



ANSIBLE

'set-up' course – difficulty ★☆☆

2 days (14 hours)

Recommended for  
System administrators

## TEACHING GOALS

At the end of the course:

- ✓ You understand **the architecture of Ansible** (role, task, playbook, module,...)
- ✓ You know how to **set-up Ansible**
- ✓ You are able to **use and create playbooks** to manage your infrastructure

**Prerequisites**  
Basic knowledge of  
Linux systems

## DETAILED CONTENT

### Day 1

#### Introduction to Ansible

- ✓ Introduction to the centralized configuration
- ✓ Ansible's specific concepts
- ✓ Comparison with other solutions (Puppet/Chef/SaltStack)

#### Setting up Ansible

- ✓ Installation
- ✓ Initial configuration
- ✓ Ansible CLI
- ✓ Managing the access with SSH and sudo
- ✓ Settling the inventory

#### Usage of the main ad-hoc modules

- ✓ shell / command
- ✓ service
- ✓ yum / apt

#### Ansible playbooks

- ✓ Interest
- ✓ Syntax and YAML
- ✓ ansible-playbook command
- ✓ Defining (tasks)
- ✓ Notifications and handlers

#### Creation of reusable code

- ✓ Definition and usage of variables
- ✓ The roles notion

### Day 2

#### Usage of additional modules and roles

- ✓ user/group
- ✓ MySQL
- ✓ Modules for managing cloud infrastructure (ec2/openstack)
- ✓ Finding more roles on Galaxy

#### Ansible language

- ✓ Variables
- ✓ Facts
- ✓ Loops
- ✓ Conditions
- ✓ Inclusions
- ✓ « pre » and « post » tasks
- ✓ Best practices

#### Templates (jinja2)

- ✓ Basic syntax
- ✓ Tests, conditions and loops
- ✓ Filters

#### Going further

- ✓ Develop your own modules
- ✓ Creation of jinja2 filters
- ✓ Ansible Tower: the GUI