



*Training Course:
Certified Specialist in Advanced Automation*

*27 June - 1 July 2027
Cairo (Egypt)*

Training Course: Certified Specialist in Advanced Automation

Training Course code: IT234833 From: 27 June - 1 July 2027 Venue: Cairo (Egypt) - Training Course Fees: 4100 € Euro

Introduction

The Red Hat Certified Engineer Specialist in Advanced Automation: Ansible Best Practices is a performance-based test of your knowledge and skill in managing multiple systems using Red Hat Ansible Engine and Red Hat Ansible Tower.

By passing this exam, you become a Red Hat Certified Specialist in Advanced Automation: Ansible Best Practices, which also counts toward becoming a Red Hat Certified Architect RHCA.

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Objectives

After completing this course, participants will be able to:

- Use Git effectively for managing Ansible automation code and repositories
- Manage inventory variables and structure host/group variable files efficiently
- Control and optimize task execution in Ansible playbooks
- Apply filters, plugins, and lookups to transform and manipulate data
- Implement advanced delegation techniques for distributed task execution
- Install, configure, and manage Red Hat Ansible Tower
- Manage users, teams, inventories, and credentials in Ansible Tower
- Create and manage projects, job templates, and workflows
- Use Ansible Tower API for automation and job execution
- Perform backup and maintenance of Ansible Tower environments
- Apply best practices for scalable automation using Ansible Engine

Target Audience

This course is designed for users who need to set recommended design patterns and operate automation practices at scale,

including these roles:

- DevOps engineers
- Linux system administrators, developers
- Release engineers
- Other IT professionals with basic expertise using Ansible or Red Hat Ansible Engine to automate, provision,

configure and deploy applications and services in a Linux environment

Outlines

Day 1: Git & Inventory Management

- Understand and use Git
- Clone a Git repository
- Modify, update, and manage files in Git
- Commit and push changes to repository
- Manage inventory variables
- Structure host and group variables
- Override inventory settings using special variables
- Manage multiple host variable files

Day 2: Task Execution & Data Management

- Manage task execution
- Control privilege escalation
- Run selected tasks
- Transform data using filters and plugins
- Use lookup plugins to fetch external data
- Template data into playbooks
- Implement loops with advanced structures
- Inspect and manipulate network-related variables

Day 3: Delegation & Ansible Tower Installation

- Delegate tasks to different managed hosts
- Control fact gathering in delegated tasks
- Install Ansible Tower
- Perform initial configuration of Ansible Tower
- Basic system setup and validation

Day 4: Access, Inventories & Projects Management

- Manage Ansible Tower users and teams
- Configure role-based access control
- Manage inventories and credentials
- Create dynamic inventories LDAP/DB sources
- Create machine and source control credentials
- Manage projects and source repositories
- Create job templates

Day 5: Workflows, API & Backup

- Create job workflow templates
- Manage and automate job workflows
- Work with Ansible Tower API
- Write API scripts to launch jobs
- Backup and restore Ansible Tower

Best practices for enterprise automation

Registration form on the Training Course: Certified Specialist in Advanced Automation

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