

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

Module 1: Ansible Overview

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

Module 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

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

Module 3: Playbooks Basics

- 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

Module 4: Variables and Inclusions

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

LAB TASKS

- Variables and Facts
- Inclusions

Module 5: Jinja2 Templates

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

LAB TASKS

- Jinja2 Templates
- Jinja2 Templates

Module 6: Task Control

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

LAB TASKS

- Task Control

Module 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

Module 8: Ansible Vault

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

LAB TASKS

- Ansible Vault

Module 9: Network Automation

- Network Automation

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

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