



## ANSIBLE LIGHTSPEED

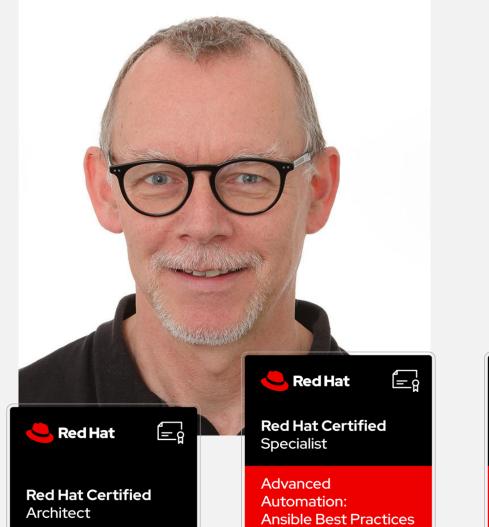
SPEED UP YOUR PLAYBOOK DEVELOPMENT

Alex Bron



### LOOK WHO'S TALKING

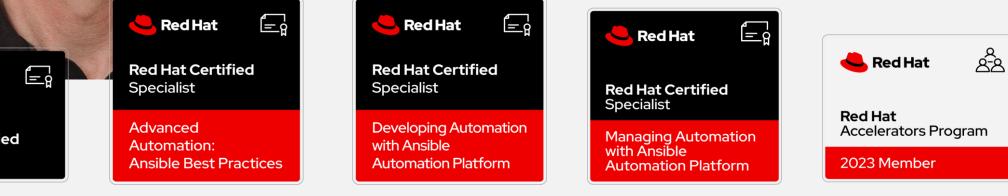




## ALEX BRON

#### **Red Hat Certified Architect**

Technical coach Conclusion Xforce automation team Member of the Red Hat Accelerators program



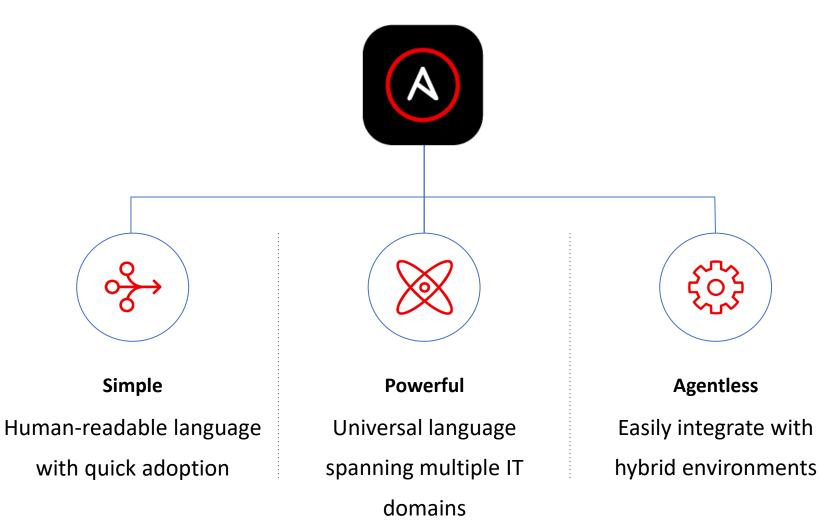
CONCLUSION BUSINESS DONE DIFFERENTLY

# SPEED UP YOUR PLAYBOOK DEVELOPMENT WITH ANSIBLE LIGHTSPEED



Visual Studio Code for Ansible code creation	Ansible Lightspeed	Live demo

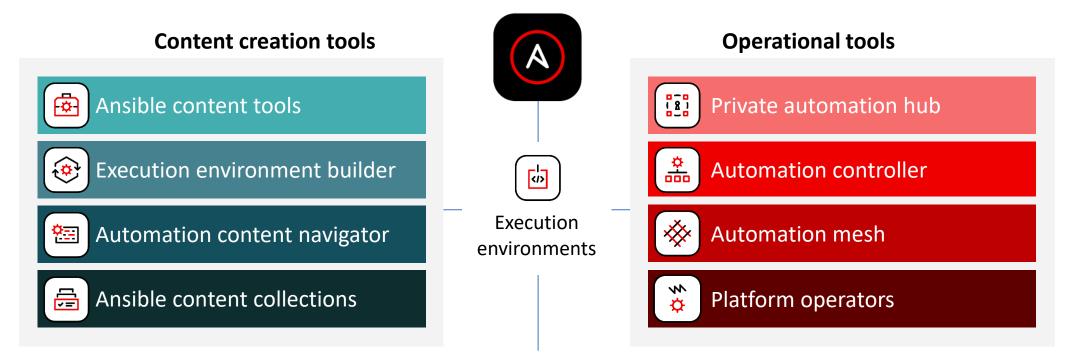
## Ansible is the de facto automation language.





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### An integrated solution for the enterprise.



#### **Business Tools and Analytics**



Automation analytics and Red Hat Insights



## Vi (improved)

- Syntax highlighting (for yaml)
- Auto indentation
- Plugins for in-line encryption (vaulting)

But: who likes vi ...

1 ---2 - import\_playbook: library/check\_region.yml 3 tags: always 4 5 6 - name: Update and reboot the virtual machines 7 hosts: "{{ region | default('test') }}" serial: 1 8 9 tags: 10 never 11 - vm 12 tasks: - name: Full block only on vms 13 14 block: 15 - name: "Perform the dnf update" # noqa package-latest 16 17 become: true 18 ansible.builtin.package: 19 name: "\*" 20 state: latest 21 disablerepo: 22 epel 23 epel-modular 24 25 - name: "Check if a reboot is required" 26 become: true 27 ansible.builtin.command: needs-restarting -r 28 register: bootrequest 29 ignore\_errors: true 30 failed\_when: false 31 changed\_when: false 32 33 - name: "Reboot when package updates are installed" 34 become: true 35 ansible.builtin.reboot: 36 msg: "Rebooting after OS package updates" 37 reboot\_timeout: 3600 38 when: bootrequest.rc == 1 and not ansible\_connection == "local" 39 40 when: ansible\_virtualization\_role == "guest" 41 "update\_all.yml" 76L, 2122C



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Тор

A Share session

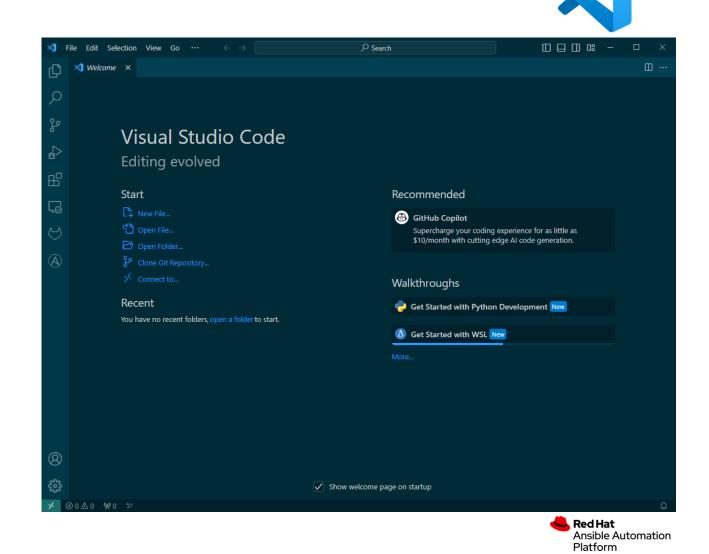
## Visual Studio Code (vscode)

#### **Extensions:**

- Remote Development
  - Ssh
  - WSL
- Ansible

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Gitlab Workflow



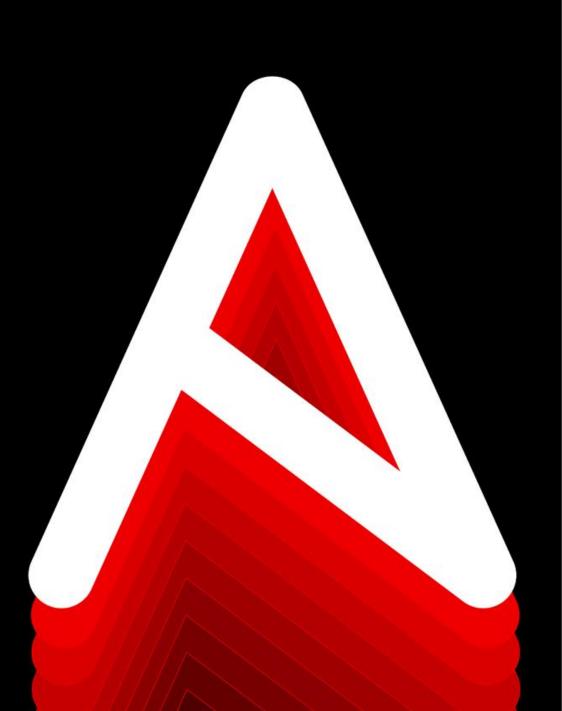


# Technical Preview overview: Ansible Lightspeed

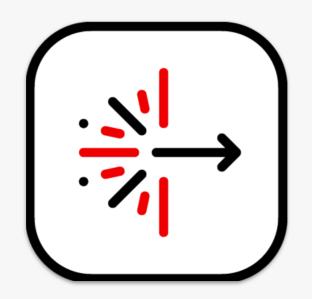
with IBM Watson Code Assistant

**Ansible Business Unit** 

Product Marketing | Technical Marketing | Product Management



#### What is Ansible Lightspeed with IBM Watson Code Assistant?

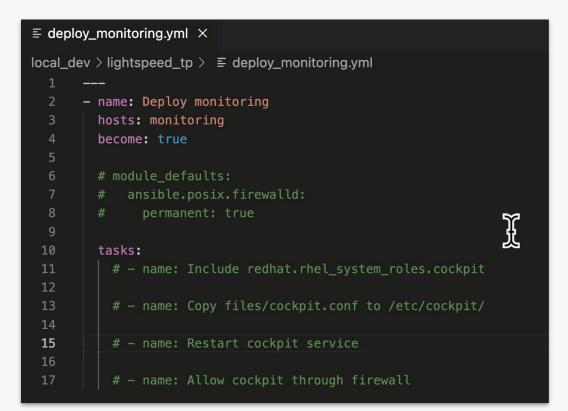


Ansible Lightspeed with IBM Watson Code Assistant is a generative AI solution engineered to help individuals, teams, and organizations automate faster.

By integrating developer tooling, access to Ansible-focused foundation models, and Red Hat + IBM automation expertise, Ansible Lightspeed streamlines and enhances the Ansible content creation experience.



#### Primary capability in Tech Preview: Task Generation



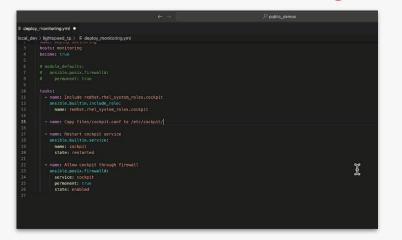
Generate **tasks** for a playbook or role from natural language task description

Ansible Lightspeed **suggests Ansible Tasks** within Ansible Playbook and Ansible Task files

> Red Hat Ansible Automation Platform

#### **Other notable features:**

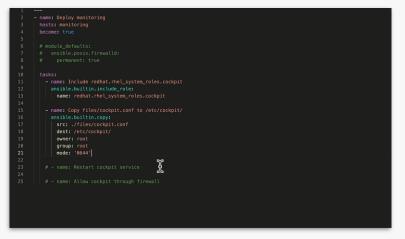
#### **Content source matching**



Ansible Lightspeed addresses generative AI transparency issues with the **content source matching** feature.

Each suggestion will include **potential source**, its author and **license**. Our goal with this is to ensure that users, contributors, and organizations are able to employ a **generative AI solution they trust**.

#### 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 ability to leverage the vast Ansible ecosystem, along with Ansible's flexibility as a tool.



Ansible Lightspeed Tech Preview 101

#### **Key differentiators**



Transparency, collaboration, and choice

- All content being used is covered by approved open source licenses.
- Content source matching and transparency will always be a key priority.
- Contributors will have a choice as to whether or not their work is used to fine-tune the model.



- Purpose-built to accelerate your Ansible adoption.
- Uniquely positioned to offer an enterprise-grade AI solution for Ansible.
- Laser-focussed on delivering highquality, contextual suggestions.



- Natively integrated into Ansible Visual Studio Code extension.
- Augments and enhances developer experience. Non-disruptive.
- Works collectively with Ansible
  Content tools, such as Ansible Lint



#### 3 things to know about the Ansible Lightspeed Tech Preview

1 It is now available for **ALL Ansible users, for free.** It does not require an AAP subscription. All an Ansible user will need is a GitHub ID and the Ansible VSCode extension.

This is a limited service, with a **one primary capability: task generation**. The full featured Ansible Lightspeed with IBM Watson Code Assistant product offering is in development, and will be available later this year.

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2

This is a **self-supported service**. Users should refer to the <u>Ansible Lightspeed technical</u> <u>preview docs on GitHub</u> for assistance.

Red Hat Ansible Automation Platform

#### Tech preview snapshot



Access	VS Code extension
Capabilities	Task generation
Data sets	Ansible-specific "Training" data set comprised of Ansible Galaxy content + other open sources of data, and infused with additional Red Hat and IBM automation subject matter expertise.
Vendor	Red Hat
Pricing	Free
Availability	June 2023
For more info	redhat.com/ansible-lightspeed



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## TIME FOR A DEMO

THANK YOU!

Alex Bron

#### Getting connected via the Ansible VS Code extension

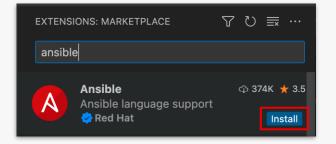
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#### Install the Ansible VS Code extension.

First, install the Ansible VS Code extension by searching for "ansible" in the VS Code Marketplace.

EXTENSIONS: MARKETPLACE 🛛 🍸 ひ 🗮 …		
ansible		
Ansible Ansible language support Red Hat	ආ 374K ★ 3.5 Install	

Click "install" on the Ansible VS Code extension published by Red Hat.



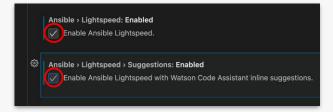


Enable Ansible Lightspeed in the Ansible VS Code extension.

Enable the Ansible Lightspeed service in the extension by clicking the "gear" icon and selecting "Extension Settings."



Enable Ansible Lightspeed in VS Code "Workspace" settings or configure it in the "User" settings based on preference.



Then, enable two checkboxes; "Ansible Lightspeed enabled" and "Enable Ansible LightSpeed with Watson Code Assistant inline suggestions."



Connect and Sign into Lightspeed Service.

Click on the Ansible "A" in the VS Code activity bar on the left hand-side of editor.

Q	Welcome to Ansible Lightspeed for Visual Studio Code.
es.	Experience smarter automation using Ansible Lightspeed with Watson Code Assistant solutions for your playbook. Learn more
æ	Let's simplify your workflow by connecting VS Code with Ansible Lightspeed.
₿	Connect
Γø	
因	

Click "Connect".



In the new pop up window, confirm that you want to sign in to the Ansible Lightspeed service. Click "Allow" and "Open" in the following dialog box.

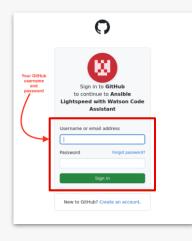
#### Setting up access via GitHub



### Logging into Github and entering credentials.

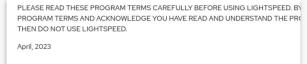
Ansible Lig	ghtspeed with Watson Code Assistant is available as a closed beta.
	Ensure you have accepted your GitHub team invitation for access.
	Login with GitHub

A new window will open in default browser. Click on the "Login with GitHub" button and enter your GitHub credentials.



# 5

Accepting Terms & Conditions and Authorize Lightspeed.



Click to accept both the Red Hat Ansible Lightspeed Closed Beta terms and the IBM Watso



Read the Ansible LightSpeed Technical Preview terms and conditions and click "Agree".



Authorize Ansible Lightspeed for vs code by clicking the "Authorize" button and following the browser prompts to redirect you back to VS Code.



Final Step:

Click "Open" in the VS Code confirmation dialog box.

×
Allow an extension to open this URI?
Ansible (redhat.ansible) wants to open a URI:
vscode://redhat.ansible?code%370Vei
Open
Cancel
Don't ask again for this extension.

Ansible LightSpeed is now configured in VS Code.





#### **Providing feedback**

We encourage all Tech Preview users to provide feedback about their experience.

This will help improve Ansible Lightspeed in multiple ways:

- Ensure that the service is meeting your automation development needs
- Improve the quality and relevance of recommendations from our foundation model
- Inform our engineering approach to the forthcoming commercial version of Ansible Lightspeed with Watson Code Assistant

