



Automate your Hybrid Cloud with Ansible

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Technical Marketing
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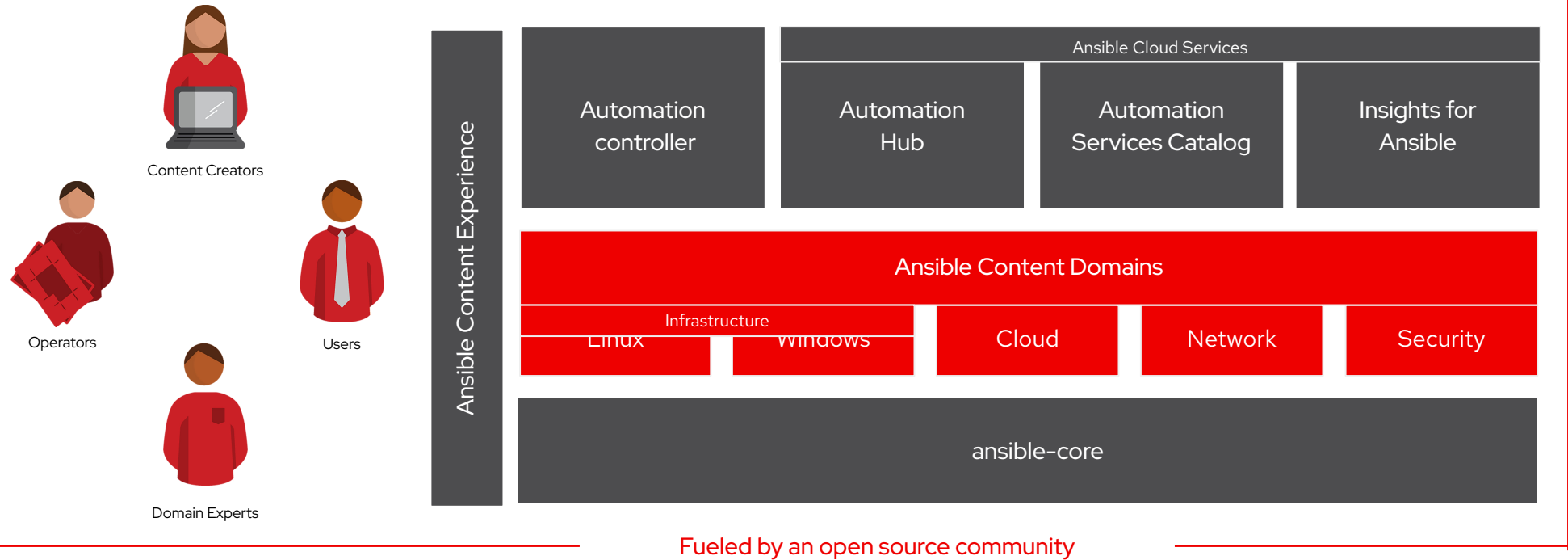


**Automation is now a
“boardroom imperative.”**

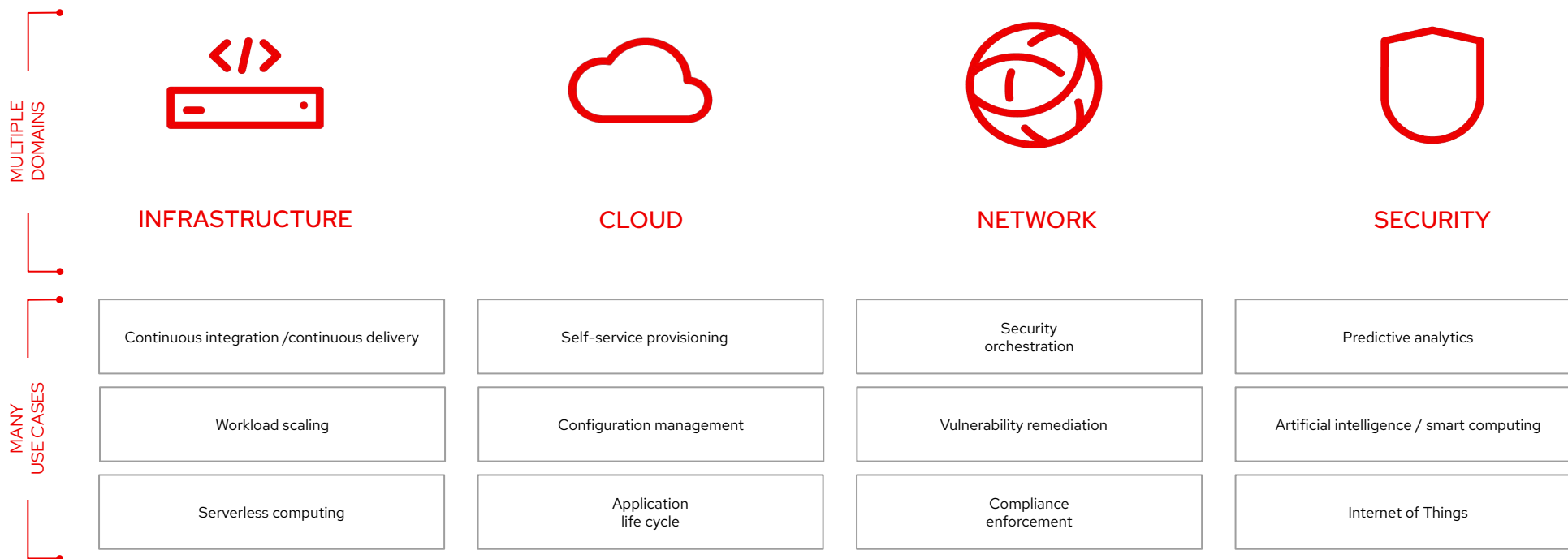
Forrester



Red Hat Ansible Automation Platform

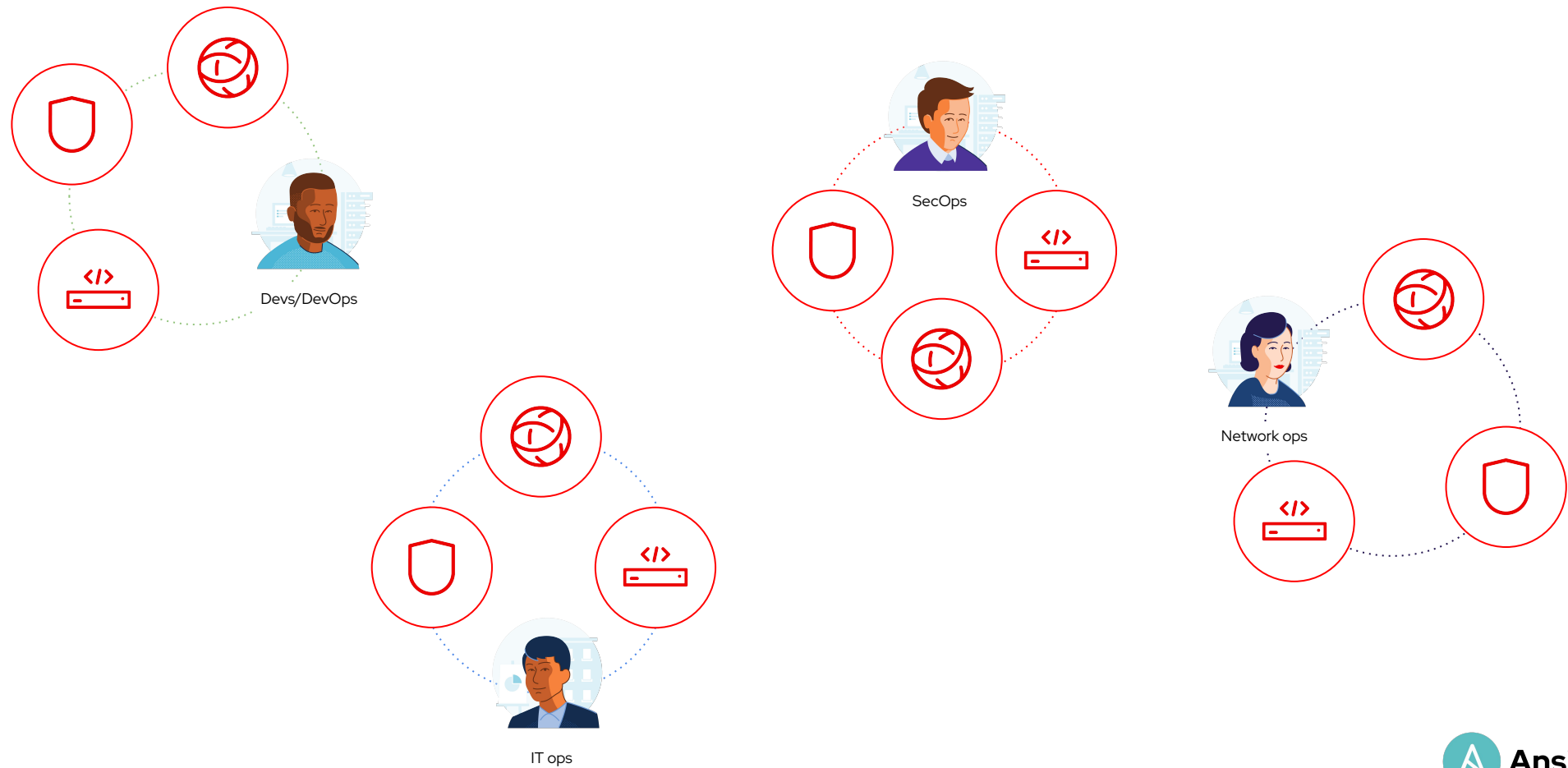


Automate Everything You Need



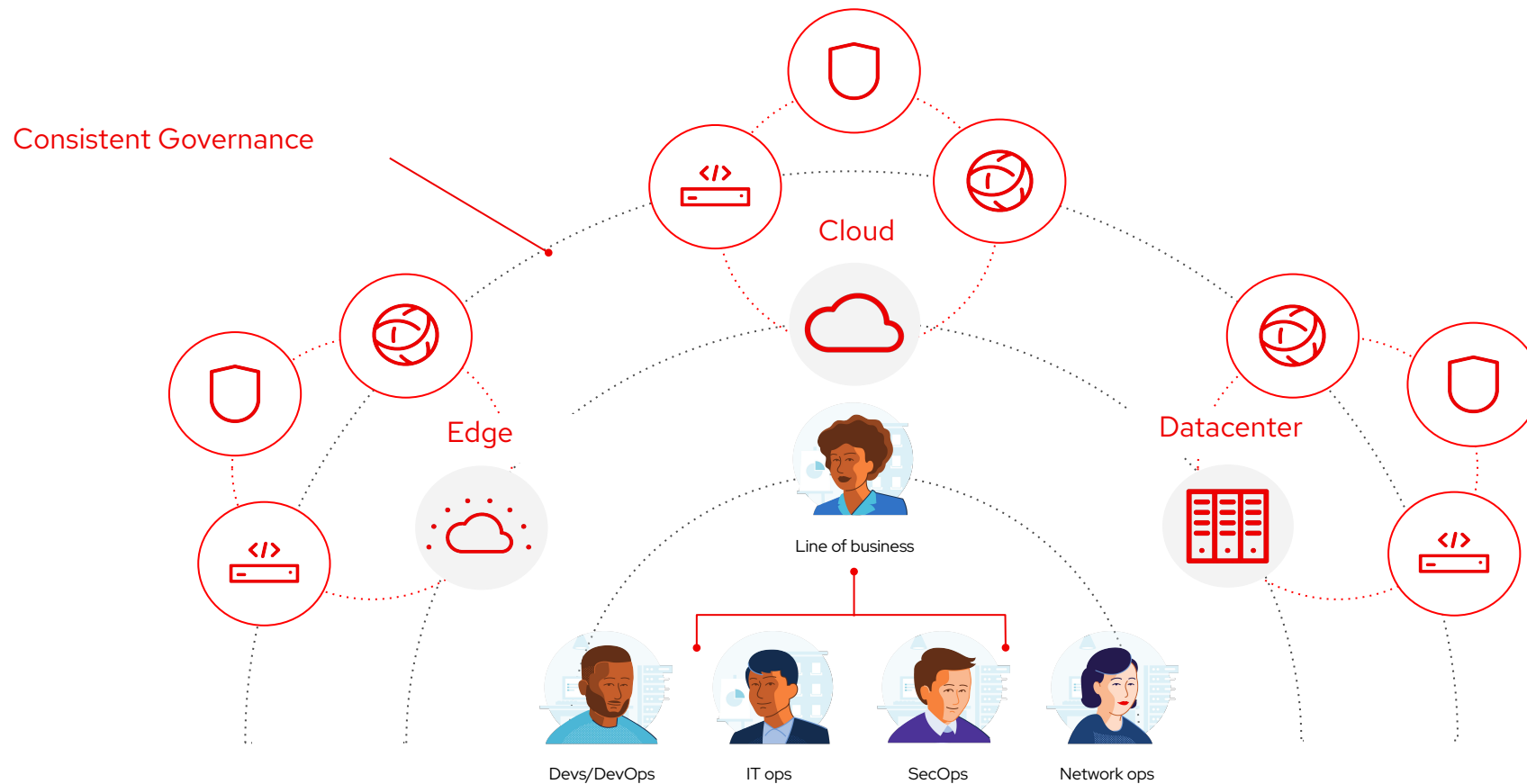
Many organizations have a problem

Too many unintegrated, domain-specific tools



Break down silos

Different teams a single platform



Why Cloud Automation with Ansible?

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You don't actually want to take a one-size-fits-all approach. You want to fit operational approaches to your business needs. And you maybe even want to have specialized teams for each major hyperscale provider, even if you adopt some common approaches across a multicloud environment. (Azure vs. non-Azure, i.e. Azure vs. AWS, is a common split, often correlated closely to Windows-based application environments vs Linux-based application environments.)

Ideally, you're going to be highly automated, agile, cloud-native, and collaborative between developers and operators (i.e. DevOps).

Lydia Leong
Distinguished VP Analyst Gartner

Who is the audience?

“““

Some form of cloud platform operations, where cloud management is treated like a “product”. It’s almost an internal cloud MSP approach, where the cloud platform ops team delivers a CMP suite, cloud-enabled CI/CD pipeline integrations, templates and automation, other cloud engineering, and where necessary, consultative assistance to coders and to application management teams.

Lydia Leong
Distinguished VP Analyst Gartner

Ansible Automation for Clouds



Public Cloud

Amazon AWS
Microsoft Azure
Google Cloud Platform
*IBM Cloud**
*Alibaba Cloud**
*Oracle Cloud**



Cloud Native

Red Hat Openshift
Native Kubernetes
Helm
*Podman**



Private Cloud

OpenStack
VMware
*OpenShift Virtualization
(KubeVirt)**

Multicloud

“““

Multicloud is inevitable in almost all organizations.

[...] we can actively choose our multicloud strategy and stance. We can classify providers into tiers, decide what providers are approved for use and under what circumstances, and decide what providers are preferred and/or strategic.

Lydia Leong
Distinguished VP Analyst Gartner

Use-cases



Multicloud Management

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



Full workloads Lifecycle

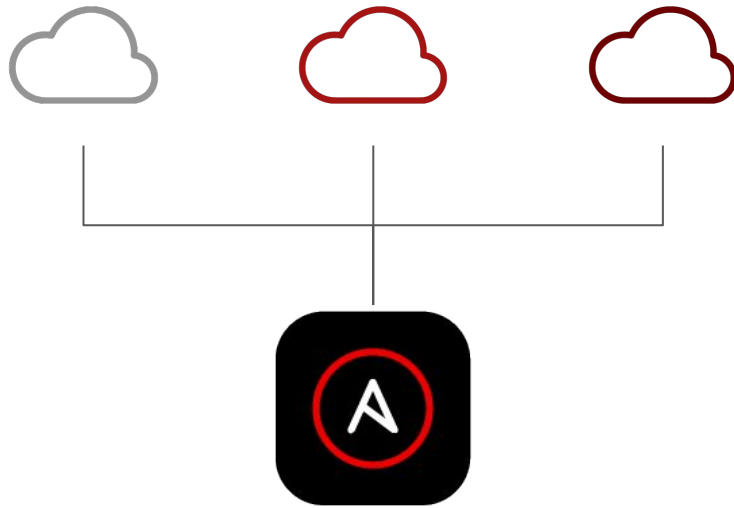
Expand Ansible outside of configuration management to holistic application deployments. From provisioning, ITSM integration and beyond.



Cloud Awareness

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

AWS Clouds



Public Cloud

Multicloud Management / Cloud Agnostic Automation



Multicloud Management

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Full workloads Lifecycle

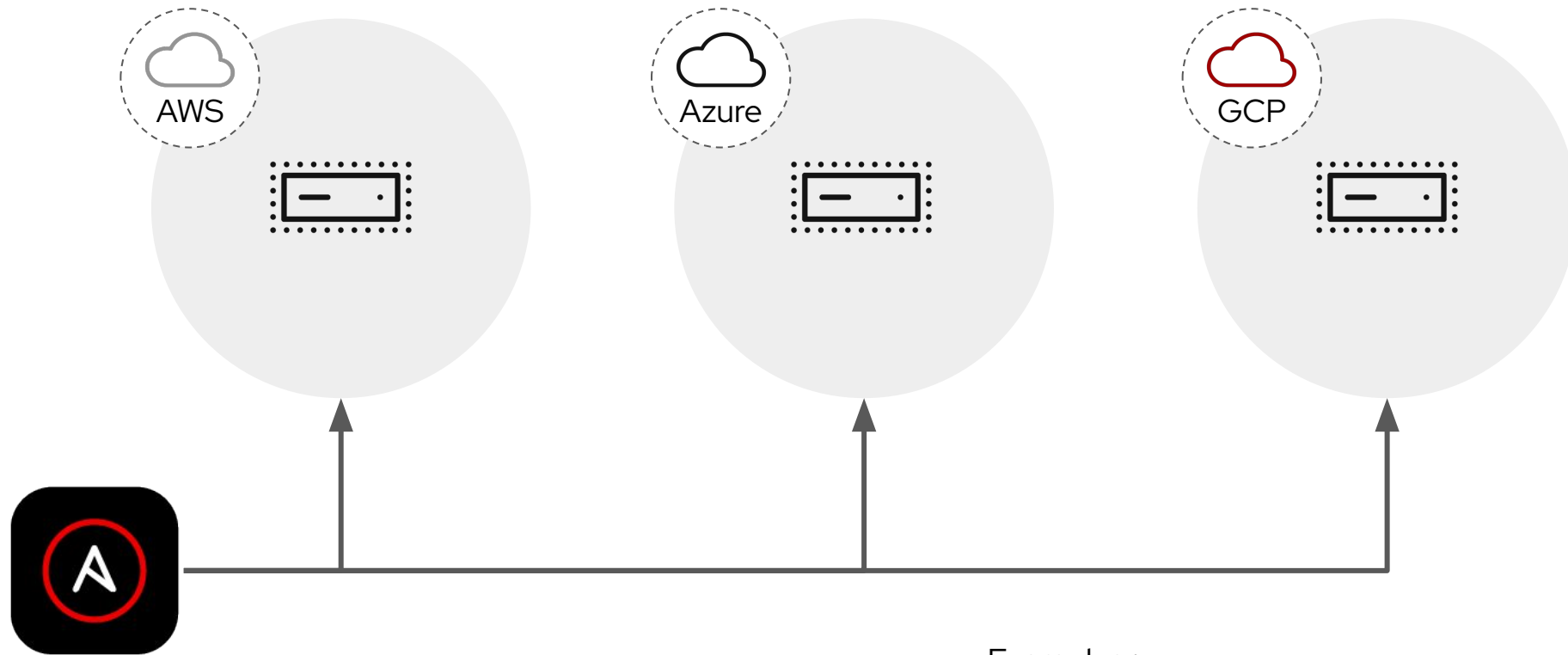
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Cloud Awareness

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Multi Cloud Automation

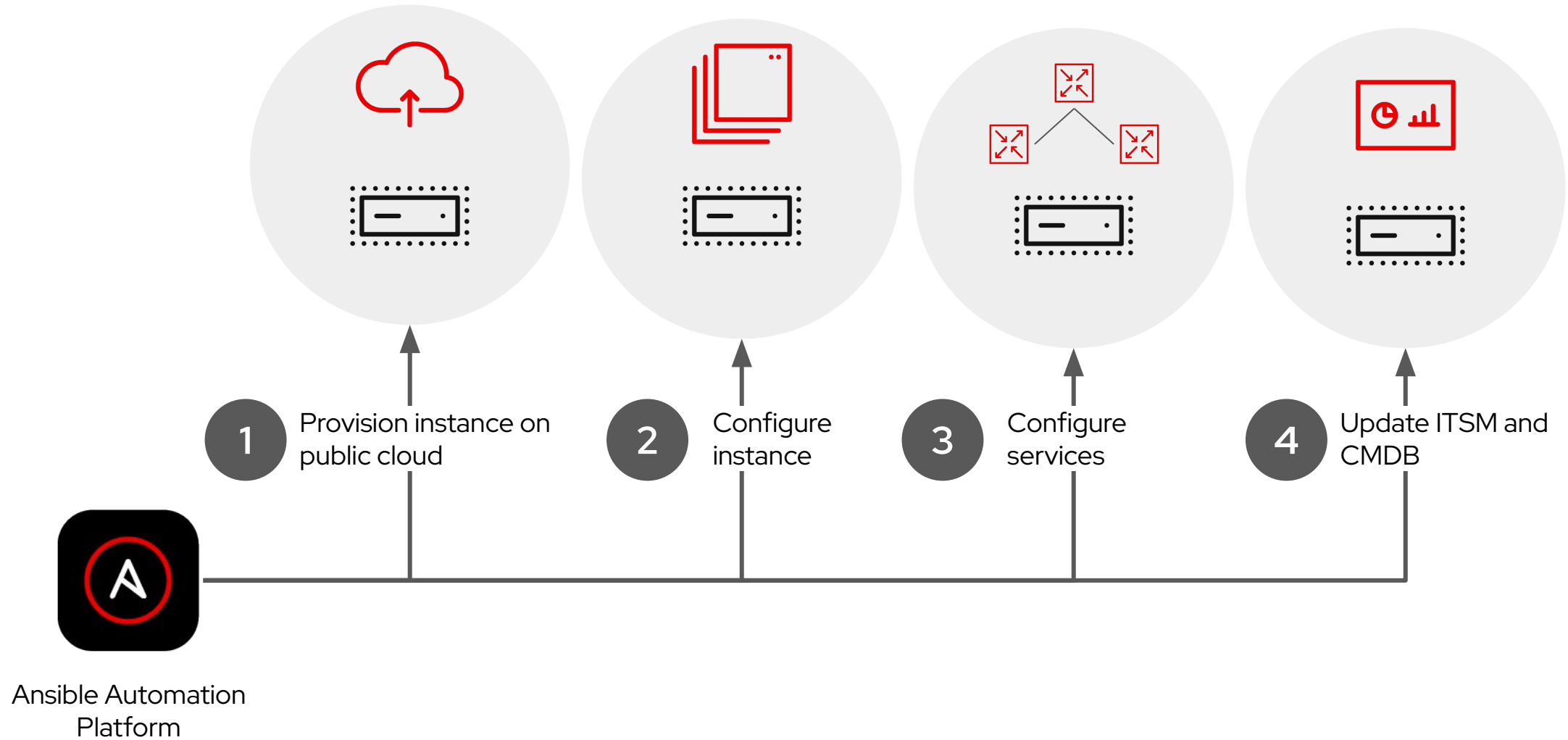


Examples :

- ✓ Common Experience across public clouds
- ✓ Cloud as Code approach
- ✓ Works easily with out of band changes

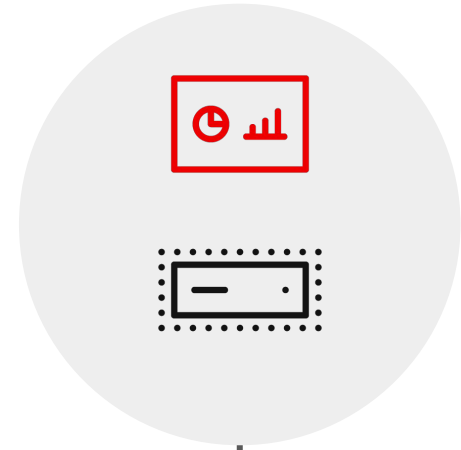
- Provision Virtual Instance (e.g. RHEL)
- Deploy AWS S3 / Azure Blob / Google Storage
- Configure AWS Route53 / Azure DNS / GCP DNS

Full workloads Lifecycle



Cloud Awareness

- Retrieve all instances with uptime over 2 days
- Retrieve all instances without tag "owner"
- Retrieve all instances in Asia with uptime over 4 days
- Retrieve all untagged instances
- Retrieve users that have not logged in within 30 days



Retrieve Facts



Ansible Automation
Platform

https://red.ht/aws_example

Ansible Certified Content

Where do I download the Ansible Collections?

namespace.collection	Automation Hub	Galaxy
amazon.aws	red.ht/ansible_aws	red.ht/g_ansible_aws
azure.azcollection	red.ht/ansible_azure	red.ht/g_ansible_azure
google.cloud	red.ht/ansible_gcp	red.ht/g_ansible_gcp

Cloud Native

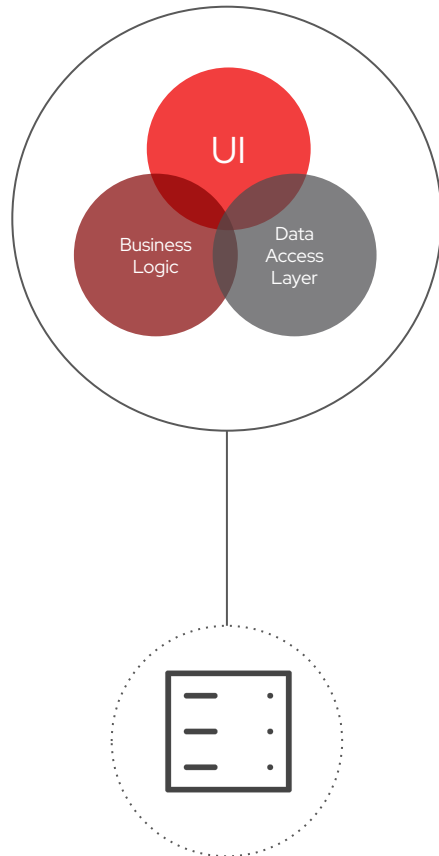


Ansible + OpenShift: Better Together

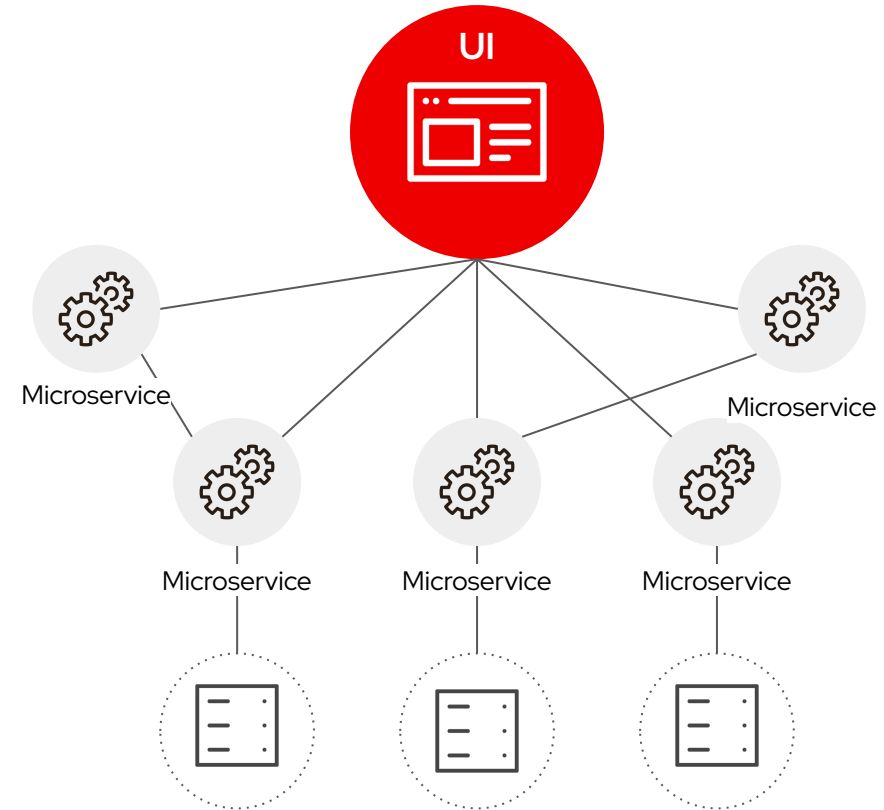


Ansible for OpenShift enables organizations to automate the deployment and management of OpenShift systems and coordinate them with existing IT infrastructure using one simple language.

Enterprise organizations are digitally transforming their business with microservice architectures



Monolithic Architecture



Microservice Architecture

OpenShift Container Platform

Complete platform for containerized application deployment



An open source container application platform based on the Kubernetes container orchestrator for enterprise application development and deployment.



Trusted Enterprise Kubernetes

- Immutable infrastructure with RHEL CoreOS and Kubernetes

Cloud-like Experience Everywhere

- Complete set of advanced services to enhance controls, monitoring and interfaces

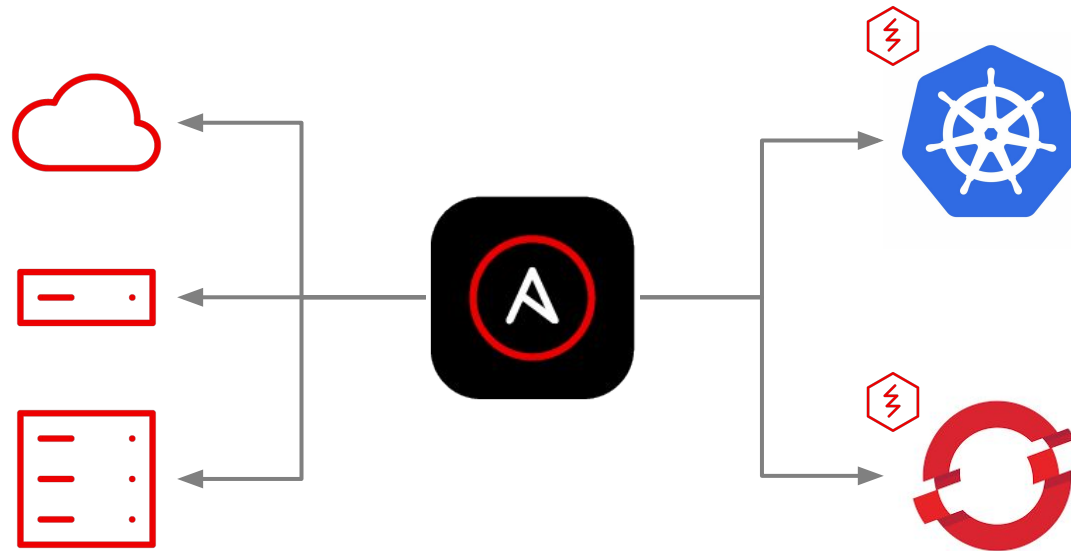
Empowering Developers to Innovate

- Integrated with developer workflows to get applications to production sooner



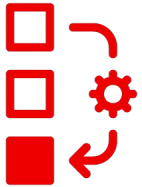
ANSIBLE TAKES OPENSHIFT
TO THE NEXT LEVEL.

Ansible Automation Platform is the "glue" for Hybrid IT automation



Ansible for OpenShift

Automating the deployment and management of OpenShift systems with existing IT infrastructure



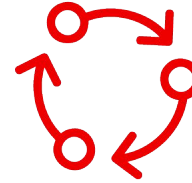
Infrastructure Coordination

Coordination of existing off-cluster IT infrastructure and services with cloud-native systems



Configuration

Repeatable “last mile” automation for OpenShift cluster configuration and management



Lifecycle Management

Automation of OpenShift infrastructure and applications lifecycle management



Business Continuity

End-to-end business continuity and disaster recovery (DR) automation of OpenShift clusters

Ansible Certified Content

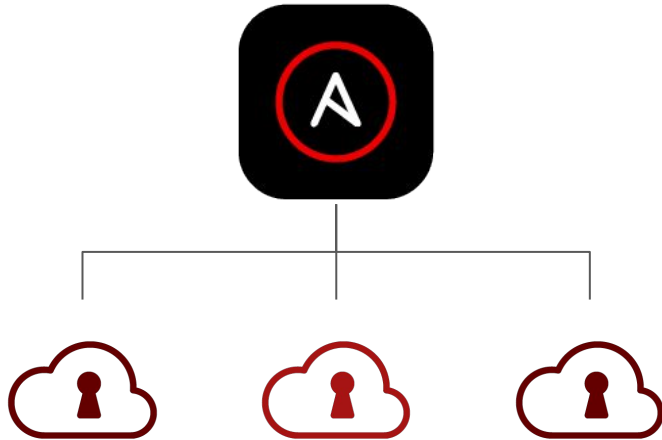
Where do I download the Ansible Collections?

Automation Hub supported	Galaxy community
redhat.openshift red.ht/ansible_openshift	community.okd red.ht/ansible_okd
kubernetes.core red.ht/aap_kubernetes	kubernetes.core red.ht/ansible_kubernetes

Example

namespace.collection
red.ht/link_to_collection

Private Cloud



SAME GOALS AS PUBLIC CLOUD

Initially focused on VMware!

Deep dive talk: “**What's new with vmware_rest 2**”
speakers: Alina Buzachis and Gonéri Le Boudier

Fully Certified Content for Private Cloud

Download on Automation Hub

- New 2.1 collection release available now
- How to get involved/contribute?
 - Have a look at the [Ansible Community Guide](#)
 - Connect with us on IRC #ansible-vmware

namespace.collection	Automation Hub	Galaxy
vmware_rest	red.ht/ansible_vmware	red.ht/g_ansible_vmware

Other great cloud automation talks:

Deep dive talk: **"What's new in kubernetes.core 2.0?"**
speakers: Mike Graves

Deep dive talk: **"What's new in AWS 2.0"**
speakers: Alina Buzachis & Phil Griffiths

and much much more.....



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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