RED HAT ANSIBLE AUTOMATION PLATFORM BOOT CAMP (AU710)

Course Code: 832002

AU710 - Learn how to automate Linux system administration tasks with Red Hat Ansible Automation Platform and manage complex automation workflows at scale and prevent single points of failure.

The Ansible Automation Platform Boot Camp (DO710) 10 days-bootcamp is designed for Linux administrators and developers who need to automate repeatable and error-prone steps for system provisioning, configuration, application deployment, and orchestration.

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.

Deploy automation controller to centrally manage automation workflows, automation mesh to scale up and distribute execution capacity, and private automation hub to manage Ansible Content Collections and automation execution environments for use by automation developers.

This collection of courses is based on Red Hat Ansible Automation Platform 2.5.

As part of enrollment, you will receive one year of Red Hat Learning Subscription Standard, which gives you unlimited access to all of our courses online in self-paced mode, plus up to five certification exams.

Note : *Starting January 1, 2026, this course is only available in closed course modalities.*

What You'll Learn

After completing this course, learners should be able to:

- Install Red Hat Ansible Automation Platform on control nodes.
- Create and update inventories of managed hosts and managing connections to them.
- Automate administration tasks with Ansible Playbooks.
- Write effective playbooks at scale.
- Protect sensitive data used by Ansible Automation Platform with Ansible Vault.
- Reuse code and simplify playbook development with Ansible Roles and Ansible Content Collections.
- Apply recommended practices for effective and efficient automation with Ansible.

- Perform automation operations as rolling updates.
- Use advanced features of Red Hat Ansible Automation Platform to work with data, including filters and plugins.
- Create automation execution environments to contain and scale Red Hat Ansible Automation.
- Leverage capabilities of the automation content navigator to develop Ansible Playbooks.
- Discuss of the architecture of Red Hat Ansible Automation Platform 2.
- Install and configure of automation controllers and private automation hubs to centrally coordinate and scale Red Hat Ansible Automation.
- Integrate Red Hat Ansible Automation Platform with centralized Git repository services such as GitLab.
- Manage users, teams, and access permissions in Red Hat Ansible Automation Platform services.
- Create and manage workflows that execute automation based on the success or failure of previous jobs
- Troubleshoot and maintain Red Hat Ansible Automation Platform services.
- Discuss of recommended practices to ensure high availability and scalability of a large automation cluster.

Who Needs to Attend

This course is geared toward Linux system administrators, DevOps engineers, Site Reliability Engineers, infrastructure automation engineers, and developers who are responsible for repeatable tasks such as:

- Automating configuration management
- Ensuring consistent and repeatable application deployment
- Provisioning and deployment of development, testing, and production servers
- Integrating with DevOps continuous integration/continuous delivery workflows

Prerequisites

- Be a Red Hat Certified System Administrator (RHCSA), or demonstrate equivalent experience
- Confirmation of the correct skill set knowledge can be obtained by passing the online skills assessment at Red Hat Skills Assessment

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CLASSROOM LIVE	$10,000 USD	10 Day

Classroom Live Outline

Module 1 : Introducing Red Hat Ansible Automation Platform

- Describe the fundamental concepts of Red Hat Ansible Automation Platform and how it is used, and install Red Hat Ansible Automation Platform.

Module 2 : Implementing an Ansible playbook

- Create an inventory of managed hosts, write a simple Ansible playbook, and run the playbook to automate tasks on those hosts.

Module 3 : Managing variables and facts

- Write playbooks that use variables to simplify management of the playbook and facts to reference information about managed hosts.

Module 4 : Implementing task control

- Manage task control, handlers, and task errors in Ansible playbooks.

Module 5 : Deploying files to managed hosts

- Deploy, manage, and adjust files on hosts managed by Ansible Automation Platform.

Module 6 : Managing complex plays and playbooks

- Write playbooks for larger, more complex plays and playbooks.

Module 7 : Simplifying playbooks with roles

- Use Ansible Automation Platform roles to develop playbooks more quickly and to reuse Ansible Automation Platform code.

Module 8: Troubleshooting Red Hat Ansible Automation Platform

- Troubleshoot playbooks and managed hosts.

Module 9: Automating Linux administration tasks

- Automate common Linux system administration tasks with Ansible Automation Platform.

Module 10: Develop Playbooks with Ansible Automation Platform 2

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

Module 11: Manage Content Collections and Execution Environments

- Run playbooks that use Ansible Content Collections not included in Ansible Core, either from an existing execution environment or by downloading them from automation hub.

Module 12: Run Playbooks with Automation Controller

- Explain what automation controller is and use it to run playbooks that you developed with automation content navigator.

Module 13: Work with Ansible Configuration Settings

- Examine and adjust the configuration of Ansible and automation content navigator to simplify development and to troubleshoot issues.

Module 14: Manage Inventories

- Manage inventories by using advanced features of Ansible.

Module 15:Manage Task Execution

- Control and optimize the execution of tasks by Ansible Playbooks.

Module 16:Transform Data with Filters and Plugins

- Populate, manipulate, and manage data in variables using filters and plug-ins.

Module 17: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.

Module 18: Create Content Collections and Execution Environments

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

Module 19: Installing Red Hat Ansible Automation Platform

- Explain what Red Hat Ansible Automation Platform is and perform a basic installation of automation controller and automation hub.

Module 20: Managing User Access

- Create user accounts and organize them into teams/groups in automation controller and automation hub, and assign them permissions to administer and access resources in each service.

Module 21: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.

Module 22: Managing Projects and Launching Ansible Jobs

- Create projects and job templates in the web UI, using them to launch Ansible

Playbooks that are stored in Git repositories, in order to automate tasks on managed hosts.

Module 23: Advanced Job Configuration

- Configure advanced features of automation controller in order to more effectively and efficiently implement jobs.

Module 24: Constructing Job Workflows

- Use advanced features of job templates to improve performance, simplify the customization of jobs, launch multiple jobs, schedule automatically recurring jobs, and provide notification of job results.

Module 25: Managing Advanced Inventories

- Manage inventories that are generated dynamically from scripts or the automation controller smart inventory feature.

Module 26: 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.

Module 27: Maintaining Red Hat Ansible Automation Platform

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

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PRIVATE GROUP TRAINING	10 Day

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