Working with Ansible Development Tools and AI Technical Workshop

[Workshop content and exercises](#)	[Follow-up assets](#)	[Post-event survey](#)
[Certain registration page & promotional email copy](#)	[Presenter instructions and guide](#)	[Certain event banners](#)

Who is this workshop best for?

Description

This workshop is for the Ansible automation engineer or application developer. While their experience, skills, and job roles differ, both of these personas create automation. This includes writing Ansible Playbooks, Ansible Roles, and Ansible Content Collections and learning how to distribute these throughout the organization. This workshop will provide an opinionated experience for both of these roles.

The Ansible developer experience includes numerous capabilities to aid in the creation of Ansible automation content. This includes an Ansible plugin for Microsoft Visual Studio Code as well as generative AI (artificial intelligence) integrations such as Red Hat Ansible Lightspeed with watsonx Code Assistant.

After finishing this lab you are ready to start taking advantage of the numerous Ansible content tools included in your Red Hat Ansible Automation Platform subscription.

IMPORTANT TO NOTE: This workshop is focused on the automation development capabilities of Ansible and is highly focused on using an IDE (Integrated Development Environment), Visual Studio Code, as well as other various CLI tools that run on Red Hat Enterprise Linux. It is highly encouraged to attend the Ansible Red Hat Enterprise Linux Workshop before attending this workshop.

Target audience

- Anyone who is currently writing Ansible automation content such as Ansible Playbooks. This includes the Ansible for Red Hat Enterprise Linux personas including DevOps engineers, operations engineers, systems engineers, release engineers, system administrators, developers, operations staff, network engineers, security professionals, and anyone interested in IT automation.

Attendee Prerequisites

1. Student has one (1) of the following
   a. Student has completed the [Ansible Red Hat Enterprise Linux Workshop](#)
   b. Student has completed the [Write your first playbook interactive lab](#)
   c. Student has completed the Red Hat training course [Ansible Basics: Automation Technical Overview](#)
2. A basic understanding of working with Linux systems
3. A basic understanding of [Visual Studio Code](#). [Available for MacOS, Windows and Linux]
4. Attendees must bring/use a laptop with ADMIN rights and the ability to SSH to a lab environment hosted in a public cloud.
5. Must bring/use a laptop with Chrome 73+, Firefox 60+, Edge 40+, or Safari 12+installed.

There is no student prep work required prior to the workshop.

Sample agenda and module pairings

Each workshop module and lab is designed to stand on its own, but may also be combined to suit your event and time constraints. A sample 90 agenda and suggested pairings for shorter events can be found below. There is an external webpage that can be used as your official lab page

Agenda

- **Slides: Introduction + Workshop Brief**
  [Estimated Time ⏰ 15 minutes]
  [[Slides](#)]

- **Get started with ansible-builder**
  [Estimated Time ⏰ 30 minutes]
  Install ansible-builder v3 and learn how to create custom execution environments.
  - [Start Exercise](#)

- **Slides: Introduction to Red Hat Lightspeed and lab brief**
  [Estimated Time ⏰ 15 minutes]
  [Slides]

- **Get started with Ansible Lightspeed with IBM watsonx Code Assistant**
  [Estimated Time ⏰ 30 minutes]
  Learn how to configure, activate, and use Ansible Lightspeed to generate Ansible content.
  - Start Exercise

Supplemental Labs

- **Sign and verify projects with Red Hat Ansible Automation Platform**
  [Estimated Time ⏰ 45 minutes]
  Sign source repositories that include Ansible Playbooks and content, and validate signed content in the automation controller.
  - Start Exercise

- **Sign Ansible Content Collections with private automation hub**
  [Estimated Time ⏰ 45 minutes]
  Learn how to sign Ansible Content Collections using a private automation hub and install collections with ansible-galaxy CLI.
  - Start Exercise

- **Manage user access and content policies using private automation hub**
  [Estimated Time ⏰ 45 minutes]
  Create groups so your automation hub users have appropriate system permissions or grant view-only access to unauthorized users.
  - Start Exercise

Lab provisioner

- There is no RHPDS lab provisioner associated with this workshop. This simply uses the Instruqt platform to load the labs inside your browser. If you have a large number of users and want to increase the amount of hot-standbys please use the lab hotstarter: https://red.ht/lab-hotstarter

Demos

- Any of the individual labs (that make up the workshop) can be used as a standalone demo.

Red Hat Training

- Red Hat Ansible Automation Platform - Training + Certification slides

Documentation

- https://github.com/ansible/instruqt
- https://red.ht/lab-hotstarter