

Course : Gatling, automating load tests for Web applications

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

Price : 1720 CHF E.T.

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Learn how to use Gatling, a powerful open source tool for simulating load increases and evaluating the performance of your web applications. Master test scenarios, collect results and analyze key metrics. Optimize the reliability and responsiveness of your applications.

Teaching objectives

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

- ✓ Writing load and performance test scenarios with Gatling's DSL (domain-specific language)
- ✓ Build performance reports according to industry standards
- ✓ Installing and integrating Gatling into a CI/CD chain

Intended audience

DevOps engineers, testers.

Prerequisites

Basic knowledge of web applications and a programming language.

Course schedule

1 Architecture

- Gatling's motivations.
- Different types of installation.
- Integration with build tools.
- Intégration avec les IDE..
- Scala and functional programming.
- The benefits of declarative programming.

Hands-on work

Installation of Gatling in the IDE and build tool.

PARTICIPANTS

DevOps engineers, testers.

PREREQUISITES

Basic knowledge of web applications and a programming language.

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.

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.

2 First load test scenario

- Gatling concepts: simulation, scenario, charge injection, action, checkpoint, feeder, pause.
- VU (Virtual Users) and asynchronous requests.
- DSL syntax elements.
- HTTP request construction, pause management.
- Various performance metrics: response time, bandwidth, throughput, errors.
- Defining and reusing use cases.
- Define user groups.

Hands-on work

Record a scenario, reorganize it into scenarios and simulate it.

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.

3 Gatling and dynamic data

- VU session and API session.
- Expression Language, a key component of DSL.
- Feeders: the different types available.
- Check answer.
- Command line parameters.

Hands-on work

Virtual User session handling.

4 HTTP specificities

- HTTP protocol: core and advanced settings.
- HTTP request: methods, headers, parameters, forms, authentication, multipart.
- Response processing, data extraction, transformation and backup.
- Cookie management.
- Setting up SSL.
- Polling et WebSocket .

Hands-on work

Specification of a test scenario.

5 Gatling, advanced applications

- Detailed reports and graphs.
- Extensions and integrations with other tools (Maven, Gradle, Jenkins, etc.).
- Gatling in CI/CD pipelines.
- Tests with specific protocols (WebSocket, JMS, etc.).

Dates and locations

REMOTE CLASS

2026 : 1 June, 15 Oct.