

Updated on 08/12/2023

Sign up

Zabbix Professional (ZCP) training

ALL-IN-ONE: PREPARATION & EXAM INCLUDED IN RATE
2 days (14 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 and configures Zabbix software on their own, configures monitoring, solves complex implementation problems. And to acquire the knowledge and skills needed to configure and use a Zabbix proxy to set up distributed monitoring, as well as advanced topics on Zabbix. 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 6](#).

Objectives

- Understand the main Zabbix components and how they communicate.
- Configuring the Zabbix graphical interface for monitoring
- Get ready for the Zabbix Certified Professional 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](#) and [Zabbix Certified Specialist training courses](#)

Certifying exam

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

Training program Zabbix Certification : Professional

Day 1 :

- Intro: Zabbix prerequisites
- Intro: Main Zabbix components
- Intro: Communication between Zabbix components
- Intro: Data Collection
- Intro: Zabbix internal data flow
- Zabbix GUI: Setting up Nginx
- Zabbix GUI: Nginx settings
- Zabbix GUI: Nginx monitoring
- Zabbix GUI: Setting up HTTPS
- Zabbix graphical user interface: Practical work
- Zabbix agent 2: Overview
- Zabbix agent 2: Buffers
- Zabbix agent 2: Main components
- Zabbix agent 2: Installation
- Zabbix agent 2: Command mode
- Zabbix agent 2: Plugin configuration
- Zabbix agent 2: Named sessions
- Zabbix agent 2: Specific keys
- Zabbix agent 2: Practical work
- Zabbix agent: Remote commands
- Zabbix agent: Key restriction chains
- Zabbix agent: Key restriction order
- Zabbix agent: Notes on key restrictions
- Zabbix agent: Practical work
- Encryption: Overview
- Encryption: Zabbix options
- Encryption: TLS Accept / Connect
- Encryption: Using certificates
- Encryption: Using shared keys
- Encryption: Notes
- Encryption: Practical work
- Self-Recording: Overview
- Self-registration: HostMetadata
- Auto-Registration: HostInterface
- Self-registration: Actions
- Self-recording: Passive checks
- Self-Registration: Encryption
- Self-recording: Practical exercises
- Network Discovery: Overview
- Network Discovery: Events
- Network discovery: Uptime/Downtime
- Network Discovery: Actions
- Network Discovery: Notes
- Network discovery: Practical work
- Database monitoring: ODBC concepts
- Database monitoring: Configuration

- Database monitoring: DSN and connection chain Database monitoring: Practical examples

Day 2 :

- Pre-treatment: Overview
- Pre-processing: Internal data flow
- Pre-processing: XML path
- Pre-processing: JSON path
- Pre-processing: CSV JSON conversion
- Bass discovery: Introduction
- Discovery low: LLD rules
- Discovery low: LLD Macros
- Low cut: Prototype elements
- Discovery bass: Practical work
- Low-level discovery: Graph prototypes
- Discovery low: Prototype triggers
- Bass discovery: Macro contexts
- Discovery bass: Practical work
- Discovery low: LLD of system services
- Low-cost discovery: LLD on Windows
- Discovery low: LLD replacement
- Discovery bass: Practical work
- Discovery low: LLD internal flow
- Low-level discovery: LLD and dependent elements
- Low-cost discovery: LLD and flow reduction
- Discovery bass: Practical work
- Low-level discovery: LLD file systems
- Discovery bass: Practical work
- Low-level discovery: LLD and SQL
- Discovery bass: Practical work
- Low-level discovery: LLD and SNMP OIDs
- Discover low: Dynamic indexes

Day 3 :

- VMware Monitoring: Overview
- VMware Monitoring: Native templates
- VMware Monitoring: Prototype hosts
- VMware Monitoring: Configuration
- VMware Monitoring: Notes
- JMX Monitoring: Overview
- JMX Monitoring: Java Gateway
- JMX monitoring: Zabbix server configuration
- JMX monitoring: Java application configuration
- JMX Monitoring: Practical work
- Low-cost discovery: LLD via JMX
- Predictive trigger functions: Overview
- Predictive trigger functions: Forecast
- Predictive trigger functions: Timeleft
- Predictive trigger functions: Notes
- Predictive trigger functions: Practical exercises

- Advanced trigger functions: Count
- Advanced trigger functions: Percentile
- Event correlation: Overview
- Event correlation: Correlation at trigger level
- Event correlation: Global correlation
- Zabbix proxies: Overview
- Zabbix proxies: Active/passive proxies
- Zabbix proxies: Configuration
- Zabbix proxies: Internal monitoring
- Zabbix proxies: Order mode
- Proxies Zabbix: Throttling
- Zabbix proxies: Practical work
- Docker Images: Overview
- Docker Images: Deploying the Zabbix proxy
- Real-time data export: Overview
- Real-time data export: Practical work
- Internes Zabbix: Caches
- Internes Zabbix: Internal processes
- Internes Zabbix: Data collection
- Zabbix internals: Practical work
- Zabbix performance: New values per second
- Zabbix performance bottlenecks
- Zabbix performance: Database optimization (MySQL) & partitioning
- Zabbix performance: Recommendations
- Releases Zabbix: Zabbix policy
- Releases Zabbix: Update
- Discussions: Questions/Answers
- Certificate of attendance
- Review
- Certification

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 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.