

ZABBIX MONITORING SYSTEM

IN TODAY'S WORLD IT IS IMPORTANT TO KNOW THE STATUS OF YOUR INFORMATION SYSTEM. WE CAN DEPLOY AND OPERATE A COMPREHENSIVE MONITORING SYSTEM FOR IT INFRASTRUCTURE, SERVICES AND APPLICATIONS MONITORING.

The dependency of organizations on information technologies continues to grow. IT services failures have significant consequences for organizations, not only internally but also on their customers or clients. Therefore, it is not enough to merely respond to failures - it is essential to prevent them from occurring. A proactive increase in key information system availability can be achieved using the following approaches:

- ▶ Proper application of risk analysis
- ▶ Fine-tuning or introduction of elementary IT administration processes, including support technologies
- ▶ Deployment and correct configuration and parametrization of a monitoring system

[MONITORING SYSTEM]

To operate efficiently, organizations need not only a basic overview of their information system status, they also need comprehensive information about the IT ecosystem and its components, including notification strategies and automated response mechanisms. These functions are provided by comprehensive monitoring systems that can clearly display the current status of key systems and services, the history and trends of monitored parameters, and can report status changes in the monitored systems. For a monitoring system to meet the expected requirements, it has to be correctly configured in the following areas:

- ▶ Monitoring of key information systems and their individual components
- ▶ Setting of threshold values for alerts and notifications
- ▶ Escalation of notifications
- ▶ Reporting

[SOLUTION INTRODUCTION]

The Zabbix monitoring system is comprehensive enterprise-level software designed for monitoring the availability and performance of IT infrastructure components. Zabbix is an open source product available for free in a full version.

[MONITORING SYSTEM PROJECT]

During the implementation of the Zabbix monitoring system project, great attention is paid to the maximum utilization of the invested funds and utilization of all suitable solution characteristics, while complying with the different requirements for provided services and the seamless integration of the services into the communication and server infrastructure. To comply with the requirements and to meet expectations, we usually prepare a project that includes the following stages:

- ▶ Analysis
- ▶ Architecture design
- ▶ System project
- ▶ Implementation
- ▶ Entrusted administration or operational support

FEATURES AND BENEFITS

- ▶ Speed
- ▶ Open source (GPL license)
- ▶ Uncluttered environment
- ▶ Intuitive control
- ▶ Agile and fast development
- ▶ Versatility (virtually anything can be monitored)
- ▶ Support (forum, documentation, ...)
- ▶ Web browser access
- ▶ Mobile device access
- ▶ Scalability - up to 100,000 devices and up to 1,000,000 items

[ZABBIX - SCOPE OF USE]

The Zabbix monitoring system can be used to monitor all important components of an organization's ICT environment, such as:

- ▶ Performance
- ▶ Network devices
- ▶ Agentless monitoring
- ▶ VMware monitoring
- ▶ Database monitoring
- ▶ Web services
- ▶ Hardware monitoring
- ▶ Creation of custom monitoring schemes

[MONITORING VIA MOBILE APPLICATION]

An application in your smartphone can provide a continuous overview of the monitored system and all its components. You can always carry key system monitoring with you.

[CONFIGURATION AND CONTROL]

Configuration and control are comfortable and easy via a web browser. They are therefore not dependent on the user's operating system, while the system can be operated remotely via the internet.

[ZABBIX SERVER TECHNOLOGY]

Zabbix server can include and use the following services and technologies, depending on the analysis and design.

[ZABBIX SERVER FUNCTIONAL FEATURES]

Data Collection

Zabbix offers a rich set of functions that allow users to monitor more than just individual hosts. See below for a list of data collection options:

- ▶ SNMP and IPMI agents
- ▶ Agentless monitoring
- ▶ Special monitoring
- ▶ Virtual machine monitoring
- ▶ Web scenarios
- ▶ Java applications
- ▶ Database monitoring
- ▶ Calculated and aggregated items
- ▶ Internal performance monitoring

Problem Detection

The process of data evaluation starts as soon as information is collected using the methods available in Zabbix. Data evaluation rules are defined as triggers that provide logical definitions of statuses based on data acquired from the monitored computers. When a threshold value is reached, the trigger changes its status from OK to PROBLEM and vice versa.

Data Visualization

People read graphical representations of data better than tables of numbers, especially when there is a huge volume of the displayed data. Zabbix uses the following visualization options in its WEB interface:

- ▶ Global dashboard
- ▶ Charts
- ▶ Maps
- ▶ Combined views of the above
- ▶ Access to acquired values
- ▶ Event lists

Notifications

Zabbix can inform authorized personnel about events using many channels and options. Zabbix provides a comprehensive workflow for:

- ▶ Notification sending
- ▶ Received information confirmation
- ▶ Information escalation
- ▶ Ability to take measures

Automatic Search

Monitoring of large environments can be nightmare without automation. Zabbix provides several ways to automate the administration of such environments. Three main elements are used for automation:

- ▶ Network discovery
- ▶ Low-level discovery
- ▶ Auto-registration of active agent

Distributed Monitoring

Zabbix proxy is software that collects information about the monitored environment and sends it to the Zabbix server. Zabbix proxy can significantly streamline environment maintenance and improve the performance of the central Zabbix server.

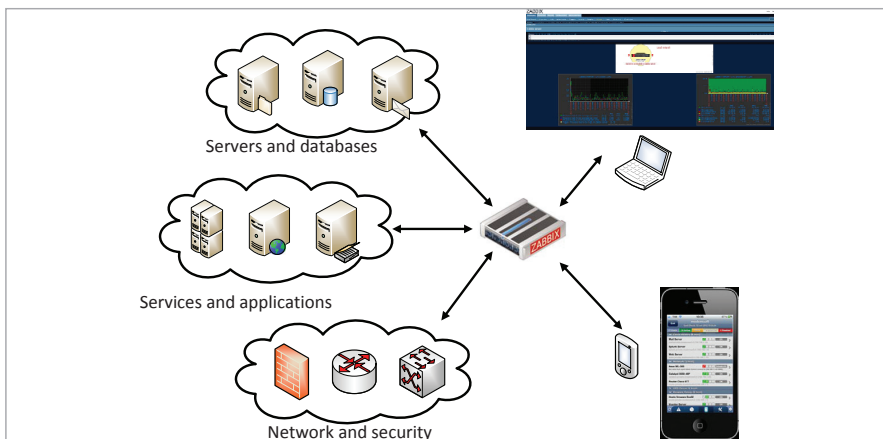
System Management

Zabbix supports the use of Maintenance Window for system maintenance, during which it can suppress change notifications. The collected data can be used for inventory maintenance and it can even run its own scripts on the individual guests.

Open API

The Zabbix API sits on top of all features provided by this system – it provides access to almost all the available functions. Zabbix API makes it possible to improve the efficiency of the monitoring.

■ Monitoring Concept



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