

Red Hat  
**Summit**

**Connect**

# Regional welcome remarks

Red Hat  
**Summit**

**Connect**

# Automation for People

Maximized by Machines

Victor da Costa

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By 2027, AI automation will improve key service-level objectives and reduce manual operations intervention by

70%



Source:

Turner, Mary Johnston. "IDC FutureScape: Worldwide Future of Digital Infrastructure 2023 Predictions." IDC, Dec. 2022.

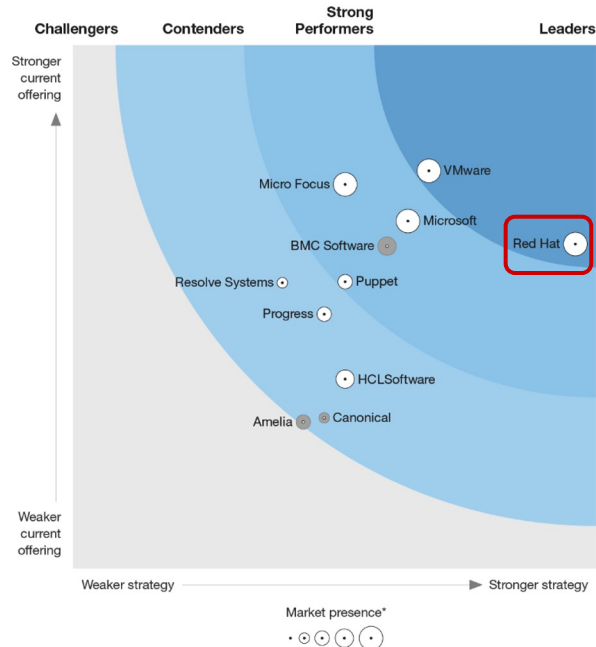
**Anyone can automate...**  
**but an enterprise needs to**  
**coordinate and scale**

# Forrester Wave for **infrastructure automation**

## THE FORRESTER WAVE™

Infrastructure Automation

Q1 2023



\*A gray bubble or open dot indicates a nonparticipating vendor.

## Red Hat named a Leader in The Forrester Wave™

Infrastructure Automation Platforms, Q1 2023



Received highest possible score in the criteria of:

- Deployment functionality
- Product Vision
- Partner Ecosystem
- Supporting products and services
- Community support
- Planned product enhancements

- ▶ "Ansible continues to grow quickly, particularly among enterprises that are automating networks. The solution excels at providing a variety of deployment options and acting as a service broker to a wide array of other automation tools."
- ▶ "Red Hat's solution is a good fit for customers that want a holistic automation platform that integrates with a wide array of other vendors' infrastructure."

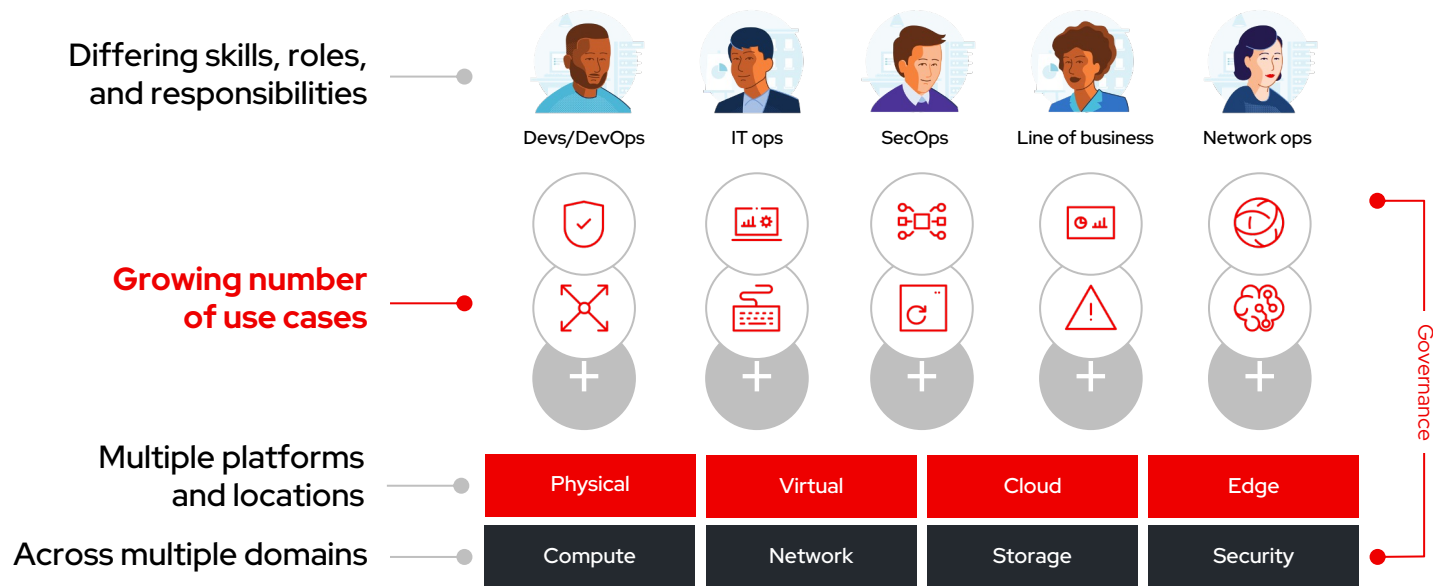
Source:

Chhabra, Naveen with Lauren Nelson, Faith Born, Bill Nagel. "The Forrester Wave™: Infrastructure Automation Platforms, Q1 2023." Forrester, 20 March 2023.

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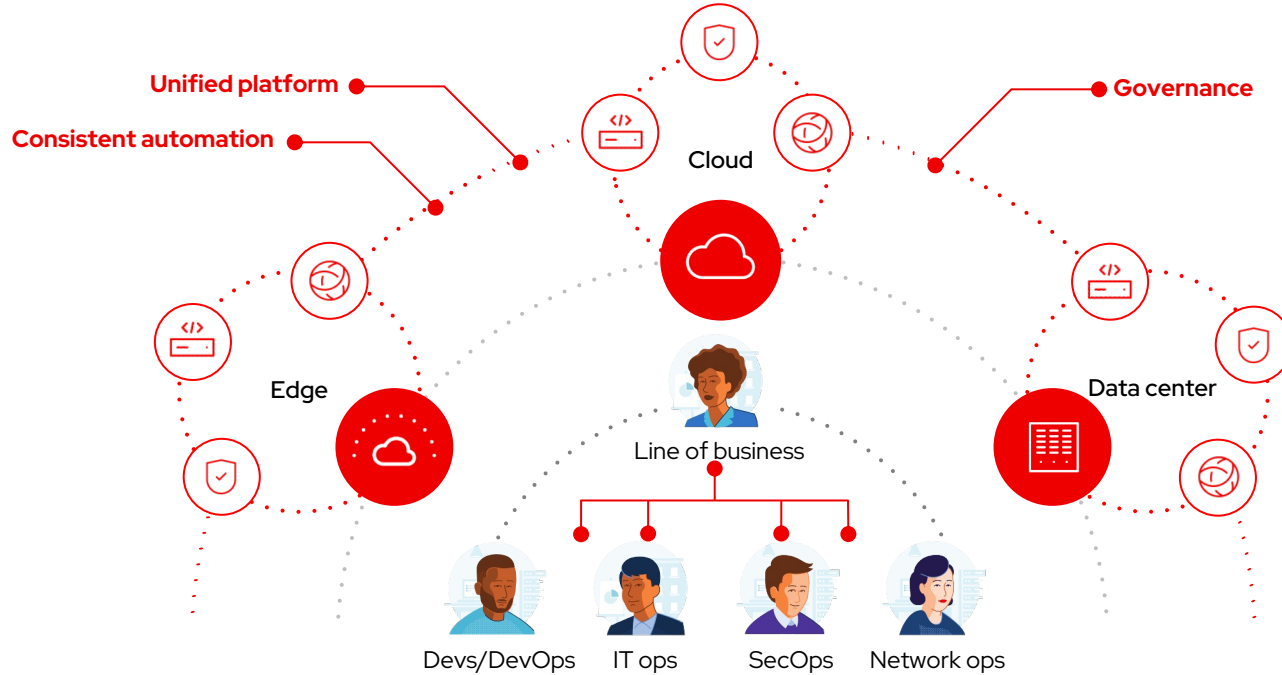


# Many organizations share the same challenge

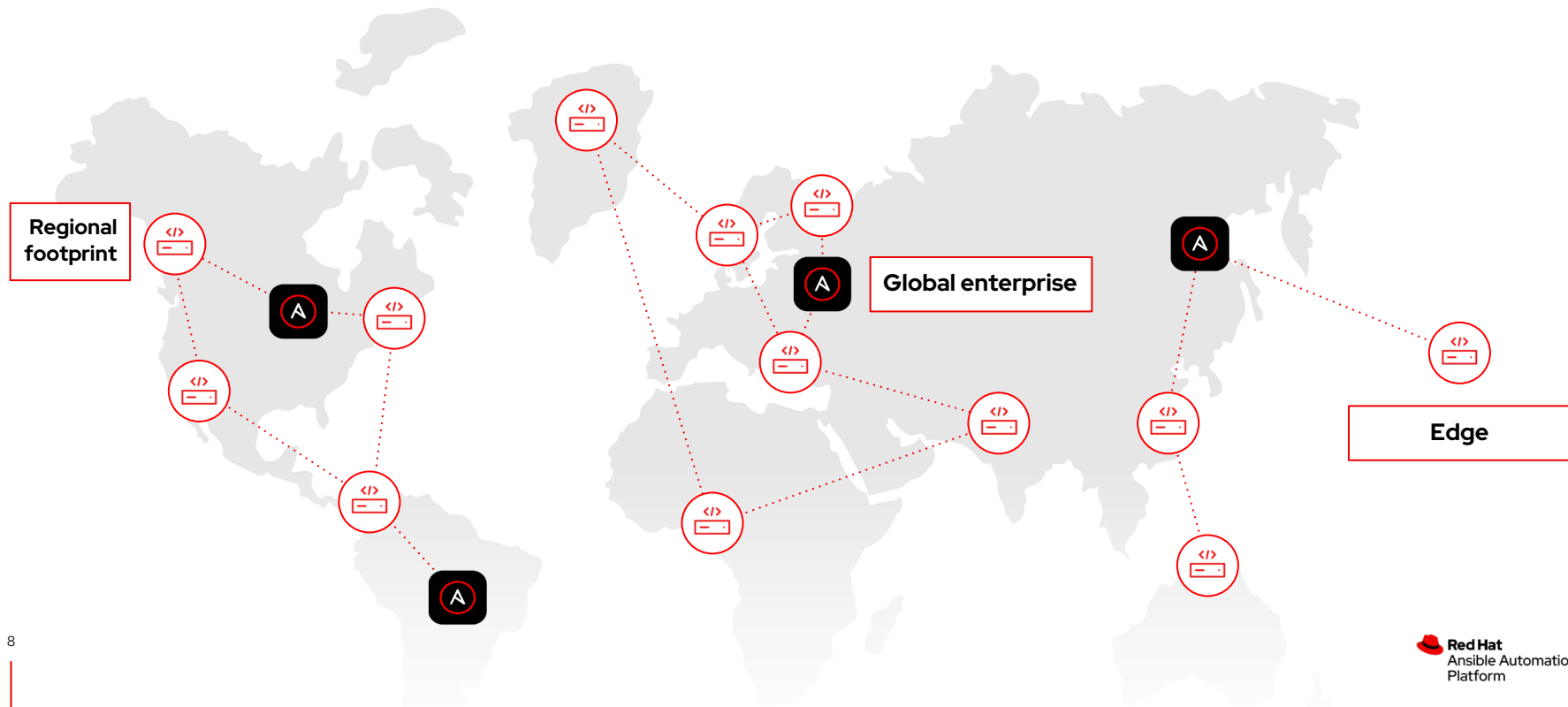


# Unified Automation to build bridges across teams

Different teams, differing skill sets, single platform

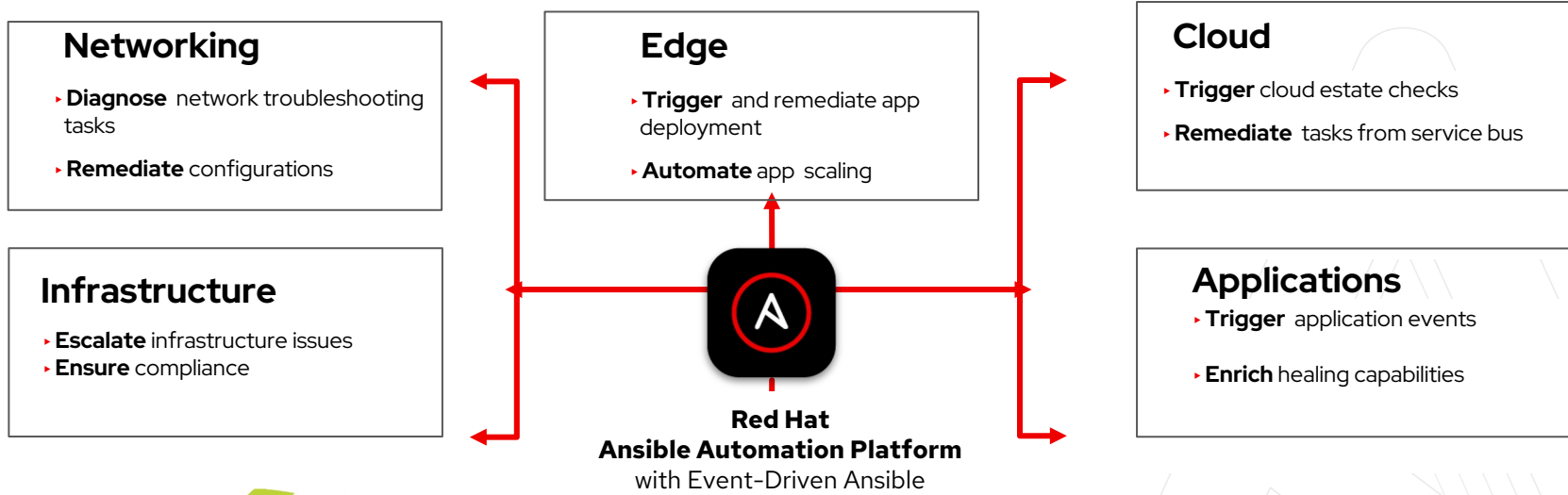


# The flexibility to scale, **wherever that may be.**





# Event-Driven Ansible is use case-friendly.



**Security**

- **Automate** log enrichment / response
- **Escalate** events

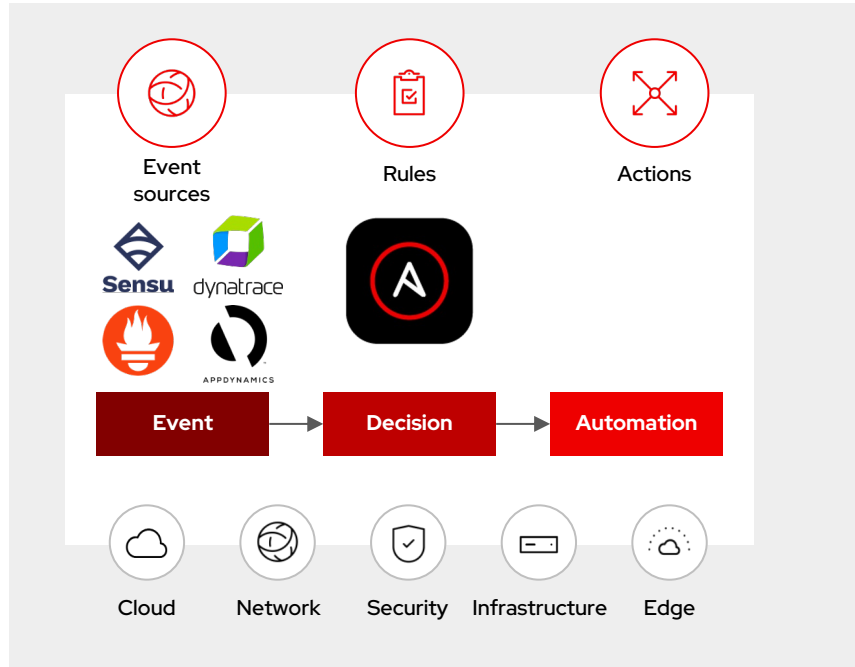


IBM Turbonomic



# The capability to **Observe Evaluate Act**

## Event-Driven Ansible with **Dynatrace**.



### Remediation and Observation from events

- ▶ **Source** plugins provide Event-Driven Ansible the ability to listen for events which can be processed through rulebooks.
- ▶ **Rules** in the form of Rulebooks allow us to create event conditions which once met will trigger an action.
- ▶ **Actions** give us the ability to trigger playbooks, modules, notifications and further event triggers based on the conditions that have been met by a specific event.



### Challenge:

Help clients modernize and automate cloud operations as a Certified Red Hat® Partner

### Products:

Red Hat Ansible Automation Platform  
Red Hat OpenShift  
Red Hat Enterprise Linux

### Value:

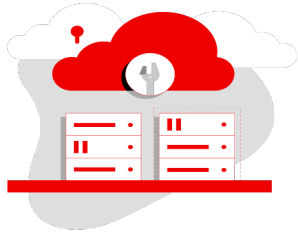
"The level of collaboration is outstanding. Red Hat encourages us to continually test our thinking and explain our challenges." Santana Faint, General Manager, Business and Data Platforms

### By the numbers:

**80% cut**

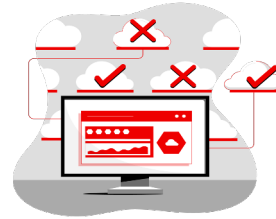
of problems reaching production

# Suggested use cases for **getting started**



## Troubleshooting

Gather cross-domain information to solve problems faster.



## Remediation

Automate remediation of common issues.



## Risk Mitigation

Isolate and quarantine Users, Accesses and Devices.

# Addressing Skill Gaps and Accelerating Adoption with **Ansible Lightspeed**

## Filling the IT Skills Gap



By 2027, 75% of enterprises will combine their siloed automation initiatives to improve overall value, which is a significant increase from fewer than 10% in 2022.

Gartner



Through 2025, 80% of the operational tasks will require skills that less than half the workforce are trained in today.

Gartner

# Red Hat Ansible Lightspeed with IBM watsonx Code Assistant

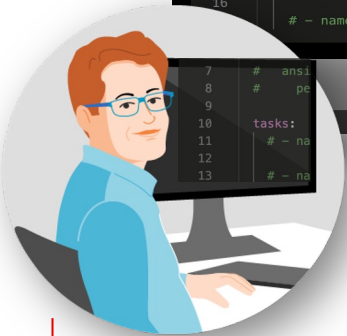
```
local_dev > lightspeed_tp > deploy_monitoring.yml
1 ---
2 - name: Deploy monitoring
3   hosts: monitoring
4   become: true
5
6   # module_defaults:
7   #   ansible.posix.firewalld:
8   #     permanent: true
9
10  tasks:
11    # - name: Include redhat.rhel_system_roles.cockpit
12
13    # - name: Copy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

Ansible VS Code extension

Red Hat Ansible Lightspeed

IBM watsonx Code Assistant

**The AI:** IBM watsonx Code Assistant is infused with the Ansible-specific watsonx.ai foundation model that generates code recommendations.



**The developer interface,** delivered natively in the VS Code via the Ansible extension.

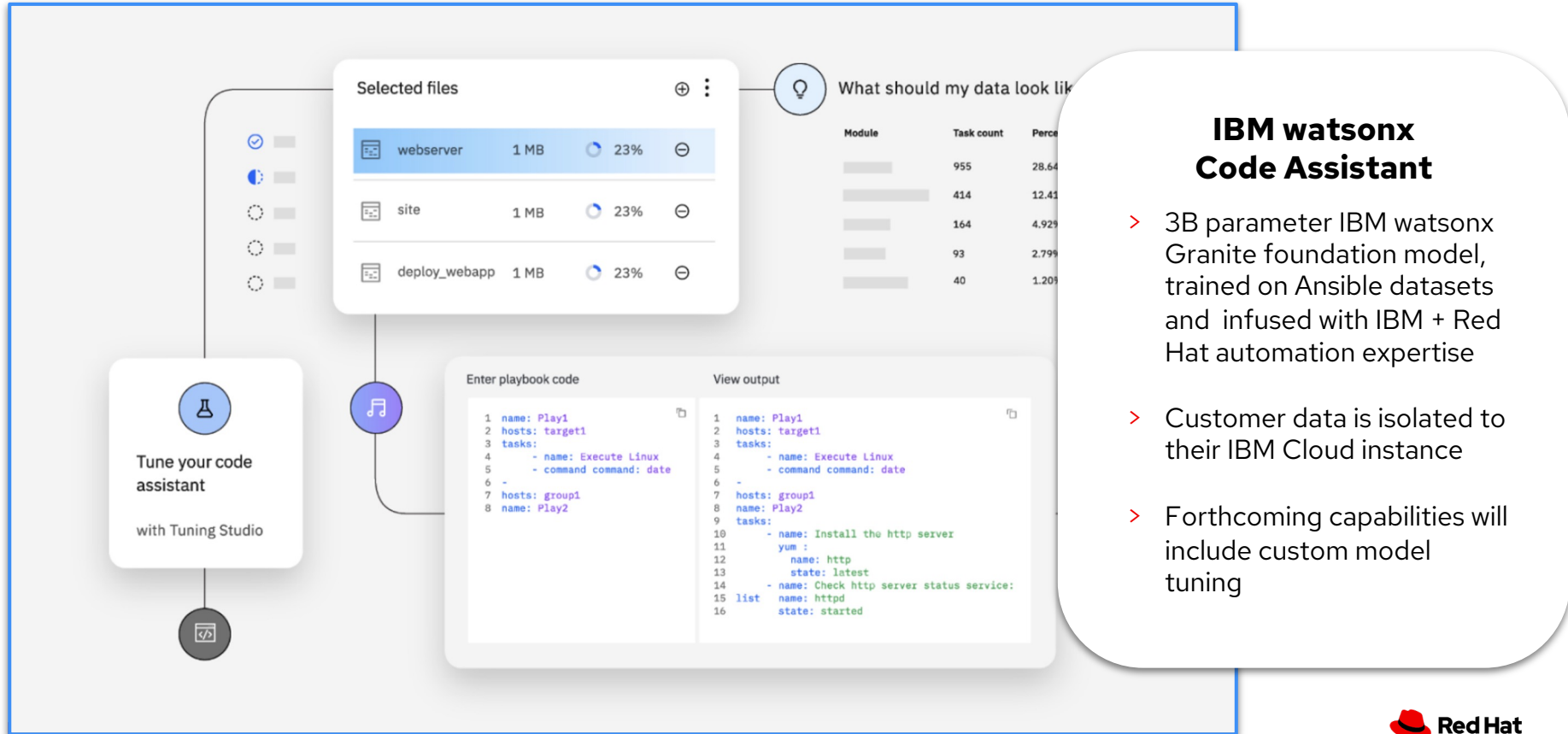
**The integrated service.** Ansible Lightspeed connects the end-user experience that is accessed through the Ansible VS Code extension and the [watsonx.ai](#) service; it is the component that integrates AI services into the Ansible Automation Platform.

```
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
```

## 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.





```
local_dev > lightspeed_tp > deploy_monitoring.yml
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     ansible.builtin.include_role:
13       name: redhat.rhel_system_roles.cockpit
14
15   - name: Copy files/cockpit.conf to /etc/cockpit/
16
17   - name: Restart cockpit service
18     ansible.builtin.service:
19       name: cockpit
20       state: restarted
21
22   - name: Allow cockpit through firewall
23     ansible.posix.firewalld:
24       service: cockpit
25       permanent: true
26       state: enabled
27
```

## Content source matching

- > Red Hat Ansible Lightspeed will always **attempt to clearly reference the potential training sources of content**, for maximum transparency and trust.
- > Each generated code suggestion will provide a **training source, author and license**.

```
≡ 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
```



## Post-processing

- > Ansible Lightspeed's **post-processing** capability augments model suggestions with Ansible best practices, subject matter expertise, and more.
- > This processing and **strong contextual awareness** stems from our unique insight into the Ansible code base, and proven experience helping customers automate at scale.

# Create

# Adopt

# Maintain

The screenshot shows the GitHub interface for the repository 'network.bgp'. The repository is public and forked from 'amuggeadv/network.bgp'. It has 1 branch (main) and 0 tags. The repository is 5 commits ahead and 2 commits behind the upstream main branch. The file list includes:

File Name	Description	Last Commit
.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/trun	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
prettiignore	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
bindrop.txt	update github workflow	last year
ospsell.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
README.md		

## 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 Lightspeed with IBM watsonx Code Assistant

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

Assign users Remove users

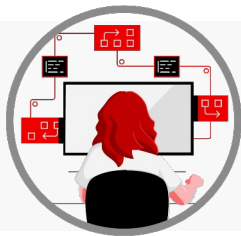
Username	First name	Last name
lightspeed-username1	User 1	User 1
lightspeed-username2	User 2	User 2
lightspeed-username3	User 3	User 3
lightspeed-username4	User 4	User 4
lightspeed-username5	User 5	User 5
lightspeed-username6	User 6	User 6
lightspeed-username7	User 7	User 7
lightspeed-username8	User 8	User 8
lightspeed-username9	User 9	User 9
lightspeed-username10	User 10	User 10

Feedback

## Seat management

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

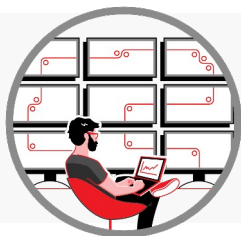
# Ansible Lightspeed will make an impact for **your organization**



**Enhance productivity**, with AI-generated code recommendations that are more accurate, more reliable, and integrated into your automation developers' existing Ansible workflows.



**Expand adoption**, by reducing barriers to entry for automation code creation, and empowering automation SMEs with basic coding knowledge to translate their expertise into functional Ansible content. .



**Extend trust**, with an automation code base that adheres to accepted Ansible best practices, options to customize data models, and significant data safeguards in place.

# 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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[twitter.com/ansible](https://twitter.com/ansible)



[linkedin.com/company/ansible/](https://linkedin.com/company/ansible/)



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

1

### Platform

Mature your automation strategy towards Autonomous Automation for Day 2 with Observability solutions + AIOps

2

### People

Address workforce work-life balance and skill gaps with Common Language, Generative AI and Event-Driven Automation.

3

### Process

Mature your FinOps process with business metrics, chargebacks and automated decisioning.

Source:

Turner, Mary Johnston. "IDC FutureScape: Worldwide Future of Digital Infrastructure 2023 Predictions." IDC, Dec. 2022.