



ANSIBLE

Course ISI-1549 3 Days Instructor-led, Hands-on

The audience for this three day, instructor-led course is system's administrators desiring to automate provisioning, configuration management, service deployment, operational processes. This course covers all the core Ansible features including: installing and configuring, running ad-hoc commands, understanding modules, creating and using playbooks, variables and inclusion, task control, templates, and roles. The course also covers: dealing with sensitive data via Ansible Vault, integration with Docker and Vagrant, networking, and troubleshooting.

Prerequisites

Experience with Linux shell, text editing, and basic systems administration needed.

Course Outline

1. ANSIBLE OVERVIEW

- Why Ansible?
- Overview of Architecture
- QUIZ: Architecture
- Inventory
- Inventory Patterns
- Inventory Plugins
- QUIZ: Inventory and Patterns
- DEMO: Introducing Ansible

2. DEPLOYING ANSIBLE

- Installing
- DEMO: Installing Ansible
- Configuration Files
- DEMO: Configuration Files
- Module Syntax Help
- Running Ad Hoc Commands
- DEMO: Running Ad Hoc Commands
- Dynamic Inventory
- DEMO: Dynamic Inventory

LAB TASKS

- Deploying Ansible
- Ad Hoc Commands
- Dynamic Inventories

3. PLAYBOOKS BASICS

Contact ISInc for more information at 916.920.1700 or by visiting our website at <http://www.isinc.com>



- Writing YAML Files
- Playbook Structure
- Host and Task Execution Order
- Command Modules
- Significant Module Categories
- File Manipulation
- Network Modules
- Packaging Modules
- System Storage
- Account Management
- Security
- Services
- DEMO: Playbooks

LAB TASKS

- Playbook Basics
- Playbooks: Command Modules
- Playbooks: Common Modules

4. VARIABLES AND INCLUSIONS

- Variables
- Variables - Playbooks
- Variables - Inventory
- Variables - Registered
- Facts
- DEMO: Facts
- Inclusions

LAB TASKS

- Variables and Facts
- Inclusions

5. JINJA2 TEMPLATES

- Jinja2
- Expressions
- QUIZ: Jinja2 Templates
- Filters
- Tests
- Lookups
- Control Structures
- DEMO: Jinja2 Templates

LAB TASKS

- Jinja2 Templates
- Jinja2 Templates

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6. TASK CONTROL

- Loops
- Loops (cont.)
- Loops and Variables
- DEMO: Constructing Flow Control
- Conditionals
- DEMO: Conditionals
- Handlers
- Tags
- Handling Errors

LAB TASKS

- Task Control

7. ROLES

- Roles
- Role Usage Details
- QUIZ: Role Structure
- Creating Roles
- Deploying Roles with Ansible Galaxy
- DEMO: Deploying Roles with Ansible Galaxy

LAB TASKS

- Converting Playbooks to Roles
- Creating Roles from Scratch
- Ansible Galaxy Roles

8. ANSIBLE VAULT

- Configuring Ansible Vault
- Vault IDs
- Executing with Ansible Vault
- DEMO: Configuring Ansible Vault

LAB TASKS

- Ansible Vault

9. NETWORK AUTOMATION

- Network Automation
- Simple Network Module Examples
- Network Modules: Gotchas
- Simple IOS Modules Examples
- General Purpose ios Modules

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