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HAProxy training: Optimize and protect your network infrastructure

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 runs 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 Load Balacing

- Understanding load balancing
- Tasks
- Frontend and Backend
- Load balancing techniques
- Persistence

Introduction to HAProxy

- Tool configuration
- Load Balancing
- Creating nodes
- Preparing the Apache server
- High availability

HTTPS connection management

- Managing HTTPS connections
- Rewriting connections
- SSL terminations
- Load balacing on connections
- Securing traffic

Anti-DDOS protection

- Configuring protection
- Protect HTTPS services
- Protecting your SSH server
- Limit queries
- Slowloris protection

Anti-bot modules

- ReCAPTCHA
- Javascript Challenges
- Use a low-priority backend
- Silent query termination
- Web scraping detection

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.

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

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