Red Hat Training and Certification

AU374
Developing Advanced Automation with Red Hat Ansible Automation Platform

Advance your Ansible skills and develop automation that scales by applying recommended practices with the new, container focused tools from Red Hat Ansible Automation Platform

Developing Advanced Automation with Red Hat Ansible Automation Platform (DO374) is designed for automation content developers to leverage the new, container focused tools from Red Hat® Ansible Automation Platform to efficiently develop automation that can be managed by the automation controller. Learn recommended practices for automation development using reusable code, advanced playbook techniques, shared execution environments, and preparing for scalable automation with the automation content navigator.

This course is based on Red Hat Ansible Automation Platform 2.2.

Course content summary

- Leverage capabilities of the automation content navigator to develop Ansible Playbooks.
- Apply recommended practices for effective and efficient automation with Ansible.
- Use advanced features of Red Hat Ansible Automation Platform to work with data, including filters and plugins.
- Perform automation operations as rolling updates.
- Create automation execution environments to bundle and distribute the dependencies needed to run automation code.

Audience for this course

This course is designed for users who create automation content, including these roles:

- Developers
- DevOps engineers
- Linux system administrators
- Other IT professionals with basic expertise using Red Hat Ansible Automation Platform to automate, provision, configure, and deploy applications and services in a Linux environment

Recommended training

- Red Hat Enterprise Linux Automation with Ansible (RH294)
- Be a Red Hat Certified Engineer (RHCE®) on Red Hat Enterprise Linux 8 or later, or demonstrate equivalent Ansible experience

Outline for this course

- **Develop Playbooks with Ansible Automation Platform 2**
  Develop Ansible Playbooks with Red Hat Ansible Automation Platform 2 following recommended practices.

- **Manage Content Collections and Execution Environments**
  Run playbooks that use content collections not included in ansible-core, either from an existing execution environment or by downloading them from the automation hub.

- **Run Playbooks with Automation Controller**
  Explain what automation controller is and use it to run playbooks that you developed with automation content navigator.

- **Work with Ansible Configuration Settings**
  Examine and adjust the configuration of Ansible and automation content navigator to simplify development and to troubleshoot issues.

- **Manage Inventories**
  Manage inventories by using advanced features of Ansible.

- **Manage Task Execution**
  Control and optimize the execution of tasks by Ansible Playbooks.

- **Transform Data with Filters and Plugins**
  Populate, manipulate, and manage data in variables using filters and plugins.

- **Coordinate Rolling Updates**
  Use advanced features of Ansible to manage rolling updates in order to minimize downtime and to ensure maintainability and simplicity of Ansible Playbooks.

- **Create Content Collections and Execution Environments**
  Write your own Ansible Content Collections, publish them, embed them in a custom execution environment, and run them in playbooks by using automation controller.

Use the Red Hat Ansible Automation Platform to develop automation in a way that scales to large teams and complex enterprises. In this course you will gain the skills to effectively manage and optimize playbooks, create and share execution environments and collections, as well as learn how to use the automation content navigator for managing the automation lifecycle.

Course reference: https://www.redhat.com/en/services/training/au374-developing-advanced-automation-red-hat-ansible-automation-platform?section=outcomes