



# ANSIBLE MEETUP

MONTREAL & QUEBEC - NOVEMBRE 2023

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**Dan Dobrescu**

Senior Solutions Architect, Red Hat

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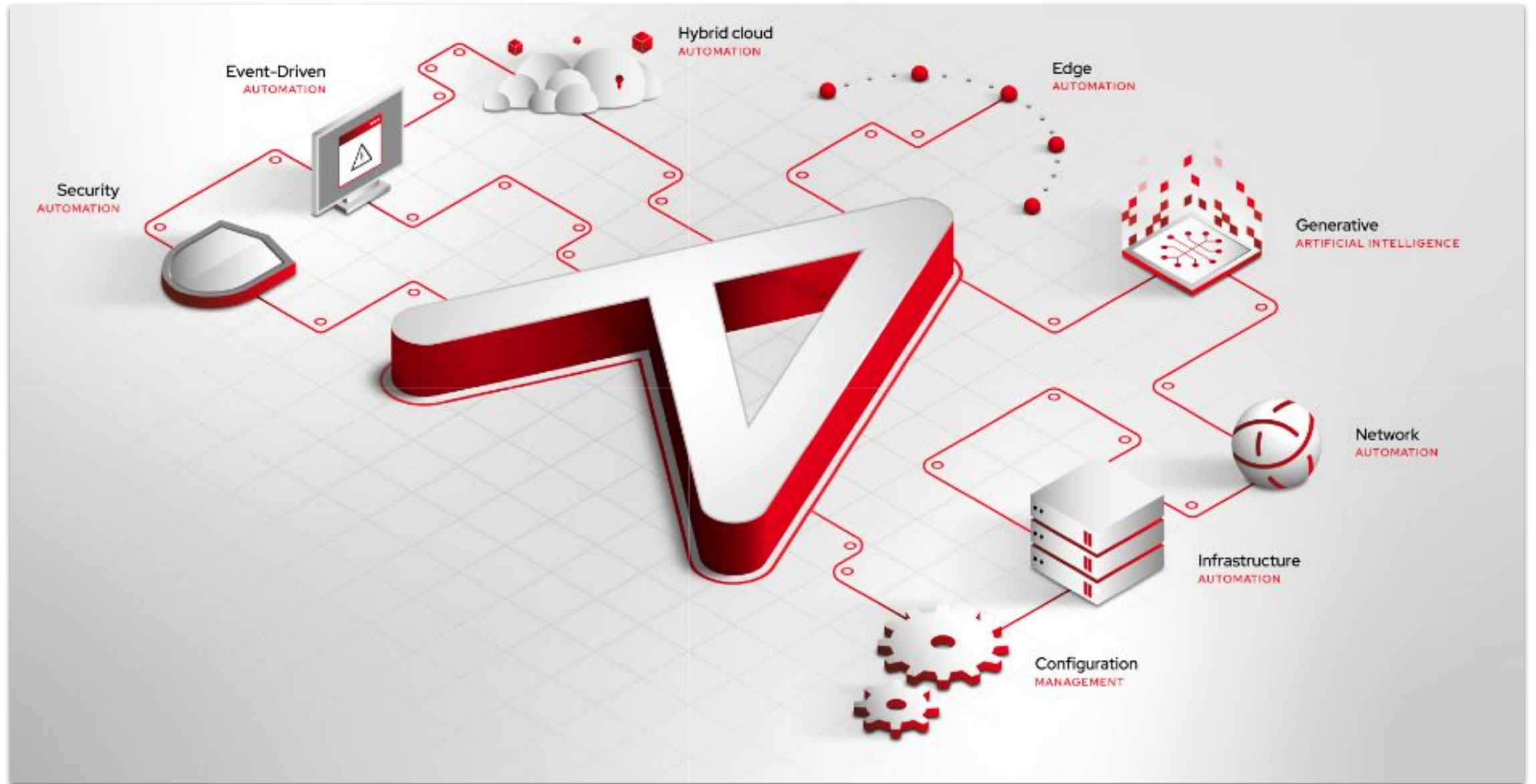
**Michael Lessard**

Principal Solutions Architect, Red Hat

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**David Moreau Simard**

Contributeur Ansible



# AGENDA

**17:00 - 17:15**

**Bienvenue et nouvelles Ansible** par Dan Dobrescu et Michael Lessard, Red Hat

**17:15 - 17:45**

**Utilisation de Structures de Données Complexes dans Ansible** par Pierre Blanc, Red Hat

**17:45 - 18:15**

**Des métriques d'Ansible dans Prometheus ? Why not ?** par David Moreau Simard

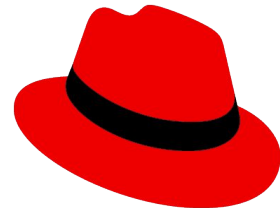
**18:15 - 18:40**

**Automatisation de la configuration d'un Mac,** par Benoit H.Dicaire

**18:40 - 19:00**

**Comment est construit Ansible Lightspeed** par Gonéri Le Boudier, Red Hat

## Merci à nos commanditaires



**Red Hat**



OVHcloud™

# Ansible Meetup Logos

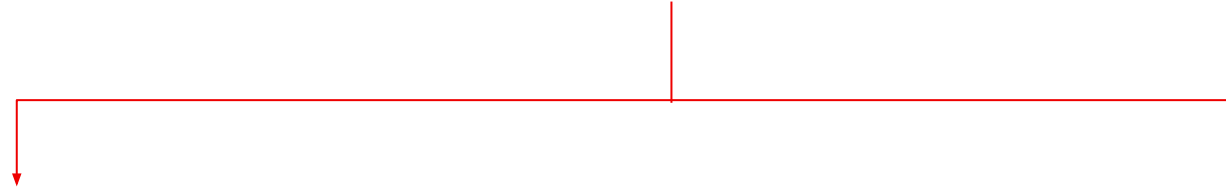


**A**nsible Montréal



**A**nsible Québec

# Options d'hébergement de la plateforme d'automatisation Ansible



Red Hat Enterprise Linux 8.3+  
x86\_64 (physical, virtual)



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



Sur Microsoft **Azure marketplace**



Sur Amazon **AWS marketplace**



Sur Google **GCP marketplace**

Auto gestion (sur site ou nuage)

Déployé par le client  
Géré par Red Hat

Déployé par le client  
Auto gestion

# Emplois nécessitant Ansible au Canada !!

The screenshot displays a job search interface. At the top left, a blue header bar contains the search term 'ansible in Canada' with 828 results and a 'Set alert' toggle. Below this, a list of job listings is shown. The first listing is for 'Expert Solution Design – Cloud Compute and Infrastructure- EN' at CN, located in Montreal, QC (Hybrid), with 17 applicants. The second listing is for 'Account Solution Architect' at Red Hat in Quebec, Canada, with 257 applicants. The third listing is for 'Expert Solution Design – Digital platforms & Cloud- EN' at CN in Montreal, QC (Hybrid), with 11 applicants. The fourth listing is for 'Architecte Cloud d'entreprise' at BOMBARDIER in Dorval, QC (On-site), with 14 applicants. The right side of the page shows a detailed view of the first job listing, including its title, location, company, and various details like job type (Hybrid, Full-time, Mid-Senior level), employee count (10,001+), and skills (Kubernetes, Solution Architecture, etc.). There are 'Apply' and 'Save' buttons, and an 'About the job' section with a paragraph of text.

ansible in Canada  
828 results

Set alert

**Expert Solution Design – Cloud Compute and Infrastructure- EN**  
CN  
Montreal, QC (Hybrid)  
11 connections work here  
Promoted · 17 applicants

**Account Solution Architect**  
Red Hat  
Quebec, Canada  
257 connections work here  
Promoted

**Expert Solution Design – Digital platforms & Cloud- EN**  
CN  
Montreal, QC (Hybrid)  
11 connections work here  
Promoted

**Architecte Cloud d'entreprise**  
BOMBARDIER  
Dorval, QC (On-site)  
Your profile matches this job  
Promoted · 14 applicants

**Expert Solution Design – Cloud Compute and Infrastructure- EN**  
CN · Montreal, QC Reposted 1 week ago · 17 applicants

Hybrid · Full-time · Mid-Senior level

10,001+ employees · Rail Transportation

11 connections work here

See how you compare to 17 applicants. [Retry Premium Free](#)

Skills: Kubernetes, Solution Architecture, +8 more

View verifications related to this job post. [Show all](#)

Apply Save

**About the job**

At CN, we work together to move our company—and North America—forward. Be part of our Information & Technology (I&T) team, a critical piece of the engine that keeps us in motion. From enterprise architecture to operational technology, our teams use the agile methodology to automate and digitize our railroad ensuring our operations run optimally and safely and our employees can focus on value-added tasks. You will be able to develop your skills and career in our close-knit, safety-focused culture working together as ONE TEAM. The careers we offer are meaningful because the work we do matters. Join us!

**Job Summary**



# Nouvelles de la communauté en vrac

- Nouveau forum Ansible: <https://forum.ansible.com/>
- 6 novembre 2023 : ansible-core 2.16
- Ansible 9 à venir prochainement
- Contributor Summit à Durham en Octobre: <https://www.ansible.com/blog/ansible-contributor-summit-durham-2023>
- Community Day à Berlin <https://www.ansible.com/blog/ansible-community-day-berlin-2023>
- FOSDEM et Configuration Management Camp en Belgique à venir en février 2024: <https://cfgmgmtcamp.eu/ghent2024/>  
<https://fosdem.org/2024/>

The screenshot displays the Ansible Community website interface. On the left, a navigation menu includes sections for Topics, Groups, More, Categories (with sub-items like News & Announcements, Get Help, Project Discussions, Events, Social Space, International Communities, and Forum Guide & Feedback), and Tags (with sub-items like galaxy-ng, awx, playbook, documentation, and collections). The main content area is titled 'ANSIBLE COMMUNITY' and features a 'Categories' tab selected, showing a list of sections: 'News & Announcements' (2 / week), 'Get Help' (35 / week), 'Project Discussions' (3 / week), 'Events' (2 / week), and 'Social Space' (11). The 'Latest' sidebar on the right lists recent community updates, such as 'Define our community Mission statement', 'Welcome to the Ansible Community!', 'PostgreSQL Conference Europe 2023', 'AWX cli problem', 'Help to configure AWX using infra.controller\_configuration', and 'Ansible checking AP status'.

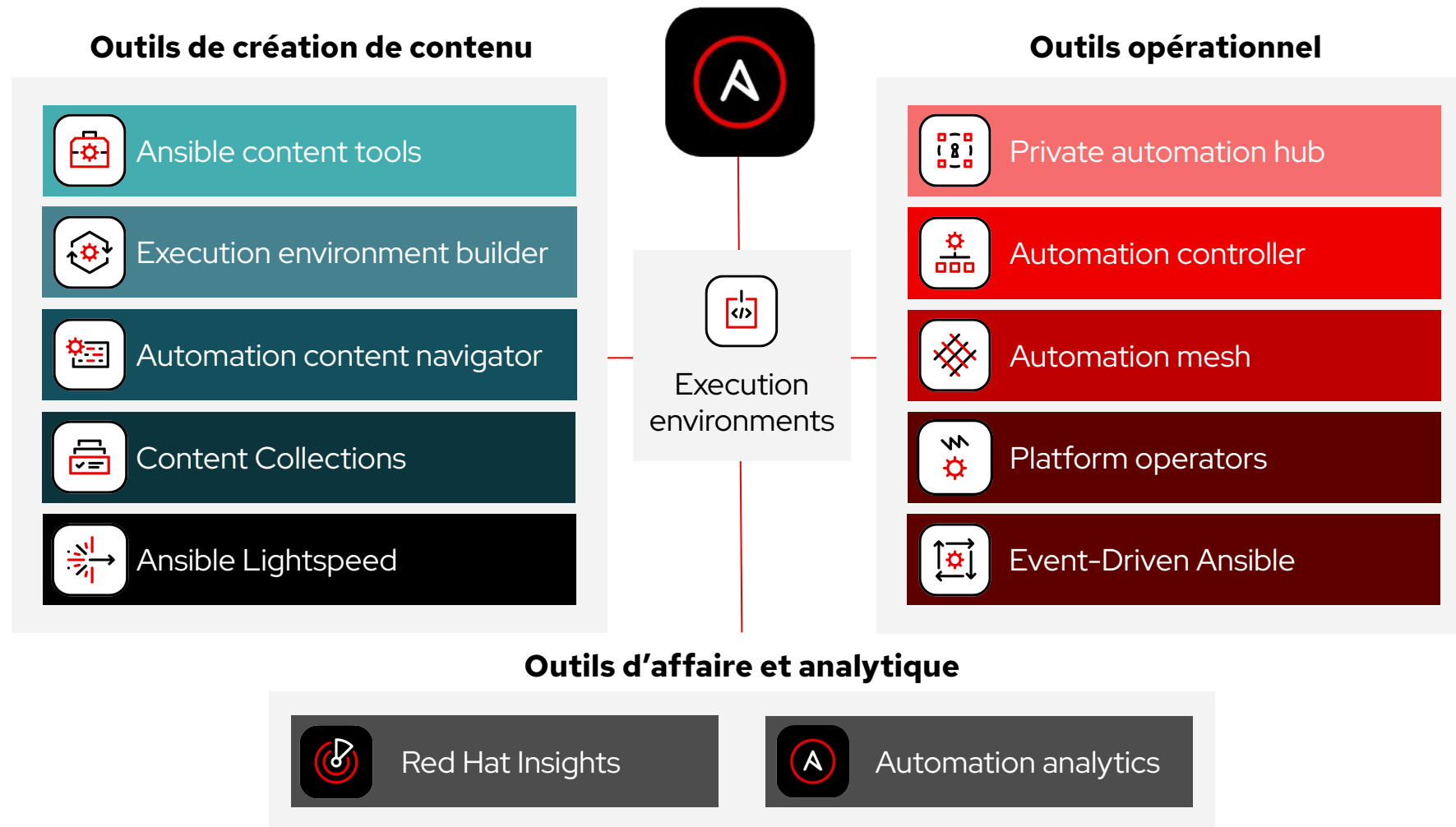




# RED HAT ANSIBLE PLATFORM 2.4

GA : 27 Juin 2023

# Une solution intégrée **pour l'entreprise.**



# Mises à jour sur les versions

Version	General availability	Full support ends	Maintenance Support 1 ends	Maintenance support 2 ends	Extended life cycle support (ELS) add-on ends
<b>Full support</b>					
2.4	June 27, 2023	June 27, 2024	June 27, 2025	December 31, 2025	
<b>Maintenance support</b>					
2.3	November 29, 2022	June 30, 2023	November 29, 2023	May 31, 2024	N/A
2.2	May 26, 2022	November 24, 2022	May 24, 2023	November 26, 2023	N/A
<b>Extended support</b>					
1.2	November 18, 2019	May 18, 2021	May 18, 2022	September 29, 2023	December 31, 2024
<b>End of life</b>					
2.1	December 2, 2021	June 2, 2022	December 2, 2022	June 2, 2023	N/A
2.0	July 15, 2021	January 15, 2022	July 15, 2022	August 26, 2022	N/A



# Mises à jour **sur les versions**

AAP version	Execution environments	Decision environments	Automation controller version	Event-Driven Ansible controller version	Private automation hub version	Ansible-navigator version	Ansible-builder version	RHEL version	OCP supported	RHEL-provided PostgreSQL version
2.4	core 2.15, ee-minimal, ee-supported, ee-2.9*	rulebook 1.0, de-minimal, de-supported	4.4	1.0	4.7	3.3	3.0	8.6+, 9.0+	4.10-4.13	13
2.3	core 2.14, ee-minimal, ee-supported, ee-2.9*	N/A	4.3	N/A	4.6	2.2	1.2	8.4+, 9.0+	4.9-4.12	13
2.2	core 2.13, ee-minimal, ee-supported, ee-2.9*	N/A	4.2	N/A	4.5	2.1	1.1	8.4+, 9.0+	4.8-4.11	13
2.1	core 2.12, ee-minimal, ee-supported, ee-2.9*	N/A	4.1	N/A	4.4	1.1	1.0	8.4+	4.7-4.10	12
2.0	core 2.11, ee-minimal, ee-supported, ee-2.9*	N/A	4.0	N/A	4.3	TBD	1.0	8.4+	4.6-4.9	12
1.2	Ansible Engine 2.9**	N/A	3.8	N/A	4.2	N/A	N/A	7.7+, 8.2+	3.11	10

<https://access.redhat.com/support/policy/updates/ansible-automation-platform>

# Quoi de nouveau avec AAP 2.4 ?

- Event-Driven Ansible (GA)
- Collection repository management
- Validated content integration
- Ansible Builder 3.0
- Platform install support for ARM
- Platform install support for Linux on Power and Z are in Technology Preview support
- Updated user interface in Technology Preview support
- Introducing Ansible Molecule with Ansible Automation Platform

<https://developers.redhat.com/articles/2023/09/13/introducing-ansible-molecule-ansible-automation-platform>

- Views
  - Dashboard
  - Jobs
- Resources
  - Templates
  - Credentials
  - Projects
  - Inventories
  - Hosts
- Access
  - Organizations
  - Teams
  - Users
- Administration
  - Instance Groups
  - Instances
  - Execution Environments
- Analytics
  - Reports
  - Host Metrics

**i** You are currently viewing a tech preview of the new Ansible Automation Platform user interface. To return to the original interface, [click here](#).

## Welcome to Ansible Automation Platform

Define, operate, scale, and delegate automation across your enterprise.

**Inventories** [Go to Inventories](#)

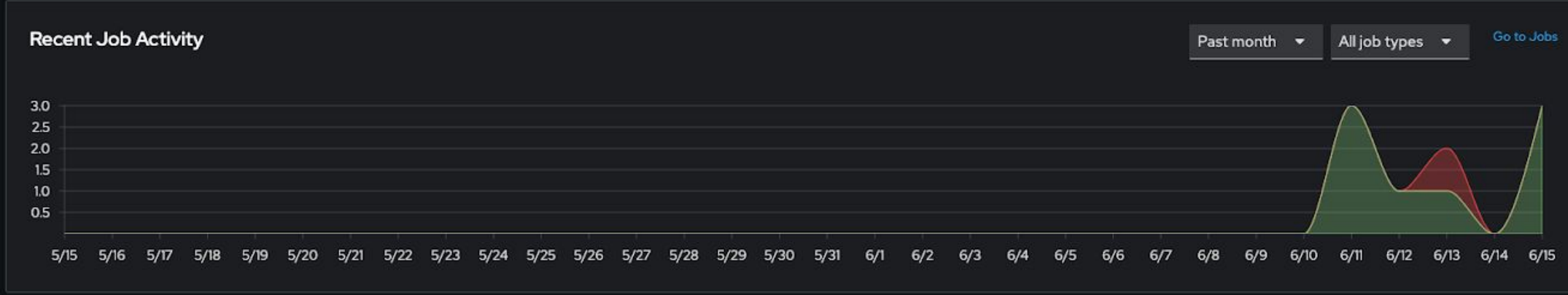
1 ■ 1 Ready

**Hosts** [Go to Hosts](#)

4 ■ 4 Ready

**Projects** [Go to Projects](#)

1 ■ 1 Ready



**Jobs** [Go to Jobs](#)

Recently finished jobs

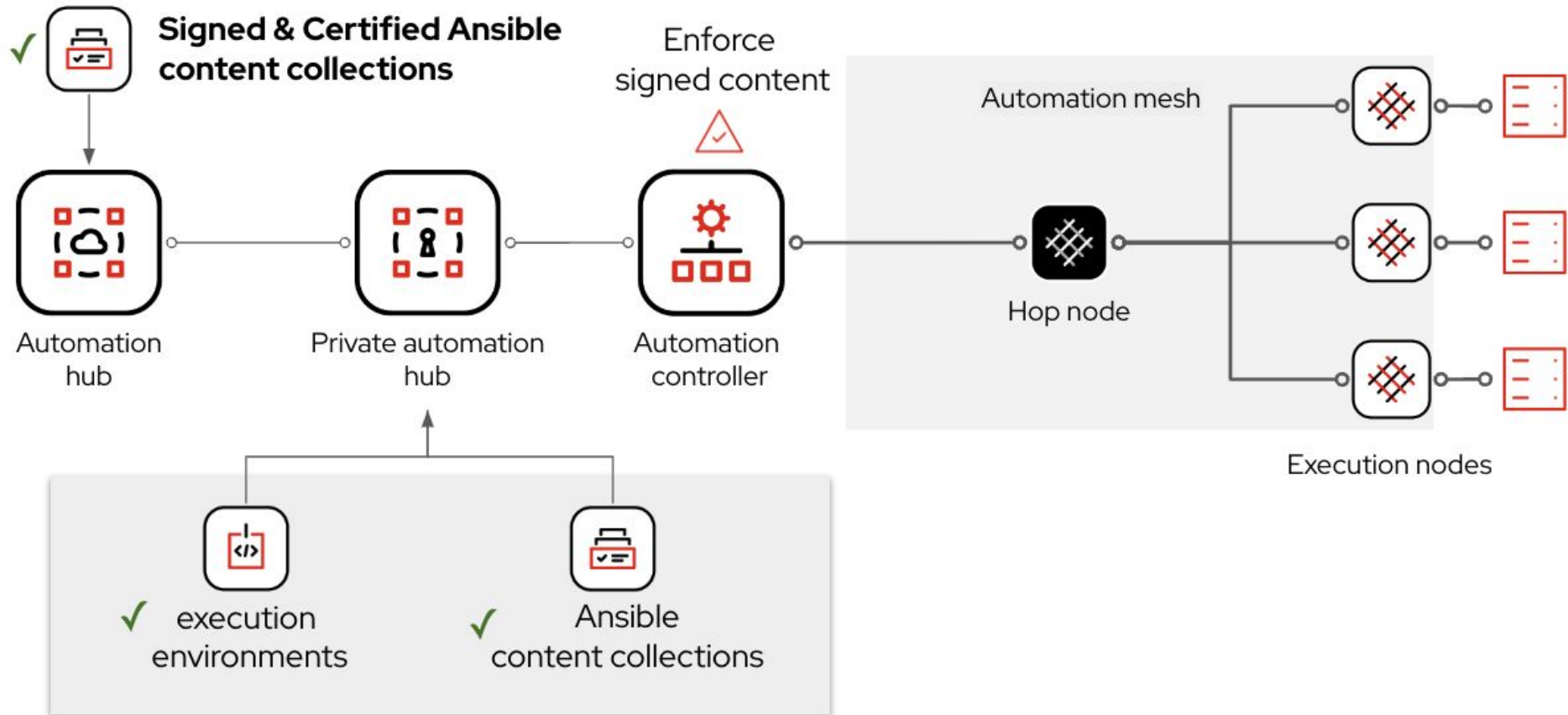
ID	Name	Status	Type	Finished
9	<a href="#">INFRASTRUCTURE / Deploy Application</a>	<span style="color: green;">✔</span> Successful	Playbook run	6/16/2023, 2:08:45 PM
8	<a href="#">INFRASTRUCTURE / Deploy Application</a>	<span style="color: green;">✔</span> Successful	Playbook run	6/16/2023, 1:45:19 PM
7	<a href="#">INFRASTRUCTURE / Deploy Application</a>	<span style="color: green;">✔</span> Successful	Playbook run	6/16/2023, 12:14:53 PM
6	<a href="#">INFRASTRUCTURE / Deploy Application</a>	<span style="color: green;">✔</span> Successful	Playbook run	6/14/2023, 2:06:07 PM
5	<a href="#">INFRASTRUCTURE / Deploy Application</a>	<span style="color: red;">❌</span> Failed	Playbook run	6/14/2023, 2:04:23 PM
4	<a href="#">Cleanup Activity Stream</a>	<span style="color: green;">✔</span> Successful	Management job	6/13/2023, 5:07:23 PM

# La chaîne d'approvisionnement du contenu d'automatisation



## Solution et valeur commerciale

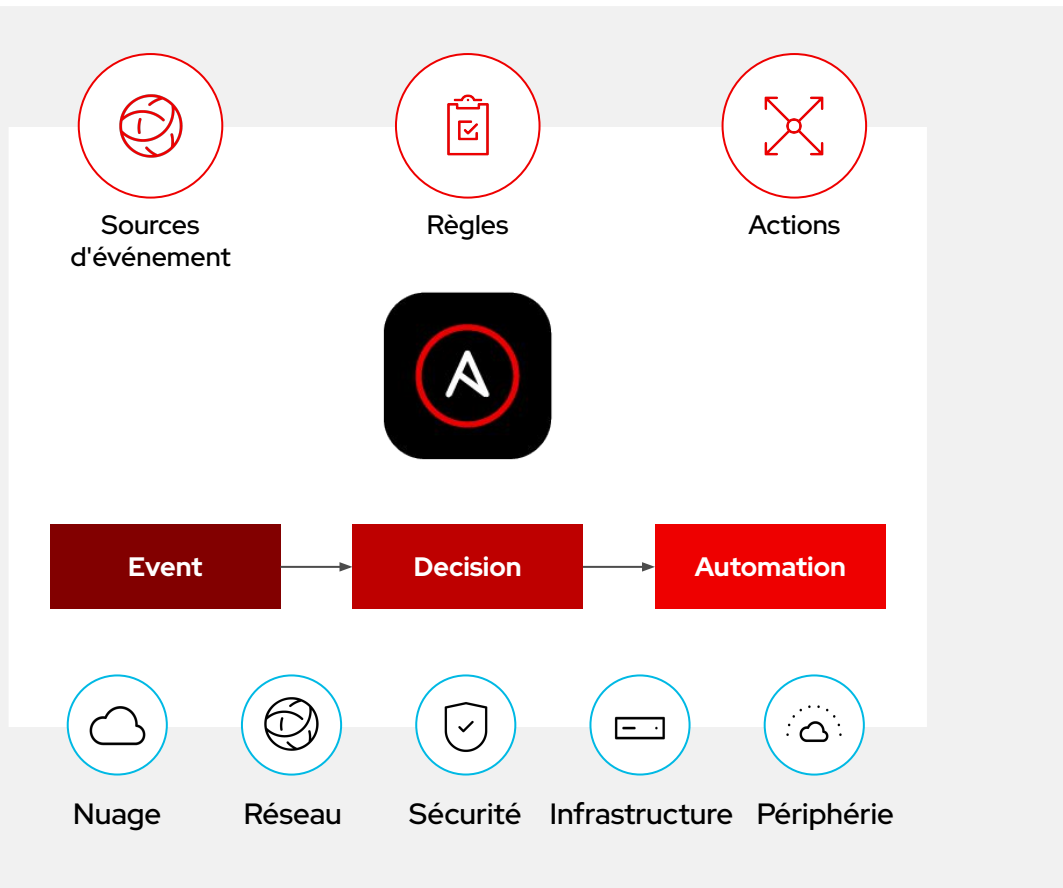
- ▶ Les organisations peuvent créer une chaîne d'approvisionnement logicielle fiable de bout en bout pour leur contenu d'automatisation





# Event-Driven Ansible. Observer Évaluer Agir

GA



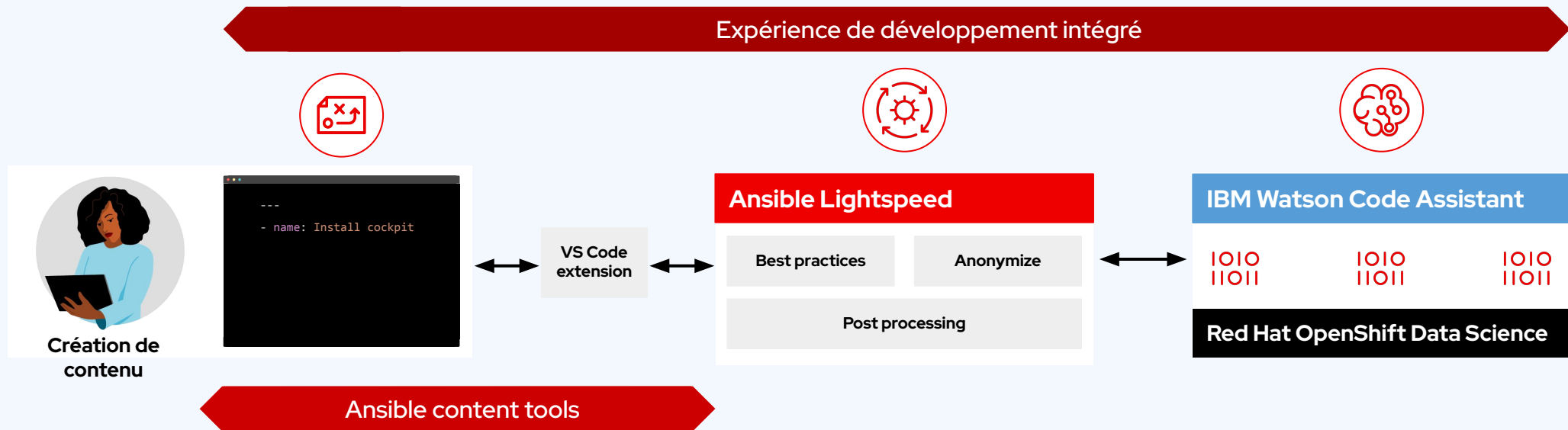
## Remédiation et observation des événements

- ▶ **Les plugins source** permettent à Ansible Event-Driven d'écouter les événements qui peuvent être traités par des rulebooks.
- ▶ **Les règles**, sous la forme de rulebooks, nous permettent de créer des conditions d'événement qui, lorsqu'elles sont remplies, déclenchent une action.
- ▶ **Les actions** nous permettent de déclencher des playbooks, des modules, des notifications et d'autres déclencheurs d'événements en fonction des conditions qui ont été remplies par un événement spécifique.



# Ansible Lightspeed

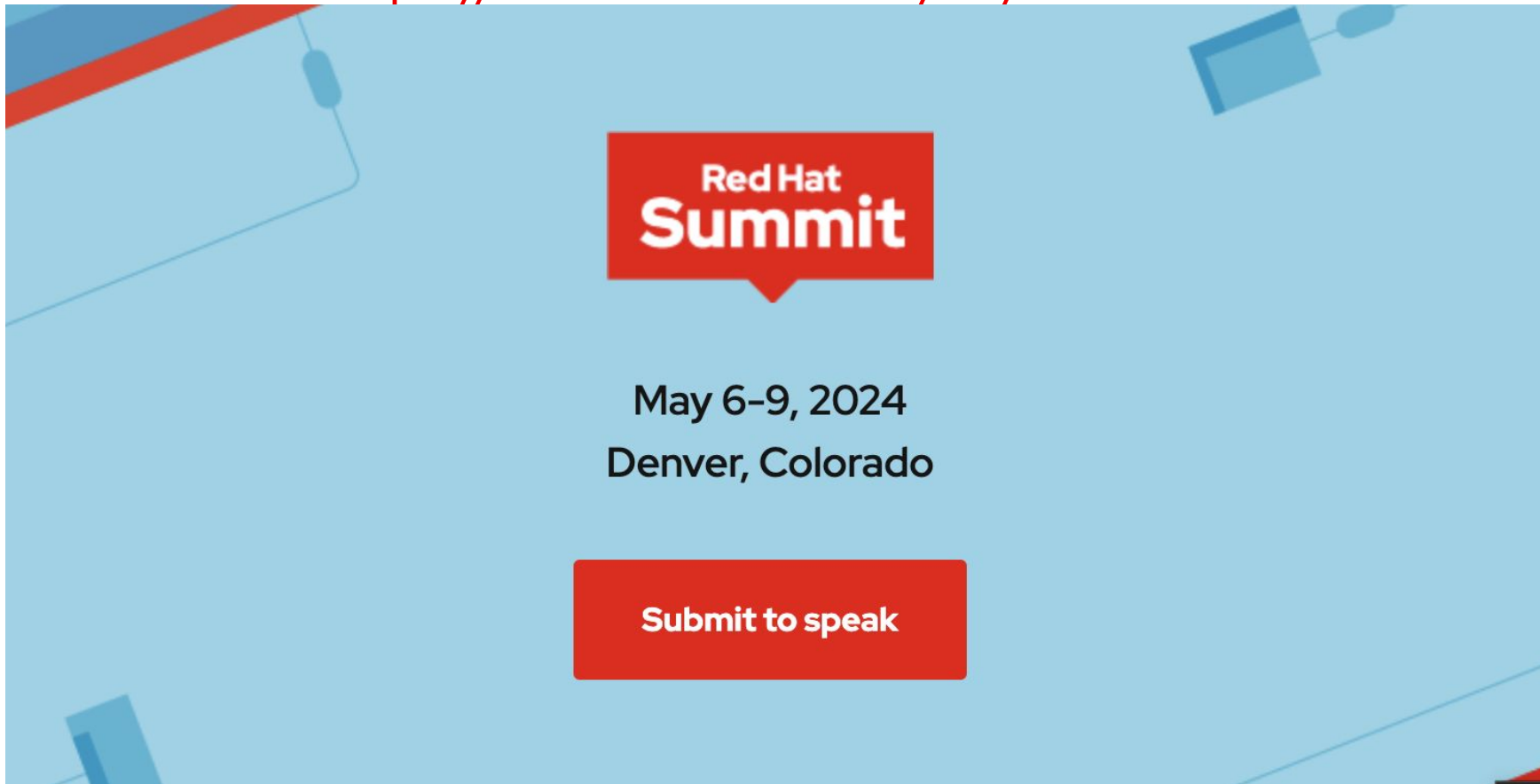
## GA - 2 Novembre 2023



# Red Hat Summit 2024

## Ansible Fest

<https://www.redhat.com/en/summit>



# Merci !

Red Hat est le premier fournisseur mondial de solutions logicielles open source pour les entreprises. Des services primés d'assistance, de formation et de conseil font de Red Hat un conseiller de confiance pour les entreprises du Fortune 500.

Red Hat un conseiller de confiance pour les entreprises du Fortune 500.



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



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

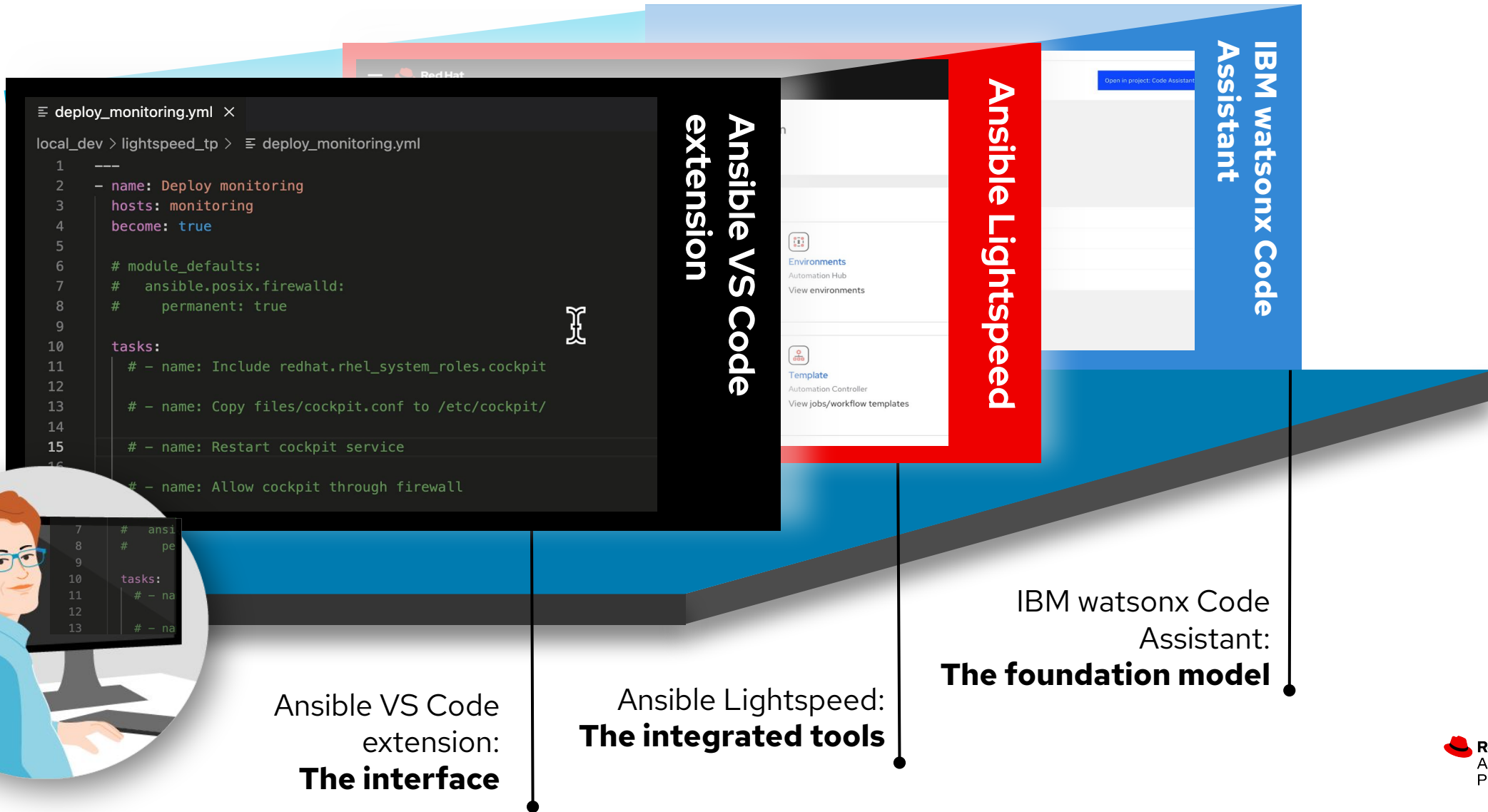


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[twitter.com/RedHat](https://twitter.com/RedHat)

# Red Hat Ansible Lightspeed with IBM watsonx Code Assistant



deploy\_monitoring.yml

local\_dev > lightspeed\_tp > deploy\_monitoring.yml

```
1 ---
2 - name: Deploy monitoring
3   hosts: monitoring
4   become: true
5
6   # module_defaults:
7   #   ansible.posix.firewalld:
8   #     permanent: true
9
10  tasks:
11    # - name: Include redhat.rhel_system_roles.cockpit
12
13    # - name: Copy files/cockpit.conf to /etc/cockpit/
14
15    # - name: Restart cockpit service
16
17    # - name: Allow cockpit through firewall
```

Ansible VS Code extension

Ansible Lightspeed

IBM watsonx Code Assistant

Ansible VS Code extension:  
**The interface**

Ansible Lightspeed:  
**The integrated tools**

IBM watsonx Code Assistant:  
**The foundation model**

```
configure_postgres.yml
playbooks > configure_postgres.yml
1 ---
2 - name: Configure Database servers
3   hosts: databases
4   become: true
5
6   tasks:
7     # Install postgresql-server & Run postgresql-setup command & Start and enable postgresql service & Allow the traffic
```

Ln 7, Col 121 Spaces: 2 UTF-8 LF Ansible [EE] 2.15.3 Lightspeed Python 3.10.12

## Multi-Task Generation

- Generate multiple Ansible task suggestions for Ansible Task files and Playbooks by providing a sequential chain of natural language task prompts chained together using ampersands (&) in YAML comment (#) lines.



# Create

# Adopt

# Maintain

The screenshot shows a GitHub repository for 'network.bgp' (Public). The repository is forked from 'amugagaade/network.bgp'. The main branch is selected, and it is 5 commits ahead and 2 commits behind the upstream main. The repository contains 134 commits. The file list includes:

File	Commit Message	Time
.github	Update ansible-code-bot.yml	last week
changelogs	Update actions to operations	4 months ago
meta	Prepare Release 1.1.0	last year
plugins/filter	Update dire structure	7 months ago
roles/run	Update actions to operations	4 months ago
tests/bgp	Update tests	5 months ago
.ansible-lint.yml	Create .ansible-lint.yml	3 months ago
.gitignore	update github workflow	last year
.pre-commit-config.yml	Fix linting issues	8 months ago
.prettierrc	update github workflow	last year
.yamllint	Fix linting issues	8 months ago
CHANGELOG.rst	Prepare release 3.0.0	5 months ago
LICENSE	initial commit	last year
README.md	Update README.md	last week
bindp.txt	update github workflow	last year
cosplay.config.yml	Update ansible-lint fixtures	last year
galaxy.yml	Prepare release 3.0.0	5 months ago
pyproject.toml	update github workflow	last year
requirements.txt	update github workflow	last year
test-requirements.txt	update github workflow	last year
tox.ini	update github workflow	last year

The repository also includes a sidebar with 'About' information, 'Releases', 'Packages', and 'Languages' (Python 100.0%).

## Ansible code bot

- Integrates natively into user selected git repos; then scans existing Ansible content and automatically submits pull requests with code improvement recommendations.
- Makes it easier for teams to review, test, and apply improvements to the automation code base.

Create

Adopt

Maintain

Red Hat Hybrid Cloud Console

Services Search for services Preview on Your name

Ansible Automation Platform > Ansible Lightspeed with IBM watsonx Code Assistant > Seat Management

Ansible Automation Platform

Overview

Learning Resources

Automation Hub

Automation Analytics

Ansible Lightspeed with IBM watsonx Code Assistant

Seat Management

Documentation

Red Hat Insights

Inventory

Advisor

Drift

Policies

Register Systems

Remediations

Tasks

### Ansible Lightspeed with IBM watsonx Code Assistant

This group contains all users assigned seats within your organization. Seats available: 9 of 30

Username Filter by Username Assign users Remove users 1 - 10 of 10

Username	First name	Last name
<input type="checkbox"/> lightspeed-username1	User 1	User 1
<input type="checkbox"/> lightspeed-username2	User 2	User 2
<input type="checkbox"/> lightspeed-username3	User 3	User 3
<input type="checkbox"/> lightspeed-username4	User 4	User 4
<input type="checkbox"/> lightspeed-username5	User 5	User 5
<input type="checkbox"/> lightspeed-username6	User 6	User 6
<input type="checkbox"/> lightspeed-username7	User 7	User 7
<input type="checkbox"/> lightspeed-username8	User 8	User 8
<input type="checkbox"/> lightspeed-username9	User 9	User 9
<input type="checkbox"/> lightspeed-username10	User 10	User 10

1 - 10 of 10 Feedback

## Seat management

- > Manage Ansible Lightspeed seats/users from the AAP console