

2022 T3 Class EMEA for Linux on IBM zSystems and LinuxONE June 27-28 - onsite and virtual

Modernize IBM zSystems with Red Hat Ansible Automation Platform

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About me

- Working in IT since 2004, mostly consulting
- Ansible user since 2013
- Associate Principal Solution Architect EMEA for IBM





Project Diamond



- Reduce complexity
- Make every process explicit
- Avoid dependence of a process to certain people



Project Diamond Coal



- Complexity increased
- Every process was kind of explicit
- Avoided dependence of a process to certain people
- Changing a process depended on certain people





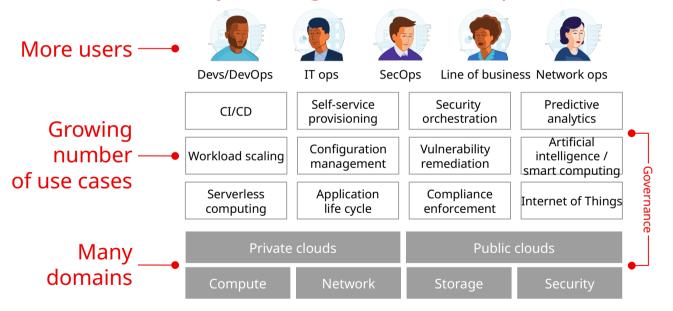
Anyone can automate... but an enterprise needs to coordinate and scale

Many organizations share the same challenge Too many unintegrated, domain-specific tools



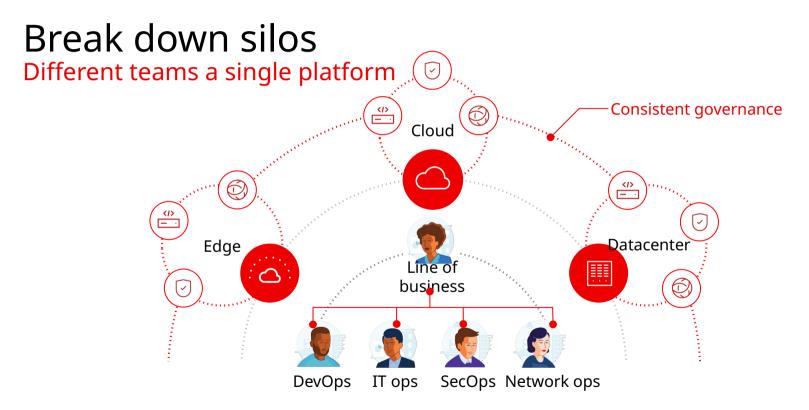


Many organizations have a problem Too many unintegrated, domain-specific tools





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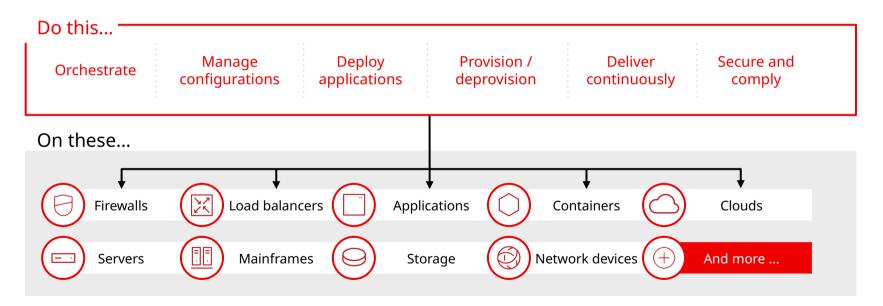
Why Ansible?



- Lingua franca for IT automation
- Easy to learn
- Easily auditable
- Agentless
- Sequential order
- Idempotent

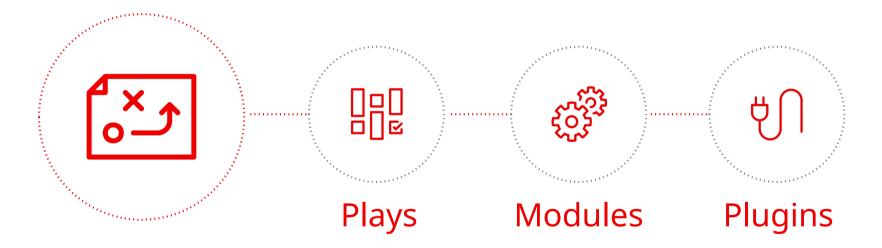


Automate the deployment and management of automation Your entire IT footprint





What makes up an Ansible playbook?





CONFIDENTIAL designator



Ansible playbooks

 name: install and start apache hosts: web become: yes

tasks:

- name: httpd package is present
 yum:
 name: httpd
 state: latest
- name: latest index.html file is present template: src: files/index.html dest: /var/www/html/
- name: httpd is started
 service:
 name: httpd
 state: started



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Collections

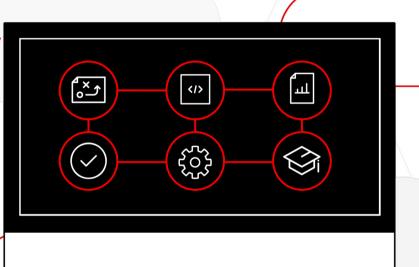
Simplified and consistent content delivery



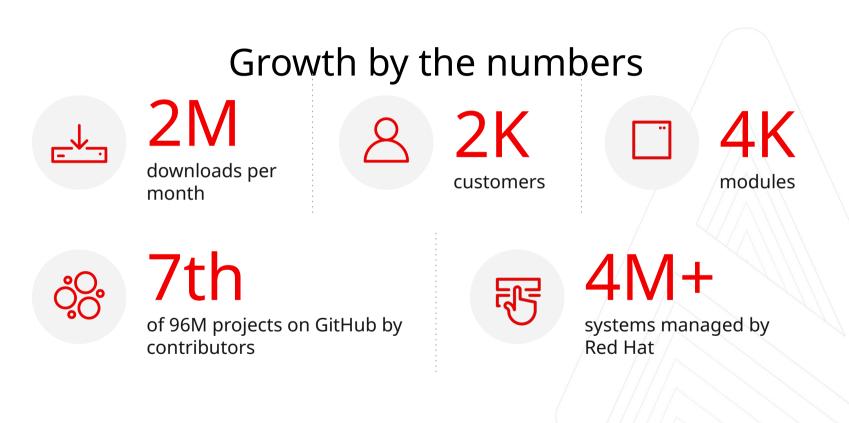
What are they?

Collections are a data structure containing automation content:

- Modules
- Playbooks
- Roles
- Plugins
- Docs
- Tests









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Why the Red Hat[®] Ansible[®] Automation Platform?



Red Hat Ansible Automation Platform

Combining the universal automation language with cloud services and certified content for automating, deploying, and operating applications, infrastructure and services securely at

enterprise scale.

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Automation tools

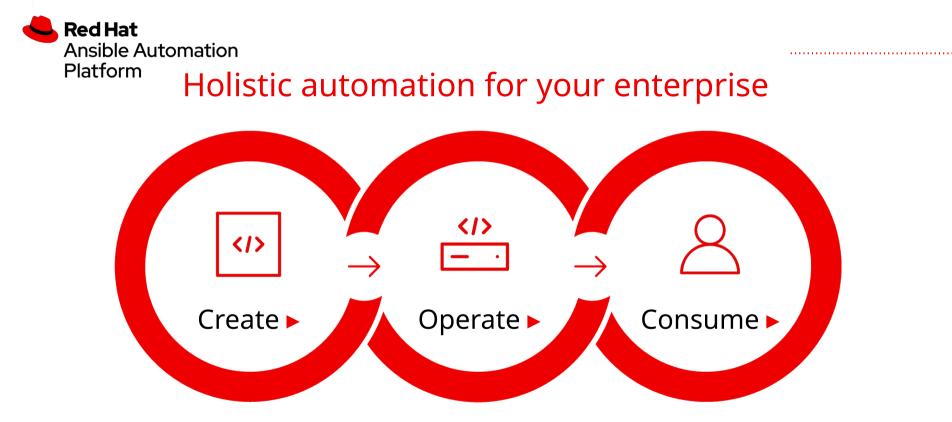
Providing scalable, secure implementation for describing, building, and managing the deployment of enterprise IT applications across diverse enterprise architectures. **Cloud services**

Cloud services that facilitate team collaboration and provide operational analytics for automating heterogeneous, hybrid environments.

Certified content

Extends native platform capabilities with certified, supported content designed to expand the automation domain and accelerate adoption for enterprise customers.







Red Hat Ansible Platform technical deck



Create

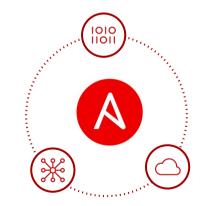
Many technologies, different life cycles How to keep runtime environment, collections and dependencies aligned?



Collections

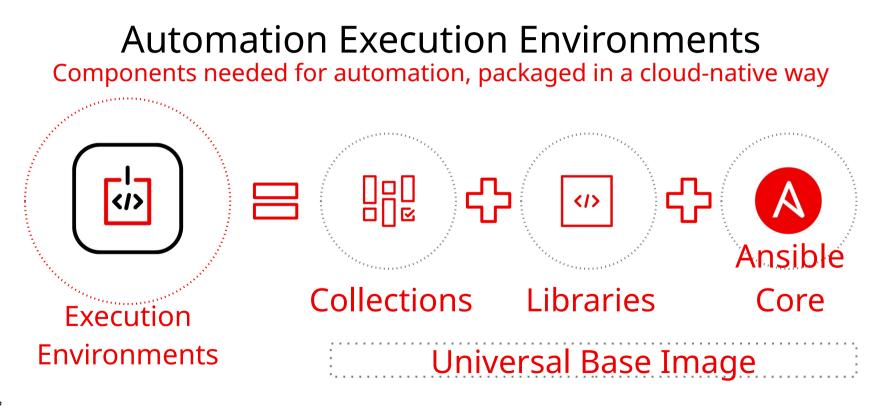


Dependencies

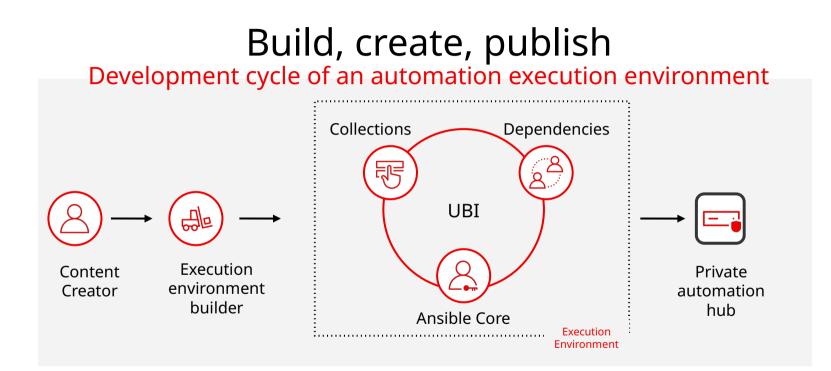




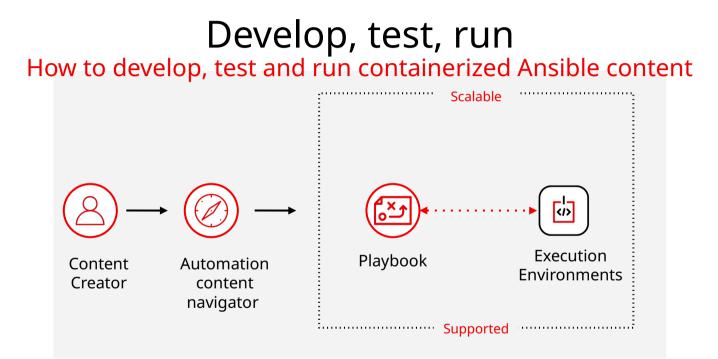










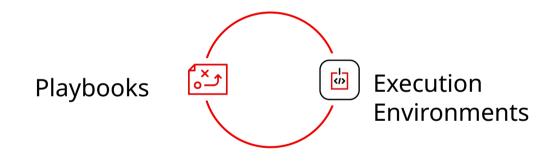




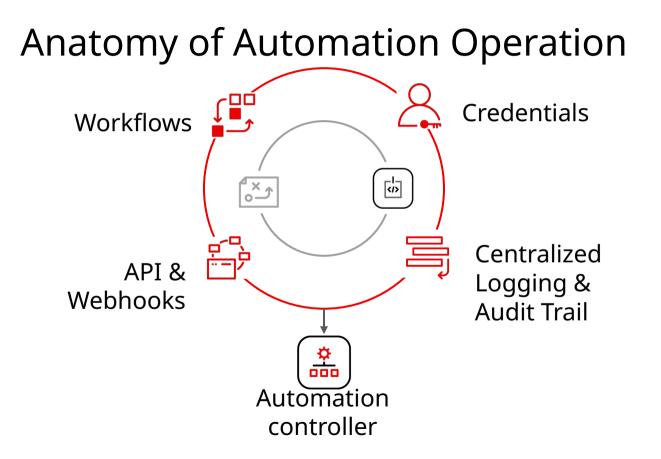
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Components of Automation









Red Hat Ansible Platform technical deck

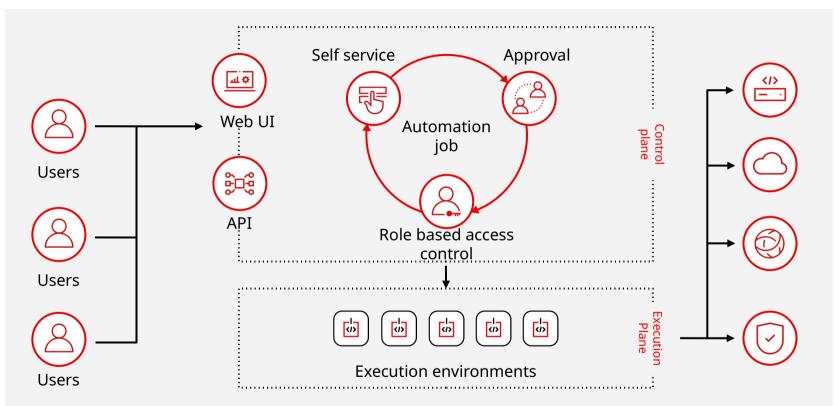
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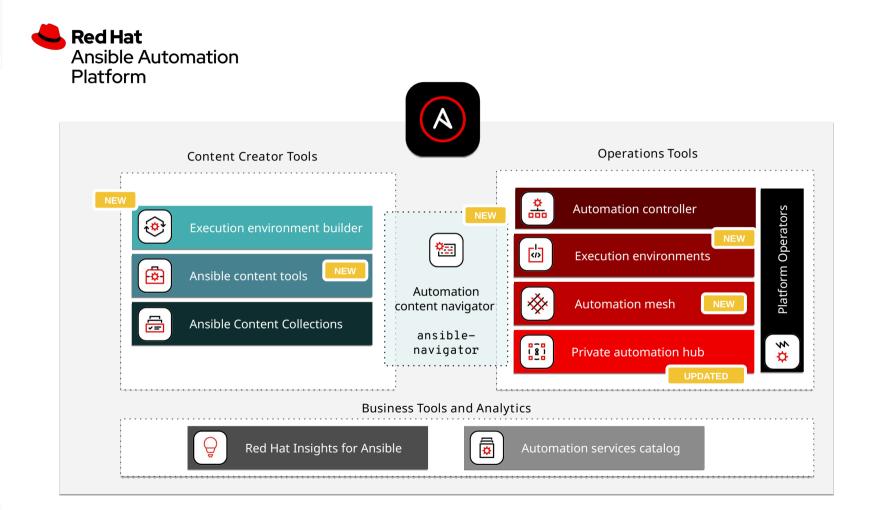




Red Hat Ansible Platform technical deck: Consume







100+ certified platforms	Infrastructure	Cloud	Network	Security
	Red Hat	aws	ARISTA	Check Point SOFTWARE TECHNOLOGIES LTD
	NetApp [*]	Google	cisco.	CYBERARK'
	IBM.	Microsoft		F©RTINET.





One subscription. One platform.



Ansible Content Collections A new method of building and consuming Ansible content



Content packages

Opinionated, focused content, targeting key automation use cases, from Red Hat and certified partners



Automation services

catalog A venue for developers and business users to manage, provision, and retire automation resources Scalable execution

Extending Red Hat Ansible Tower to support automation whenever and wherever you need it

Automation Hub

Private content repository for sharing automation



Automation Analytics

Analytical insights into the automation runtime





"Adopting Red Hat Ansible Automation has not only changed how our networks are managed, but also sparked cultural transformation within our organization." **CONFIDENTIAL** designato

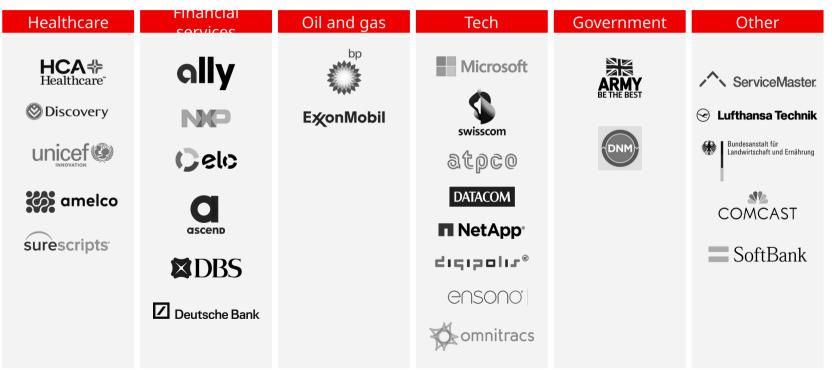
Red Hat

Bart Dworak Software Engineering Manager, Infrastructure and Operations, Network

Source: "Red Hat Ansible Automation Accelerates Past Major Adoption Milester Systems Worldwide,"

11 Sep. 2019.

Red Hat Ansible Automation Platform customers





Summing it up

- Automation is key to simplify and optimize IT operations
- A single automation system will provide more value, by being shared
- An automation system requires way more than just an automation tool



Thanks!

Questions?

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