1.

Install Zabbix Server 5 on VM that includes:

- Zabbix Server
- Database
- Apache
- PHP
- Zabbix Server-Modules for Apache & Database
- Zabbix Frontend

Answer:

Firstly, we install the zabbix repository configuration package as follows;

- 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+ubuntu20.04 all.deb

```
aashish@aashish-VirtualBox: ~
                                                          Q
  aashish@aashish-Vir... ×
                           aashish@aashish-Vir... × aashish@aashish-Virt...
aashish@aashish-VirtualBox:~$ wget https://repo.zabbix.com/zabbix/5.0/ubuntu/po
ol/main/z/zabbix-release/zabbix-release_5.0-1+focal_all.deb
--2021-12-03 16:49:01-- https://repo.zabbix.com/zabbix/5.0/ubuntu/pool/main/z/
zabbix-release/zabbix-release_5.0-1+focal_all.deb
Resolving repo.zabbix.com (repo.zabbix.com)... 178.128.6.101, 2604:a880:2:d0::2
062:d001
Connecting to repo.zabbix.com (repo.zabbix.com)|178.128.6.101|:443... connected
HTTP request sent, awaiting response... 200 OK
Length: 4244 (4.1K) [application/octet-stream]
Saving to: 'zabbix-release 5.0-1+focal all.deb'
zabbix-release 5.0- 100%[=============>] 4.14K --.-KB/s
2021-12-03 16:49:03 (548 MB/s) - 'zabbix-release_5.0-1+focal_all.deb' saved [42
44/4244]
aashish@aashish-VirtualBox:~$ dpkg -i zabbix-release 5.0-1+focal all.deb
            requested operation requires superuser privilege
aashish@aashish-VirtualBox:~$ sudo dpkg -i zabbix-release 5.0-1+focal all.deb
[sudo] password for aashish:
Selecting previously unselected package zabbix-release.
(Reading database ... 184210 files and directories currently installed.)
Preparing to unpack zabbix-release_5.0-1+focal_all.deb ...
Unpacking zabbix-release (1:5.0-1+focal) ...
Setting up zabbix-release (1:5.0-1+focal) ...
```

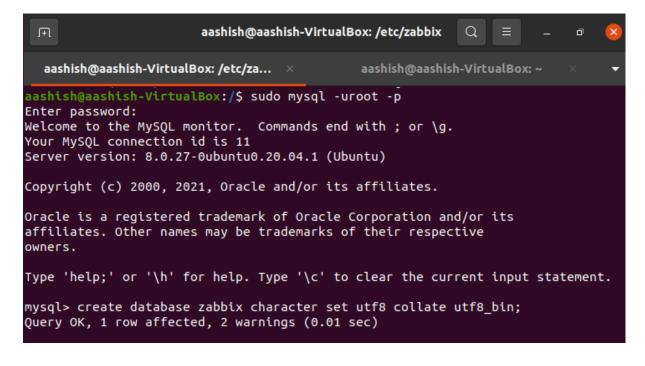
Next, to install the zabbix, we use the following command;

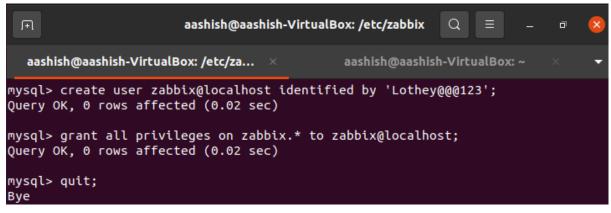
- sudo apt update
- sudo apt install zabbix-server-mysql zabbix-frontend-php zabbix-apache-conf

Then, we create initial database as follows;

- sudo mysql -uroot -p
- create database zabbix character set utf8 collate utf8 bin;
- create user zabbix@localhost identified by 'Lothey@@@123';
- grant all privileges on zabbix.* to zabbix@localhost;

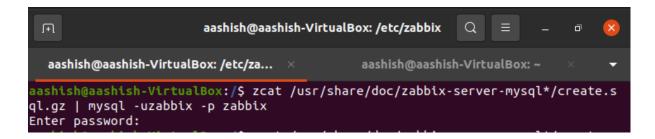
After creating the database as follows we guit from the database.





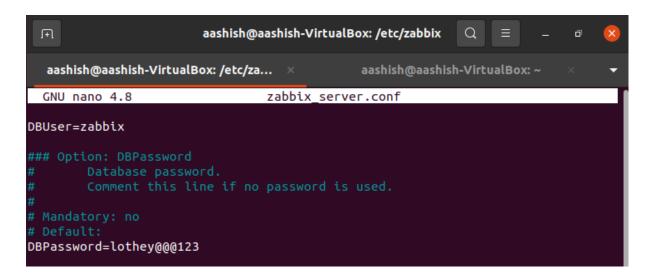
Next, we set up the schema and import the data into the zabbix database using the following command:

zcat /usr/share/doc/zabbix-server-mysql*/create.sql.gz | mysql -uzabbix -p
 zabbix



Next, we edit the zabbix_server.conf file in /etc/zabbix/ file using the text editor as follows;

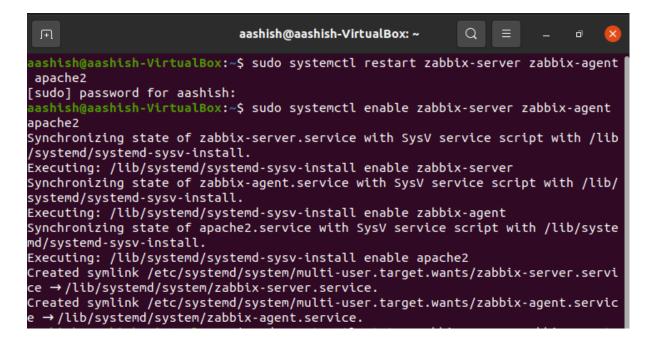
- sudo nano /etc/zabbix/zabbix server.conf



Next, we set the date timezone as Asia/Kathmandu in apache.conf file as follows;

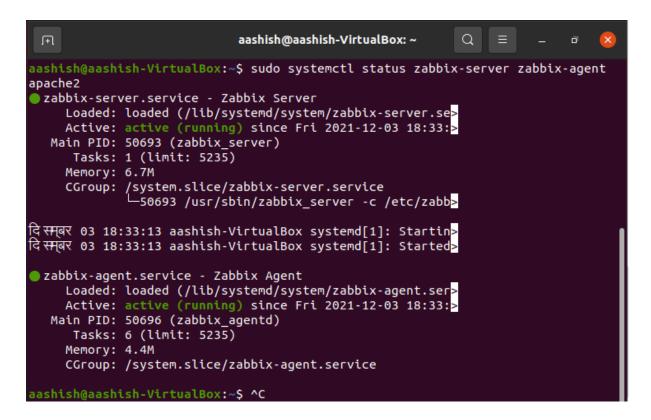
Then, we start and enable zabbix-server, zabbix-agent and apache2 as follows;

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



We verify the status of all as follows;

sudo systemcti status zabbix-server zabbix-agent apache2



Hence, all the services are running.