Automation with Ansible I
DO407

Learn to write and manage Ansible playbooks and automate system administration tools
Automation with Ansible I (DO407) is designed for system administrators who are intending to use Ansible for automation, configuration, and management. Learn how to install and configure Ansible, create and run playbooks to configure systems, and learn to manage inventories.

This course is based on Red Hat® Enterprise Linux® 7.

Course overview

Through hands-on labs, students will learn to automate system administration tasks on managed hosts with Ansible, learn how to write Ansible playbooks to standardize task execution, centrally manage playbooks and schedule recurring execution through a web interface with Ansible Tower. Students will also learn to manage encryption for Ansible with Ansible Vault, deploy Ansible Tower and use it to manage systems, and use Ansible in a DevOps environment with Vagrant.

Course content summary

Install and troubleshoot Ansible on central nodes and managed hosts
Use Ansible to run ad-hoc commands and playbooks to automate tasks
Write effective Ansible playbooks
Protect encrypted data needed for tasks with Ansible Vault
Use Ansible Tower to more easily manage enterprise Ansible deployments
Work with Ansible in conjunction with Vagrant in a DevOps environment

Duration

32 hs

Audience

System and cloud administrators who need to automate cloud provisioning, configuration management, application deployment, intra-service orchestration, and other IT needs.

Prerequisites for this course

Tel: (54-11) 5237-3500 - info@itcollege.com.ar
Av. Córdoba 939 1°Piso - Ciudad Autónoma de Buenos Aires - Argentina
www.itcollege.com.ar

Have a Red Hat Certified System Administrator (RHCSA) certification or equivalent experience.

Outline for this course

Course introduction
Introduce and review the course.
Introduce Ansible
Describe the terminology and architecture of Ansible.
Deploy Ansible
Install Ansible and run ad hoc commands.
Implement playbooks
Write Ansible plays and execute a playbook.
Manage variables and inclusions
Describe variable scope and precedence, manage variables and facts in a play, and manage inclusions.
Implement task control
Manage task control, handlers, and tags in Ansible playbooks.
Implement Jinja2 templates
Implement a Jinja2 template.
Implement roles
Create and manage roles.
Configure complex playbooks
Configure connection types, delegations, and parallelism.
Implement Ansible Vault
Manage encryption with Ansible Vault.
Troubleshoot Ansible
Troubleshoot the Ansible control machine and managed nodes.
Implement Ansible Tower
Implement Ansible Tower.
Implement Ansible in a DevOps environment
Implement Ansible in a DevOps environment using Vagrant.
Comprehensive review
Review tasks from the Automation with Ansible course.
Note: Course outline is subject to change with technology advances and as the nature of the underlying job evolves. For questions or confirmation on a specific objective or topic, please contact us.

Tel: (54-11) 5237-3500 - info@itcollege.com.ar
Av. Córdoba 939 1°Piso - Ciudad Autónoma de Buenos Aires - Argentina
www.itcollege.com.ar

Recommended next exam or course

Red Hat Certificate of Expertise in Ansible Automation (EX407) exam
The performance-based Red Hat Certificate of Expertise in Ansible Automation (EX407) exam tests your ability to use Ansible to automate the configuration of systems and applications.
Automation with Ansible II: Ansible Tower (DO409)
Designed for IT professionals who use Ansible and need to centrally manage their Ansible projects in a way that scales to large teams and complex enterprise installations using Ansible Tower by Red Hat.

Tel: (54-11) 5237-3500 - info@itcollege.com.ar
Av. Córdoba 939 1°Piso - Ciudad Autónoma de Buenos Aires - Argentina
www.itcollege.com.ar