# Zabbix Server Installation and Configuration on AlmaLinux

#### **Overview**

This guide walks through installing and configuring a Zabbix server using Docker on AlmaLinux, adding a Windows host, and setting up monitoring with graphical data representation.

### **Prerequisites**

### 1. System Setup:

- o AlmaLinux 8+.
- Docker and Docker Compose installed.
- Internet access.

#### 2. Zabbix Components:

- Zabbix Server
- Zabbix Web Interface
- Zabbix Agent

#### **Process Overview**

### 1. Prepare the AlmaLinux System

- Update the system using dnf update.
- Install Docker and enable it.

#### 2. Set Up the Zabbix Environment

- Create a directory for Zabbix.
- Use Docker Compose to configure Zabbix Server, Web Interface, and Database services.

### 3. Deploy the Containers

- Start the Zabbix setup using Docker Compose (docker-compose up -d).
- Verify containers are running with docker ps.

#### 4. Access the Zabbix Dashboard

- Open the Zabbix web interface at http://<server\_ip>/.
- Log in with default credentials and verify the server is working.

#### 5. Add a Windows Host

- Install the Zabbix Agent on a Windows machine.
- Configure the host in Zabbix with appropriate templates.

### 6. Monitor Data and View Graphs

- Use **Monitoring > Latest Data** to view metrics.
- Access **Monitoring > Graphs** for graphical representations of the collected data.

#### **Skills Learned**

#### 1. System Administration:

- o Setting up Docker and Docker Compose on AlmaLinux.
- Managing containerized services.

## 2. Zabbix Configuration:

- o Deploying Zabbix using Docker.
- o Configuring hosts and assigning monitoring templates.

## 3. Monitoring and Troubleshooting:

- o Analyzing metrics and creating graphical data views.
- o Troubleshooting agent connections and data collection issues.

#### 4. Networking:

- o Managing network communication between Zabbix Server and Agents.
- Setting up IP-based host configurations.

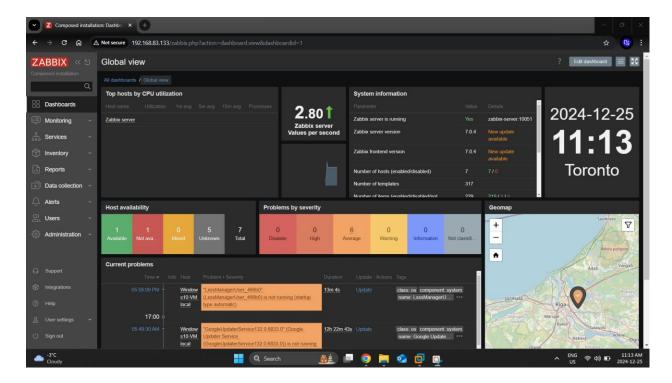
# 5. Cross-Platform Monitoring:

o Integrating a Linux-based Zabbix server with a Windows-based host.

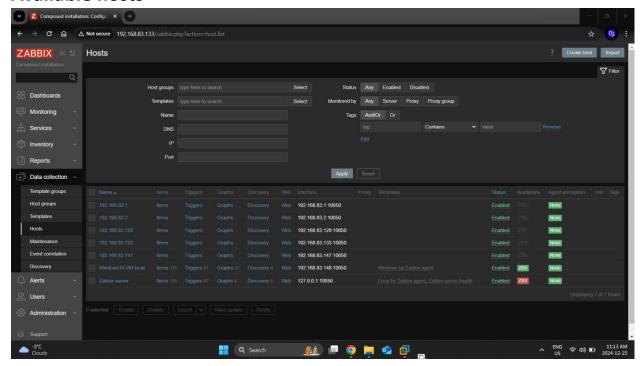
# Docker containers running Zabbix server



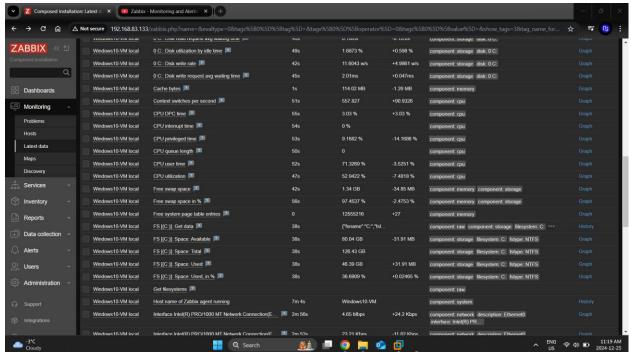
# **Zabbix Dashboard**



### **Available hosts**



# Data collected from Windows host by Zabbix agent



# **Graphical representation of collected data (CPU utilization)**

