Red Hat Ansible Automation Platform Boot Camp (AU710) Training

Duration: **10 Day**

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Overview

Master the automation of **Linux system administration** and build large-scale, resilient automation infrastructure with the **Red Hat Ansible Automation Platform Boot Camp (DO710)**.

This intensive course is designed for **Linux administrators, DevOps engineers, and SREs** who want to eliminate repetitive manual tasks by automating system provisioning, configuration, deployment, and orchestration.

Participants will gain practical experience in designing **reusable automation code**, managing **complex playbooks**, and deploying **scalable workflows** using Ansible's container-based architecture. You'll also learn how to install and configure **automation controllers**, **private automation hubs**, and **automation mesh** for distributed execution and fault-tolerant automation.

> *This program is based on Red Hat Ansible Automation Platform 2.5.*
> Includes **1 year of Red Hat Learning Subscription Standard** with full access to all Red Hat courses and up to five certification exams.

Prerequisites

Red Hat Certified System Administrator (RHCSA) certification or equivalent hands-on Linux experience.

Who Should Attend

This boot camp is ideal for:

- **Linux administrators**
- **DevOps engineers**
- **Site Reliability Engineers (SREs)**
- **Infrastructure automation specialists**
- **Developers** involved in provisioning, configuration, and deployment automation

What You Will Learn

- Install **Red Hat Ansible Automation Platform** on control nodes.
- Create and manage **inventories of managed hosts**.

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- Automate system administration with **Ansible Playbooks**.
- Write scalable, reusable playbooks using **roles** and **collections**.
- Secure sensitive data with **Ansible Vault**.
- Apply **recommended best practices** for automation design.
- Execute **rolling updates** to reduce downtime.
- Develop automation in isolated **execution environments**.
- Use **filters** and **plugins** to manipulate data dynamically.
- Manage **automation controllers** and **private automation hubs** for central orchestration.
- Integrate Ansible with **GitLab** and version control systems.
- Manage **users, teams, credentials**, and **permissions** across automation services.
- Build **workflow templates** to trigger jobs conditionally.
- Troubleshoot and maintain the Ansible Automation Platform cluster.
- Ensure **high availability** and **horizontal scalability** for large enterprise automation clusters.

Impact on the Organization

Organizations adopting **Ansible Automation Platform** can:

- **Eliminate manual tasks**, reducing operational errors.
- **Scale IT operations dynamically** across hybrid environments.
- **Accelerate application delivery** and DevOps pipelines.
- **Distribute automation workloads** across teams securely.
- **Achieve higher efficiency** with reusable, containerized automation.

By implementing a centralized, scalable automation framework, companies can achieve faster innovation cycles and lower operational costs.

Impact on the Individual

After completing this boot camp, you will be able to:

- Automate real-world **Linux administration** and **DevOps workflows**.
- Develop efficient and reusable **Ansible Playbooks**.
- Build and manage **automation execution environments**.

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- Secure playbooks with **Ansible Vault**.
- Design scalable, modular automation architectures.
- Deploy and manage **Automation Controllers**, **Hubs**, and **Meshes**.
- Integrate automation with Git repositories for CI/CD workflows.

You'll emerge with the skills needed to architect, deploy, and maintain enterprise-grade automation at scale using **Red Hat Ansible Automation Platform 2.5**.

Outline

1. Introduction to Red Hat Ansible Automation Platform

Understand key components and install the platform on control nodes.

2. Implementing Ansible Playbooks

Create an inventory of hosts and automate administrative tasks using playbooks.

3. Managing Variables and Facts

Use variables and facts to create dynamic, reusable playbooks.

4. Task Control and Handlers

Manage dependencies, errors, and notifications across tasks.

5. File Deployment and Management

Deploy, configure, and update files on managed hosts.

6. Scaling Complex Playbooks

Build modular, maintainable playbooks for large-scale environments.

7. Using Roles for Simplification

Leverage roles and Ansible Collections for modular development.

8. Troubleshooting Playbooks and Hosts

Identify and fix issues in automation code or infrastructure.

9. Automating Linux System Administration

Automate common Linux management tasks like user management, services, and updates.

10. Advanced Development with Ansible Automation Platform 2

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Follow best practices for designing scalable automation.

11. Managing Collections and Execution Environments

Deploy automation in portable and containerized execution environments.

12. Using the Automation Controller

Manage, schedule, and monitor playbooks through the **web UI and APIs**.

13. Managing Inventories and Credentials

Control access and manage smart inventories dynamically.

14. Configuring Advanced Jobs and Workflows

Automate multi-step operations with **workflow templates** and conditional logic.

15. Maintaining Ansible Automation Platform

Perform regular updates, troubleshooting, and system maintenance for stability.