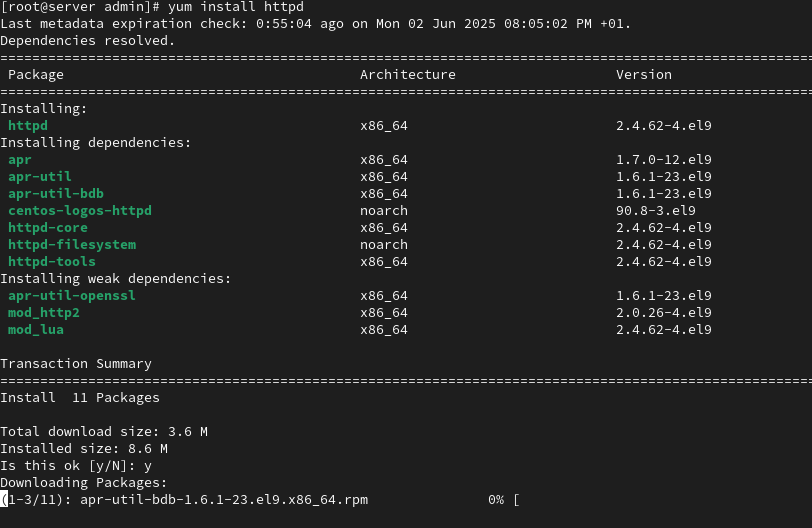
ZABBIX: is one of the free open source software that we use for monitoring network equipment hardware, and its performance.

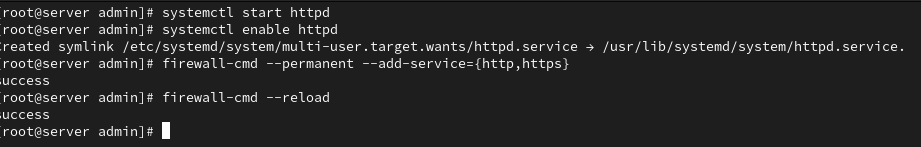
**Use Zabbix if we need:**

* A **free** but powerful enterprise-grade monitoring tool.
* **Full-stack visibility** from hardware to services.
* **Automated alerting and response** to system issues.
* Centralized monitoring for **hybrid** or **multi-site environments**.
* Lets start our Zabbix setting up, in centos9

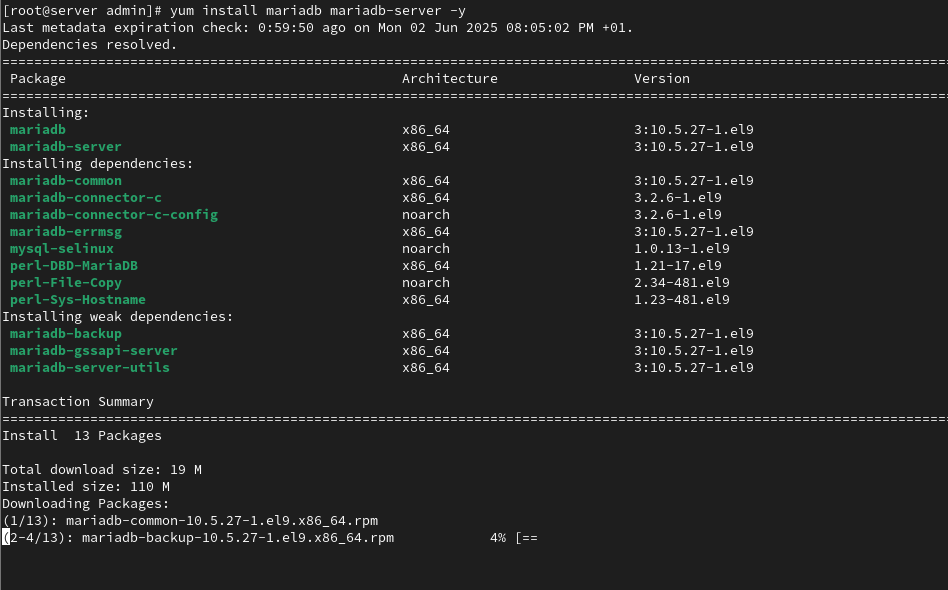
1. Install apache first



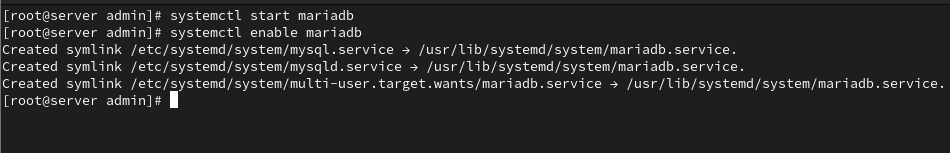
1. start the apache enable it on the system, also accept the firewall http/https requests



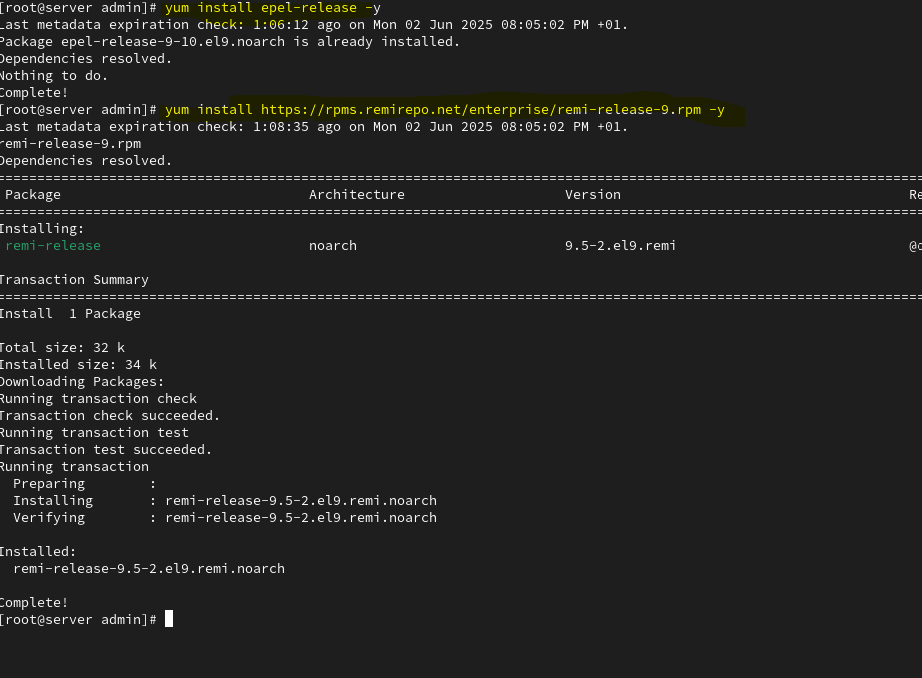
1. install mariadb and mariadb-server that we will need our sql database that will be using by the zabbix



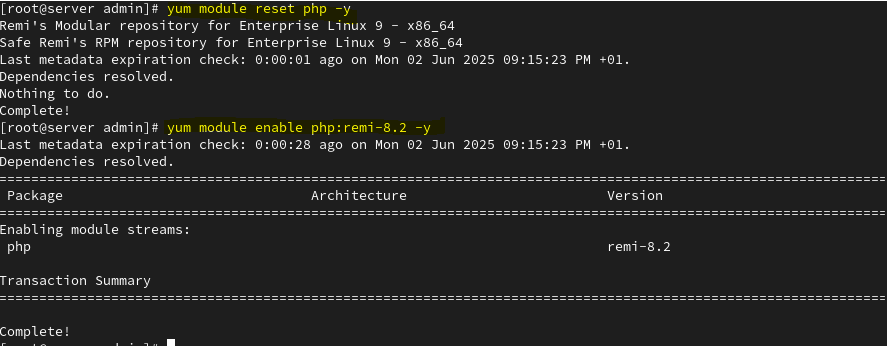
1. start the mariadb/mariadb-server and enable them



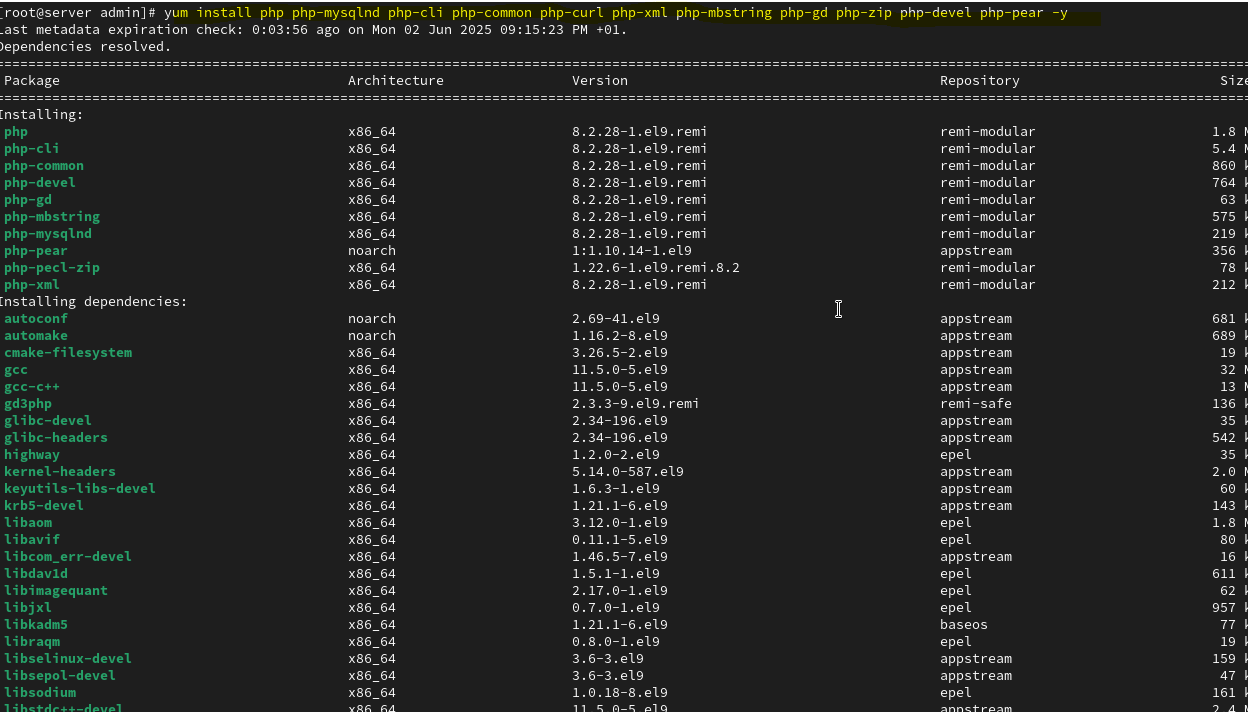
1. install epel repo, remi repo, where we might find last updates of php, because we need to install it



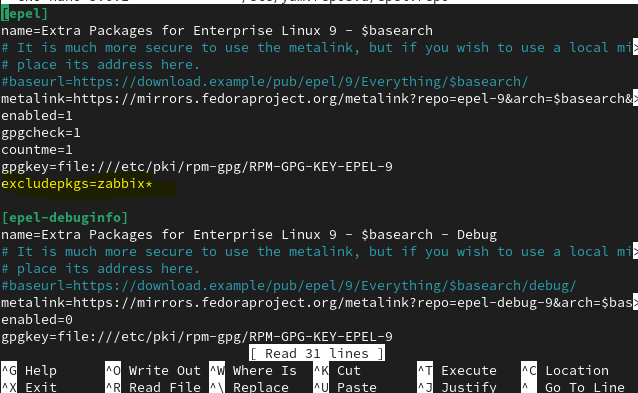
1. lets disable or reset, the now php stream if there is a one, and enable or choose the latest one



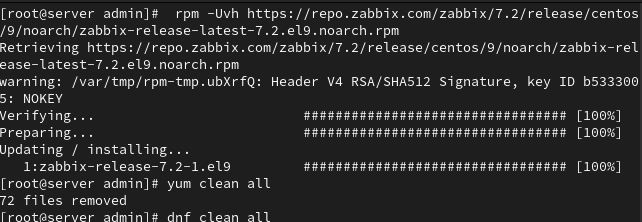
1. lets install php then and some of its extensions, that the Zabbix my depend on



1. Now lets install zabbix, but before lets set exclude it from the epel, /etc/yum.repos.d/epel.repo

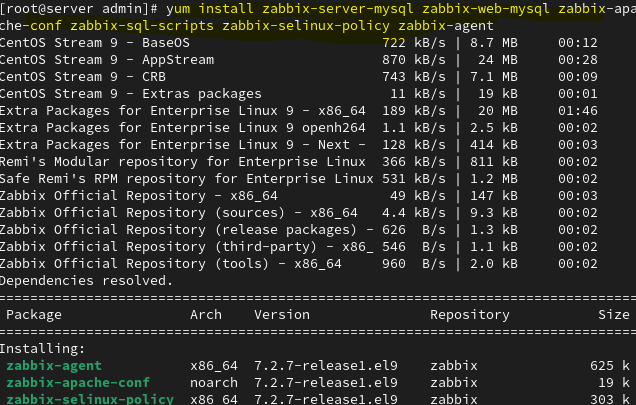


1. Install zabbix repository



1. Install zabbix frontend, agent, server

* Zabbix server, is the server software, Zabbix agent is the agents we install in the monitored devices, and the others are for the front-end functioning



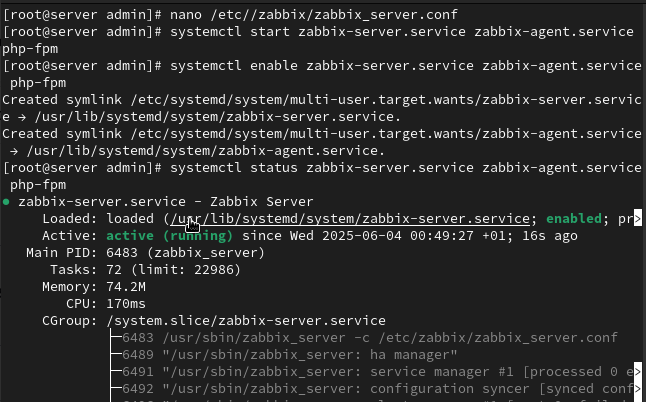
1. Create the database
   * Enter mysql by root and set a password
   * And create the table, with the right characters set
   * Grant all the privillages fo Zabbix database to the Zabbix user
   * Permit to the mysql to create the binary functions/stored function and trigger them, we will benefit from that when want to import Zabbix SQL schema later
     + # mysql -uroot -p  
       password  
       mysql> create database zabbix character set utf8mb4 collate utf8mb4\_bin;  
       mysql> create user zabbix@localhost identified by 'password';  
       mysql> grant all privileges on zabbix.\* to zabbix@localhost;  
       mysql> set global log\_bin\_trust\_function\_creators = 1;  
       mysql> quit;
2. Import the initial schema and data you will be prompted to enter newly created password



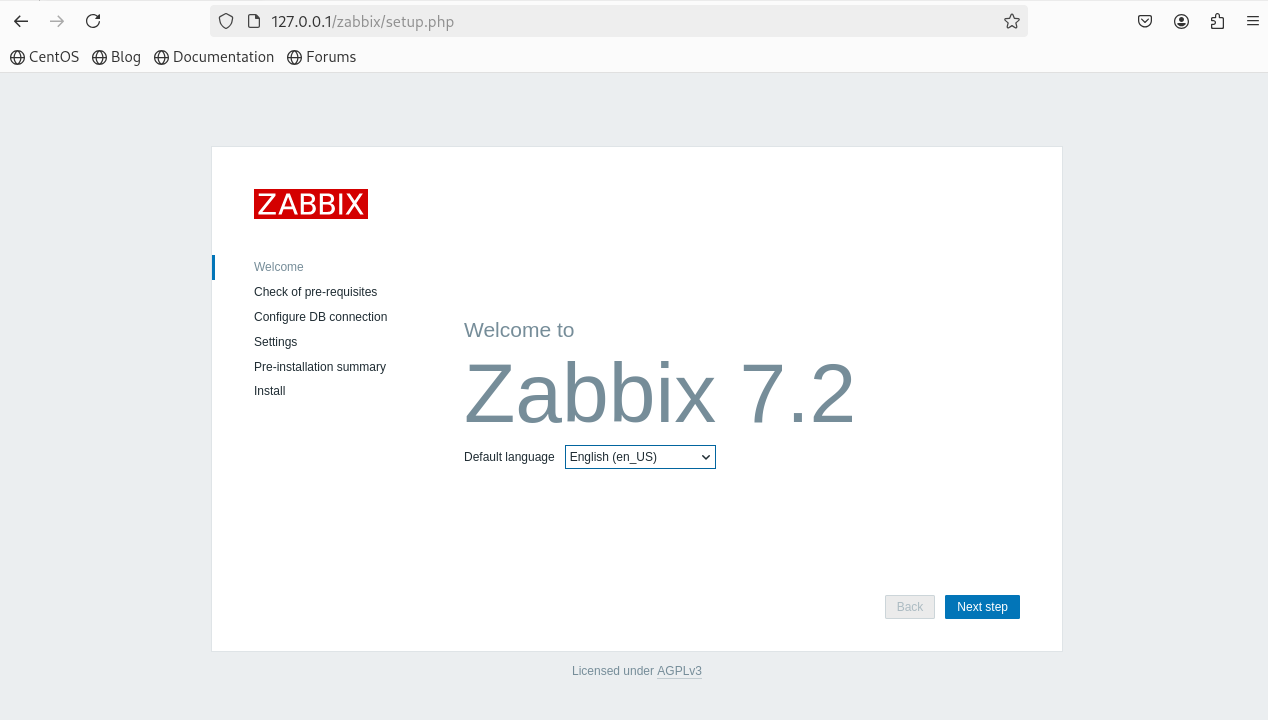
1. Now disable log\_bin\_trust\_function\_creators option after importing database schema.
   * + # mysql -uroot -p  
       password  
       mysql> set global log\_bin\_trust\_function\_creators = 0;  
       mysql> quit;
2. Configure the database Zabbix server settings, in /etc/Zabbix/Zabbix\_server.conf, set the database nale and user for the dabase, and the database password

NOTE: the database name/user name, may be already set in there, just trey to match the values, but uncomment “DBPassword=password” ad set your password

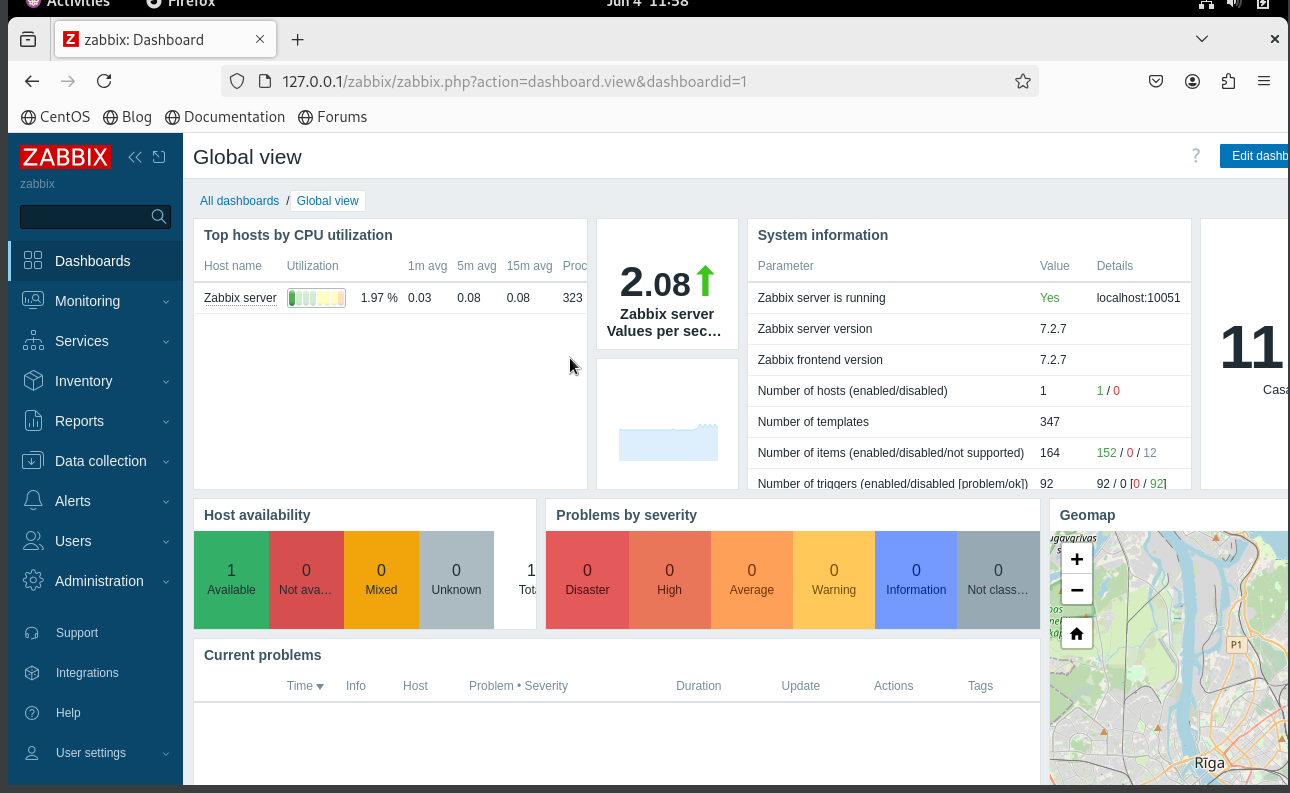
1. Start Zabbix server and agent processes and enable them



1. Enable the zabbix ports on the firewall “10051/10050”.
2. Open Zabbix The default URL for Zabbix UI when using Apache web server is http://host/zabbix



1. Passthrough all those frontend settings and click install, once you see the login page, default credentials are, NOTE: case sensetive
   * + Username: Admin
     + Password: Zabbix



* + Now let the IT operations team, sys admins, or DEVOPS do their jobs on the next “monitoring the infrastructure”