- 1. Install Zabbix Server 5 on VM that includes:
- Zabbix Server
- Database
- Apache
- PHP
- Zabbix Server-Modules for Apache & Database
- Zabbix Frontend

Installing required dependencies:

sudo apt install php php-mbstring php-gd php-xml php-bcmath php-ldap php-mysql libapache2-mod-php

I already had an apache2 server running at port 8088 and mysql service is also running. (It can be manually installed as:

sudo apt-get install apache2 Sudo apt install mysql-server)

Here is the status of my apache and mysql servers.

So zabbix repository is configured and downloaded using following commands:

wget

https://repo.zabbix.com/zabbix/5.0/ubuntu/pool/main/z/zabbix-release/zabbix-release_5.0-1+focal_all.deb sudo dpkg -i zabbix-release_5.0-1+focal_all.deb

sudo apt update sudo apt install zabbix-server-mysql zabbix-frontend-php zabbix-agent zabbix-apache-conf

At first, we have to configure mysql password using command:

sudo mysql secure installation

```
root@batman:~# sudo mysql_secure_installation

Securing the MySQL server deployment.

Connecting to MySQL using a blank password.

The 'validate_password' component is installed on the server.

The subsequent steps will run with the existing configuration of the component.

Please set the password for root here.

New password:

Re-enter new password:
```

Now a database is to be created for the zabbix server. So we login to mysql as root user and request the following queries:

mysql -u root -p

CREATE DATABASE zabbixdb character set utf8 collate utf8_bin;
CREATE USER 'zabbix'@'localhost' IDENTIFIED BY 'password';
GRANT ALL PRIVILEGES ON zabbixdb.* TO 'zabbix'@'localhost' WITH GRANT OPTION;
FLUSH PRIVILEGES:

```
mysql> CREATE USER 'zabbix'@'localhost' IDENTIFIED BY 'password';
Query OK, 0 rows affected (0.03 sec)

mysql> GRANT ALL PRIVILEGES ON zabbixdb.* TO 'zabbix'@'localhost' WITH GRA
NT OPTION;
Query OK, 0 rows affected (0.01 sec)

mysql> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.00 sec)
```

After database configuration, the default schema of zabbix database is loaded: cd /usr/share/doc/zabbix-server-mysql zcat create.sql.gz | mysql -u zabbix -p zabbixdb

And zabbix server is configured with following content: **sudo nano /etc/zabbix/zabbix_server.conf**

"DBHost=localhost
DBName=zabbixdb
DBUser=zabbix
DBPassword=password"

DBHost=localhost DBName=zabbixdb

DBUser=zabbix DBPassword=password Timezone is set within apache php configuration file as:

Nano /etc/php/7.4/apache2/php.ini

```
[Date]
; Defines the default timezone used by the date functions
; http://php.net/date.timezone
date.timezone ='Asta/Kathmandu'
```

Now zabbix-server and agent are enabled and started using commands:

sudo systemctl enable zabbix-server sudo systemctl restart zabbix-server

sudo systemctl enable zabbix-agent sudo systemctl restart zabbix-agent

```
root@batman:/usr/share/doc/zabbix-server-mysql# systemctl status zabbix-server

zabbix-server.service - Zabbix Server

Loaded: loaded (/lib/systemd/system/zabbix-server.service; enabled; vendor preset: enabled)

Active: active (running) since Tue 2021-11-30 15:47:54 +0545; 30min ago

Main PID: 20377 (zabbix_server)

Tasks: 1 (limit: 9110)

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root@batman:/usr/share/doc/zabbix-server-mysql# systemctl status zabbix-agent

zabbix-agent.service - Zabbix Agent

Loaded: loaded (/lib/systemd/system/zabbix-agent.service; enabled; vendor preset: enabled)

Active: active (running) since Tue 2021-11-30 16:02:32 +0545; 16min ago

Process: 21747 ExecStart=/usr/sbin/zabbix_agentd -c $CONFFILE (code=exited, status=0/SUCCESS)
```

Apache server is restarted using command:

sudo systemctl restart apache2

And the firewall is configured to allow ports 10050 and 10051.

Sudo ufw allow 10050/tcp Sudo ufw allow 10051/tcp Ufw reload

When we access the server, 192.168.1.67:8088 we can see apache page running: And 192.168.1.67:8088/zabbix starts initialization for the zabbix server.

- 2. Provide screenshot of
- Running Zabbix Server service,

```
root@batman:/usr/share/doc/zabbix-server-mysql# systemctl status zabbix-server

    zabbix-server.service - Zabbix Server

    Loaded: loaded (/lib/systemd/system/zabbix-server.service; enabled; vendor preset: enabled)

    Active: active (running) since Tue 2021-11-30 15:47:54 +0545; 30min ago

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```

Database config parameter in server config file

DBHost=localhost DBName=zabbixdb

DBUser=zabbix DBPassword=password

Server Dashboard

