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# HAProxy training :

2 days (14 hours)

## Presentation

Our HAProxy training course is designed for anyone wishing to optimize the performance of their applications or websites. Load balancers are essential for ensuring the reliability of your applications and providing your customers with the best possible user experience. In this training course, you'll learn how to configure and use one of the best-known and most efficient load balancers.

HAProxy or High Availability Proxy is an open-source load balancer and proxy server. It works on TCP and HTTP-based applications. HAProxy is particularly renowned for its performance and [reliability](#). Many companies, including some of the top fortune 500, use it to manage the activity of thousands of pages daily.

In this course, we'll look at software configuration for monitoring your solutions, protection against DDOS attacks and anti-bot protection.

Training runs on the latest version: [HAProxy 2.7](#).

## Objectives

- Configuring HAProxy efficiently
- Learning load management with software
- Defending your network against DDOS attacks

## Target audience

- Network administrators
- Operators
- Network architects

# Prerequisites

- Basic knowledge of network infrastructures
- Knowledge of Linux

# Our HAProxy training program

## The basics of high availability

- Understanding load balancing
- Understanding fault tolerance
- The 3 load sharing modes

## Introduction to HAProxy

- Preparing HAproxy servers
- Preparing Apache servers
- Tool configuration
- Frontend and Backend
- HTTP and TCP protocol modes
- High availability
- Rewriting
- Redirection

## HTTPS connection management

- Managing HTTPS connections
- TCP and HTTP mode
- TLS / SSL terminations

## Anti-DDOS protection

- Protection against DOS and DDOS
- Protection against Slowloris
- Limit queries

## Anti-bot modules

- Silent query termination
- Scraping detection

## Vulnerability testing

- Load test
- Slowloris test
- Scraping test
- TLS / SSL testing

## Monitor your HAProxy environment

- Setting up your environment
- Problem detection
- Frontend statistics
- Backend statistics
- System metrics

## Companies concerned

This course is aimed at both individuals and companies, large or small, wishing to train their teams in a new advanced computer technology, or to acquire specific business knowledge or modern methods.

## Positioning on entry to training

Positioning at the start of training complies with Qualiopi quality criteria. As soon as registration is finalized, the learner receives a self-assessment questionnaire which enables us to assess his or her estimated level of proficiency in different types of technology, as well as his or her expectations and personal objectives for the training to come, within the limits imposed by the selected format. This questionnaire also enables us to anticipate any connection or security difficulties within the company (intra-company or virtual classroom) which could be problematic for the follow-up and smooth running of the training session.

## Teaching methods

Practical course: 60% Practical, 40% Theory. Training material distributed in digital format to all participants.

## Organization

The course alternates theoretical input from the trainer, supported by examples, with brainstorming sessions and group work.

## Validation

At the end of the session, a multiple-choice questionnaire verifies the correct acquisition of skills.

## Sanction

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A certificate will be issued to each trainee who completes the course.

[Training Program Web page](#) - Appendix 1 - Training sheet

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