Red Hat Training and Certification

AU467
Managing Enterprise Automation with Red Hat Ansible Automation Platform

Manage complex Red Hat Ansible automation workflows at scale and prevent single points of failure.

Managing Enterprise Automation with Red Hat Ansible Automation Platform (AU467) is for experienced DevOps engineers or Linux system administrators who want to centralize and control their automation execution at scale and privately share Ansible content across their organizations.

This course is based on Red Hat Ansible Automation Platform 2.5.

Course content summary

- Discussion of the architecture of Red Hat Ansible Automation Platform 2.
- Installation and configuration of automation controllers and private automation hubs to centrally coordinate and scale Red Hat Ansible Automation Platform.
- Integration of Red Hat Ansible Automation Platform with centralized Git repository.
- Management of users, teams, and access permissions in Red Hat Ansible Automation Platform services.
- Creation and management of workflows that execute automation based on the success or failure of previous jobs.
- Configuration and management of automation mesh to distribute execution between automation controller and remote execution nodes.
- Troubleshooting and maintenance of Red Hat Ansible Automation Platform services.
- Discussion of recommended practices to ensure high availability and scalability of a large automation cluster.

Audience for this course

This course is designed for users who need to provide, manage, and maintain Ansible automation infrastructure for their organizations, including these roles:

- Ansible automation engineers and architects
- Linux system administrators supporting automation operations
- DevOps engineers

Prerequisites for this course

- Be a Red Hat Certified Engineer (RHCE®) on Red Hat Enterprise Linux 8, or demonstrate equivalent Ansible experience
- Complete Developing Advanced Automation with Red Hat Ansible Automation Platform (AU374).
- Complete EX374 to achieve Red Hat Certified Specialist in Developing Automation with Ansible Automation Platform on Red Hat Ansible Automation Platform 2.

Outline for this course

- **Installing Red Hat Ansible Automation Platform**
  Explain what Red Hat Ansible Automation Platform is and explore installation strategies.

- **Managing user access**
  Create user accounts, organize users into teams, and assign roles to administer and access Ansible Automation Platform resources.

- **Managing inventories and machine credentials**
  Create inventories of machines to manage, and configure credentials necessary for automation controller's execution nodes to log in and run Ansible jobs on those systems.

- **Managing projects and launch Ansible jobs**
  Create projects and job templates in the Ansible Automation Platform unified UI, and use them to launch Ansible Playbooks that are stored in Git repositories, in order to automate tasks on managed hosts.

- **Configuring advanced job configuration**
  Configure advanced job template features to more effectively and efficiently implement jobs.

- **Constructing job workflows**
  Assemble existing job templates into a sequential, branching workflow that can launch multiple jobs, run jobs to recover from a preceding failure in the workflow, and request user approval before the workflow can be advanced past a certain point.

- **Managing advanced inventories**
  Manage inventories that are dynamically generated from external data sources by using plug-ins, or are constructed from a filtered set of hosts in existing inventories.

- **Automating configuration of Ansible Automation Platform**
  Automate the configuration and deployment of Red Hat Ansible Automation Platform services by using Ansible Content Collections, the automation controller API, and Git webhooks.

- **Maintaining Red Hat Ansible Automation Platform**
  Perform routine maintenance and administration of Red Hat Ansible Automation Platform.

- **Building a large scale Red Hat Ansible Automation Platform deployment**
  Scale up your Red Hat Ansible Automation Platform deployment by using automation mesh and dispersed execution nodes.

Course reference: https://www.redhat.com/en/services/training/au467-managing-enterprise-automation-red-hat-ansible-automation-platform

- **Comprehensive review**
  Demonstrate skills learned in this course by configuring private automation hub and by configuring and operating a new organization in automation controller using a provided specification, Ansible projects, and hosts to be provisioned and managed.

As a result of taking this course, you will learn how to install and manage automation controller, private automation hub, and automation mesh components of Red Hat Ansible Automation Platform 2 in order to deploy and operate Ansible automation services for your organization that you can extend to a larger scale.

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