



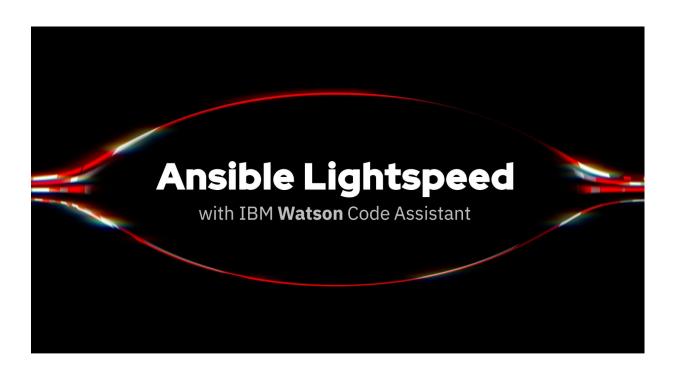
Ansible Lightspeed with Watson Code Assistant Lab

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Ansible



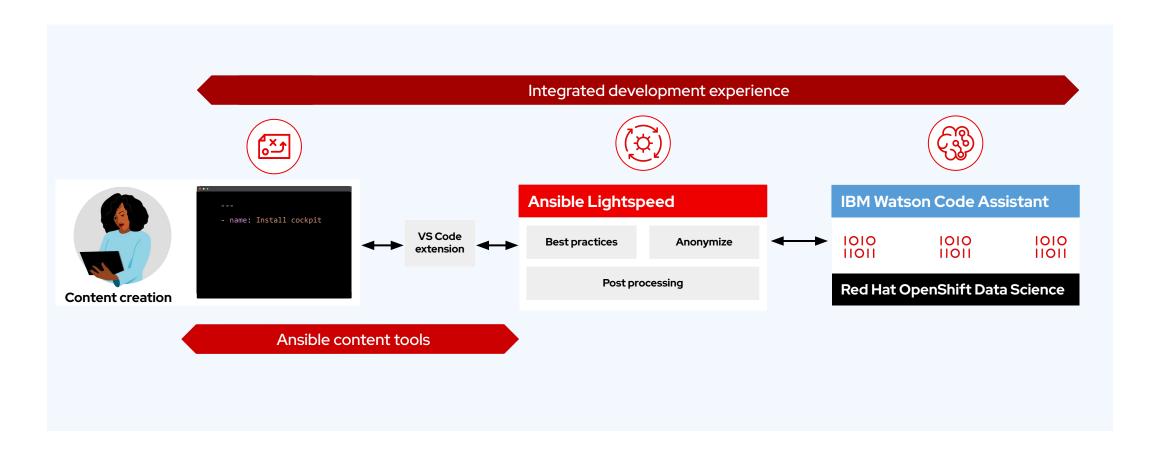


What we'll cover...

- ► What is Ansible Lightspeed?
- Why Ansible Lightspeed?
- Ansible Lightspeed lab overview
- Lab tips and tricks



What is Ansible Lightspeed?





Why Ansible Lightspeed?



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.



A singular focus on automation

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



Meeting developers where they work

- 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



It starts with Ansible Playbooks

Ansible Playbook tasks

- Ansible Lightspeed will eventually impact the Ansible experience in a number of profound ways.
- But at the start, the experience will be focused on the very foundation of it all: Ansible
 Playbooks.

```
- name: Deploy RHEL monitoring
hosts: monitoring
become: true
tasks:
  - name: Install cockpit on RHEL
    when: ansible_distribution == 'RedHat'
    ansible.builtin.package:
      name:
         cockpit
      state: present
```



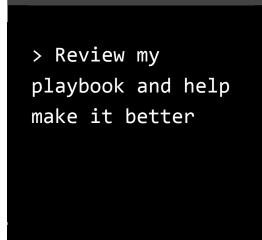
Ansible Lightspeed will transform content creation



Content Generation



Content Discovery



Content Optimization

> Tell me what
this playbook is
doing - and it's
impact

• • •

Content Explanation

Roadmap features





Lab overview



Intro to Ansible Lightspeed lab overview

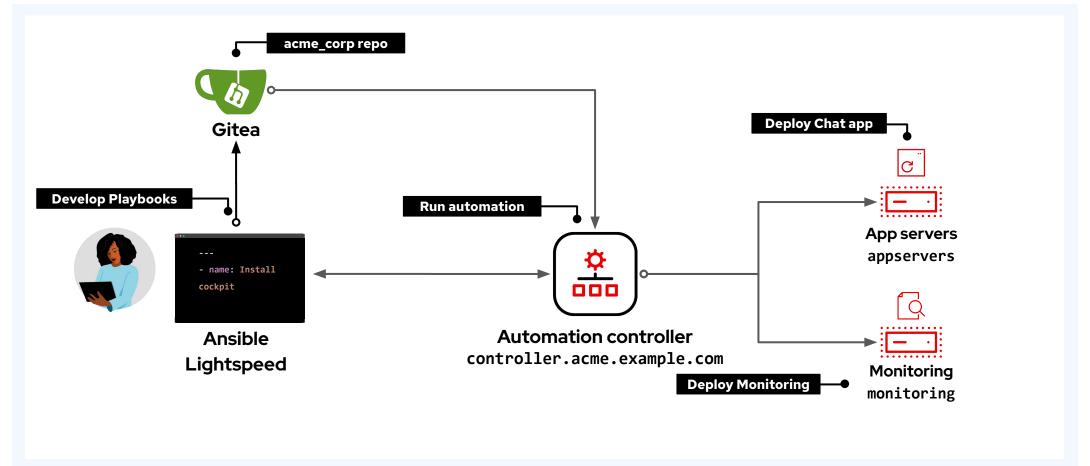
- Have your GitHub ID ready.
- Remember it's still in Beta!
- Lab is **55 minutes** long.
- Configure Ansible Lightspeed in VS Code.
- Generating Ansible Playbook tasks.
- Running Playbooks in automation controller.
- Bonus Mission! Orchestration using Workflows.
- Ansible Lightspeed Closed Beta Playground.





Lab environment

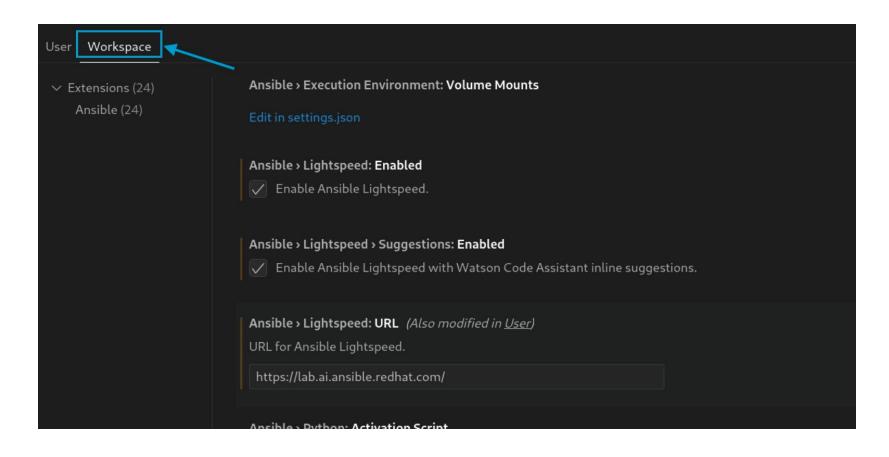
ACME Corp deploy Chat application and monitoring





Enabling Ansible Lightspeed

Configuring Ansible Lightspeed in Visual Studio code





Logging into the Ansible Lightspeed service

Using GitHub ID and authorization

Ansible Lightspeed with Watson Code Assistant is available as a closed beta.

Ensure you have accepted your GitHub team invitation for access.

Login with GitHub

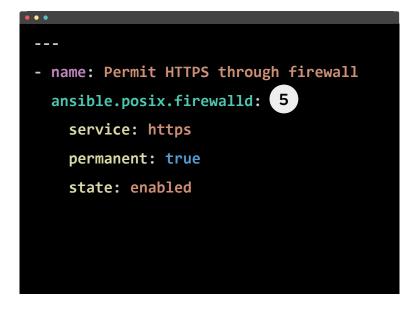


Generating Ansible Lightspeed suggestions

The Ansible Lightspeed experience







Generate Ansible Lightspeed suggestion

- 1. Write prompt in Ansible task description.
- 2. Press ENTER at the end of task description line to request Ansible Lightspeed suggestion.

Accept / Reject Ansible Lightspeed suggestion

- 3. Press TAB to accept suggestion. Playbook task is automatically generated.
- 4. Press ESC to reject suggestion. Rejected suggestion analytics train the model.

Generate next or modify current suggestion

5. Modified suggestion analytics used to train the model.



Ansible Lightspeed context

Using Playbook keywords with Ansible Lightspeed suggestions

```
---
- name: Configure firewall
hosts: appservers
become: true

vars:

firewall:
- permanent: true
port: ['9090/tcp', '8065/tcp']
state: enabled
```

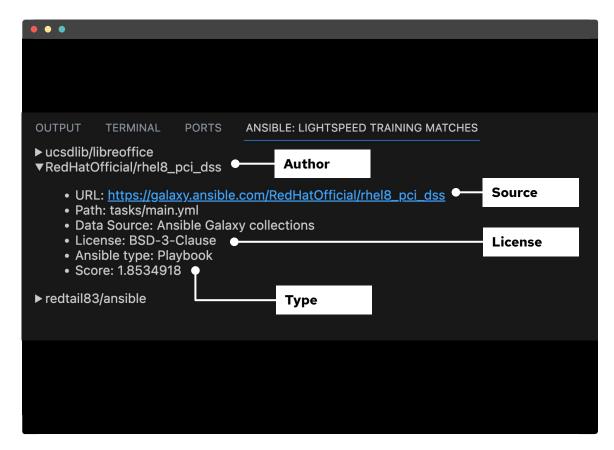


Ansible Lightspeed Content source matching

Transparency, collaboration, and trust

Content source matching

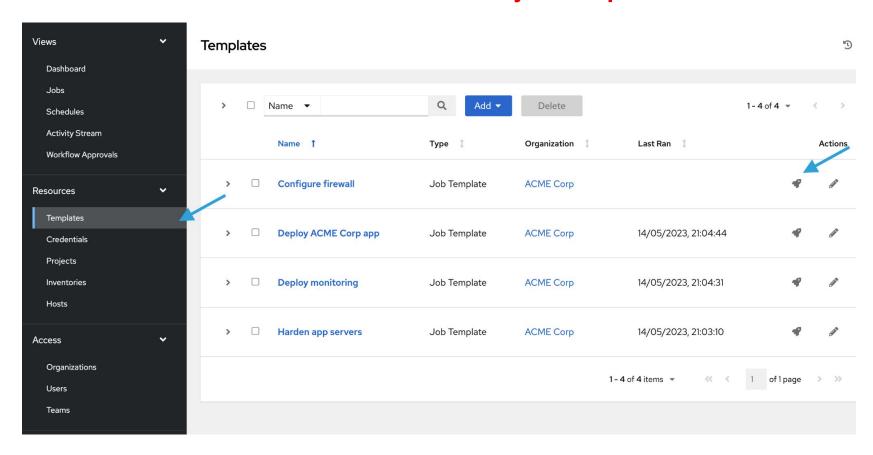
- Displayed with Ansible Lightspeed suggestion.
- Information provided on **potential source, its** author and Open Source license.
- Contributors will have a choice as to whether or not their work is used to fine-tune the model.





Automation controller

Run automation controller job templates





Lab tips and tricks



Lab environment

- "i Need help?" section available.
- Switch Top tabs and back again if you can't type in VS Code to re-focus on VS Code
- Credentials: student and learn_ansible

```
Applications Places Visual Studio Code
                                                                             deploy_app.yml - acme_corp - Visual Studio Code
                                              ≡ deploy_app.yml ×
                 The tab might lose focus.
                 Shift the focus back by
                 opening any other tab and

    ≡ configure_firewall.yml

    deploy monitoring.yml

                                                             MM_TEAMSETTINGS_SITENAME: ACME Corp Chat
      ansible.cfg

    deploy_app.yml

                                                           generate_systemd:Text

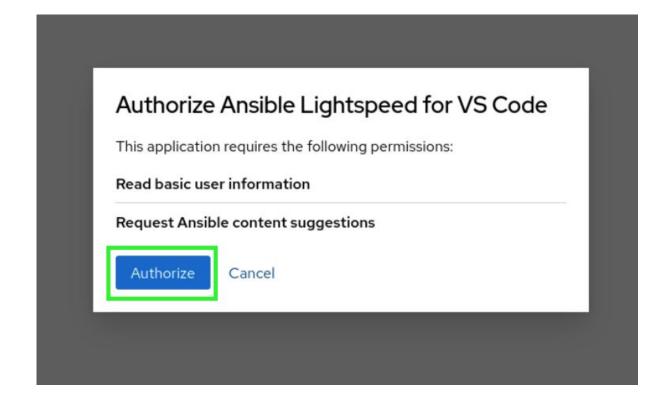
    deploy_monitoring.yml

       restart_policy: always
                                                           name: Run container with podman using mattermost_app var
                  Cannot type in Visual
                  Studio Code.
                                                              name: "{{ mattermost_app.name }}'
                                                              image: "{{ mattermost_app.image }}'
                                                              state: "{{ mattermost_app.state }}'
                                                              ports: "{{ mattermost_app.ports }}'
                                                              env: "{{ mattermost_app.env }}"
                                                              generate_systemd: "{{ mattermost_app.generate_systemd }}'
```



GitHub

- ► Environments are **automatically deleted** after the time limit. **No credentials are saved**.
- ► **GitHub authorization** process might differ slightly.
- If login times out. Click on Connect and Authorize again.
- ▶ **No lab data** is pushed to your GitHub account.





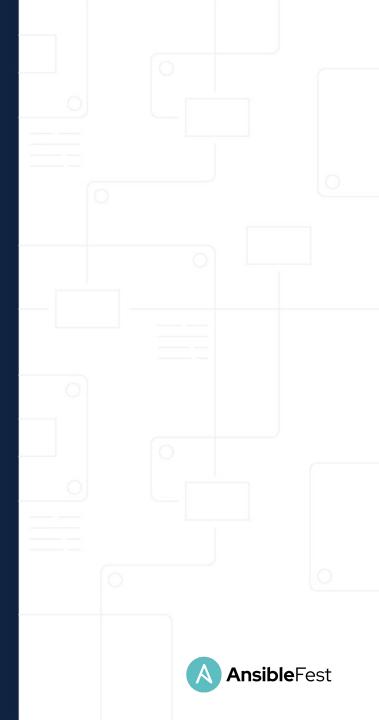
Lab Playbook development

- Instructions are also in Playbooks.
- ► Use **CTRL+/** to uncomment lines.
- Playbook syntax is important.
- ▶ It takes a few seconds to get a suggestion.
- Solution Playbooks available in solution_playbooks folder in VS Code.
- Will need to reload VS Code for content source matching.

```
# TASK 2
# # 2a. Uncomment task description below and generate an Ans
# # 2b. Uncomment module_defaults: section above. Save and r
# the "mode:" argument.
# # 2c. Remove current Ansible Lightspeed task suggestion be
# # 2d. Note the ansible-lint warning for the task.
# # 2e. Add "# noqa risky-file-permissions" without quotation
```



Have fun and we're here to help!





Thank you

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