Course : Ansible: Automating Server Management

Practical course - 2d - 14h00 - Ref. SIB
Price : 1650 CHF E.T.

★★★★½   4,5 / 5

BEST

Teaching objectives

At the end of the training, the participant will be able to:

- Understand the structure of Ansible (roles, tasks, playbooks, modules, etc.)
- Install and configure Ansible
- Use and create playbooks to manage infrastructure

Course schedule

1 Positioning of Ansible

- Ansible and DevOps.
- Devops & IaC (Infrastructure as Code), the source code of the infrastructure.
- The tools Puppet, Chef, Saltstack, etc. Ansible.
- How Ansible works.
- Architecture: inventory, modules, playbooks, tasks, roles.

2 Installation and configuration

- Installing and getting started with the tool.
- The basic commands of Ansible.
- Node configuration: ssh keys, sudo privilege escalation.
- The configuration file.
- The inventory: creation and use.

Hands-on work
Installing Ansible and configuring several client nodes, creating inventory and using the main commands.

3 Ad Hoc orders

- Parallelism and Shell commands.
- File transfers.
- Packages with yum, apt.
- Users and groups.
- Services.

Hands-on work
Use of different Ad hoc commands in parallel on multiple nodes.

4 Playbooks

- Introduction to playbooks.
- Definition of tasks, plays.
- Yaml syntax.
- Variables, modules and tasks.
- Executing a playbook.
- Testing a playbook in a dry-run.
- Step-by-step execution, skipping tasks.
- Managing errors.

Hands-on work
Writing a simple playbook composed of several tasks.

5 Writing modular code

- Notifications and Handlers.
- Roles and includes. Tags.
- Community modules.
- Ansible-galaxy: Share your code.

Hands-on work
Explore the Ansible galaxy, downloading and using modules, adding tags to a playbook.

6 Advanced commands

- Vault: data encryption.
- Lookups.
- Developing your own modules, debugbing a module, plug-ins.
- Creating your own filters.

Hands-on work

7 Writing a playbook

- Variables. Templates and filters.
- Control structures: conditions, loops and blocks.
- Prompts. Facts.
- Writing playbooks.

Options
Certification : 250 € HT

Dates and locations

REMOTE CLASS
2026 : 16 Mar., 20 Apr., 18 May, 18 May, 15 June,
20 July, 20 July, 17 Aug., 3 Sep., 12 Oct., 12 Oct.,
26 Nov., 17 Dec.