

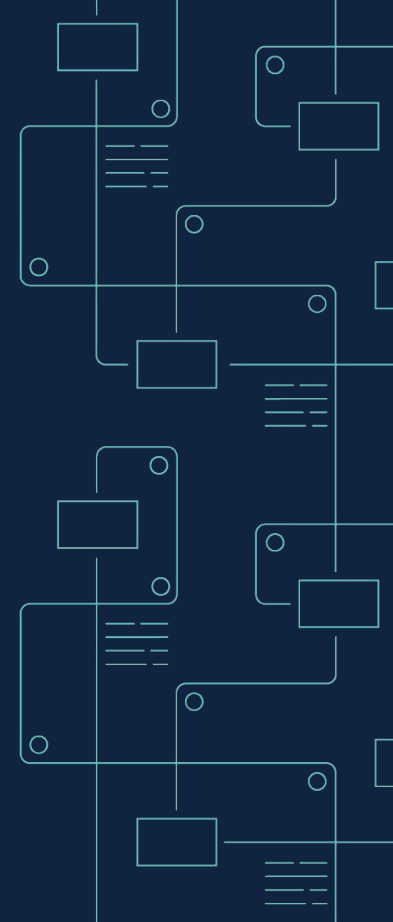


La base di una strategia Hybrid Cloud di successo

IT Automation

Massimo Ferrari
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Ansible Automation

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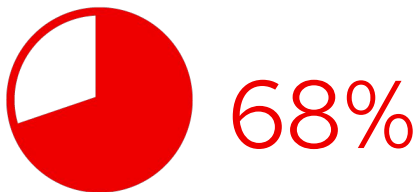


“““

Automation is now a “boardroom imperative.”

Forrester

IT Automation is a priority



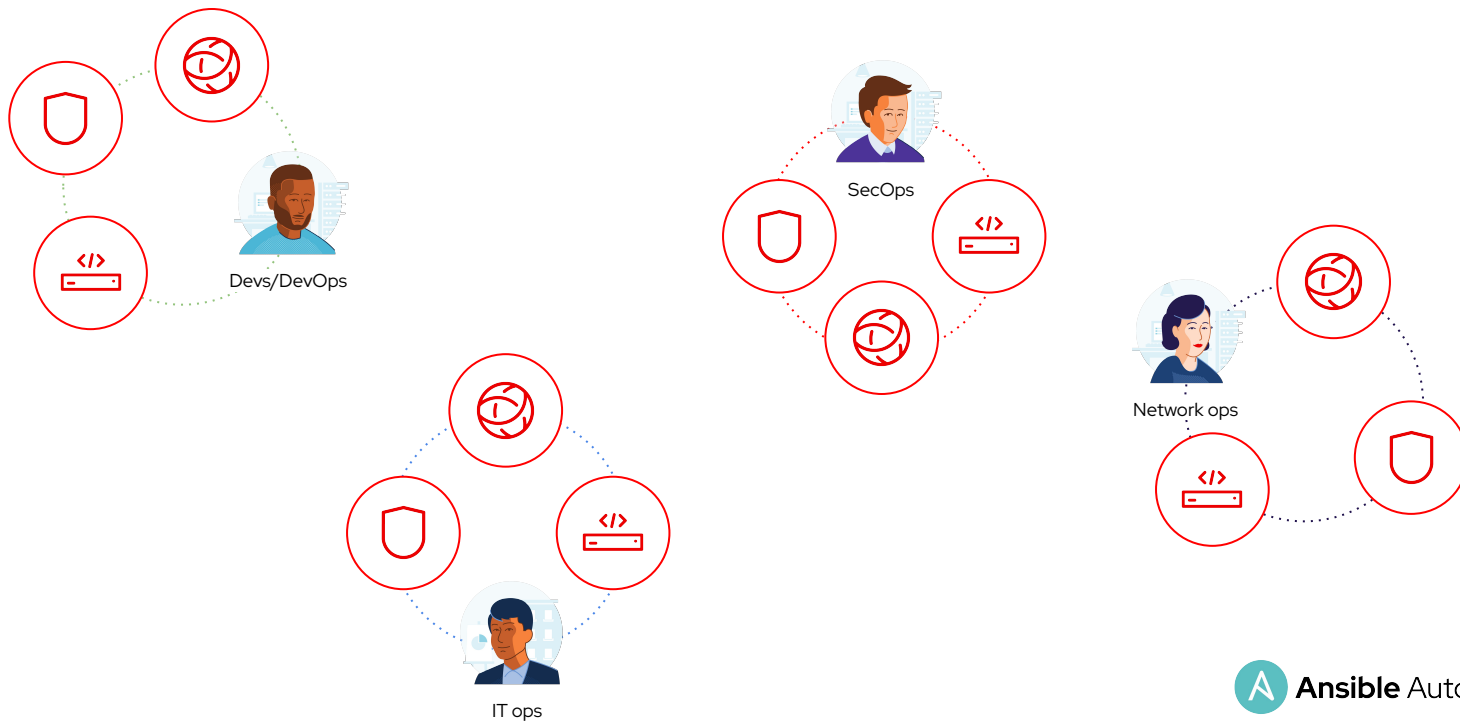
Of respondents agree that in the past 12 months, **IT automation at their organization has shifted** from a “nice to have” to a “must have”

53% of respondents say IT leaders should be **serving as a proponent for culture change to ensure automation is accepted** –but only 26% say IT leaders are doing this now.

80% of respondents say IT **adopting IT automation** is “extremely important” or “very important to the **future success** of their organization.

Many organizations have a problem

Too many unintegrated, domain-specific tools





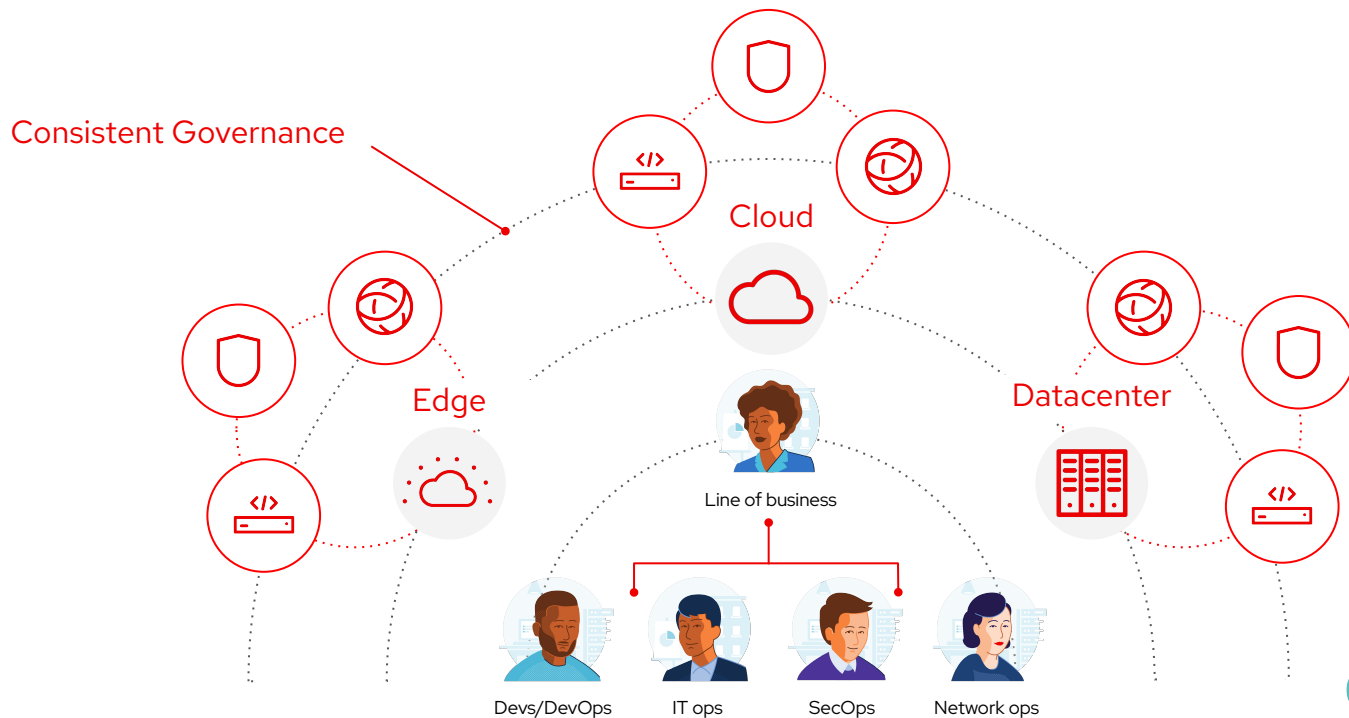
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Find the pockets of ad hoc automation in your company, and grow them into a formal automation program. Bottom-up automation initiatives that grow organically are more likely to succeed than top-down, mandate-driven projects.

Gartner

Break down silos

Different teams a single platform





Red Hat Ansible Automation Platform



Content creators



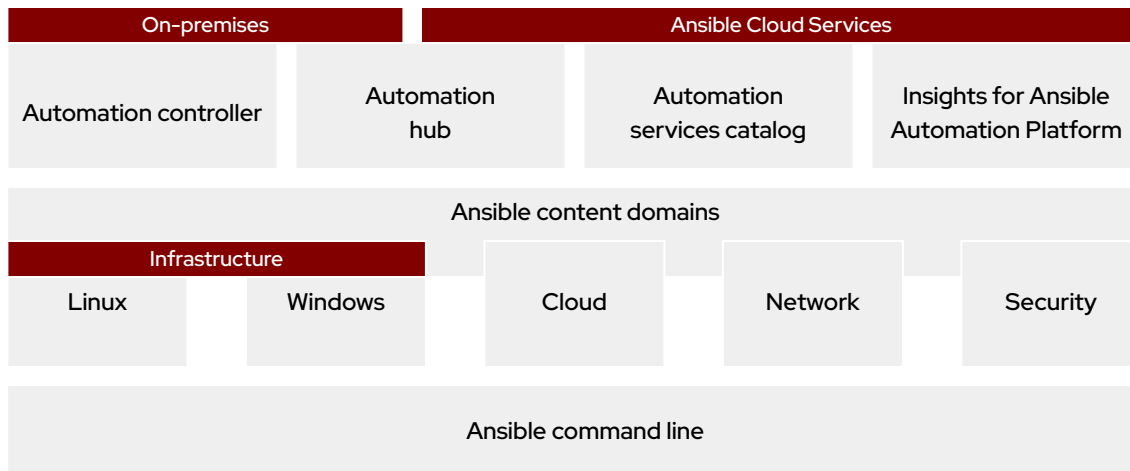
Operators



Domain experts



Users



Fueled by an
open source community



“““

**Identify high-value use cases for automation
in your organization. Build those first.**

Gartner



Red Hat Ansible Automation Platform



Content creators



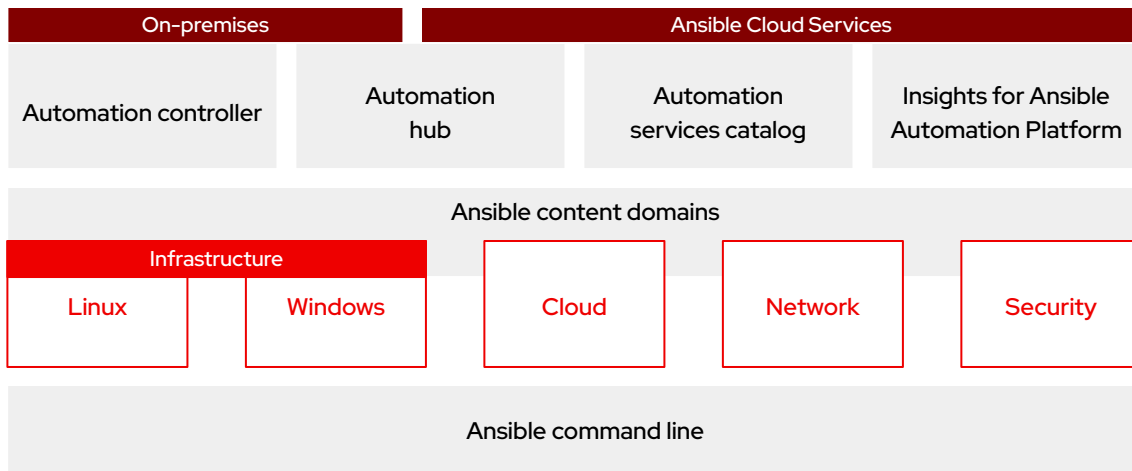
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Ansible Content Domains

Red Hat & Partners Developed Content



TRUST

Certified Content Collections grant an end-to-end supported experience directly by its creators.



ACCELERATE

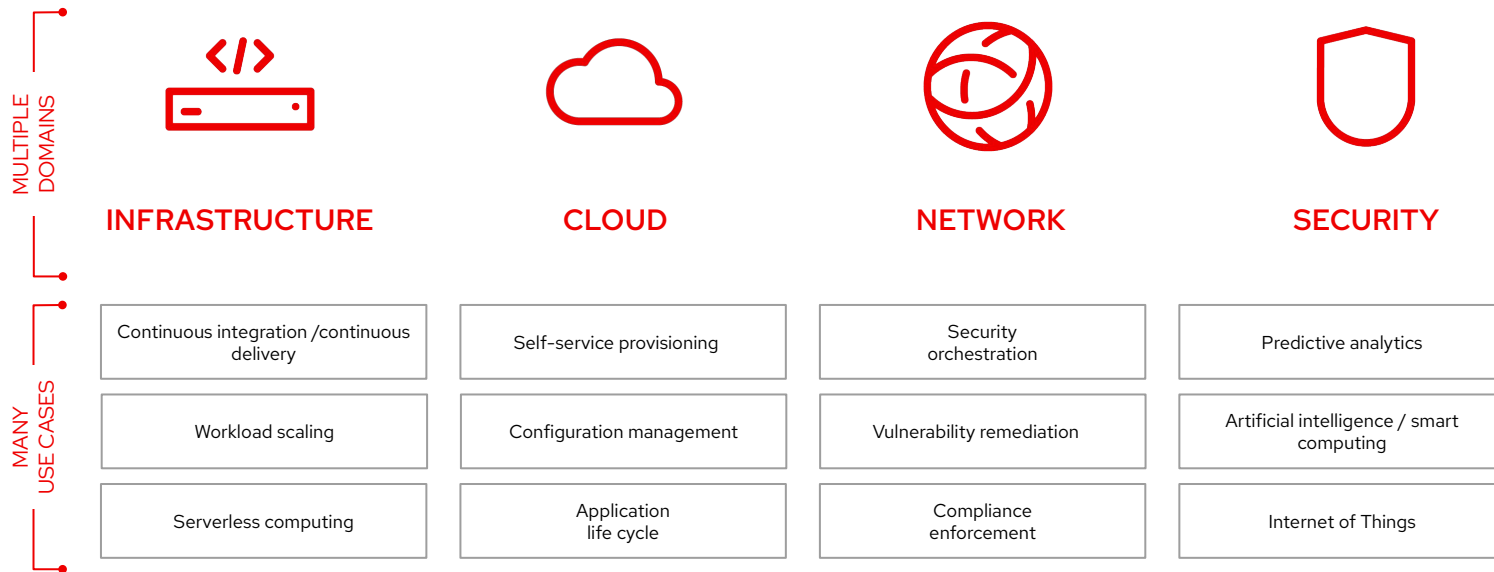
Content is curated to support domain-specific use cases helping to reduce time-to-production.



SIMPLIFY

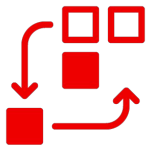
User experience is more consistent through a combination of best practices, resource modules and example roles.

Automate Everything You Need





Hybrid Cloud Automation



ORCHESTRATION & OPERATIONAL TASKS

Support multi cloud operations via single management layer and reusable automation workflows.



CLOUD APPLICATION DEPLOYMENT

Expand Ansible outside of configuration management to holistic application deployments. From provisioning, ITSM integration and beyond.

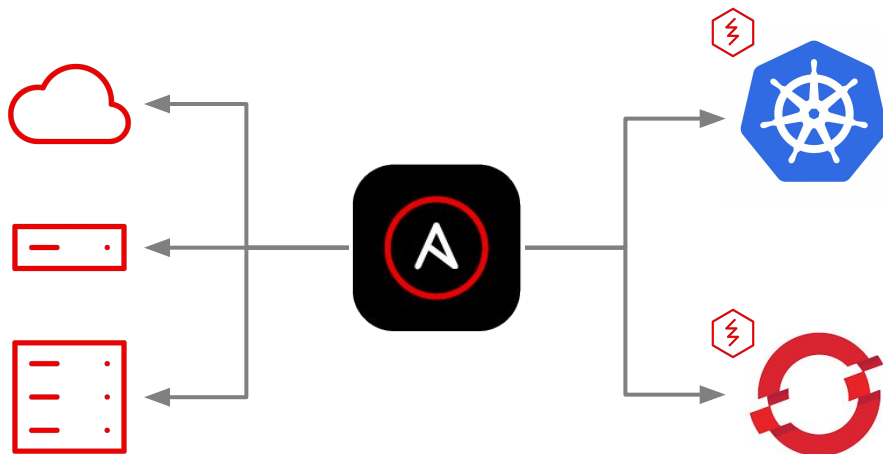


INFRASTRUCTURE AWARENESS AND COORDINATION

Understand what you are running where, and programmatically access anything the cloud provider provides in an automation fashion.



Ansible + Red Hat OpenShift: **better together**

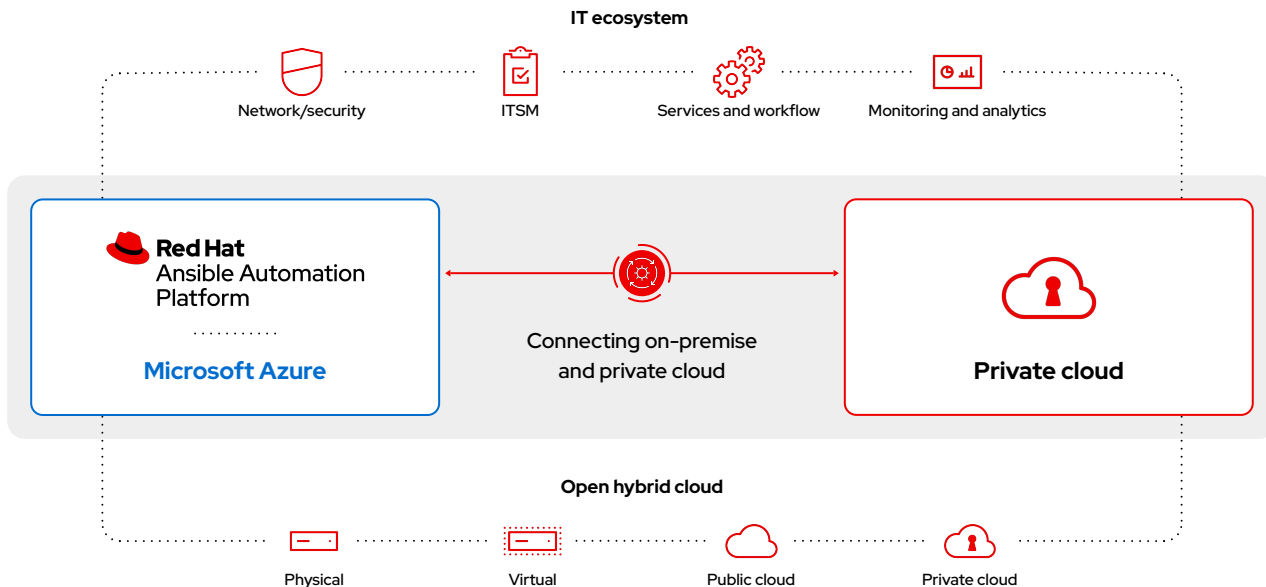


Ansible for Red Hat OpenShift enables organizations to automate the deployment and management of OpenShift systems and coordinate them with existing IT infrastructure using one simple language.



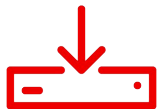
Hybrid cloud automation

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





Infrastructure Automation



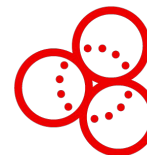
OS CONFIGURATION MANAGEMENT

Predictable and repeatable process, mitigating risks of service downtime.



VIRTUAL INFRASTRUCTURES MANAGEMENT

Deliver virtual resources faster, from weeks to few minutes, with consistency among multiple hypervisors.

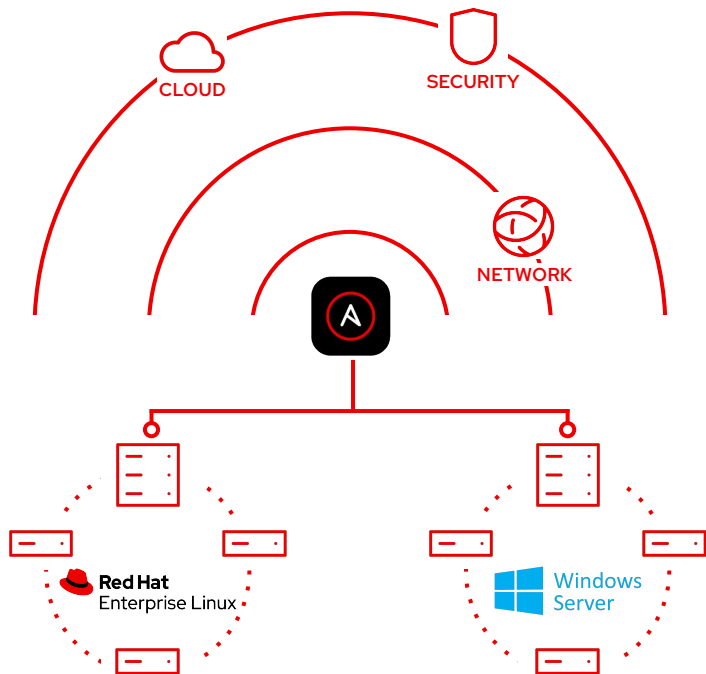


CONTINUOUS INTEGRATION AND DELIVERY

Empower teams to perform reliable tests and integration with CI/CD systems.



What is Ansible Infrastructure Automation?



Ansible infrastructure automation is our content domain focused on IT operations use cases. The goal is to provide infrastructure teams a consistent operational framework to streamline the lifecycle management of their datacenter estate.

Ansible infrastructure collections are sets of Certified Content Collections designed ensure configuration and management is consistent as well as reducing human error and manual processes.



Enterprise Applications Automation

From Day 0 to Day 2



Migration

Speed your SAP migration including provisioning, moving workloads to the cloud, database installation, and more.



Deployment

Streamline SAP and non-SAP IT management tasks through a single platform.

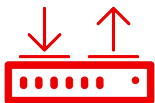


Lifecycle Management

Automate the entire SAP lifecycle and create the foundation to scale automation further and tackle networking, security, cloud, and more.



Network Automation



CONFIGURATION CONSISTENCY

Platform agnostic configuration management to standardize and enforce best-practices.



OPERATIONAL STATE MANAGEMENT

Track network resources through facts gathering, to perform preventive maintenance, reducing outage risks and costs of unnecessary hardware-refresh.

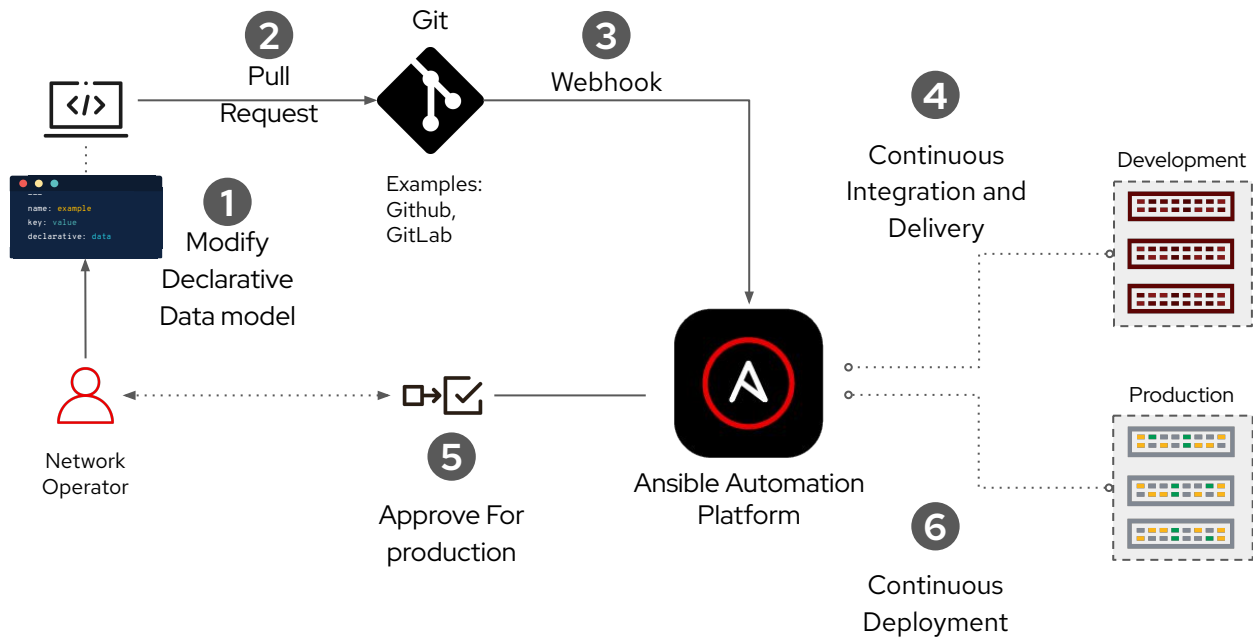


COMPLIANCE & TRACEABILITY

Trace & audit configuration changes while keeping control of configuration & software versions through a single source of truth.



GitOps meets NetOps



- ▶ Apply data-centric approach to deploy, manage and automate the entire network thru one control plane
- ▶ Flexibility and freedom for how you need to work
- ▶ No specialized GitOps "agent" required



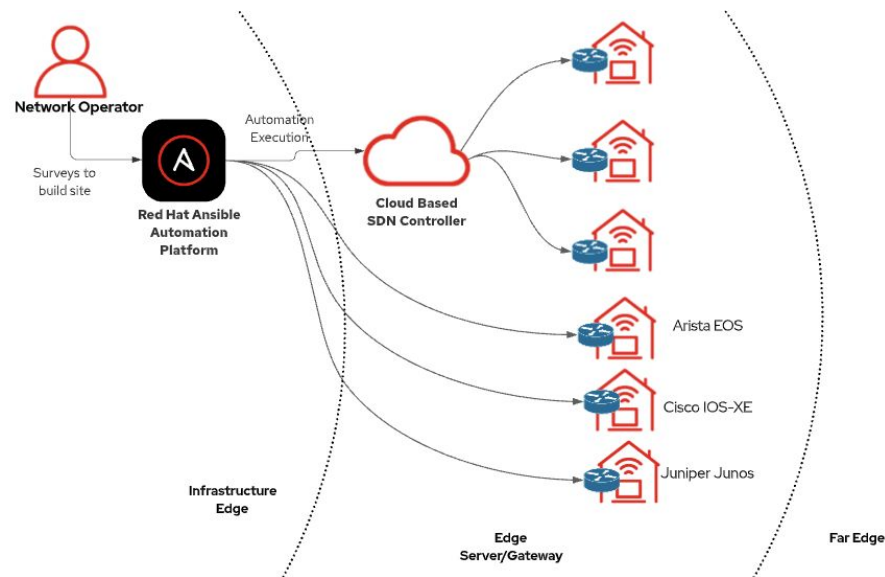
Networking at the edge

Expansion efficiency/simplification with automated deployments

During IT expansion, manual intervention increases the security risks, reworks and additional operational costs, due to human error.

This is true for any corporate remote office but, when we add a component of scale things become even more challenging.

Retail, restaurant, supermarket, pharmacy chains must deploy thousands of new sites. In the best scenario, when having SDN controllers, building a single site requires at least 30 min per new branch.





Security Automation



INVESTIGATION ENRICHMENT

Enable programmatic access to log configurations such as destination, verbosity, etc.



THREAT HUNTING

Automate alerts, correlation searches and signature manipulation to preemptively identify threats.



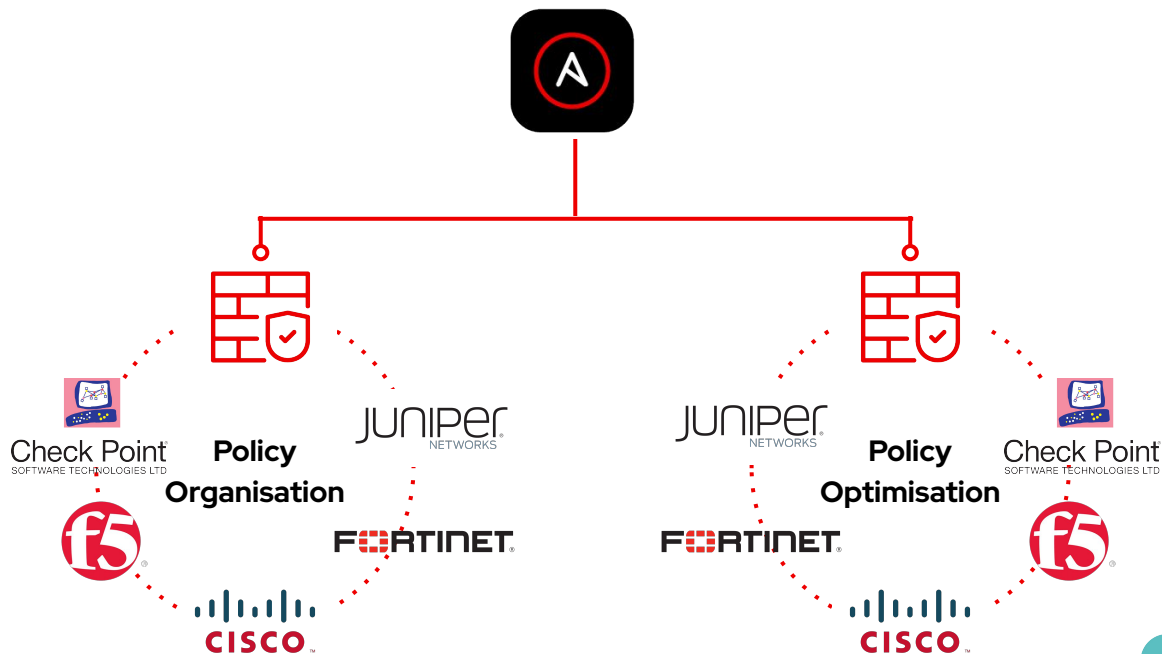
INCIDENT RESPONSE

Creating new security policies to grant access, block or quarantine a machine.



Firewall Policy Automation

SecOps meet Security Analysts





Zero Trust Security Automation

with Ansible Automation Platform

- Ansible Automation Platform is a foundational technology to enable Zero Trust architectures providing a consistent automation framework across security, network, cloud and infrastructure
- Certified content supported by Red Hat and security partners accelerate the implementation of Zero Trust architectures
- Automating cross-domain security processes like for Zero Trust leads to previously unseen interdepartmental collaboration
- Using automation to deliver Zero Trust architectures decreases the opportunity for human error
- Automating foundational processes enables Zero Trust architectures and allows security professionals to focus on their design component



120+

certified platforms



Infrastructure



Cloud



Network



Security



ARISTA



Check Point
SOFTWARE TECHNOLOGIES LTD



CYBERARK



FORTINET

Certified Content: Where do I find it?

The screenshot shows the Red Hat Hybrid Cloud Console interface. The left sidebar contains navigation links for the Ansible Automation Platform, including Overview, Automation Hub, Collections (selected), Partners, Repo Management, Connect to Hub, Automation Services Catalog, Insights, Reports, Savings Planner, Automation Calculator, Organization Statistics, Job Explorer, Clusters, Notifications, and Documentation. The main content area is titled 'Collections' and features a search bar with 'Keywords' and 'Filter by keywords' options. Below the search bar, there is a grid of 10 collection cards, each representing a certified Ansible collection. Each card includes the provider's logo, the collection name, a brief description, and a table of statistics (Modules, Roles, Plugins, Dependencies).

Provider	Collection Name	Description	Modules	Roles	Plugins	Dependencies
IBM	ibm_zos_cics	The Red Hat Ansible Certified Content for IBM Z CICS collect...	5	0	0	0
IBM	power_aix	Ansible Content for IBM Power Systems - AIX provides a colle...	35	4	1	0
HPE	ilo	Ansible Modules for HPE iLO	18	71	0	0
Red Hat	netcommon	Ansible Collection with common content to help automate the ...	26	0	35	1
NGINX	nginx_controller	Supporting NGINX Controller 3.x and later in your pipelines.	0	16	0	0
Dell EMC	openmanage	Dell EMC OpenManage Ansible Modules allows data center and	74	0	0	0
Seiko	smartcs	Ansible Network Collection for Seiko SmartCS devices	4	0	5	1
ServiceNow	itsm	Ansible Collection for interacting with ServiceNow	9	0	2	0
NGINX	nginx_core	Install and configure NGINX and NGINX App Protect using Ansi...	0	3	0	0
Red Hat	insights	Ansible Collection for Red Hat insights	2	2	2	0

Posteitaliane

"We recognized containerization as the de facto industry standard ... Red Hat is a leading contributor to Kubernetes. From a technology perspective, we knew the choice of Red Hat was a sensible one."

Armando Salvatori
Head of Technology,
Poste Italiane

Challenge

To stay competitive against other logistics and financial services providers, Poste Italiane sought to create an IT infrastructure that would maintain the advantages of its established physical operations with the efficiency needed to develop and deploy digital applications and services.

Solution

Using storage and automation solutions from Red Hat, Poste created a cloud-ready platform for developing digital applications internally and in collaboration with third-party innovators.

Why Red Hat

Adopting a new, digital-focused approach, supported by innovative enterprise open source technology from Red Hat, has helped Poste Italiane position itself as a hub for innovation—and an ideal partner for service and technology startups to gain support and growth opportunities.

Results

- Reduced project development time from 6-12 months to 2-4 months
- Created container-based environment for third-party collaboration on new services
- Gained skills through Red Hat partnership to operate new environment independently

Products and services

Red Hat OpenShift, Red Hat Ceph® Storage, Red Hat AMQ, Red Hat Runtimes, Red Hat Process Automation Manager, Red Hat Ansible® Automation Platform, Red Hat Enterprise Linux®, Red Hat Technical Account Management, Red Hat Consulting



"The joint partnership between DWP and Red Hat has helped us and made our transformation succeed at pace. We've changed how we work and have solved some of our skill gaps."

Nathan Turney
Agile Delivery Manager –
Integration Product Delivery Unit,
DWP Digital

Challenge

The Department for Work and Pensions (DWP) sought to establish reliable systems that could verify identification quickly, ensuring that citizens received essential financial support during the COVID-19 pandemic.

Solution

DWP Digital, DWP's technology department, created an ecosystem that allowed data to be shared with other government departments and third-party partners, while maintaining security and compliance. DWP Digital deployed Red Hat® Ansible® Automation Platform within its DevOps tooling. This created pipelines for deployment, production, and other environments. It also supported self-service functionality around the various new services created.

Why Red Hat

Having previously used Red Hat Enterprise Linux® and being familiar with Red Hat's capabilities, the solution's enterprise support made it an obvious choice.

Results

- Reduced edge deployment time from weeks to hours
- Reduced the deployment of infrastructure services from 3-6 hours
- Able to provision a new cloudlet cluster in less than two hours and complete deployment in less than two minutes
- Improved productivity with support for offline work and data access
- Improved its onboarding process during an expansion from eight developers to 30 within a year with Red Hat Training



"After our networking team decided to deploy their Cisco software defined network via Ansible, we were asked to set up an Ansible Tower installation for the project, and we decided to offer Ansible Tower as a service base on our self-service platform."

Raphael Mueller
Linux Systems Engineer,
SIX

Challenge

Wanted to create a standard service for future developments, following a successful internal deployment using automation.

Solution

Red Hat® Ansible® Automation Platform was used to streamline the initial deployment, so the team decided to create Ansible Tower as a service based on the Operator SDK pattern. The new service includes installation, CI/CD, day-2 operations, and monitoring.

Why Red Hat

SIX is an existing Red Hat customer and uses Red Hat OpenShift®. The Ansible community is an advantage for SIX, and the team will use Ansible Builder, created by the community, to help build custom execution environments.

Results

- Standardized deployment, increasing efficiency
- Improved the user experience and supports self-service
- Reduced risk with scalable, repeatable processes

Products and services

Red Hat Ansible Automation Platform



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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Ansible Automates