

Learning Objectives



- 1. Getting Started
- 2. Writing a Playbook
- 3. SSH Basic and Privilege Escalation
- 4. Roles
- 5. Configuration and Deployment Management

Lab Environment



- 1. Control Machine console[1:20]
- 2. Managed Node runner[1-20]
- 3. Labs https://github.com/mpt-bootcamp/ansible/tree/master/docs

Getting Started



- 1. Connecting to the Lab Environment
- 2. Using Ansible CLI
- 3. Setting the Default Inventory File
- 4. Clone the Ansible Project from GitHub

Terminology



- Control Node: the machine where Ansible is installed, responsible for running the provisioning on the servers you are managing.
- Inventory: an INI file that contains information about the servers you are managing.
- Playbook: a YAML file containing a series of procedures that should be automated.
- Task: a block that defines a single procedure to be executed, e.g.: install a package.
- Module: a module typically abstracts a system task, like dealing with packages or creating and changing files. Ansible has a multitude of built-in modules, but you can also create custom ones.
- Role: a set of related playbooks, templates and other files, organized in a pre-defined way to facilitate reuse and share.
- Play: a provisioning executed from start to finish is called a play.
- Facts: global variables containing information about the system, like network interfaces or operating system.
- Handlers: used to trigger service status changes, like restarting or reloading a service.

Writing a Playbook



- 1. Creating and Executing a Simple Playbook
- 2. Working with Variables
- 3. Using Loops
- 4. Using Conditionals and Debugging
- 5. Defining and Triggering Handler
- 6. Using Modules

SSH Basic and Privilege Escalation



- 1. Generating a SSH Key Pair
- 2. Setting the SSH Key Pair for Managed Nodes
- 3. Connecting to the Managed Nodes using SSH Key
- 4. Running a Playbook Passwordless

Playbook Roles



- 1. Creating an Apache Role
- 2. Calling the Role in a Playbook

Configuration and Deployment Management



- 1. Setting up Environment Specific Inventory File
- 2. Configuring Apache, MySQL and PHP
- 3. Deploying a Java Web Application
- 4. Configuring Elasticsearch and Kibana

What's Next



The Ansible Project - Share, Learn and Collaborate

https://github.com/mpt-bootcamp/ansible