

Red Hat
Summit

Connect

6 sposobów na uruchomienie playbooka Ansible

Jacek Skórzyński

Principal Solution Architect
Red Hat CEE

Agenda

1. Ansible-navigator
2. Ansible Controller Workflows
3. Ansible Controller API
4. Event-Driven Ansible (EDA)
5. Ansible Self-Service
6. Ansible and OpenShift Integration

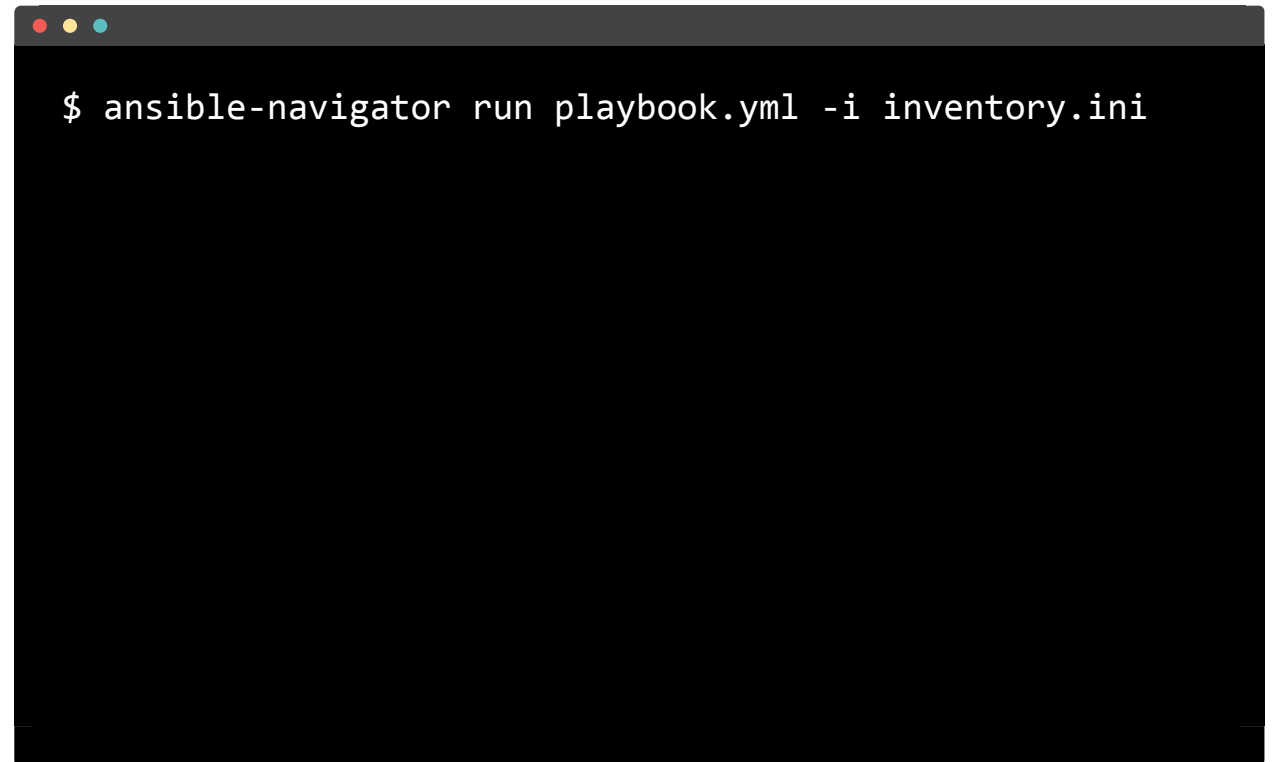
ansible-navigator

Ansible content navigator (`ansible-navigator`).

What is it?

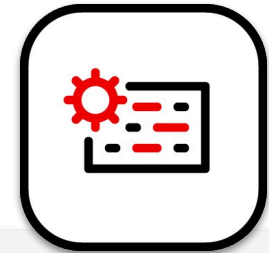
It is a command line utility and text-based user interface (TUI) for running, testing and developing Ansible automation content

- ▶ Review EEs
- ▶ Develop collections
- ▶ Develop playbooks
- ▶ Troubleshoot problems



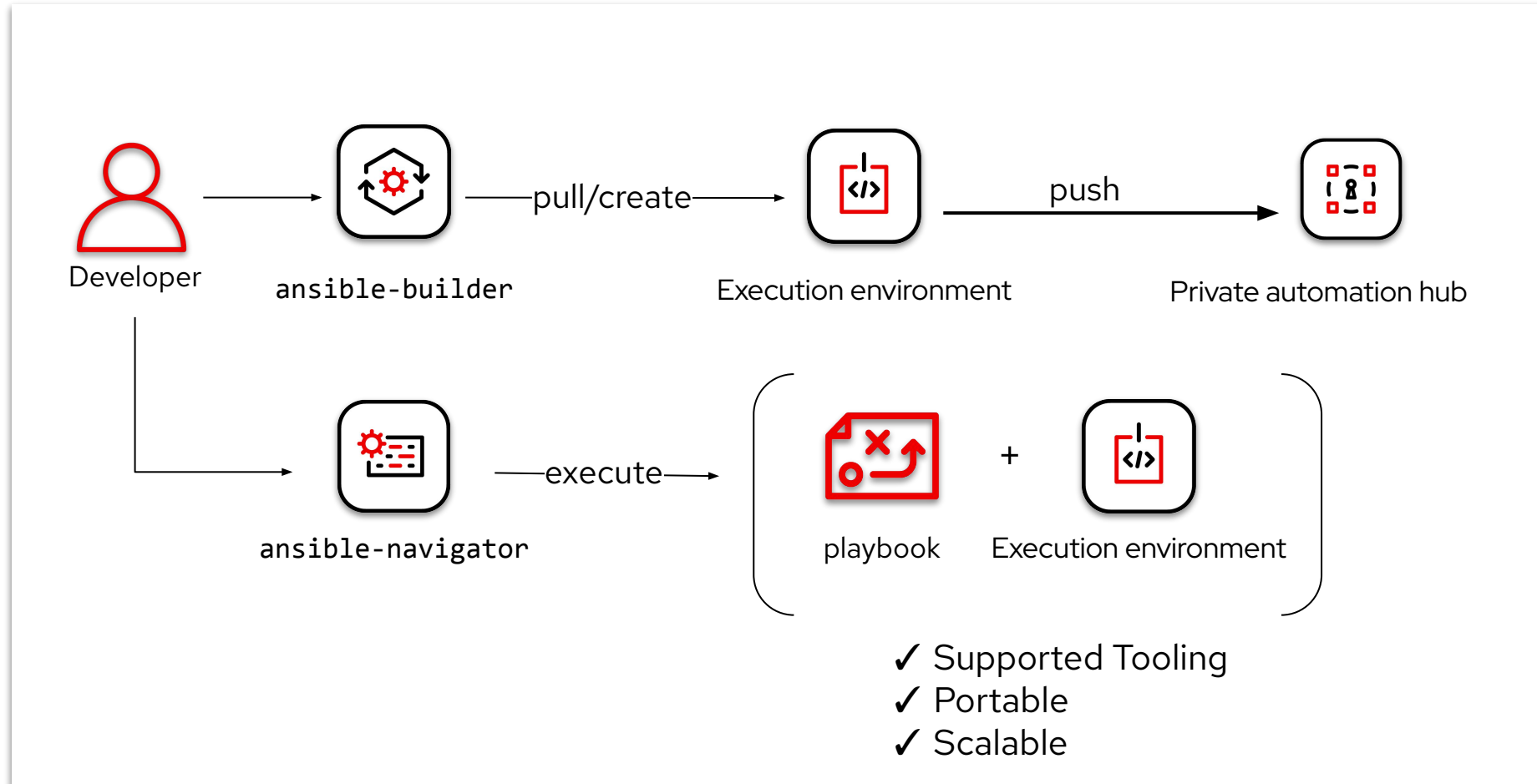
```
$ ansible-navigator run playbook.yml -i inventory.ini
```

Ansible content navigator (`ansible-navigator`).



<code>ansible</code> command	<code>ansible-navigator</code> command
<code>ansible-config</code>	<code>ansible-navigator config</code>
<code>ansible-doc</code>	<code>ansible-navigator doc</code>
<code>ansible-inventory</code>	<code>ansible-navigator inventory</code>
<code>ansible-playbook</code>	<code>ansible-navigator run</code>

Ansible content navigator (ansible-navigator).

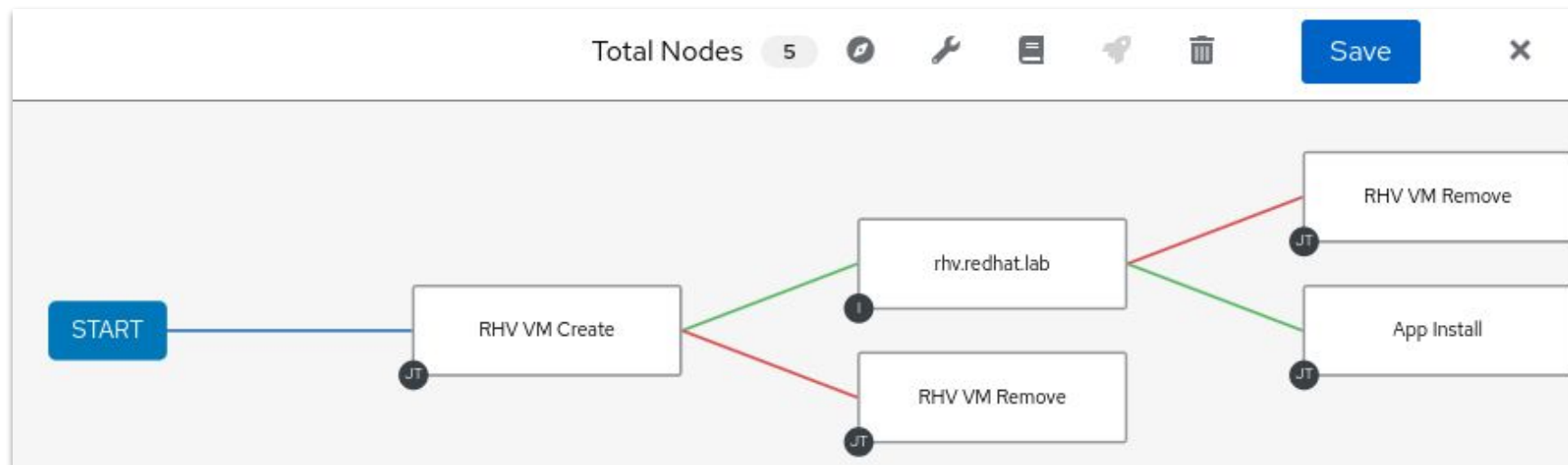


Ansible Controller Workflows

Workflows. Solve complex problems.

What is it?

- ▶ Launch multiple Job Templates
- ▶ Add approvals
- ▶ No Code approach



Ansible Controller API

Automation controller API.

Integrate and elevate your automation.

What is it?

- ▶ Programmatic access to the automation
- ▶ Simple integration with tools like ITSM, SOAR, etc
- ▶ Powered by the same workflows, inventories, credentials, etc

```
REST API / Version 2

Version 2 ⓘ

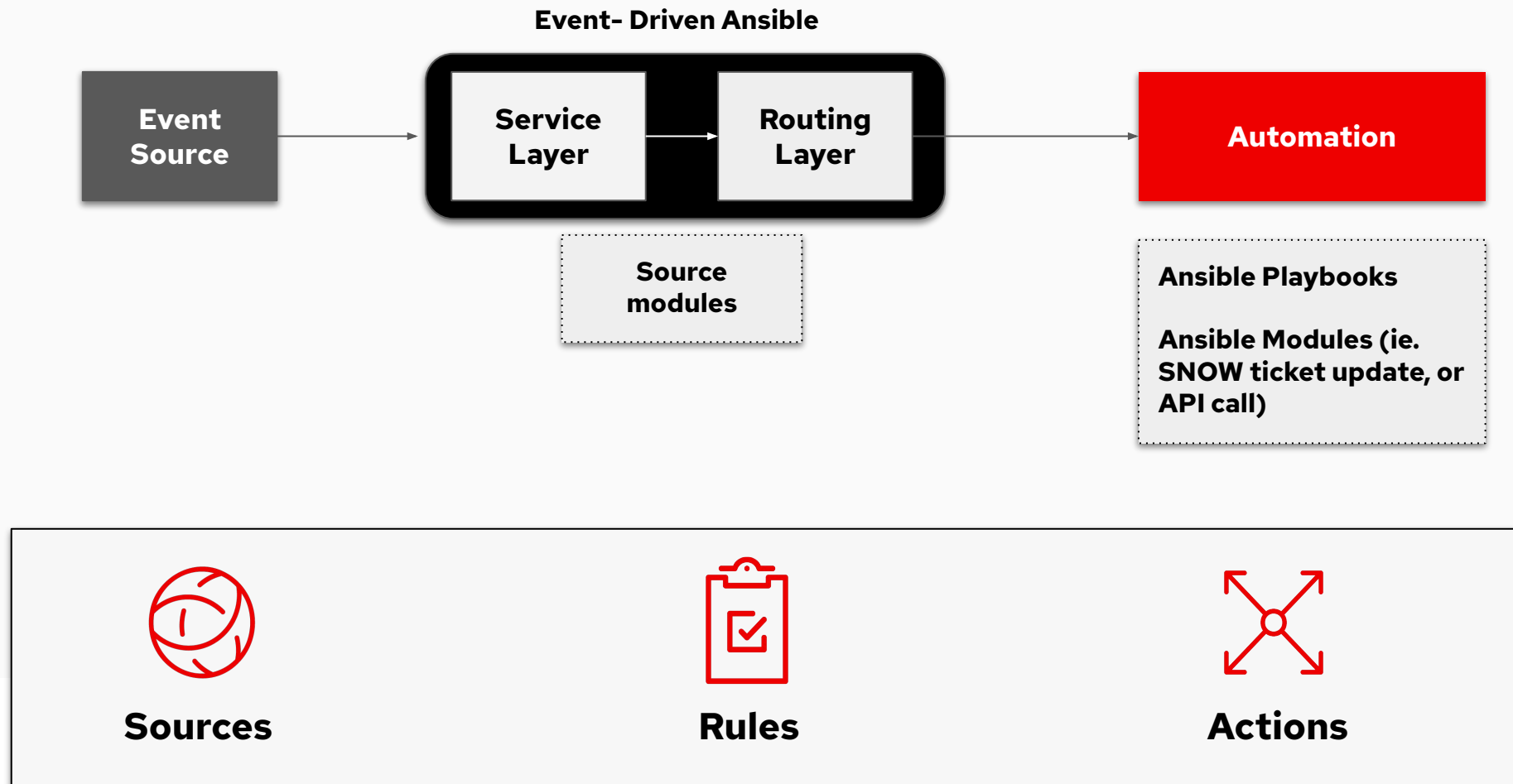
GET /api/v2/

HTTP 200 OK
Allow: GET, HEAD, OPTIONS
Content-Type: application/json
Vary: Accept
X-API-Node: 127.0.0.1
X-API-Product-Name: Red Hat Ansible Automation Platform
X-API-Product-Version: 4.1.1
X-API-Time: 0.005s

{
  "ping": "/api/v2/ping/",
  "instances": "/api/v2/instances/",
  "instance_groups": "/api/v2/instance_groups/",
  "config": "/api/v2/config/",
```

Event - Driven Ansible

Event Driven Automation with Event - Driven Ansible (EDA)



Event-Driven Ansible **Integration Technologies**

PARTNER SOURCE PLUGINS

- Prometheus/Alertmanager
- AppDynamics
- Sensu
- Dynatrace

OPEN SOURCE PLUGINS

- Kafka (event streams)
- webhooks
- watchdog (file system watcher)
- url_check (url status check)
- range (event generation plugin_)
- file (loading facts from yaml)

ROADMAP FOR INTEGRATIONS

- Azure Service Bus
- AWS EventBridge

Event-Driven Ansible

How does Ansible handle rules processing?

```
- name: Read messages from a kafka topic and act on them
hosts: all
sources:
  - name: Listen for kafka topic
    ansible.eda.kafka:
      host: broker
      port: 9092
      topic: eda-topic
rules:
  - name: Say Welcome
    condition: event.message == "Welcome to RH Summit!"
    action:
      run_playbook:
        name: say-what.yml
```

- Event sources are processed through conditional rules
- Actions are triggered once rule conditions are met

Event Source

Automation

Ansible Self-Service

Automation services catalog. **Ansible Self-Service.**

What is it?

- ▶ On-premises self-service portal
- ▶ Makes automation easy to consume

The screenshot displays the 'IaaS' portfolio page in the Ansible Self-Service catalog. The page title is 'IaaS' with the subtitle 'Infrastructure as a Service - Operating Systems, Storage and Networking'. A search bar labeled 'Filter by product' is present, along with 'Add' and 'Remove' buttons. The main content area features four service cards, each with a logo, a title, and a brief description:

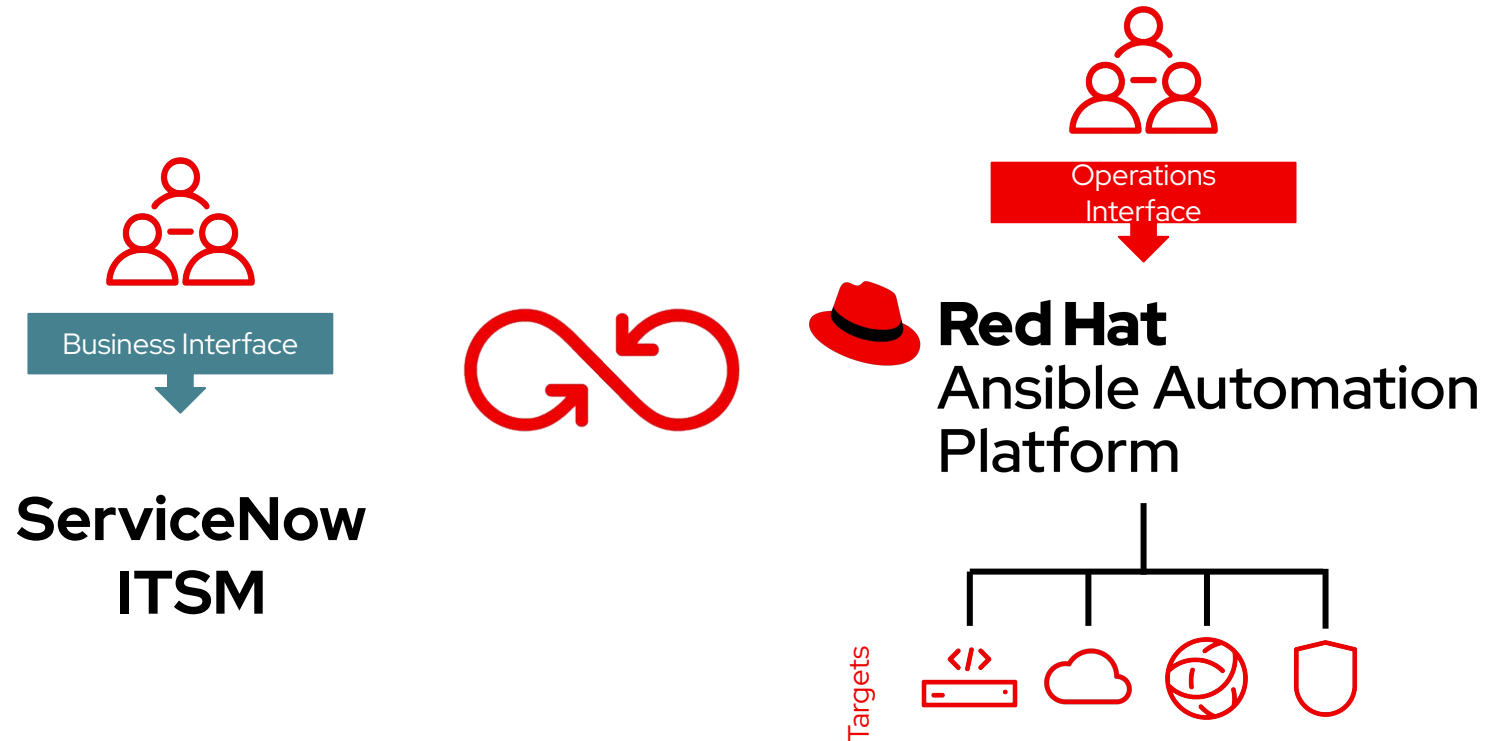
- CentOS 8 Minimal for Develop...**: CentOS minimal install for rapid development provisioning.
- Microsoft Windows 2010 Server**: Windows Server 2010 in a Virtual Machine on Hyper V.
- Red Hat Enterprise Linux 8 EC...**: Red Hat Enterprise Linux 8 as EC2 instance in Amazon Web Services (requires approval). Includes an 'Approval process set' button.
- RHEL 8 VM**: Red Hat Enterprise Linux 8 for Virtual Machine on Red Hat Enterprise Virtualization in Product...

Additional UI elements include a 'Share' button, a '1-4 of 4' indicator, and a 'Feedback' button in the bottom right corner.

ServiceNow ITSM and **Ansible** Integration.

What is it?

- ▶ Enables “closed loop” automation of IT service management
- ▶ Open, close and update ITSM requests
- ▶ Automate common service request actions and remediation events

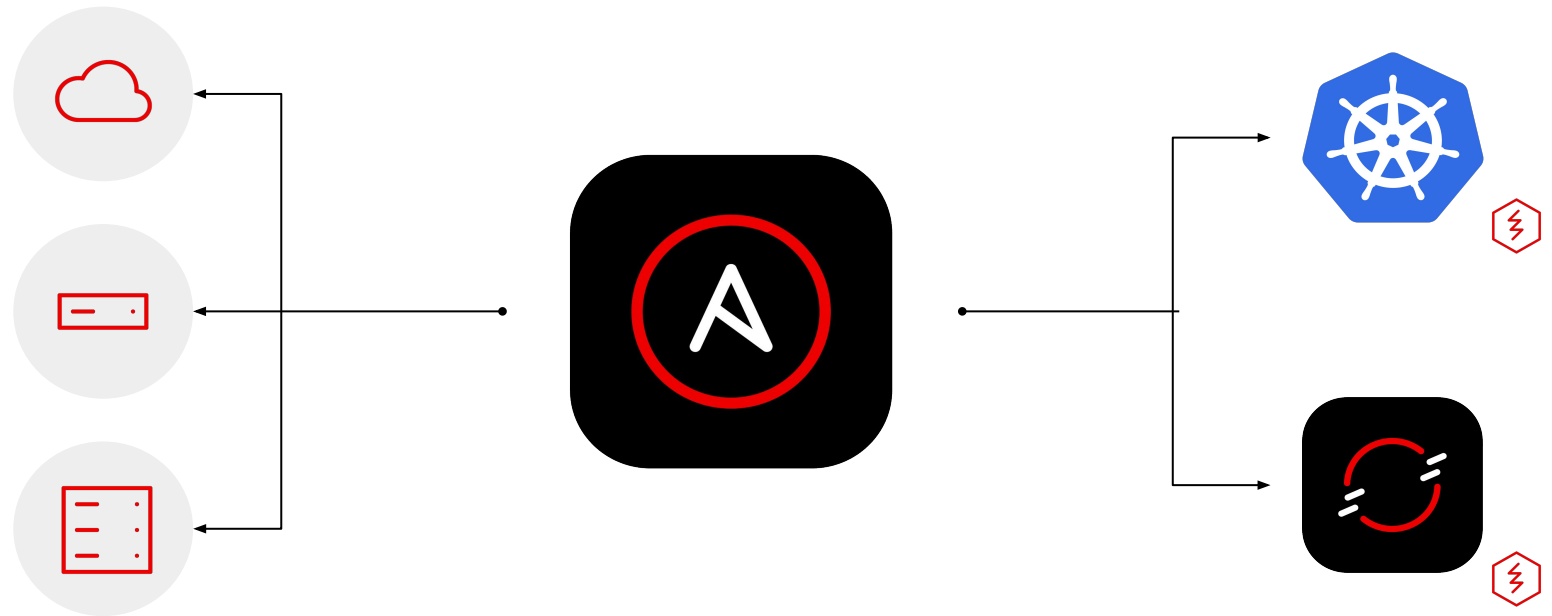


OpenShift and Ansible Integration

Ansible Automation Platform - OpenShift integration

Better Together

- ▶ Infrastructure orchestration
- ▶ Life cycle management
- ▶ Cloud operations



Red Hat
Summit

Connect

Thank you



[linkedin.com/company/red-hat](https://www.linkedin.com/company/red-hat)



[facebook.com/redhatinc](https://www.facebook.com/redhatinc)



[youtube.com/user/RedHatVideos](https://www.youtube.com/user/RedHatVideos)



twitter.com/RedHat