

Updated 10/25/2024

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## Zabbix Expert Training (ZCE)

ALL-IN-ONE: PREPARATION & EXAM INCLUDED IN PRICE

5 days (35 hours)

### Presentation

Zabbix is an open source monitoring software solution designed for real-time monitoring of millions of measurements collected from tens of thousands of servers, virtual machines and network devices. Zabbix training is designed to ensure knowledge transfer between Zabbix's leading experts and trainees in a short space of time. Courses are focused on practical tasks, where each trainee installs, configures monitoring and solves complex implementation problems. The training program includes time for question-and-answer sessions, so that participants can discuss any practical problems with the trainer and get advice. We will teach you the latest version of Zabbix, [Zabbix 7](#).

### Objectives

- Understanding and using the Zabbix API
- Master security on Zabbix
- Mastering administration
- Get ready for the Zabbix Certified Expert exam

### Target audience

Administrators, DevOps, architects or anyone wishing to set up a monitoring system with Zabbix

### Prerequisites

- Basic knowledge of a Unix/Linux system
- Completion of our [Zabbix Certified User](#), [Zabbix Certified Specialist](#) and [Certified Professional training courses](#)

### Certifying exam

The certification exam takes place on the last day, online and in English.

## Zabbix Certification : Expert training program

### Day 1 :

- Installation: Zabbix upgrade
- Installation: Zabbix source code
- Administration: Zabbix and SELinux
- Security: SSL certificates
- Security: Database connection encryption
- Security: Zabbix and HashiCorp Vault
- Security: Internal communication encryption

### Day 2 :

- Security: MySQL DB connection encryption
- Security: PostgreSQL DB connection encryption
- Security: Internal communication encryption with PSK
- Security: Internal communication encryption with Certificates
- Security: Custom cipher
- Data collection: SNMPv3 monitoring
- Administration: External authentication (LDAP, SAML)

### Day 3 :

- Programming: Zabbix communication protocol
- Administration: Zabbix database structure
- Programming: Zabbix API presentation
- Programming: Zabbix API authentication
- Programming: Zabbix API methods
- Programming: Zabbix API output
- Programming: Zabbix API filters
- Programming: Zabbix API modules
- Programming: Zabbix loadable modules
- Programming: Zabbix frontend modules

### Day 4 :

- Administration: Zabbix server startup/shutdown behavior
- Administration: Data collection internals
- Administration: High availability internals
- Administration: Configuration syncer internals
- Administration: Preprocessing internals
- Administration: Low-level discovery internals
- Administration: VMware monitoring internals

- Administration: Zabbix self-monitoring
- Administration: Zabbix tasks
- Administration: Event and data processing
- Administration: Housekeeper internals
- Administration: Proxy communication

## Day 5 :

- Administration: Autoregistration internals
- Administration: Network discovery internals
- Administration: Advanced IT services configuration
- Data collection: Storing history in Elasticsearch
- Introducing: Version 7
- Zabbix 7 Certified Expert Exam
- Zabbix 7 Certified Expert Certificate

## Companies concerned

This training 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 enabling 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 with regard to 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

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

