

Course : Chef, automate server administration

Practical course - 2d - 14h00 - Ref. CFH

Price : 1960 CHF E.T.



This Chef training course, part of the DevOps technology movement, will enable you to implement best practices for managing your servers and their configurations. You'll learn how to automate the management of your infrastructure, making it versionable, testable and repeatable just like application code.

Teaching objectives

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

- ✓ Implement centralized administration with Chef
- ✓ Installing and running Chef Server
- ✓ Using the Chef client
- ✓ Create resources and revenues
- ✓ Recipe testing
- ✓ Understanding how Chef works

Intended audience

Developers, architects, technicians and system administrators.

Prerequisites

Basic knowledge of a Linux/Unix system (use of command line and Shell Script).

Course schedule

1 Operating principle

- Fundamental concepts.
- The positioning of Chef and competing tools.
- What can be automated.
- Chef Server (Hosted/On-Premises), working environment.
- Chef-Solo: Chef without a server.
- Introduction to the various Chef plug-ins.

PARTICIPANTS

Developers, architects, technicians and system administrators.

PREREQUISITES

Basic knowledge of a Linux/Unix system (use of command line and Shell Script).

TRAINER QUALIFICATIONS

The experts leading the training are specialists in the covered subjects. They have been approved by our instructional teams for both their professional knowledge and their teaching ability, for each course they teach. They have at least five to ten years of experience in their field and hold (or have held) decision-making positions in companies.

ASSESSMENT TERMS

The trainer evaluates each participant's academic progress throughout the training using multiple choice, scenarios, hands-on work and more. Participants also complete a placement test before and after the course to measure the skills they've developed.

2 The Chef server and client

- Installing and configuring Chef Server.
- Node configuration.
- Chef client presentation: functionalities.
- Using and running the Chef client.
- Basic commands, Knife tools, Knife-Solo extension.

Hands-on work

Install and configure Chef Server. Deploy, configure and handle the Chef client.

3 Nodes, resources and recipes

- Presentation of the node object.
- Resources: presentation, concept, implementation and action.
- Recipes: presentation and use.
- Attributes, templates and dependencies between recipes.
- Use of variables and implementation of notifications.
- Use of community income and inclusion of income.

Hands-on work

Manipulate variables. Implement notifications. Create resources and recipes. Include recipes.

4 Safety

- Chef security techniques: what you can do.
- Variables in the form of JSON data, data bags.

Hands-on work

Safety implementation. Use of data bags.

5 Roles and environments

- Roles and environments: presentation and concepts.
- Node configuration based on its role.
- Node configuration based on its environment.

Hands-on work

Role manipulation. Node configuration based on role and environment.

6 Test your recipes

- Recipe unit testing: presentation and concepts.
- Recipe unit testing with ChefSpec.
- Set up environments (reproducible, portable and lightweight) with Vagrant.

Hands-on work

Unit testing recipes with ChefSpec.

TEACHING AIDS AND TECHNICAL RESOURCES

- The main teaching aids and instructional methods used in the training are audiovisual aids, documentation and course material, hands-on application exercises and corrected exercises for practical training courses, case studies and coverage of real cases for training seminars.
- At the end of each course or seminar, ORSYS provides participants with a course evaluation questionnaire that is analysed by our instructional teams.
- A check-in sheet for each half-day of attendance is provided at the end of the training, along with a course completion certificate if the trainee attended the entire session.

TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training.

ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you need special accessibility accommodations? Contact Mrs. Fosse, Disability Manager, at psh-accueil@orsys.fr to review your request and its feasibility.

REMOTE CLASS
2026 : 22 June, 7 Sep.