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# Academy

## Zabbix Monitoring Server

(2 Days)

## Preface

Welcome to the GSR Academy, where we believe in empowering individuals and teams with the skills they need to excel in today's dynamic and ever-evolving tech landscape.

At GSR Academy, we are not just committed to helping people gain new skills; it is our passion! Our workshops are curated and led by industry professionals, including Developers and System Architects, who have extensive experience working on real projects. This ensures that our training offerings are relevant, practical, and in line with the latest industry trends.

We understand that every team is unique, and their learning needs may vary. That's why we take pride in offering customized workshops that cater to your specific requirements. Whether you need to upskill your team in Ansible Development for seamless IT automation, implement a robust Single Sign-On Solution with Keycloak, or fine-tune your Linux systems for optimal performance, we've got you covered.

# Introduction

## Welcome to the Zabbix Monitoring Fundamentals

In today's dynamic IT environments, the ability to monitor and manage infrastructure is critical for maintaining optimal performance, ensuring reliability, and preventing downtime. As organizations grow and their IT ecosystems become more complex, the need for a robust, scalable, and flexible monitoring solution becomes increasingly important.

**Zabbix** is a powerful, open-source monitoring tool designed to meet these challenges. It provides comprehensive monitoring capabilities that allow you to keep an eye on your entire IT infrastructure, including networks, servers, applications, and services. With Zabbix, you can gather, process, and visualize data in real-time, enabling you to make informed decisions, troubleshoot issues efficiently, and ensure that your systems are running smoothly.

# Training Modules

## Module 1: Overview of Zabbix

- What is Zabbix?
- Zabbix features and capabilities
- Zabbix use cases and benefits
- Understanding Zabbix architecture (Server, Agents, Proxies, Database, Web Interface)

## Module 2: Installation and Initial Configuration

- System requirements and prerequisites
- Installing Zabbix Server on Linux
- Installing and configuring Zabbix Agent
- Initial configuration of the Zabbix Web Interface
- Setting up the Zabbix database

## Module 3: Basic Zabbix Configuration

- Adding hosts and host groups
- Configuring Zabbix Agents on multiple hosts
- Setting up items for monitoring
- Introduction to templates and template management

## Module 4: Working with Triggers

- What are triggers?
- Creating and managing triggers
- Trigger dependencies
- Setting up and testing trigger actions

## **Module 5: Monitoring with Proxies**

- Introduction to Zabbix Proxies
- Installing and configuring a Zabbix Proxy
- Monitoring remote locations using proxies
- Proxy management and troubleshooting

## **Module 6: Custom Monitoring and User Parameters**

- Custom items and user parameters
- Monitoring custom applications and scripts
- Creating custom templates
- Monitoring with SNMP, JMX, IPMI, and external scripts

## **Module 7: Visualizing Data**

- Working with Zabbix graphs
- Creating and managing dashboards
- Setting up and using screens
- Analyzing data with maps and slide shows

## **Module 8: Reporting and Notifications**

- Configuring email, SMS, and other notifications
- Setting up user roles and permissions
- Generating and scheduling reports
- Performance tuning and best practices