

# Zabbix

Zabbix is **an open-source monitoring solution for IT infrastructure, including networks, servers, applications, and cloud services**. It provides real-time performance data, automated alerting, and visualization to ensure system reliability and stability. Key features include its ability to monitor a wide range of operating systems and platforms, flexible notification mechanisms, and enterprise-level capabilities for security and scalability.

## What Zabbix does

**Monitors IT infrastructure:** It can monitor a wide variety of IT components, such as networks, servers (physical and virtual), applications, cloud services, and databases.

**Collects performance data:** It collects and displays real-time performance metrics to provide insight into the health and integrity of your systems.

**Sends alerts:** Zabbix uses a flexible notification system to send alerts (e.g., via email) for any configured event, allowing for quick reactions to problems.

**Ensures security and scalability:** It is designed with enterprise-level security and scalability in mind, making it suitable for large and complex environments.

## How it works

**Agents:** A Zabbix agent can be installed on the devices you want to monitor (e.g., Windows, Linux, macOS), which collects and sends data back to the Zabbix server.

**Templates:** You can use predefined templates to quickly set up monitoring for common devices and applications.

**Items:** Within a template or on a host, you configure "items" to specify what data to collect (e.g., CPU utilization, memory usage).

**Triggers and actions:** When an item's value crosses a defined threshold, a trigger is fired, which can then initiate an automated "action" (like sending an alert).

# What to know before using Zabbix

**Complexity:** It can have a steep learning curve for new users.

**Resource intensity:** It can be resource-intensive, especially in large-scale deployments.

**Community support:** A strong community is available for support and resources, including forums, blogs, and documentation.

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