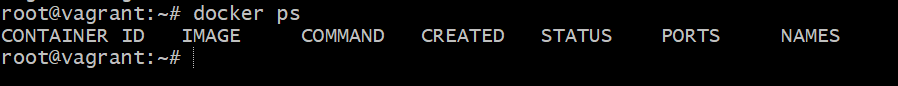
# Task 1

# Setup Zabbix in Docker and docker compose with vagrant on VM Linux.

Step 1: install docker in the machine using the command

**apt-get install docker.io** then check if the docker is installed or not



Step 2: Download the Zabbix Docker images from the online repository.

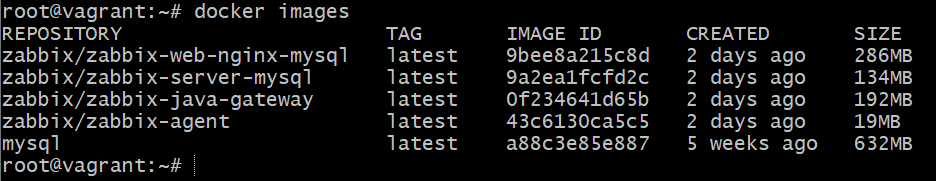
**docker pull mysql**

**docker pull zabbix/zabbix-server-mysql**

**docker pull zabbix/zabbix-web-nginx-mysql**

**docker pull zabbix/zabbix-java-gateway**

**docker pull zabbix/zabbix-agent**



Step 3: Start a new Mysql container.

**docker run --name mysql-server -t -e MYSQL\_DATABASE="zabbix" -e MYSQL\_USER="zabbix" -e MYSQL\_PASSWORD="password" -e MYSQL\_ROOT\_PASSWORD="YjA0OTYwZDBiN2EwNWFjMTRjZGU3Yjcy" -d mysql --character-set-server=utf8 --collation-server=utf8\_bin --default-authentication-plugin=mysql\_native\_password**

Start a new container for the Zabbix java gateway.

**docker run --name zabbix-java-gateway -t --restart unless-stopped -d zabbix/zabbix-java-gateway**

Start a new container for the Zabbix server.

**docker run --name zabbix-server-mysql -t -e DB\_SERVER\_HOST="mysql-server" -e MYSQL\_DATABASE="zabbix" -e MYSQL\_USER="zabbix" -e MYSQL\_PASSWORD="kamisama123" -e MYSQL\_ROOT\_PASSWORD="YjA0OTYwZDBiN2EwNWFjMTRjZGU3Yjcy" -e ZBX\_JAVAGATEWAY="zabbix-java-gateway" --link mysql-server:mysql --link zabbix-java-gateway:zabbix-java-gateway -p 10051:10051 --restart unless-stopped -d zabbix/zabbix-server-mysql**

Start a new container for the Zabbix web interface.

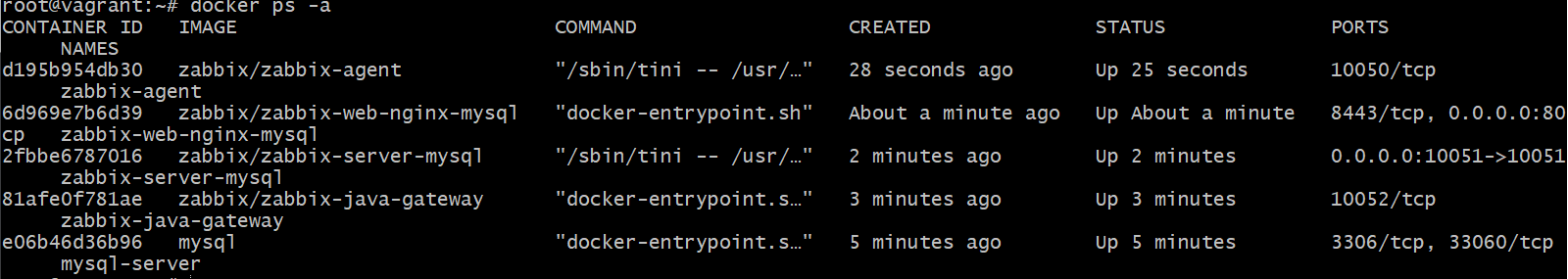
**docker run --name zabbix-web-nginx-mysql -t -e DB\_SERVER\_HOST="mysql-server" -e MYSQL\_DATABASE="zabbix" -e MYSQL\_USER="zabbix" -e MYSQL\_PASSWORD="kamisama123" -e MYSQL\_ROOT\_PASSWORD="YjA0OTYwZDBiN2EwNWFjMTRjZGU3Yjcy" --link mysql-server:mysql --link zabbix-server-mysql:zabbix-server -p 80:8080 --restart unless-stopped -d zabbix/zabbix-web-nginx-mysql**

Start a new container for the Zabbix agent.

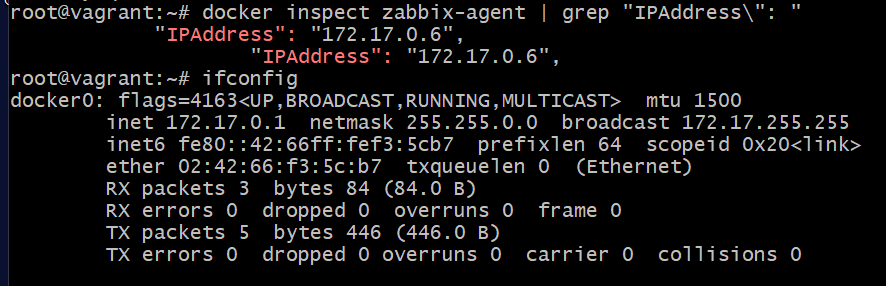
**docker run --name zabbix-agent --link mysql-server:mysql --link zabbix-server-mysql:zabbix-server -e ZBX\_HOSTNAME="Zabbix server" -e ZBX\_SERVER\_HOST="zabbix-server" -d zabbix/zabbix-agent**

Step 4: Verifying the list of containers running.

**Docker ps -a**



Step 5: Inspecting the Zabbix agent container and taking note of its IP address.



Step 6: Accessing the web interface of Zabbix NMS tool using the VM ip i.e. **192.168.1.15**

A screenshot of a computer

Description automatically generated

• Default Username: Admin  
• Default Password: zabbix

A screenshot of a computer

Description automatically generated

Step 7: On the dashboard screen, access the Data Collection menu and selecting the Host option.

Edit the host named Zabbix server.

Change the IP address from 127.0.0.1 to the IP address of the Zabbix agent container.

Click on the Update button.

A screenshot of a computer

Description automatically generated