

Managing Enterprise Automation with Red Hat Ansible Automation Platform

Durée: 90 Jours **Réf de cours: DO467** **Méthodes d'apprentissage: E-learning**

Résumé:

Manage complex Red Hat Ansible automation workflows at scale and prevent single points of failure. Managing Enterprise Automation with Red Hat Ansible Automation Platform (DO467) is for experienced Ansible automation engineers, DevOps practitioners, and Linux system administrators seeking to deploy, control, and support centralized automation execution on a large scale. Students will use Red Hat Ansible Automation Platform 2 to scale up Ansible automation. They will 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. Large scale automation cluster design and approaches to ensure high availability of Ansible Automation Platform will also be discussed. This course is based on Red Hat Ansible Automation Platform 2.2.

e-Learning

Interactive self-paced content that provides flexibility in terms of pace, place and time to suit individuals and organisations. These resources also consist of online books, educational podcasts and vodcasts, and video-based learning.

Public visé:

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

Objectifs pédagogiques:

- 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.
- Integration of Red Hat Ansible Automation Platform with centralized Git repository services such as GitLab.
- 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.

Pré-requis:

- Be a Red Hat Certified Engineer (RHCE) on Red Hat Enterprise Linux 8, or demonstrate equivalent Ansible experience
- Complete EX374 to achieve Red Hat Certified Specialist in Developing Automation with Ansible Automation Platform on Red Hat Ansible Automation Platform 2.
- DO374 - Developing Advanced Automation with Red Hat Ansible Automation Platform

Après cette formation, nous vous conseillons le(s) module(s) suivant(s):

- Red Hat Services Management and Automation (RH358)
- Microsoft Windows Automation with Red Hat Ansible (DO417)
- Ansible for Network Automation (DO457)

Contenu:

Install Red Hat Ansible Automation Platform	Configure advanced job configuration	Maintain Red Hat Ansible Automation Platform
Explain what Red Hat Ansible Automation Platform is and perform a basic installation of automation controller and automation hub.	Configure advanced features of automation controller in order to more effectively and efficiently implement jobs.	Perform routine maintenance and administration of Red Hat Ansible Automation Platform.
Manage user access	Construct job workflows	Get insights into automation performance
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.	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.	Get information from Red Hat Insights for Red Hat Ansible Automation Platform to evaluate the performance of your Ansible automation and identify possible ways to improve it.
Manage inventories and machine credentials	Manage advanced inventories	Build a large scale Red Hat Ansible Automation Platform deployment
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.	Manage inventories that are generated dynamically from scripts or the automation controller smart inventory feature.	Use high availability techniques and automation mesh to scale up your Red Hat Ansible Automation Platform deployment.
Manage projects and launch Ansible jobs	Automate configuration of Ansible Automation Platform	Comprehensive review
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.	Automate the configuration and deployment of Red Hat Ansible Automation Platform services by using Ansible Content Collections, the automation controller API, and Git webhooks.	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.

Méthodes pédagogiques :

Impact on the organization

Deploy efficient and reliable management of your Ansible automation infrastructure to streamline IT automation of systems in your enterprise, increasing your cost savings and operational efficiency.

Impact of this training

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.
