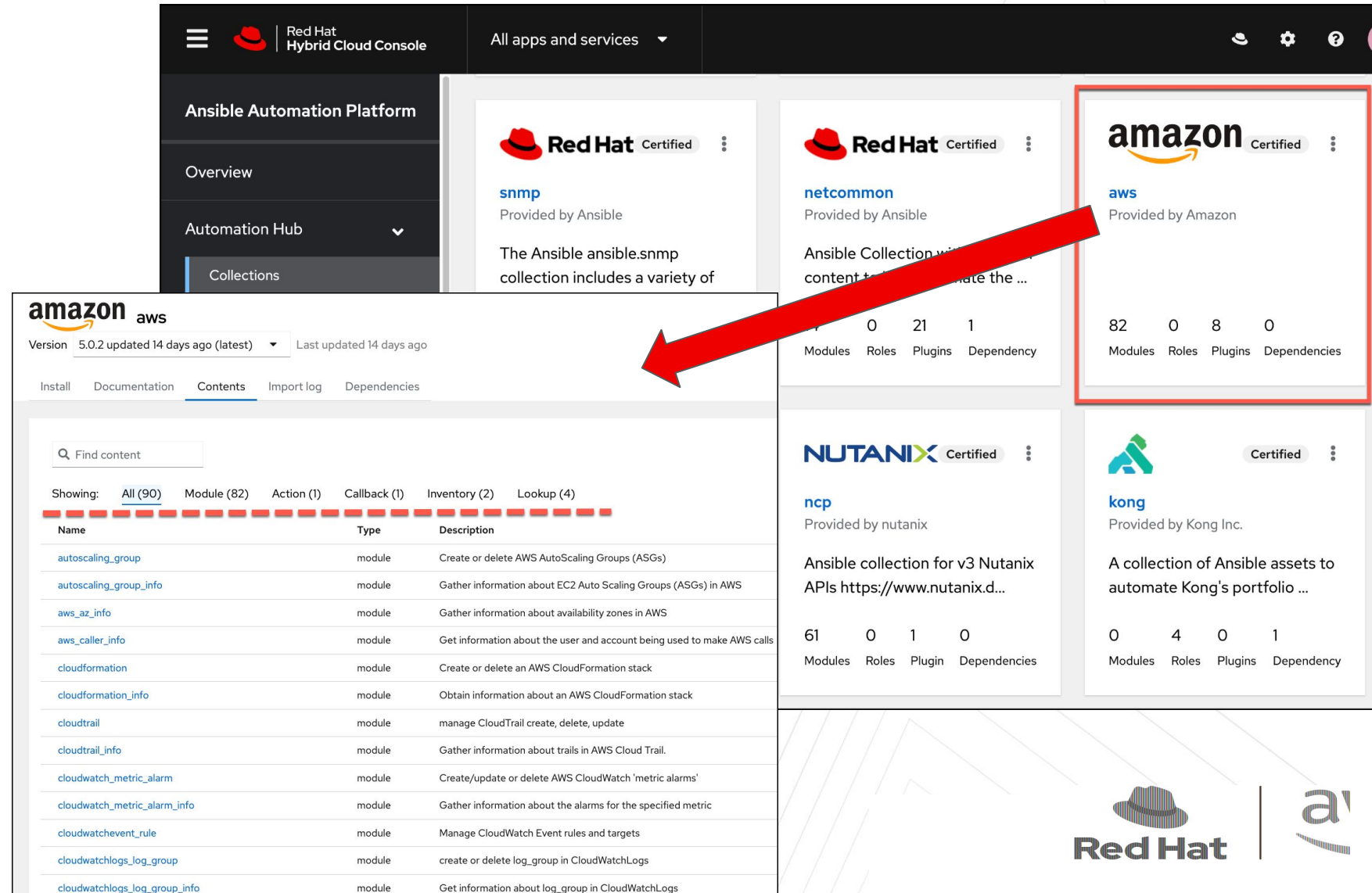
Ansible Automation Platform for AWS

Version number here V00000

Red Hat Certified Collection for AWS

▶ Collection name:
amazon.aws

▶ Numerous modules, inventory and lookup plugins (90+)

▶ Simplifies automation against AWS resources

▶ Sample YAML code

What about other cloud automation tools?

HashiCorp
Terraform

AWS
CloudFormation

▸ **If these tools are** already being used for infrastructure provisioning, Ansible can compliment the implementation to automate configuration and life cycle management.

▸ **If these tools are not** being used for infrastructure provisioning, Ansible can be used to automate provisioning as well as configuration and life cycle management.

Red Hat

Ansible Automation Platform on AWS

Ansible Automation Platform hosting options on AWS

Purchased directly through Red Hat

Red Hat Enterprise Linux

Red Hat OpenShift

Red Hat Enterprise Linux 8.3+ x86_64 (physical, virtual)

Red Hat OpenShift via dedicated Ansible Automation Platform operator (physical, virtual)

Self Managed (on-premise or cloud)

Purchased through AWS Marketplace

aws

On **AWS marketplace**

On RHEL, on ROSA

aws

On **AWS marketplace**

Red Hat Ansible Automation Platform Service on AWS

Customer deployed Self-managed

Red Hat deployed Red Hat managed

Cloud Marketplace Deployment Types

Ansible Automation Platform Service on AWS
Managed

▸ Red Hat managed and monitored control plane

▸ Available as a monthly pay-as-you-go model, and annual contract with monthly pay-as-you-go for any overages

▸ Consistent upgrade path to the latest version of Ansible Automation Platform upgraded by Red Hat

▸ Auto-scaling managed by Red Hat

▸ Premium support from Red Hat

Ansible Automation Platform on AWS
Self-Managed subscription only

▸ Self-managed deployment and configuration for a fully customizable deployment

▸ Available as annual subscription

▸ Available on secure clouds (Government Cloud, etc.)

▸ Self-managed monitoring and scaling

▸ Premium support from Red Hat

Zero to automation in minutes

Deploy straight from the AWS Marketplace portal

Start managing your AWS resources quickly

Committed spend with AWS counts towards this Ansible Automation Platform deployment

Red Hat Ansible Automation Platform Service on AWS

▶ A Red Hat managed platform that saves customers time and money
  - Focus on innovation through automation instead of managing the platform
▶ Scales to to meet the demands of large enterprises
  - Simplify networking and bring automation closer to workloads
▶ Purchase via AWS and draw down against committed spend agreements (EDP – AWS Enterprise Discount Program)

Ansible Automation Platform Service on AWS

Red Hat hosted control plane

Ansible
Automation
Platform

Hop Node   Hop Node

aws

Amazon Web Services

Customer hosted execution plane

Customer
infrastructure

Execution Node(s)

Customer premises
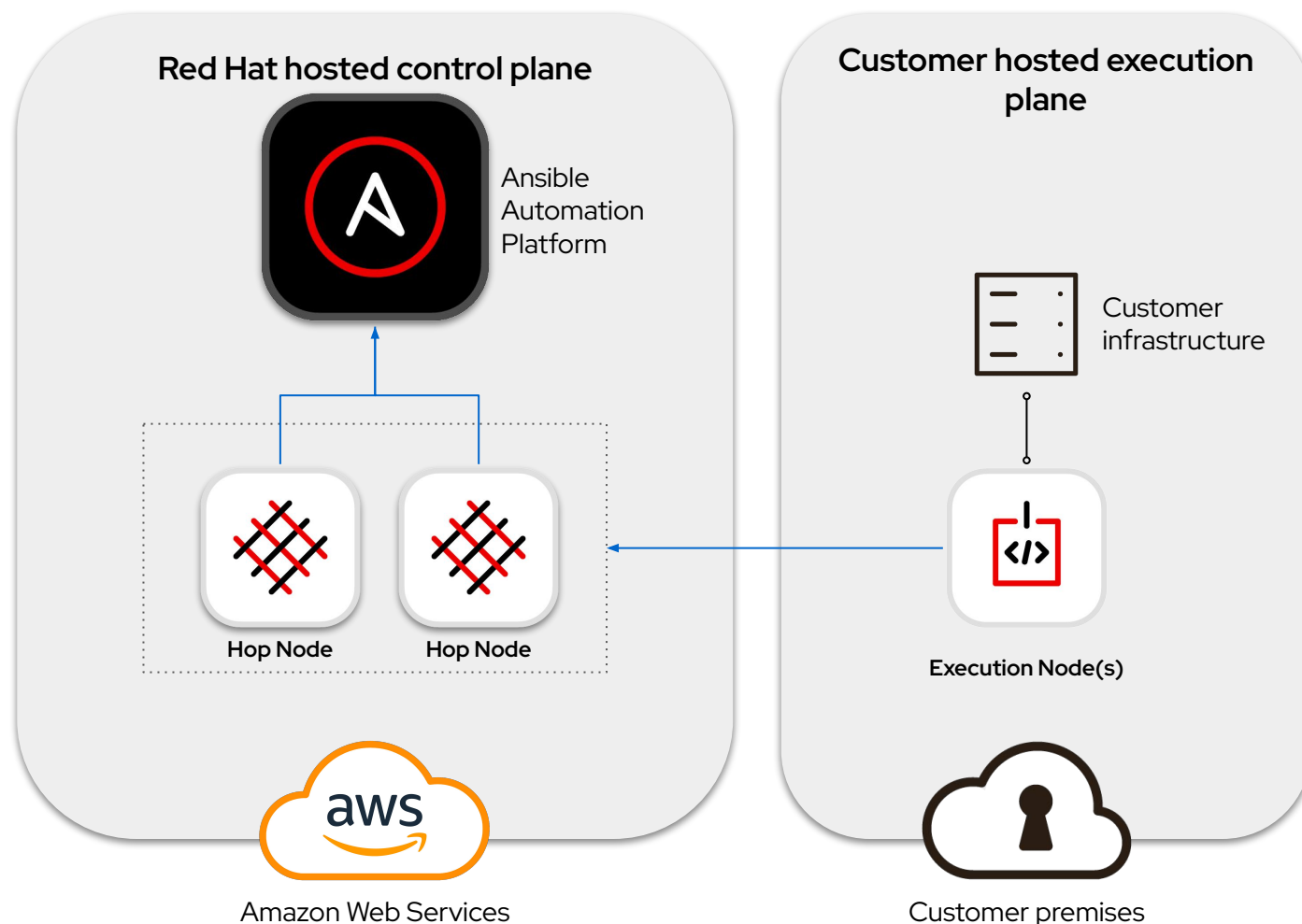
▶ **Red Hat Ansible Automation Platform Service on AWS** is a fully managed Ansible Automation Platform control plane

▶ **EDA** to be delivered 1H 2025

▶ **Execution nodes** – deployed in your infrastructure, with the ability to pull automation tasks vs push, simplifying networking and minimizing network security configuration

Red Hat

Start small: quick victories for cloud administrators
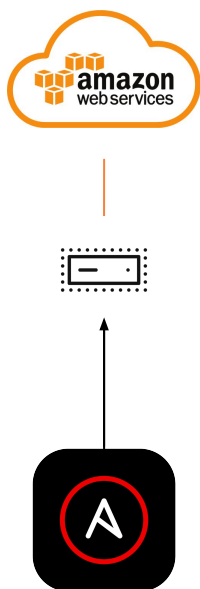
Infrastructure visibility

Use Ansible to retrieve information

▸ Read-only, no production changes required

▸ Dynamic inventory and reporting

▸ Understand your cloud footprint

Compliance

The cloud as code

▸ Common experience across public clouds

▸ Enforce IAM policies
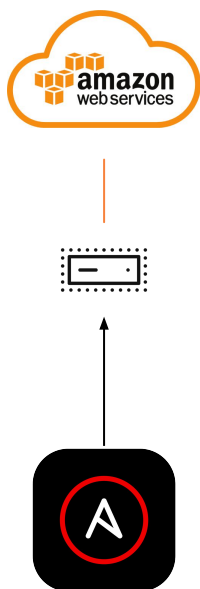
▸ Operate on mutable and immutable infrastructure

Business continuity

Keep the lights on

▸ Move and copy resources to cloud

▸ Create and manage policies for backups

▸ Manage disruptions and failures

Walk

Automation becomes mainstream: manage your cloud

Cloud operations

Automate Operations

▸ Application deployments and CI/CD pipelines

▸ Life cycle management and enforcement

▸ OS patching and maintenance

Deployment and retirement

Provision, configure and teardown cloud instances

▸ Create turn key deployments for infrastructure teams

▸ Govern instance creation and enforce retirements

▸ Create service catalog items for ordering environments

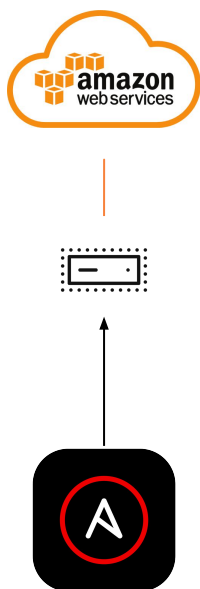### Cloud migration

Move workloads to where you need them

▸ Help operators adopt public cloud

▸ Reduce friction for migration to cloud native

▸ Unify automation architecture across legacy and cloud native

20

Think big: institutionalizing automation into your organization

Infrastructure optimization

Save time and money

▸ Turn off unused resources

▸ Rightsize cloud resources

▸ Recover orphaned resources

Infrastructure orchestration

Break down silos

▸ Integrate with infrastructure outside the cloud

▸ Orchestrate business outcomes versus tech silos

▸ Apply consistent compliance across all infrastructure

Automated troubleshooting

Respond faster to incidents

▸ Speed up mean time to innocence

▸ Apply RBAC to set limits and policies

▸ Integrate with an organizations ITSM solution

Next steps

Version number here V00000

Resources

Continue your automation journey with Red Hat Ansible Automation Platform on AWS

Ansible Automation Platform on AWS

Landing page

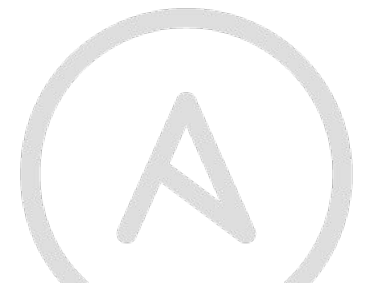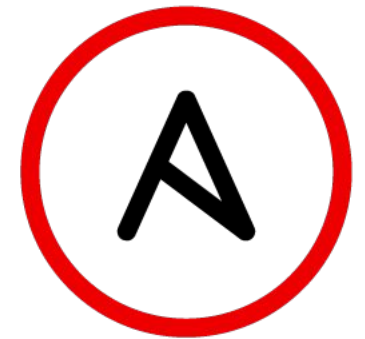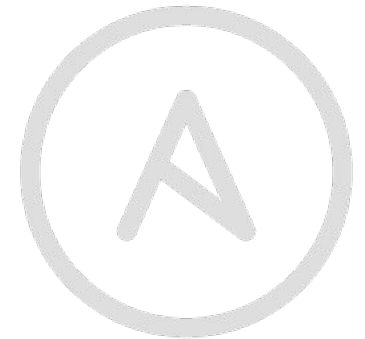Ansible Automation Labs for AWS

red.ht/ansible_labs

E-book:

Automate your hybrid cloud at scale

Learn more

Detail:

Using automation to get the most from your public cloud

Learn more

![Red Hat Ansible Automation Platform logo]

Tech Journey

Build your automation strategy

Next Sessions

April 9, 2025 10:00 AM CET
Workshop
Getting started with Red Hat Ansible Automation Platform

April 24, 2025 10:00 AM CET
Demo
Installing Red Hat Ansible Automation Platform 2.5

May 6, 2025 10:00 AM CET
Demo
Introduction to the new containerized installation

May 28, 2025 10:00 AM CET
Workshop
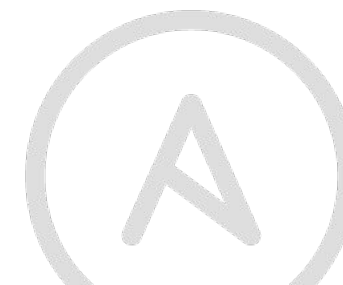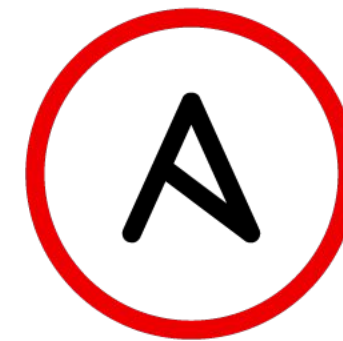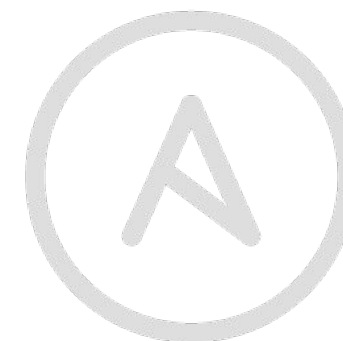**Red Hat Ansible Automation Platform 2.5 Deep Dive**

June 5, 2025 10:00 AM CET
Demo
Ansible-Plugins for Red Hat Developer Hub (backstage)

Other **Tech Journeys**

Adopt and scale AI

One platform. Unlimited potential

Straightforward migration. Lasting modernization.

Accelerate your application modernization journey

Modernize your network with automation

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.

linkedin.com/company/red-hat

youtube.com/user/RedHatVideos

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Appendix: AAP Service on AWS Consumption

Ansible Automation Platform as a Service on AWS

Two Independent Meters

Managed Active Node

- Sold in "tiers", which are volume commitments.
- A tier is paid for annually, but counted monthly.
- Each additional node counted above the customer's tier is billed individually per-month.

Infrastructure Fee

- Metered hourly regardless of automation use.
- Constant price regardless of the managed active node tier.
- Paid by customer on a monthly basis.

Example of a Contract with Pay-as-you-go

Example: 1000 Managed Nodes annual contract

300

200

1000 Nodes

Managed Nodes

1   2   3   4   5   6   7   8   9   10   11   12
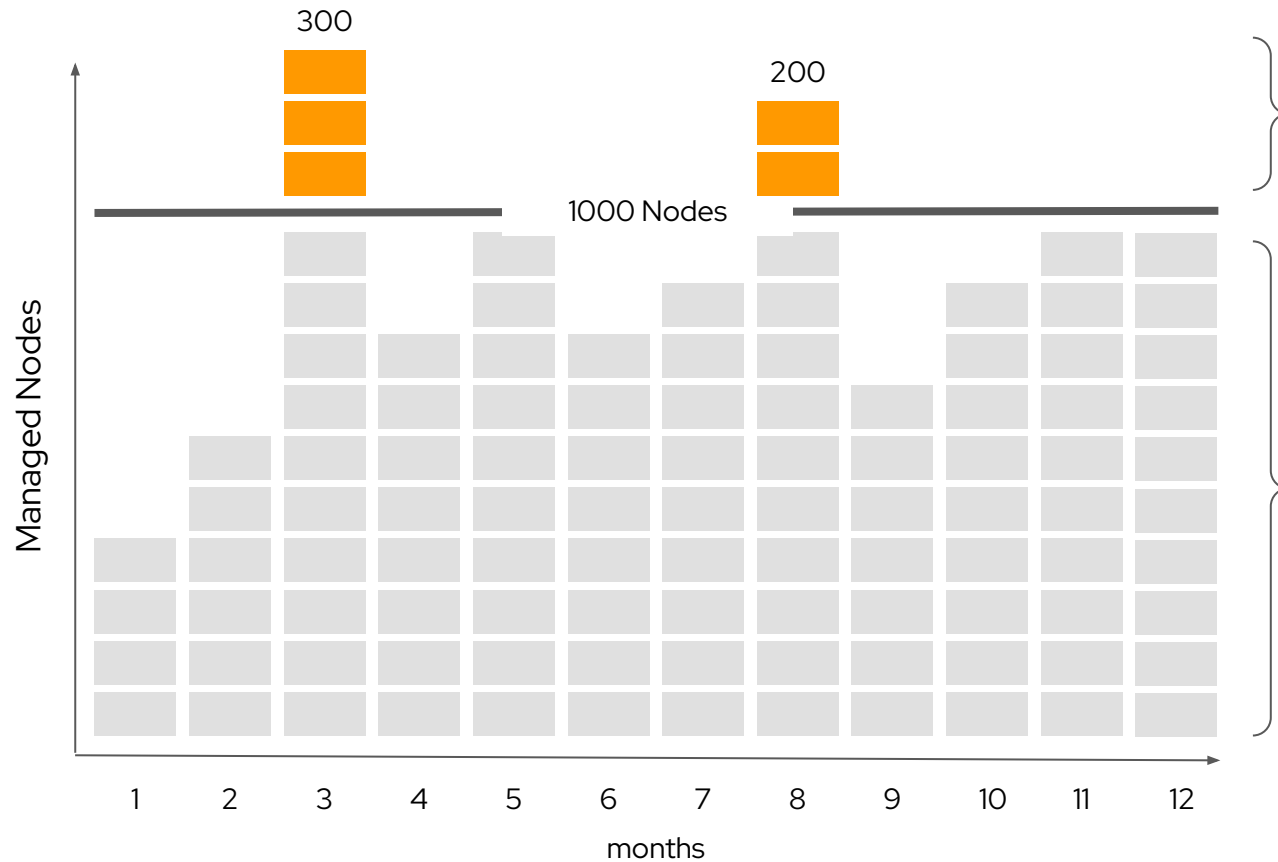
months

Each Additional Node
Counted and Billed Individually
(monthly)

The number of nodes
automated at-or-below the
floor are always billed at the
floor rate **(annually)**

1 Year Contract Term

Red Hat

Red Hat Ansible Automation Platform on AWS

Runs on your AWS cloud

Integrate with AWS services

Supported by Red Hat

Integrated to AWS billing

Counts toward spend agreements

IT ecosystem automation

Network/security

ITSM

Services and workflow

Monitoring and analytics

Red Hat
Ansible Automation Platform

aws

Connecting on-premise and private cloud

Private cloud

Open hybrid cloud

Physical

Virtual

Public cloud

Private cloud

Automation from your AWS cloud to on-premises, edge, and IT resources

Red Hat | aws