

## Lesson 01 Demo 01

### Setting up Basic Infrastructure Monitoring Using Zabbix

**Objective:** To set up basic infrastructure monitoring using the open-source monitoring tool Zabbix for tracking server performance, network devices, and application status across your IT environment

**Tools required:** Linux operating system

**Prerequisites:** Basic understanding of Linux shell commands

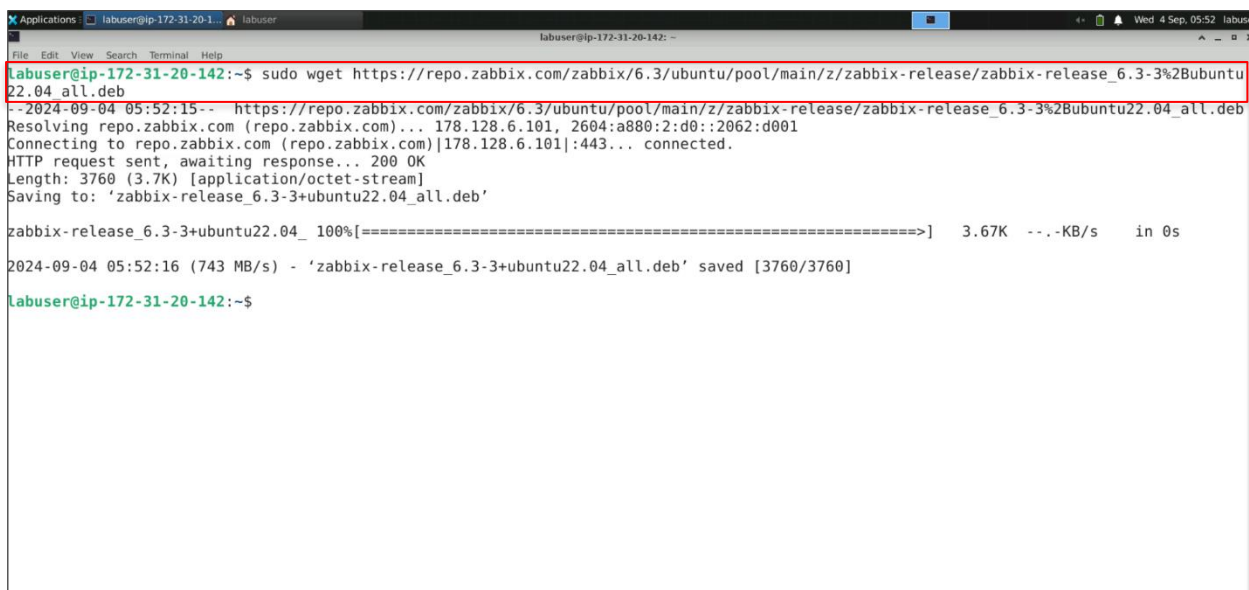
Steps to be followed:

1. Install Zabbix packages
2. Install the database
3. Create an initial database
4. Configure the database for the Zabbix server
5. Start Zabbix and Apache servers
6. Configure and explore the Zabbix Console

#### Step 1: Install Zabbix packages

- 1.1 Open the terminal on the Ubuntu system and run the following command to download the Zabbix repository package:

```
sudo wget https://repo.zabbix.com/zabbix/6.3/ubuntu/pool/main/z/zabbix-release/zabbix-release_6.3-3%2Bubuntu22.04_all.deb
```



```
labuser@ip-172-31-20-142:~$ sudo wget https://repo.zabbix.com/zabbix/6.3/ubuntu/pool/main/z/zabbix-release/zabbix-release_6.3-3%2Bubuntu22.04_all.deb
--2024-09-04 05:52:15-- https://repo.zabbix.com/zabbix/6.3/ubuntu/pool/main/z/zabbix-release/zabbix-release_6.3-3%2Bubuntu22.04_all.deb
Resolving repo.zabbix.com (repo.zabbix.com)... 178.128.6.101, 2604:a880:2:d0::2062:d001
Connecting to repo.zabbix.com (repo.zabbix.com)|178.128.6.101|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 3760 (3.7K) [application/octet-stream]
Saving to: 'zabbix-release_6.3-3+ubuntu22.04_all.deb'

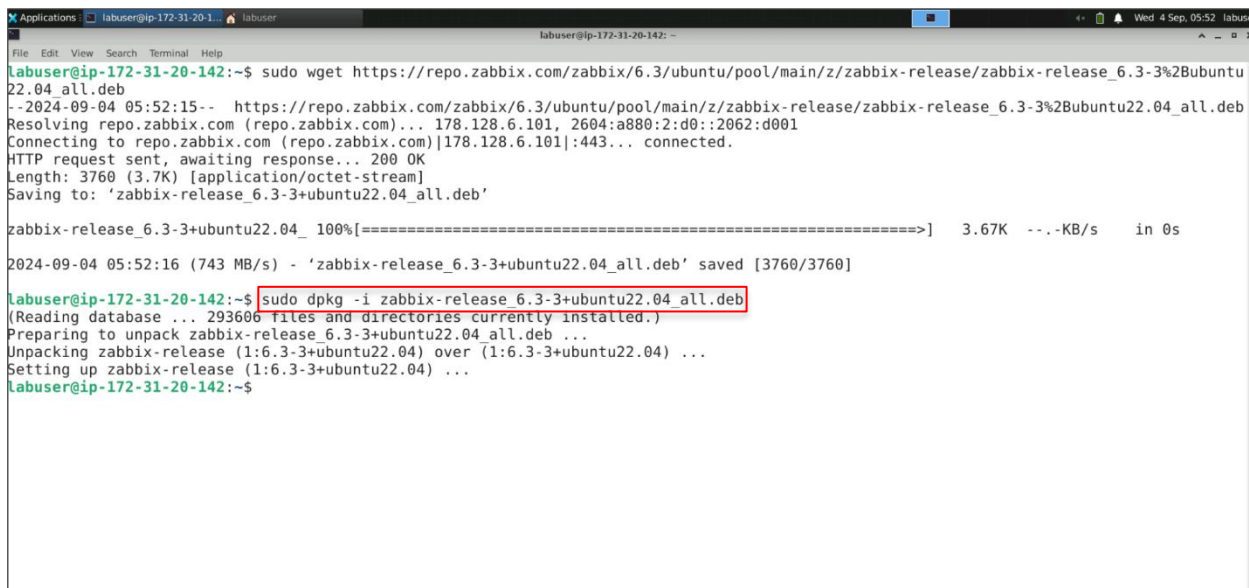
zabbix-release_6.3-3+ubuntu22.04_ 100%[=====] 3.67K --.-KB/s in 0s

2024-09-04 05:52:16 (743 MB/s) - 'zabbix-release_6.3-3+ubuntu22.04_all.deb' saved [3760/3760]

labuser@ip-172-31-20-142:~$
```

- 1.2 Run the following command to install the downloaded package:

```
sudo dpkg -i zabbix-release_6.3-3+ubuntu22.04_all.deb
```



```
labuser@ip-172-31-20-142:~$ sudo dpkg -i zabbix-release_6.3-3+ubuntu22.04_all.deb
(Reading database ... 293606 files and directories currently installed.)
Preparing to unpack zabbix-release_6.3-3+ubuntu22.04_all.deb ...
Unpacking zabbix-release (1:6.3-3+ubuntu22.04) over (1:6.3-3+ubuntu22.04) ...
Setting up zabbix-release (1:6.3-3+ubuntu22.04) ...

labuser@ip-172-31-20-142:~$
```

- 1.3 Update the package lists on the system to recognize the newly added Zabbix repository by executing the following command:

## sudo apt-get update

```
Applications  labuser@ip-172-31-20-142: ~$ sudo dpkg -i zabbix-release_6.3-3+ubuntu22.04_all.deb
(Reading database ... 293606 files and directories currently installed.)
Preparing to unpack zabbix-release_6.3-3+ubuntu22.04_all.deb ...
Unpacking zabbix-release (1:6.3-3+ubuntu22.04) over (1:6.3-3+ubuntu22.04) ...
Setting up zabbix-release (1:6.3-3+ubuntu22.04) ...
labuser@ip-172-31-20-142:~$ sudo apt-get update
Hit:1 https://download.docker.com/linux/ubuntu jammy InRelease
Hit:2 https://apt.grafana.com stable InRelease
Ign:3 https://pkg.jenkins.io/debian-stable binary/ InRelease
Hit:4 https://pkg.jenkins.io/debian-stable binary/ Release
Hit:5 https://artifacts.elastic.co/packages/7.x/apt stable InRelease
Hit:6 https://artifacts.elastic.co/packages/8.x/apt stable InRelease
Hit:7 http://ports.ubuntu.com/ubuntu-ports jammy-security InRelease
Hit:8 http://ap-south-1c.clouds.ports.ubuntu.com/ubuntu-ports jammy InRelease
Hit:10 http://ap-south-1c.clouds.ports.ubuntu.com/ubuntu-ports jammy-updates InRelease
Hit:9 https://prod-cdn.packages.k8s.io/repositories/isv:/kubernetes:/core:/stable:/v1.30/deb InRelease
Hit:11 http://ap-south-1c.clouds.ports.ubuntu.com/ubuntu-ports jammy-backports InRelease
Hit:13 https://ppa.launchpadcontent.net/ansible/ansible/ubuntu jammy InRelease
Hit:14 https://ppa.launchpadcontent.net/pipewire-debian/pipewire-upstream/ubuntu jammy InRelease
Hit:15 https://repo.zabbix.com/zabbix-agent2-plugins/1/ubuntu jammy InRelease
Hit:16 https://repo.zabbix.com/zabbix/6.3/ubuntu jammy InRelease
Reading package lists... Done
W: https://download.docker.com/linux/ubuntu/dists/jammy/InRelease: Key is stored in legacy trusted.gpg keyring (/etc/apt/trusted.gpg), see the DEPRECATION section in apt-key(8) for details.
W: https://artifacts.elastic.co/packages/8.x/apt/dists/stable/InRelease: Key is stored in legacy trusted.gpg keyring (/etc/apt/trusted.gpg), see the DEPRECATION section in apt-key(8) for details.
N: Skipping acquire of configured file 'main/binary-arm64/Packages' as repository 'https://repo.zabbix.com/zabbix/6.3/ubuntu jammy InRelease' doesn't support architecture 'arm64'
labuser@ip-172-31-20-142:~$
```

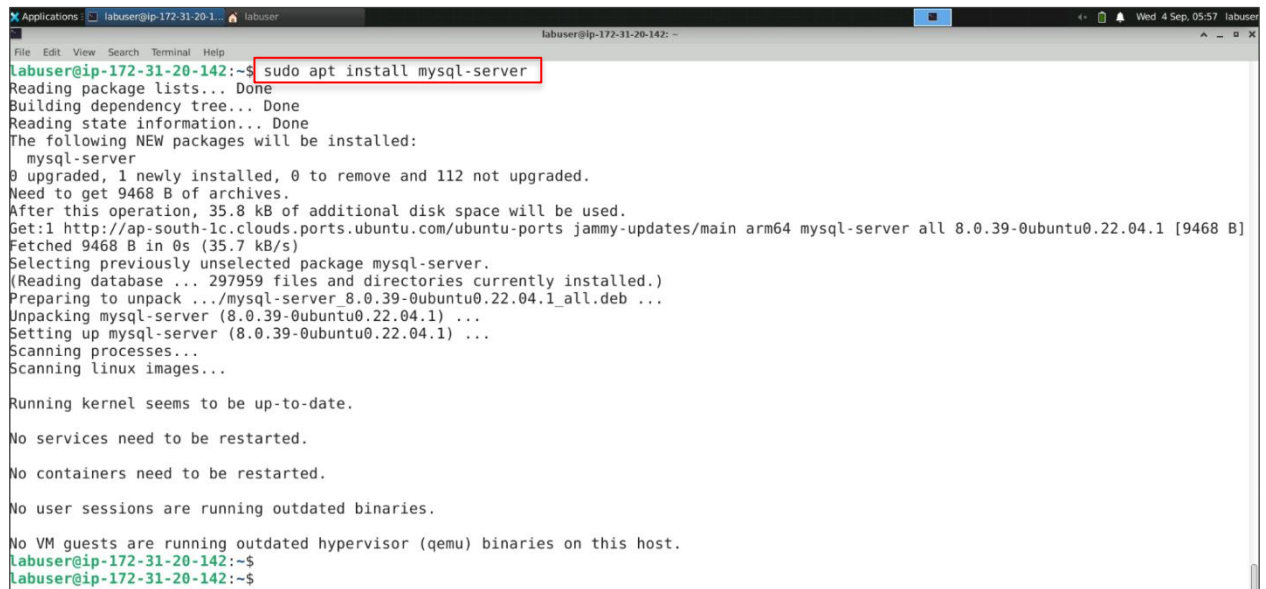
1.4 Execute the following command to install the Zabbix server and its related components:

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

```
Applications  labuser@ip-172-31-20-142: ~$ sudo apt install zabbix-server-mysql zabbix-frontend-php zabbix-apache-conf zabbix-sql-scripts zabbix-agent
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  apache2 apache2-bin apache2-data apache2-utils default-mysql-server fonts-dejavu fping libapache2-mod-php libapache2-mod-php8.1
  libapr1 libaprutil1 libaprutil1-dbd-sqlite3 libaprutil1-ldap libblas3 libbcgi-fast-perl libbcgi-pm-perl libevent-2.1-7
  libevent-pthreads-2.1-7 libfcgi-bin libfcgi-perl libfcgi0ldbl libhtml-template-perl liblinear4 liblua5.3-0 libmecab2
  libmysqlclient21 libodbc1 libodbc2 libodbcrc2 libonig5 libopenipmi0 libprotobuf-lite23 libssh2-1 lua-lpeg mailcap mecab-ipadic
  mecab-ipadic-utf8 mecab-utils mime-support mysql-client-8.0 mysql-client-core-8.0 mysql-common mysql-server-8.0
  mysql-server-core-8.0 nmap nmap-common php-bcmath php-common php-gd php-ldap php-mbstring php-mysql php-xml php8.1-bcmath php8.1-cli
  php8.1-common php8.1-gd php8.1-ldap php8.1-mbstring php8.1-mysql php8.1-openssl php8.1-readline php8.1-xml snmpd traceroute
Suggested packages:
  apache2-doc apache2-suexec-pristine | apache2-suexec-custom php-pear libipc-sharedcache-perl liblinear-tools liblinear-dev
  odbc-postgresql tdsodbc mailx tinycat ncat ndiff zenmap snmptrapd zabbix-nginx-conf snmp-mibs-downloader
The following NEW packages will be installed:
  apache2 apache2-bin apache2-data apache2-utils default-mysql-server fonts-dejavu fping libapache2-mod-php libapache2-mod-php8.1
  libapr1 libaprutil1 libaprutil1-dbd-sqlite3 libaprutil1-ldap libblas3 libbcgi-fast-perl libbcgi-pm-perl libevent-2.1-7
  libevent-pthreads-2.1-7 libfcgi-bin libfcgi-perl libfcgi0ldbl libhtml-template-perl liblinear4 liblua5.3-0 libmecab2
  libmysqlclient21 libodbc1 libodbc2 libodbcrc2 libonig5 libopenipmi0 libprotobuf-lite23 libssh2-1 lua-lpeg mailcap mecab-ipadic
  mecab-ipadic-utf8 mecab-utils mime-support mysql-client-8.0 mysql-client-core-8.0 mysql-common mysql-server-8.0
  mysql-server-core-8.0 nmap nmap-common php-bcmath php-common php-gd php-ldap php-mbstring php-mysql php-xml php8.1-bcmath php8.1-cli
  php8.1-common php8.1-gd php8.1-ldap php8.1-mbstring php8.1-mysql php8.1-openssl php8.1-readline php8.1-xml snmpd traceroute
  zabbix-agent zabbix-apache-conf zabbix-frontend-php zabbix-server-mysql zabbix-sql-scripts
0 upgraded, 70 newly installed, 0 to remove and 112 not upgraded.
Need to get 64.1 MB of archives.
After this operation, 363 MB of additional disk space will be used.
Do you want to continue? [Y/n] Y
Get:1 http://ap-south-1c.clouds.ports.ubuntu.com/ubuntu-ports jammy-updates/main arm64 libapr1 arm64 1.7.0-8ubuntu0.22.04.1 [106 kB]
Get:2 http://ap-south-1c.clouds.ports.ubuntu.com/ubuntu-ports jammy-updates/main arm64 libaprutil1 arm64 1.6.1-5ubuntu4.22.04.2 [93.6 kB]
```

## Step 2: Install the database

2.1 Run the following command to install the MySQL server package:  
**sudo apt install mysql-server**

A terminal window titled 'labuser@ip-172-31-20-142: ~' showing the command 'sudo apt install mysql-server' being executed. The output shows the package being installed, disk space requirements, and the successful completion of the installation. The command is highlighted with a red box.

```
labuser@ip-172-31-20-142:~$ sudo apt install mysql-server
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following NEW packages will be installed:
  mysql-server
0 upgraded, 1 newly installed, 0 to remove and 112 not upgraded.
Need to get 9468 B of archives.
After this operation, 35.8 kB of additional disk space will be used.
Get:1 http://ap-south-1c.clouds.ports.ubuntu.com/ubuntu-ports jammy-updates/main arm64 mysql-server all 8.0.39-0ubuntu0.22.04.1 [9468 B]
Fetched 9468 B in 0s (35.7 kB/s)
Selecting previously unselected package mysql-server.
(Reading database ... 297959 files and directories currently installed.)
Preparing to unpack .../mysql-server_8.0.39-0ubuntu0.22.04.1_all.deb ...
Unpacking mysql-server (8.0.39-0ubuntu0.22.04.1) ...
Setting up mysql-server (8.0.39-0ubuntu0.22.04.1) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

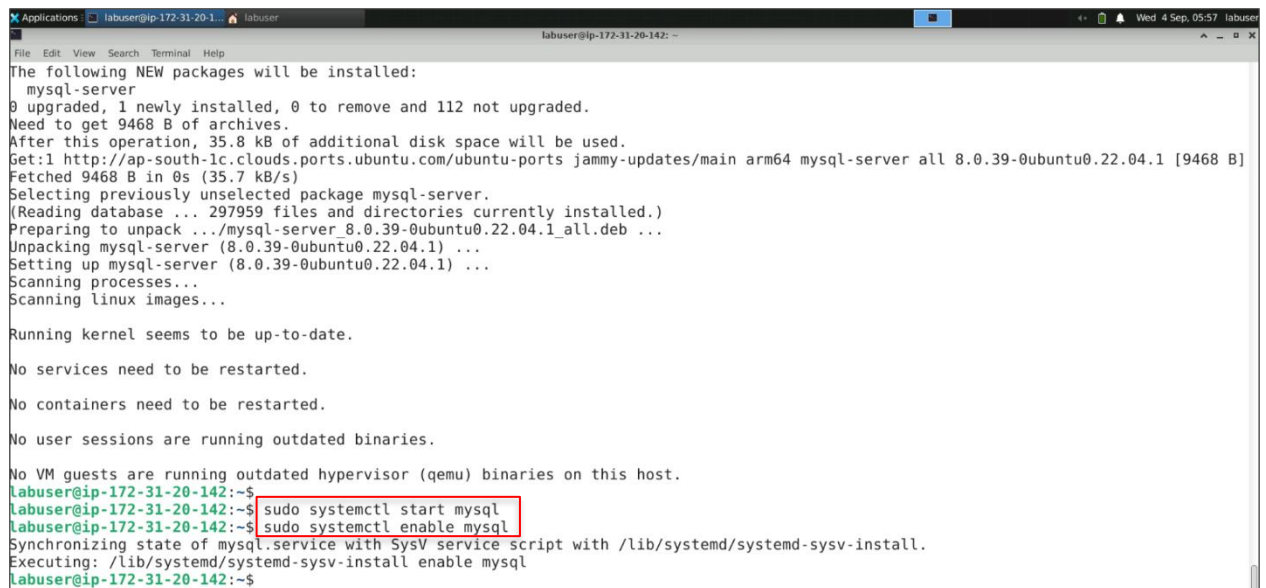
No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
labuser@ip-172-31-20-142:~$
labuser@ip-172-31-20-142:~$
```

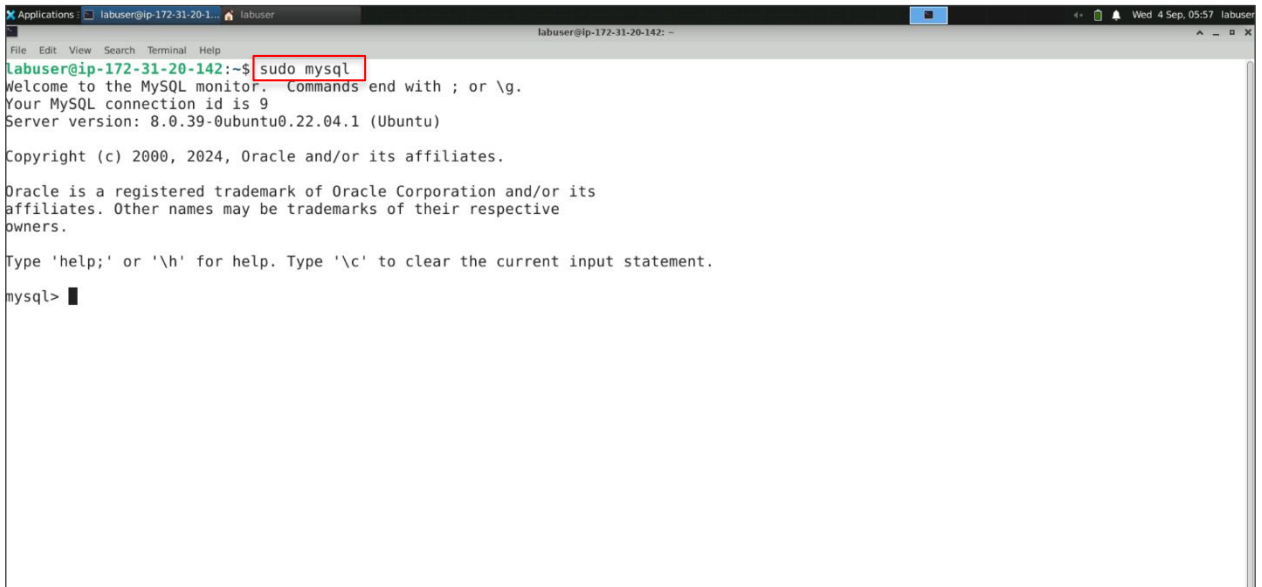
2.2 Execute the following commands to start and enable the MySQL services:  
**sudo systemctl start mysql**  
**sudo systemctl enable mysql**

A terminal window titled 'labuser@ip-172-31-20-142: ~' showing the commands 'sudo systemctl start mysql' and 'sudo systemctl enable mysql' being executed. The output shows the service being started and enabled. The commands are highlighted with red boxes.

```
labuser@ip-172-31-20-142:~$ sudo systemctl start mysql
labuser@ip-172-31-20-142:~$ sudo systemctl enable mysql
Synchronizing state of mysql.service with SysV service script with /lib/systemd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable mysql
labuser@ip-172-31-20-142:~$
```

## Step 3: Create an initial database

3.1 Run the following command in the terminal to switch to the MySQL database:  
**sudo mysql**



```
Applications labuser@ip-172-31-20-1... labuser
labuser@ip-172-31-20-142:~$ sudo mysql
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 9
Server version: 8.0.39-0ubuntu0.22.04.1 (Ubuntu)

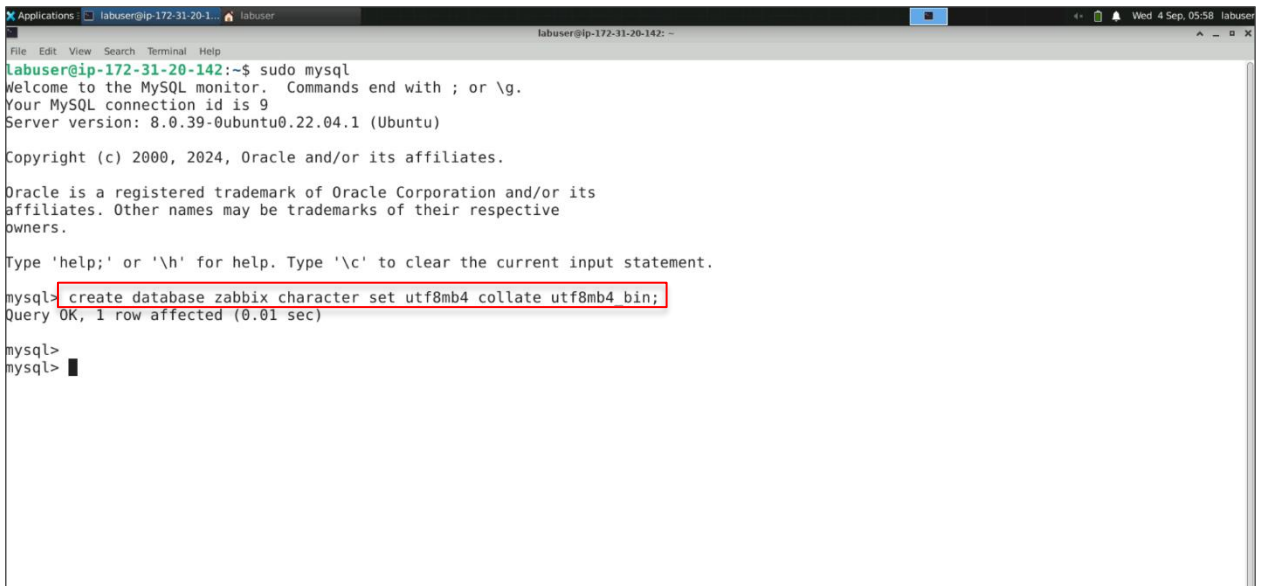
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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql>
```

3.2 Execute the following command to create a new database named Zabbix with the **utf8mb4** character set and **utf8mb4\_bin** collation:  
**create database zabbix character set utf8mb4 collate utf8mb4\_bin;**



```
Applications labuser@ip-172-31-20-1... labuser
labuser@ip-172-31-20-142:~$ sudo mysql
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 9
Server version: 8.0.39-0ubuntu0.22.04.1 (Ubuntu)

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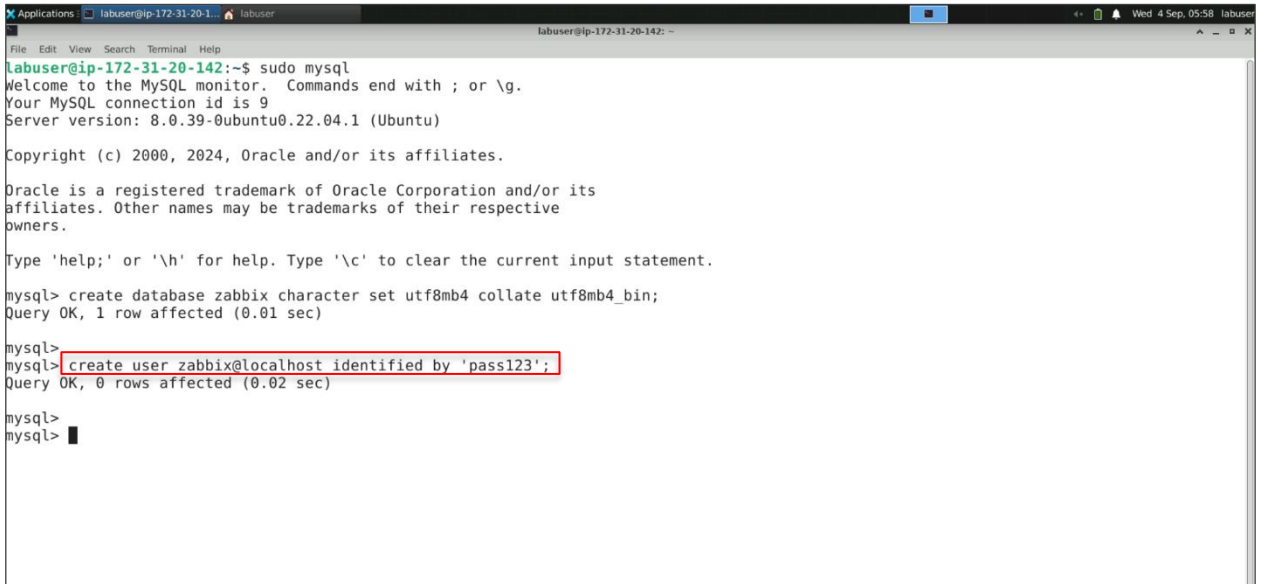
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> create database zabbix character set utf8mb4 collate utf8mb4_bin;
Query OK, 1 row affected (0.01 sec)

mysql>
mysql>
```

3.3 Create a new MySQL user named **zabbix** with access only from localhost and set the password to **pass123** using the following command:

create user zabbix@localhost identified by 'pass123';

A terminal window titled 'Applications' with a tab for 'labuser@ip-172-31-20-142'. The terminal shows a MySQL session. The user 'labuser' runs 'sudo mysql'. The MySQL prompt 'mysql>' is shown. The user enters 'create database zabbix character set utf8mb4 collate utf8mb4\_bin;'. The prompt is shown again. The user enters 'create user zabbix@localhost identified by 'pass123';'. The prompt is shown again. The user enters 'mysql>' and then 'mysql>' again.

```
labuser@ip-172-31-20-142:~$ sudo mysql
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 9
Server version: 8.0.39-0ubuntu0.22.04.1 (Ubuntu)

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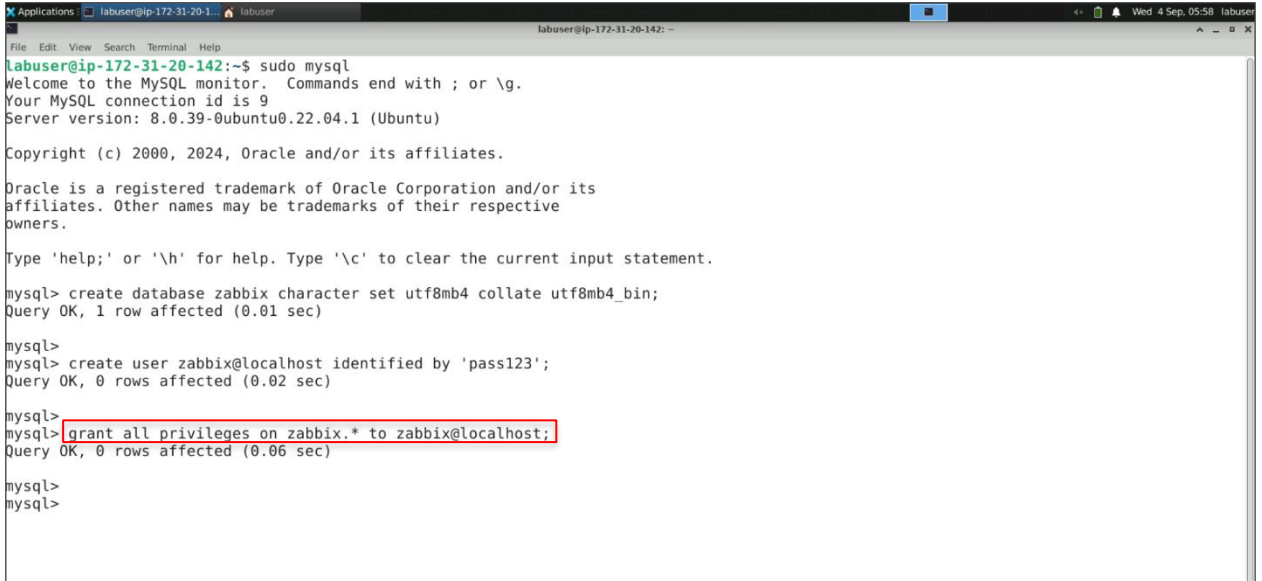
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> create database zabbix character set utf8mb4 collate utf8mb4_bin;
Query OK, 1 row affected (0.01 sec)

mysql> create user zabbix@localhost identified by 'pass123';
Query OK, 0 rows affected (0.02 sec)

mysql>
mysql>
```

3.4 Run the following command to grant all privileges on the **Zabbix** database to the **Zabbix** user:  
**grant all privileges on zabbix.\* to zabbix@localhost;**

A terminal window titled 'Applications' with a tab for 'labuser@ip-172-31-20-142'. The terminal shows a MySQL session. The user 'labuser' runs 'sudo mysql'. The MySQL prompt 'mysql>' is shown. The user enters 'create database zabbix character set utf8mb4 collate utf8mb4\_bin;'. The prompt is shown again. The user enters 'create user zabbix@localhost identified by 'pass123;'. The prompt is shown again. The user enters 'grant all privileges on zabbix.\* to zabbix@localhost;'. The prompt is shown again. The user enters 'mysql>' and then 'mysql>' again.

```
labuser@ip-172-31-20-142:~$ sudo mysql
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 9
Server version: 8.0.39-0ubuntu0.22.04.1 (Ubuntu)

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> create database zabbix character set utf8mb4 collate utf8mb4_bin;
Query OK, 1 row affected (0.01 sec)

mysql> create user zabbix@localhost identified by 'pass123';
Query OK, 0 rows affected (0.02 sec)

mysql> grant all privileges on zabbix.* to zabbix@localhost;
Query OK, 0 rows affected (0.06 sec)

mysql>
mysql>
```

3.5 Run the following command to set a global MySQL system variable for allowing function creators to write binary logs, then type **quit;** to exit the MySQL as shown:  
**set global log\_bin\_trust\_function\_creators = 1;**



```
Applications  labuser@ip-172-31-20-1  labuser
labuser@ip-172-31-20-142: ~
File Edit View Search Terminal Help
Your MySQL connection id is 9
Server version: 8.0.39-0ubuntu0.22.04.1 (Ubuntu)

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> create database zabbix character set utf8mb4 collate utf8mb4_bin;
Query OK, 1 row affected (0.01 sec)

mysql>
mysql> create user zabbix@localhost identified by 'pass123';
Query OK, 0 rows affected (0.02 sec)

mysql>
mysql> grant all privileges on zabbix.* to zabbix@localhost;
Query OK, 0 rows affected (0.06 sec)

mysql>
mysql> set global log_bin_trust_function_creators = 1;
Query OK, 0 rows affected, 1 warning (0.00 sec)

mysql> quit;
Bye
labuser@ip-172-31-20-142:~$
labuser@ip-172-31-20-142:~$
```

## Step 4: Configure the database for the Zabbix server

- 4.1 Run the following command to import the Zabbix database, and then provide the password created in **Step 3.3 (pass123)**:

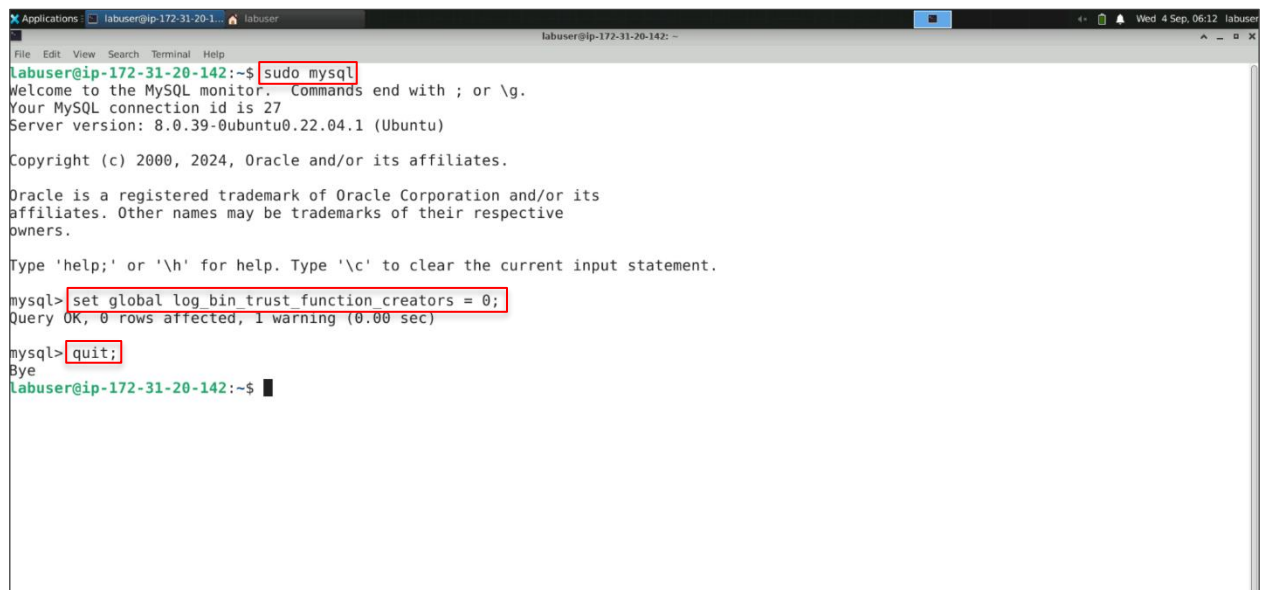
```
sudo zcat /usr/share/zabbix-sql-scripts/mysql/server.sql.gz | mysql --default-character-set=utf8mb4 -uzabbix -p zabbix
```

```
Applications  labuser@ip-172-31-20-1  labuser
labuser@ip-172-31-20-142: ~
File Edit View Search Terminal Help
labuser@ip-172-31-20-142:~$ sudo zcat /usr/share/zabbix-sql-scripts/mysql/server.sql.gz | mysql --default-character-set=utf8mb4 -uzabbix
-p zabbix
Enter password:
labuser@ip-172-31-20-142:~$
```

It might take some time to execute this command.

- 4.2 Execute the following commands for switching to MySQL in the terminal, reset the variable, and then type **quit;** to exit MySQL as shown:

```
sudo mysql
set global log_bin_trust_function_creators = 0;
```



```
Applications  labuser@ip-172-31-20-1...  labuser
labuser@ip-172-31-20-142:~$ sudo mysql
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 27
Server version: 8.0.39-0ubuntu0.22.04.1 (Ubuntu)

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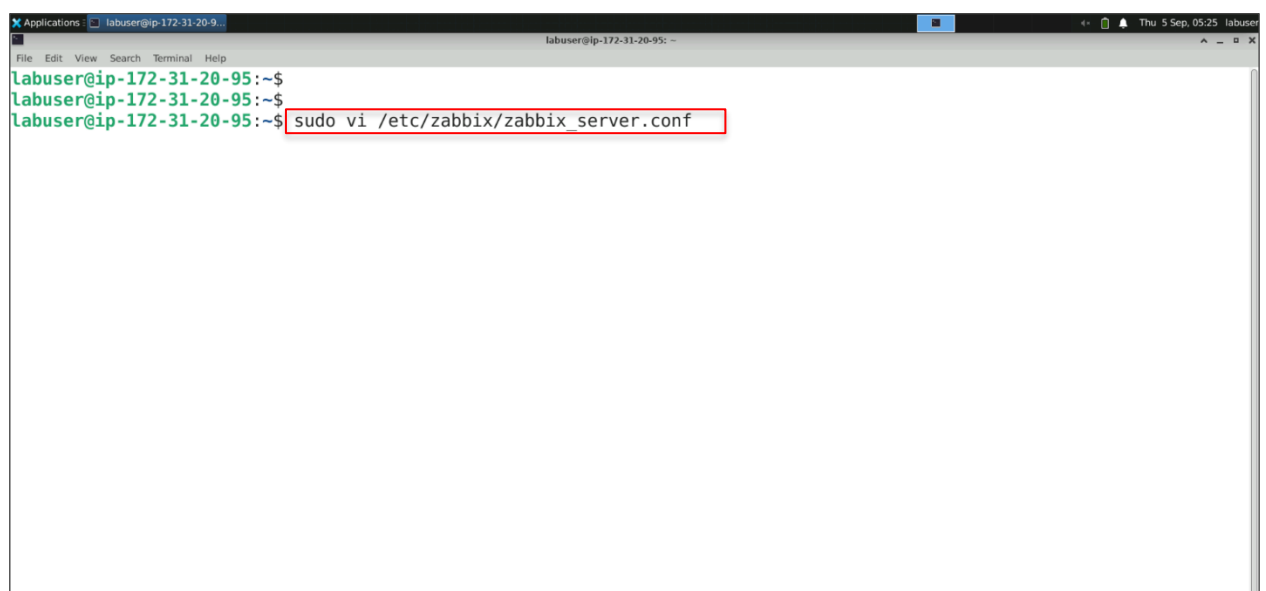
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> set global log_bin_trust_function_creators = 0;
Query OK, 0 rows affected, 1 warning (0.00 sec)

mysql> quit;
Bye
labuser@ip-172-31-20-142:~$
```

4.3 Run the following command in the terminal to open the Zabbix server configuration file in the vi editor for modification:

**sudo vi /etc/zabbix/zabbix\_server.conf**



```
Applications  labuser@ip-172-31-20-9...  labuser
labuser@ip-172-31-20-95:~$
labuser@ip-172-31-20-95:~$
labuser@ip-172-31-20-95:~$ sudo vi /etc/zabbix/zabbix_server.conf
```

You will see the following interface:



```
Applications: labuser@ip-172-31-20-1 labuser
labuser@ip-172-31-20-142: ~
File Edit View Search Terminal Help
This is a configuration file for Zabbix server daemon
# To get more information about Zabbix, visit http://www.zabbix.com

##### GENERAL PARAMETERS #####

## Option: ListenPort
# Listen port for trapper.
#
# Mandatory: no
# Range: 1024-32767
# Default:
# ListenPort=10051

## Option: SourceIP
# Source IP address for outgoing connections.
#
# Mandatory: no
# Default:
# SourceIP=

## Option: LogType
# Specifies where log messages are written to:
# system - syslog
# file - file specified with LogFile parameter
# console - standard output
#
# Mandatory: no
# Default:
# LogType=file
"/etc/zabbix/zabbix_server.conf" 867L, 22121B 1,1 Top
```

4.4 Press **I** to enter insert mode, find the DBPassword parameter, uncomment it, and set it to the MySQL password created earlier in **Step 3.3 (pass123)** as shown below:

```
Applications: labuser@ip-172-31-20-1 labuser
labuser@ip-172-31-20-142: ~
File Edit View Search Terminal Help
# DBSchema=

## Option: DBUser
# Database user.
#
# Mandatory: no
# Default:
# DBUser=

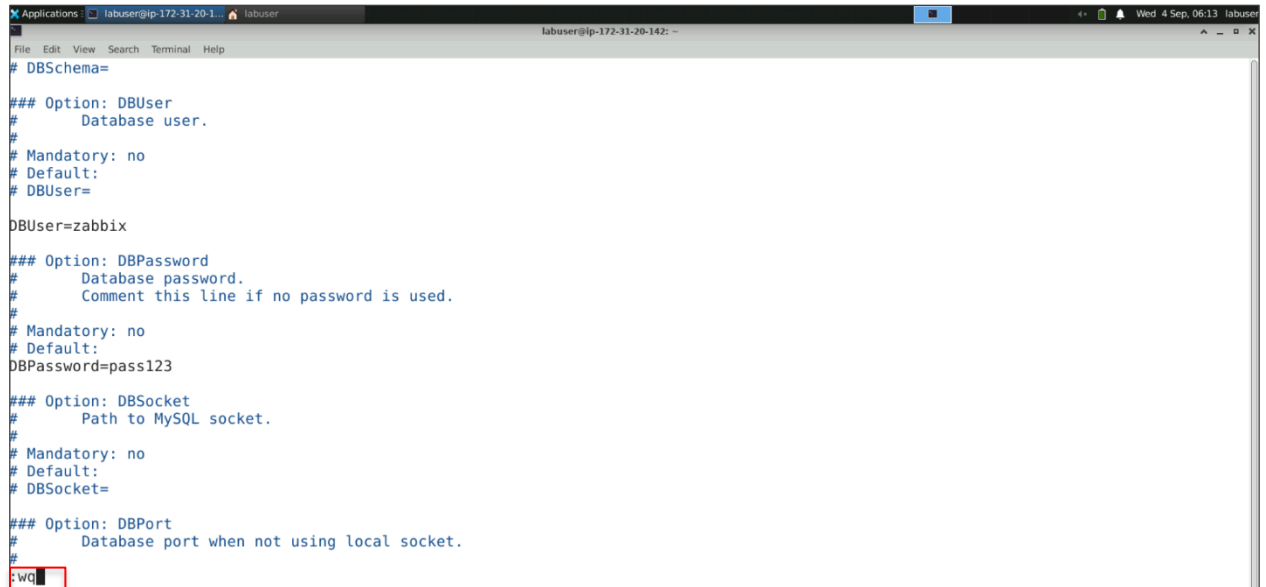
DBUser=zabbix

## Option: DBPassword
# Database password.
# Comment this line if no password is used.
#
# Mandatory: no
# Default:
DBPassword=pass123

## Option: DBSocket
# Path to MySQL socket.
#
# Mandatory: no
# Default:
# DBSocket=

## Option: DBPort
# Database port when not using local socket.
#
-- INSERT -- 119,19 12%
```

4.5 Once the changes are made, press **Esc** to exit insert mode, and then type **:wq** to save and exit the file



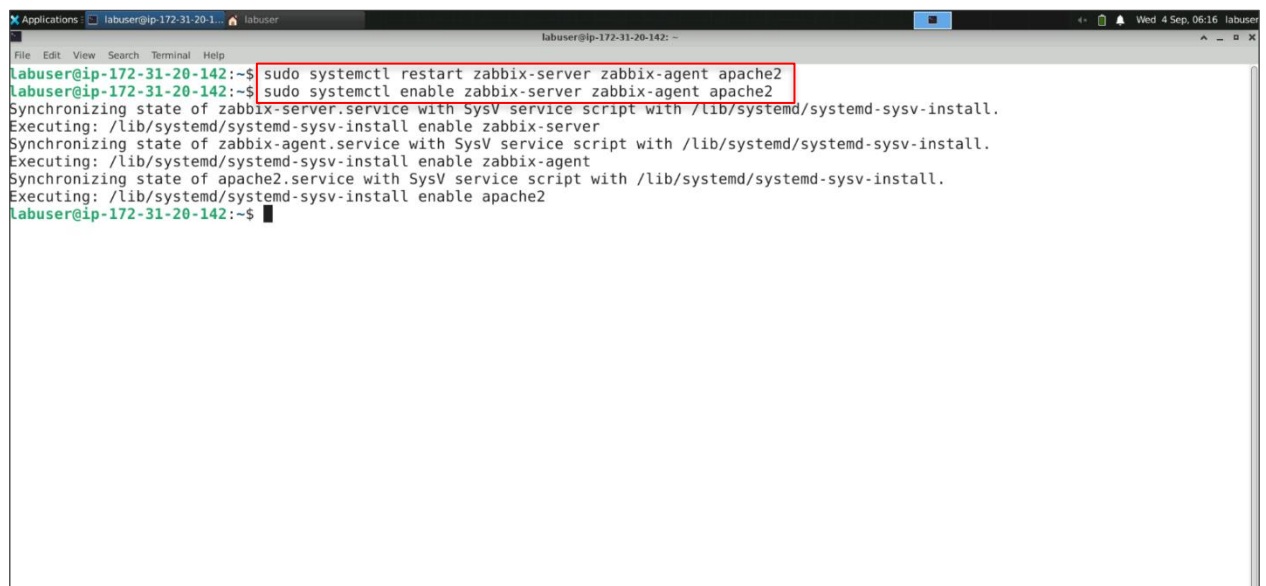
```
Applications: labuser@ip-172-31-20-1 labuser
labuser@ip-172-31-20-142: ~
File Edit View Search Terminal Help
# DBSchema=
### Option: DBUser
# Database user.
#
# Mandatory: no
# Default:
# DBUser=
DBUser=zabbix
### Option: DBPassword
# Database password.
# Comment this line if no password is used.
#
# Mandatory: no
# Default:
DBPassword=pass123
### Option: DBSocket
# Path to MySQL socket.
#
# Mandatory: no
# Default:
# DBSocket=
### Option: DBPort
# Database port when not using local socket.
#
:~$
```

## Step 5: Start Zabbix and Apache servers

5.1 Run the following commands to restart and enable the Zabbix server, Zabbix agent, and Apache services to apply configuration changes:

```
sudo systemctl restart zabbix-server zabbix-agent apache2
```

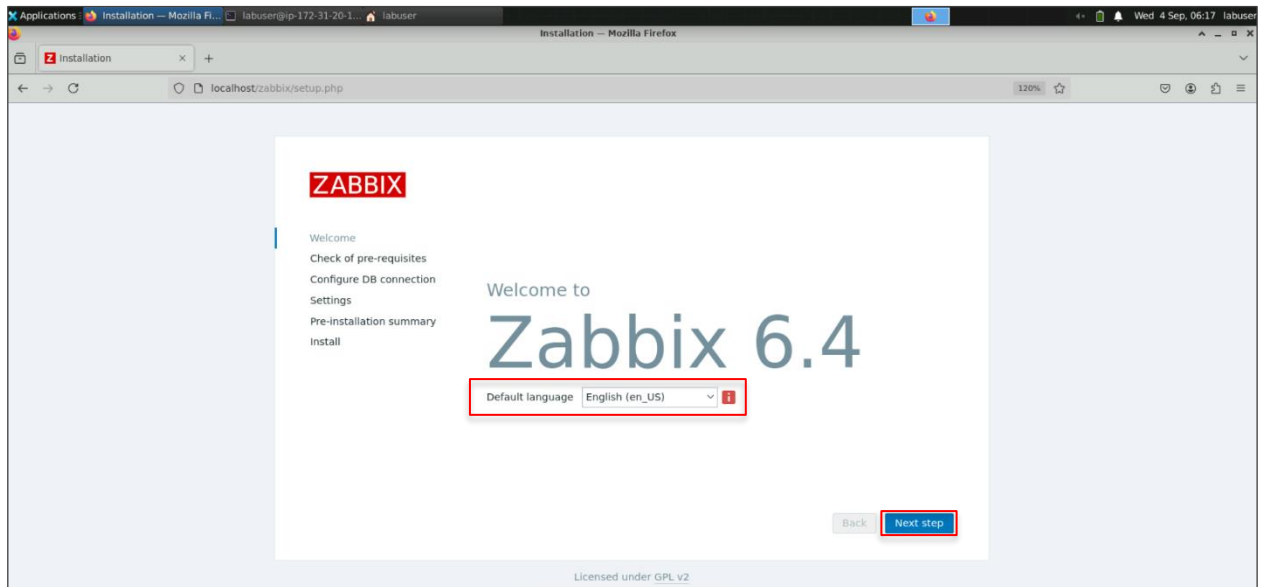
```
sudo systemctl enable zabbix-server zabbix-agent apache2
```



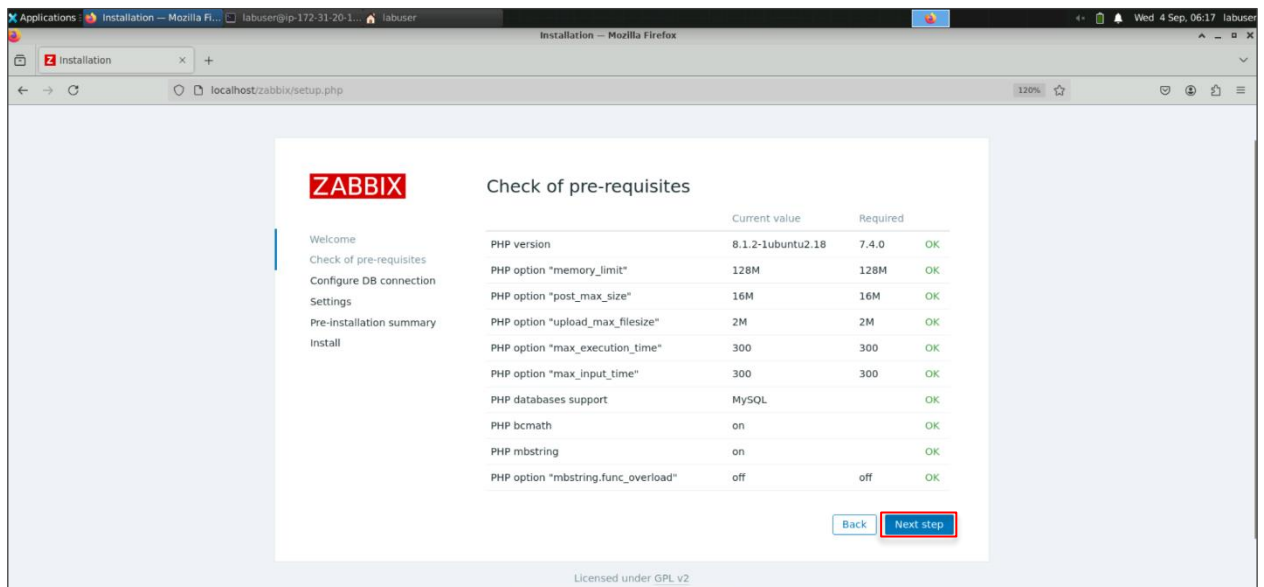
```
Applications: labuser@ip-172-31-20-1 labuser
labuser@ip-172-31-20-142: ~
File Edit View Search Terminal Help
labuser@ip-172-31-20-142:~$ sudo systemctl restart zabbix-server zabbix-agent apache2
labuser@ip-172-31-20-142:~$ sudo systemctl enable zabbix-server zabbix-agent apache2
Synchronizing state of zabbix-server.service with SysV service script with /lib/systemd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable zabbix-server
Synchronizing state of zabbix-agent.service with SysV service script with /lib/systemd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable zabbix-agent
Synchronizing state of apache2.service with SysV service script with /lib/systemd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable apache2
labuser@ip-172-31-20-142:~$
```

## Step 6: Configure and explore the Zabbix Console

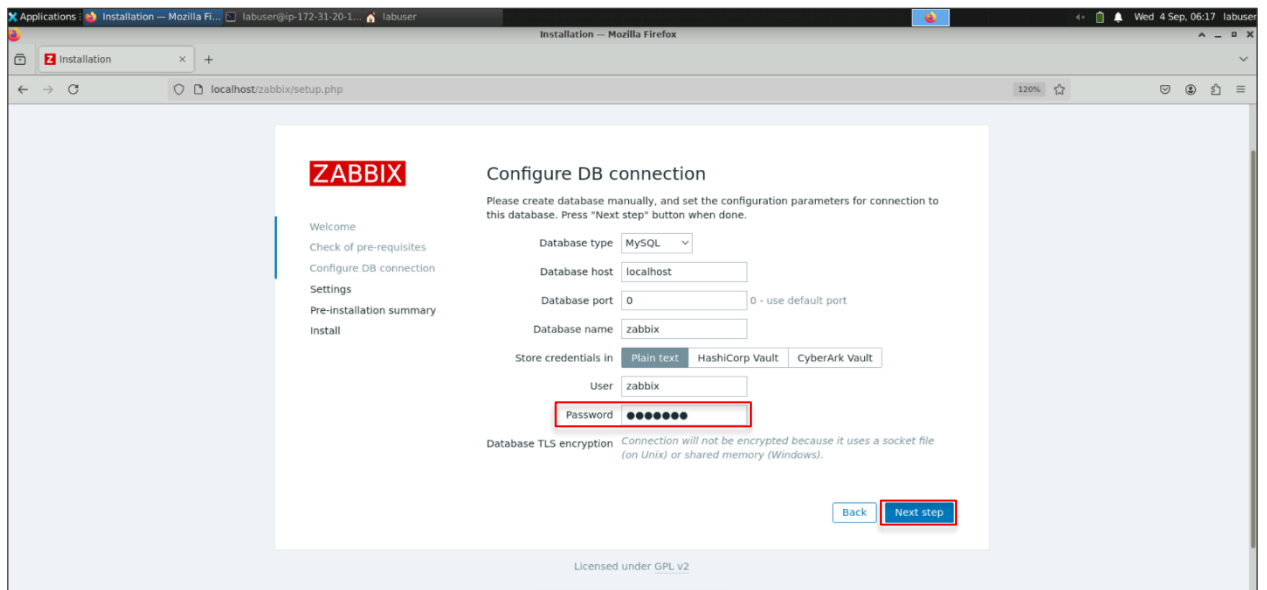
6.1 Navigate to the browser and enter the URL **http://localhost/zabbix** or **http://<server-public-ip>/zabbix** to access the Zabbix console. The Zabbix setup page appears; select the language and then click on **Next step** as shown:



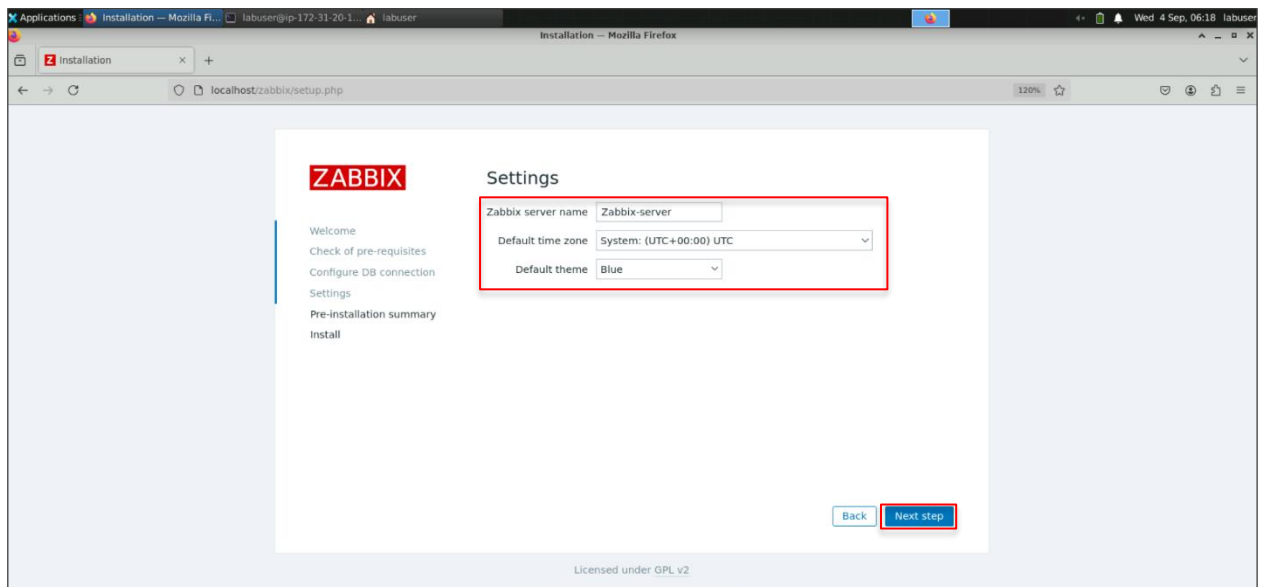
6.2 Ensure that all software prerequisites are met, then click on **Next step**



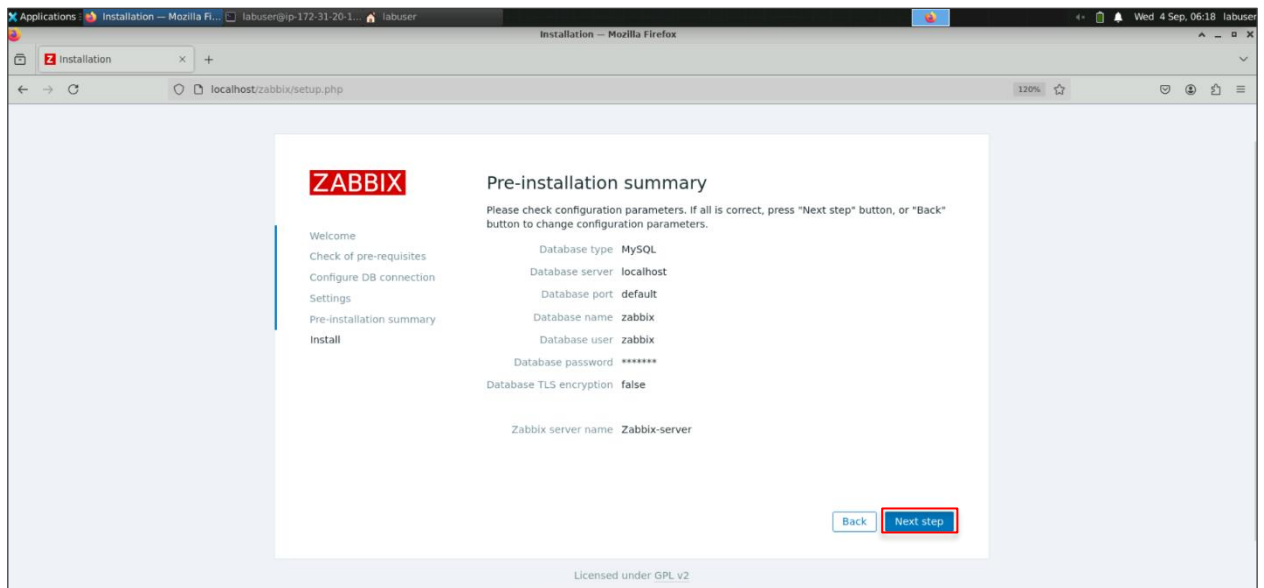
6.3 Configure the database connection by providing the Zabbix user and password created in Step 3, then click on **Next step**



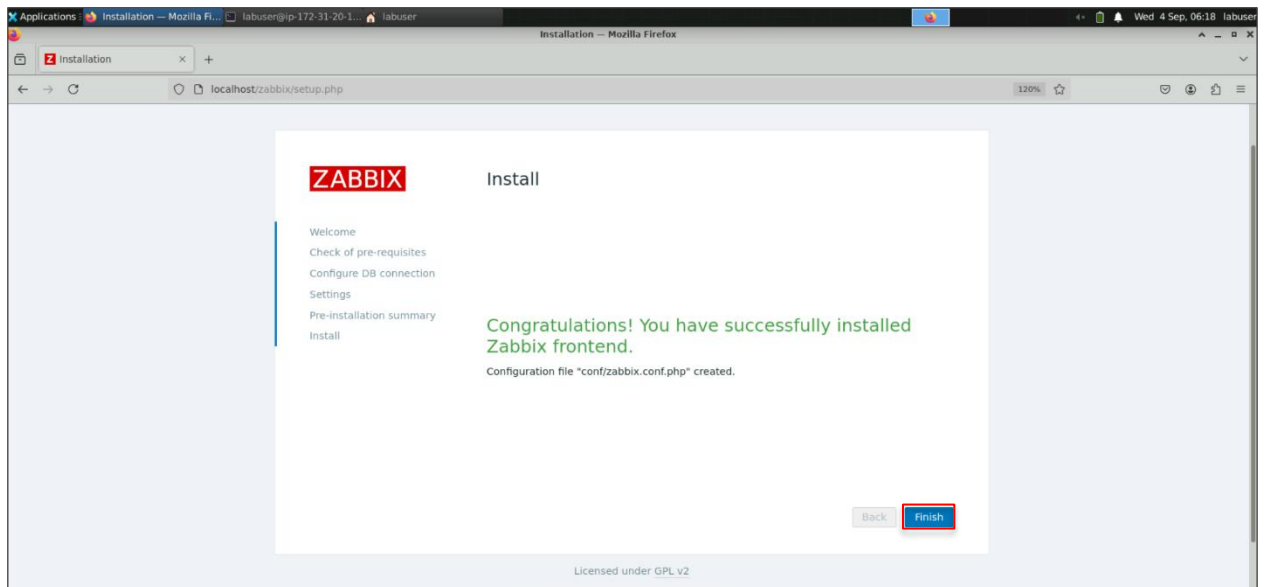
6.4 Enter the Zabbix server name, set the default time zone, select a theme for the frontend, and then click on **Next step** as shown



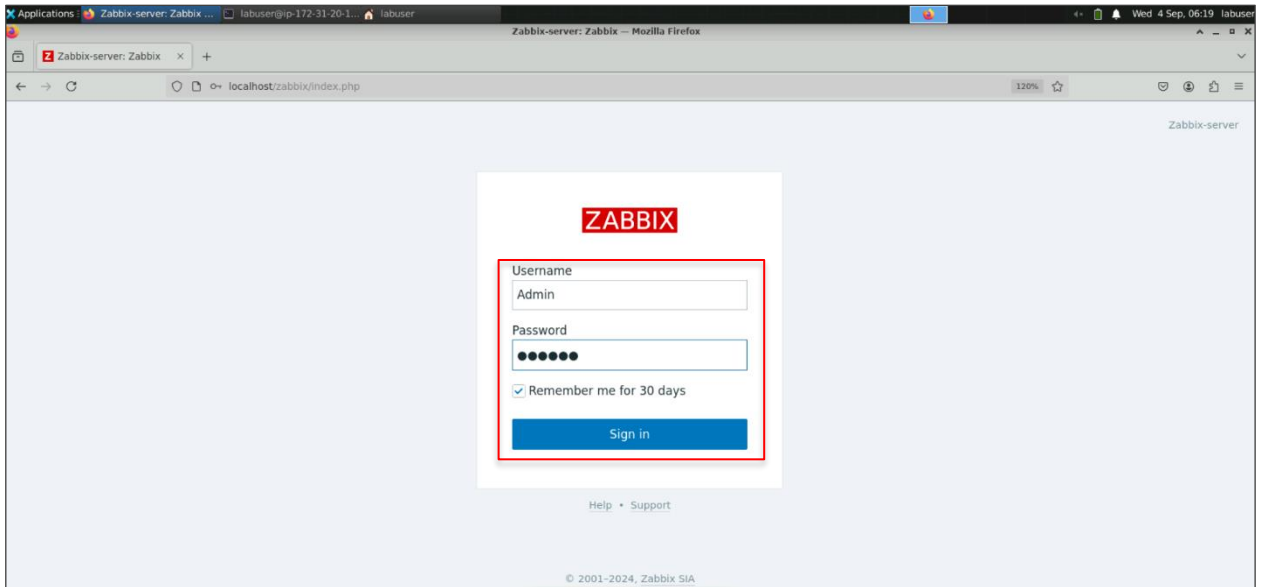
6.5 Review the summary of settings and then click on **Next step**:



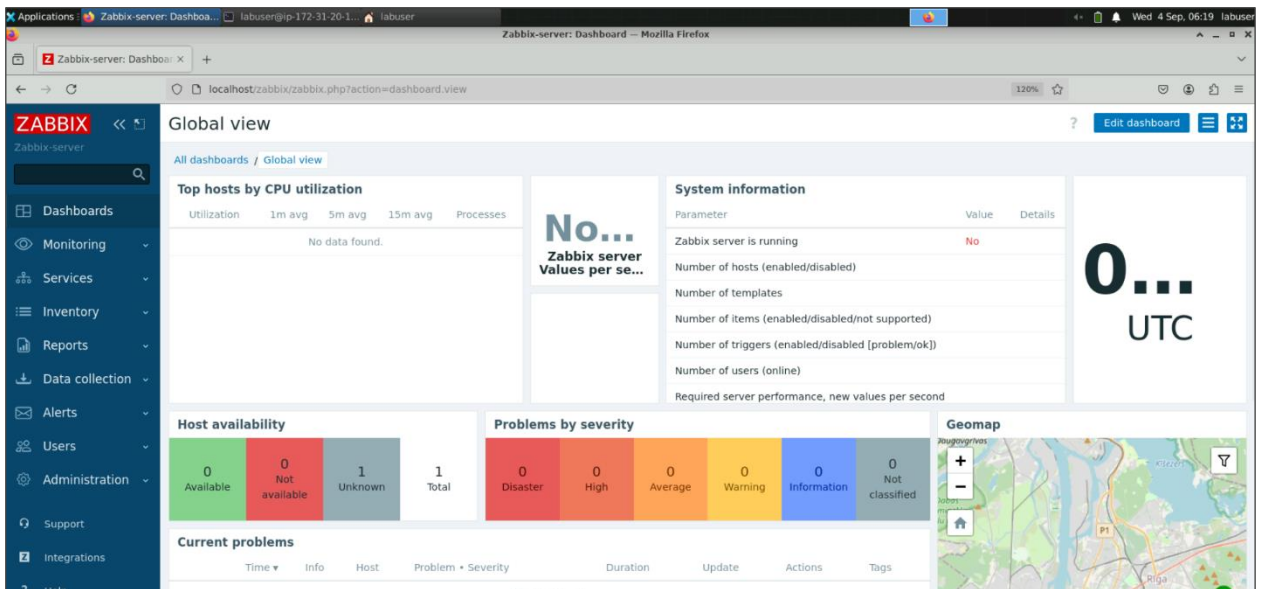
6.6 Click on **Finish** to complete the configuration



6.2 Log in to the console using the default username **Admin** and password **Zabbix**, then click on **Sign in** as shown:



The Zabbix dashboard will appear as follows:



By following these steps, you have successfully installed, configured, and explored Zabbix to effectively track and monitor your basic infrastructure.