INSTALL ZABBIX

**a. Install Zabbix repository**

# wget<https://repo.zabbix.com/zabbix/6.0/ubuntu/pool/main/z/zabbix-release/zabbix-release_6.0-4+ubuntu22.04_all.deb>

*wget: It is a command-line utility for downloading files from the web.*

*https://repo.zabbix.com/zabbix/6.0/ubuntu/pool/main/z/zabbix-release/zabbix-release\_6.0-4+ubuntu22.04\_all.deb: This is the U*RL of the file you are trying to download. It points to a Debian package file (deb) for the Zabbix repository and contains the necessary information to install and configure Zabbix monitoring software.

When you execute this command, wget will retrieve the specified file (zabbix-release\_6.0-4+ubuntu22.04\_all.deb) and save it to your current working directory.

After downloading the file, you can typically install it using a package manager like dpkg or apt to add the Zabbix repository to your system and gain access to the Zabbix monitoring software and related packages.

# dpkg -i zabbix-release\_6.0-4+ubuntu22.04\_all.deb

dpkg: It is a package management command-line tool used in Debian-based systems, including Ubuntu, to install, remove, and manage software packages.

-i: It is an option for dpkg that specifies that the package file should be installed.

zabbix-release\_6.0-4+ubuntu22.04\_all.deb: This is the name of the Debian package file you want to install.

#apt update

This command is used to update the package information

##### b. Install Zabbix server, frontend, agent

# apt install zabbix-server-mysql zabbix-frontend-php zabbix-apache-conf zabbix-sql-scripts zabbix-agent

apt: It is a command-line package management tool used in Debian-based systems, including Ubuntu, for managing software packages.

install: It is a command for apt that instructs it to install the specified packages.

zabbix-server-mysql: This package contains the Zabbix server component that uses MySQL as the database backend.

zabbix-frontend-php: This package provides the PHP-based frontend for the Zabbix monitoring system.

zabbix-apache-conf: This package includes the Apache configuration files required to host the Zabbix frontend.

zabbix-sql-scripts: This package contains SQL scripts used to set up the necessary database schema and initial data for Zabbix.

zabbix-agent: This package includes the Zabbix agent, which is installed on the monitored hosts to collect data and send it to the Zabbix server.

##### c. Create initial database

# 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;

mysql -uroot -p: This command starts the MySQL command-line client and connects to the MySQL server using the root user. The -p flag prompts you to enter the password interactively.

password: Here, you should enter the password for the root user when prompted. The actual pssword should be provided here.

mysql> create database zabbix character set utf8mb4 collate utf8mb4\_bin;: This command is executed within the MySQL command-line client. It creates a new database named zabbix with the character set utf8mb4 and collation utf8mb4\_bin. These settings ensure that the database can handle Unicode characters properly.

mysql> create user zabbix@localhost identified by 'password';: This command creates a new MySQL user named zabbix and assigns it a password. The zabbix user is configured to connect from the localhost (the same machine where MySQL is running).

mysql> grant all privileges on zabbix.\* to zabbix@localhost;: This command grants all privileges to the zabbix user on the zabbix database. This allows the zabbix user to perform any operation on the zabbix database.

mysql> set global log\_bin\_trust\_function\_creators = 1;: This command sets the log\_bin\_trust\_function\_creators system variable to 1. It enables the creation of stored functions and triggers by non-superusers, such as the zabbix user.

mysql> quit;: This command exits the MySQL command-line client and returns you to the regular command prompt.

# zcat /usr/share/zabbix-sql-scripts/mysql/server.sql.gz | mysql --default-character-set=utf8mb4 -uzabbix -p Zabbix

This command is used to import and execute the Zabbix server database schema and initial data in a MySQL database.

mysql -uroot -p: This command starts the MySQL command-line client and connects to the MySQL server using the root user. The -p flag prompts you to enter the password interactively.

password: Here, you should enter the password for the root user when prompted. The actual password should be provided here.

mysql> set global log\_bin\_trust\_function\_creators = 0;: This command is executed within the MySQL command-line client. It modifies the global system variable log\_bin\_trust\_function\_creators and sets its value to 0. This variable controls whether non-superusers can create or modify stored functions and triggers. By setting it to 0, non-superusers will not be able to create or modify these objects.

mysql> quit;: This command exits the MySQL command-line client and returns you to the regular command prompt.

##### Configure the database for Zabbix server

Edit file /etc/zabbix/zabbix\_server.conf

DBPassword=

##### f. Open Zabbix UI web page

The default URL for Zabbix UI when using Apache web server is http://host/zabbix

INSTALLING ZABBIX AGENT

##### Install Zabbix repository

# wget <https://repo.zabbix.com/zabbix/6.0/ubuntu/pool/main/z/zabbix-release/zabbix-release_6.0-4+ubuntu22.04_all.deb>

wget": The command itself, which initiates the file download.

"https://repo.zabbix.com/zabbix/6.0/ubuntu/pool/main/z/zabbix-release/zabbix-release\_6.0-4+ubuntu22.04\_all.deb": The URL of the file you want to download. In this case, it points to a specific Debian package file for the Zabbix monitoring software, version 6.0-4, designed for Ubuntu 22.04.

# dpkg -i The command "dpkg -i zabbix-release\_6.0-4+ubuntu22.04\_all.deb" is used to install a Debian package file with the name "zabbix-release\_6.0-4+ubuntu22.04\_all.deb". zabbix-release\_6.0-4+ubuntu22.04\_all.deb  
# apt update

This commands updates that package cache

##### Install Zabbix agent

# apt install zabbix-agent

By running "apt install Zabbix-agent," you install the Zabbix agent, which is a component of the Zabbix monitoring system. The agent allows the Zabbix server to collect data from the monitored system, enabling monitoring and management of various metrics such as CPU usage, memory utilization, network activity, and more.

##### Start Zabbix agent process

# systemctl restart zabbix-agent

This command restarts the zabbix agent   
# systemctl enable zabbix-agent

This command is used to enable zabbix agent

Making changes in Zabbix configure files

Hostname

Server active ip address

Start agent two parameters 0 and 3 (0 for active and 3 for passive )

TLSConnect = unencrypted

TLSAccept= unencrypted