A REPORT ON HOW TO INSTALL VIRTUAL BOX AND USE ITS FUNCTIONALITIES

BETHLY CHEMUTAI

4/12/2022

Table of Contents

1   INTRODUCTION.

This report covers the steps used to install a and set up a personal lab using VirtualBox. The lab will consist of at least two virtual machines with varying networking profiles. The virtual machines will be running both Windows and Linux operating systems and this report will entail how both were installed and configured. In addition, this report will cover the installation of LAMP stack in the Linux operating system.

2   Installing VirtualBox

Figure 1:site visited to download VB packages for Windows OS
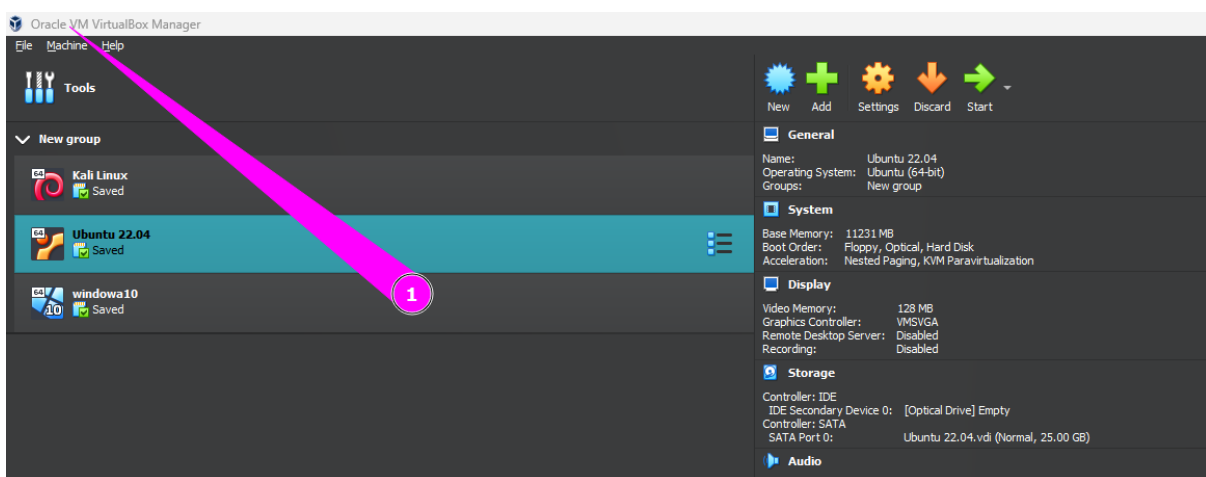

Figure 2:proof of installation and VB setup

3   Installation of Ubuntu

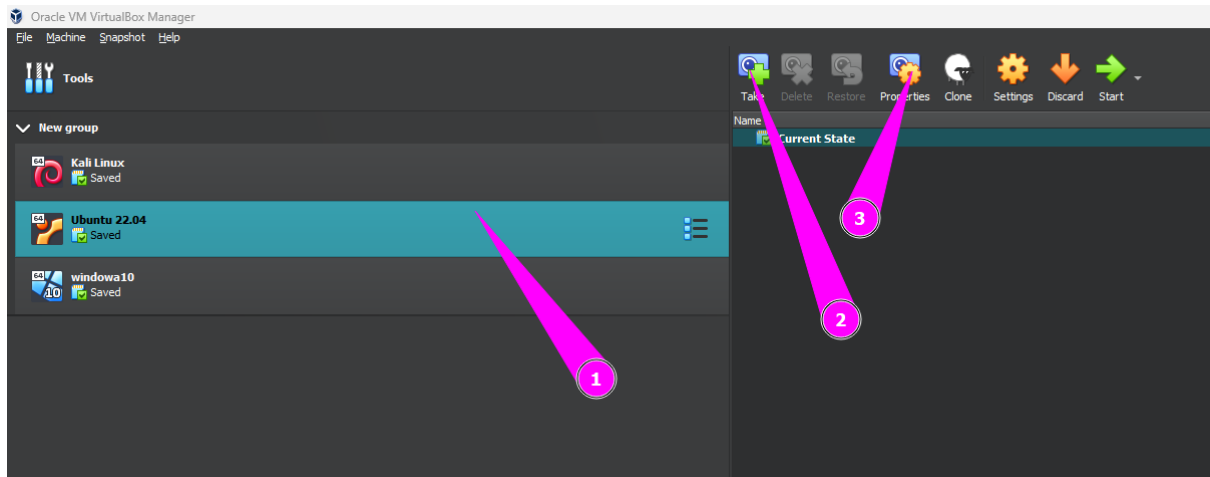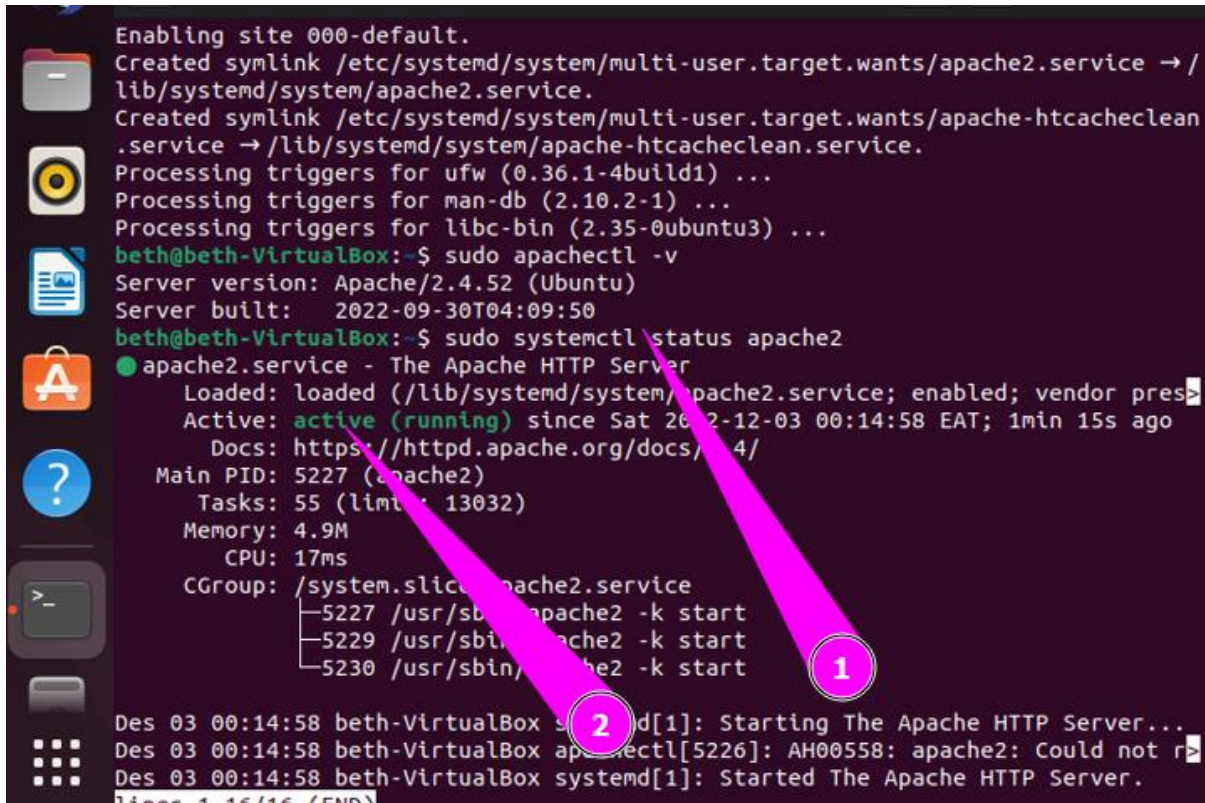I downloaded Ubuntu 22.04 ISO file and used it to install Linux virtual machine in the VB.

Figure 3: Ubuntu virtual machine

4 Installing LAMP

4.1 Installing Apache

I used the following commands to install Apache;

- sudo apt update
- sudo apt install apache2
- sudo apachectl -v
- sudo systemctl status apache2

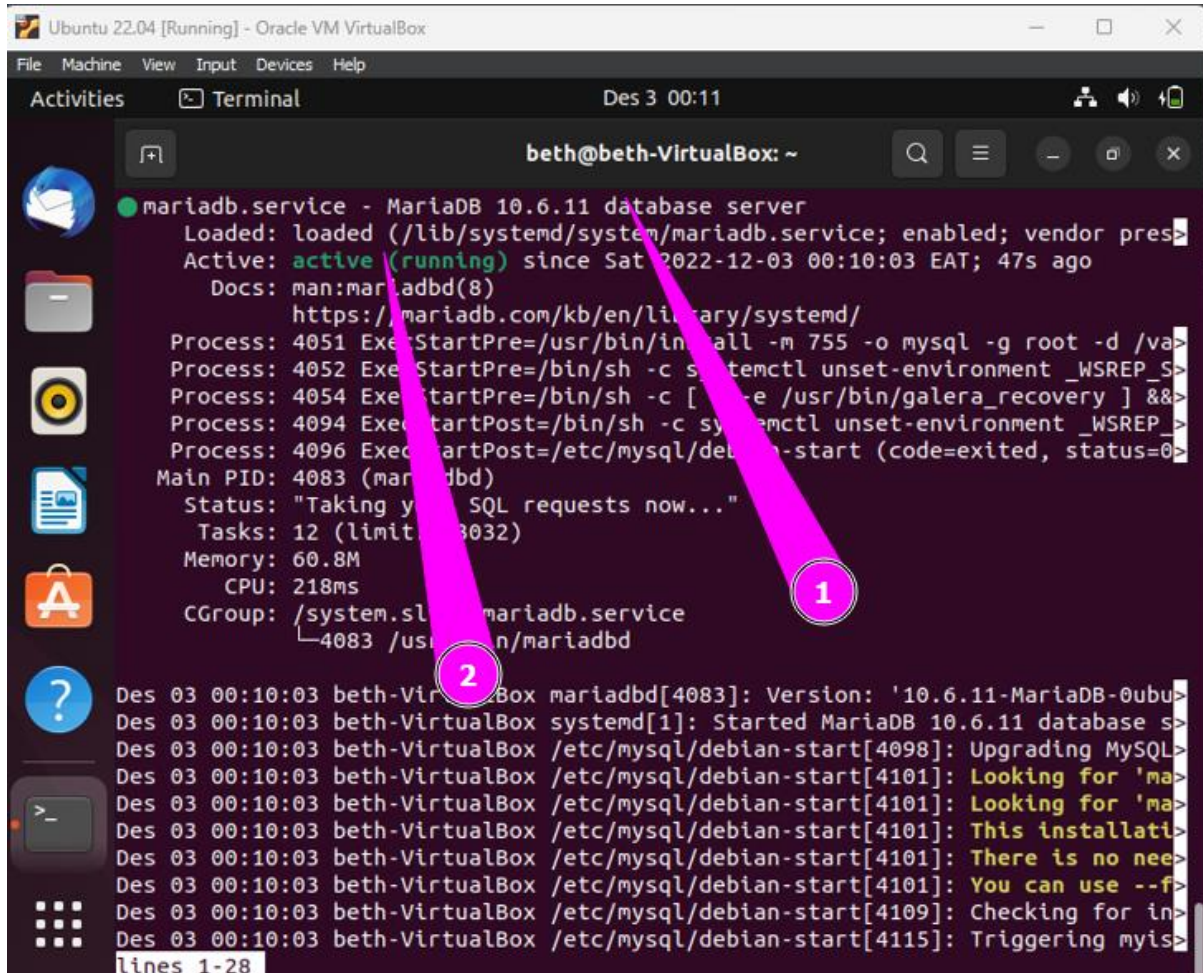*Figure 4: Apache active and running*

4.2   Installing MYSQL

Commands used to install MYSQL

sudo systemctl enable mariadb.service

sudo mysql_secure_installation

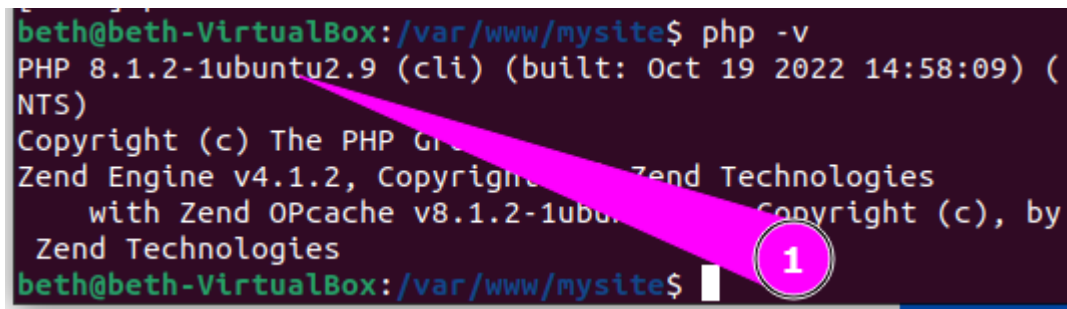*Figure 5:MariaDB data server installed*

4.3   Installing PHP

Command used to install PHP

- sudo apt install php php-mysql php-xml php-mbstring libapache2-mod-php
- php-v

Figure 6:Installation of PHP successful

5 Creating a Virtual Host for your Website

While trying to create a virtual host for my website, I encountered an unresolved issue while accessing my server's domain name or IP address despite having good network.
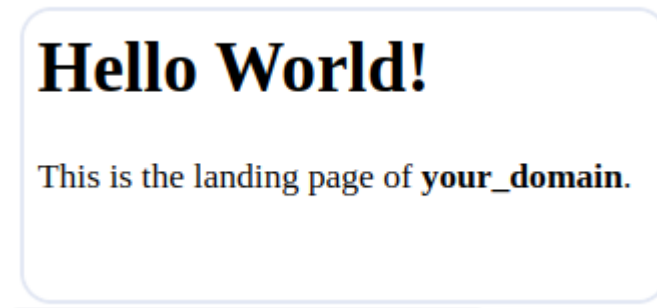

Hello World!

This is the landing page of **your_domain**.

Figure 7:Expected Outcome

The connection has timed out

The server at 197.232.61.217 is taking too long to respond.

- The site could be temporarily unavailable or too busy. Try again in a few moments.
- If you are unable to load any pages, check your computer's network connection.
- If your computer or network is protected by a firewall or proxy, make sure that Firefox is permitted to access the web.

Figure 8: My output

6 Testing Database Connection from PHP

I connected to MYSQL and created a database and a table with data.
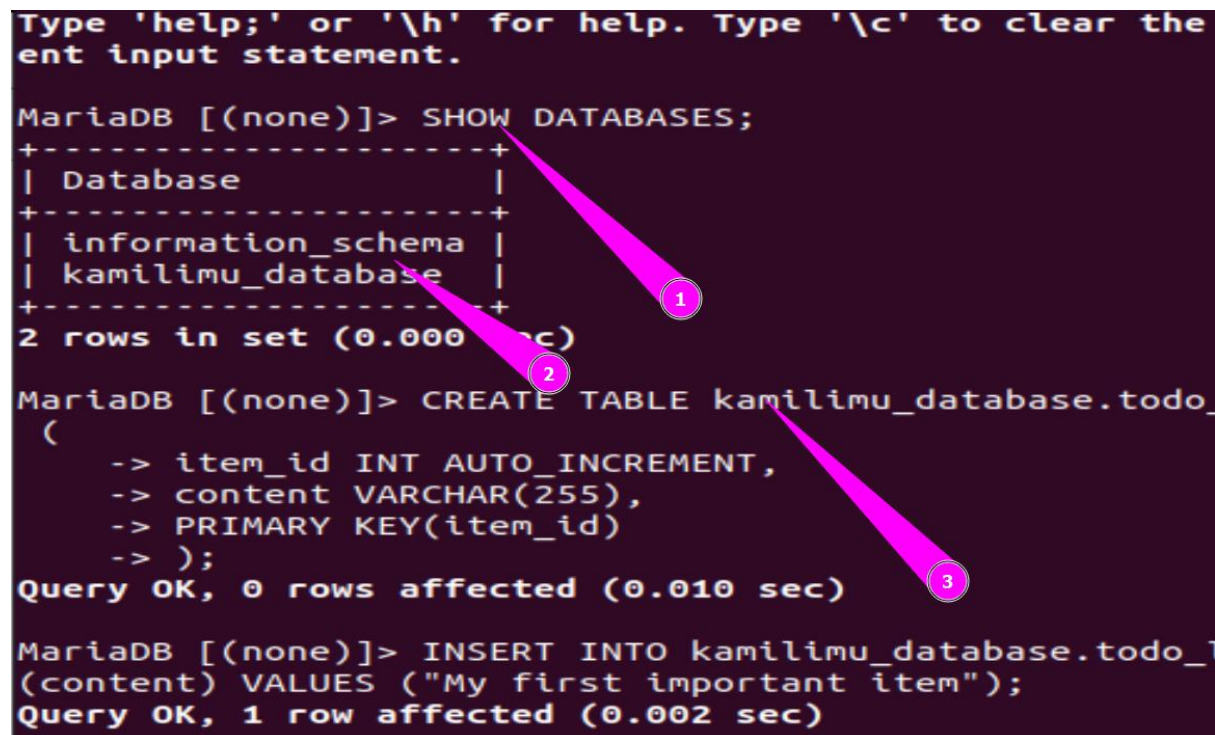
Figure 9:Created Database

Figure 10:Table with data created
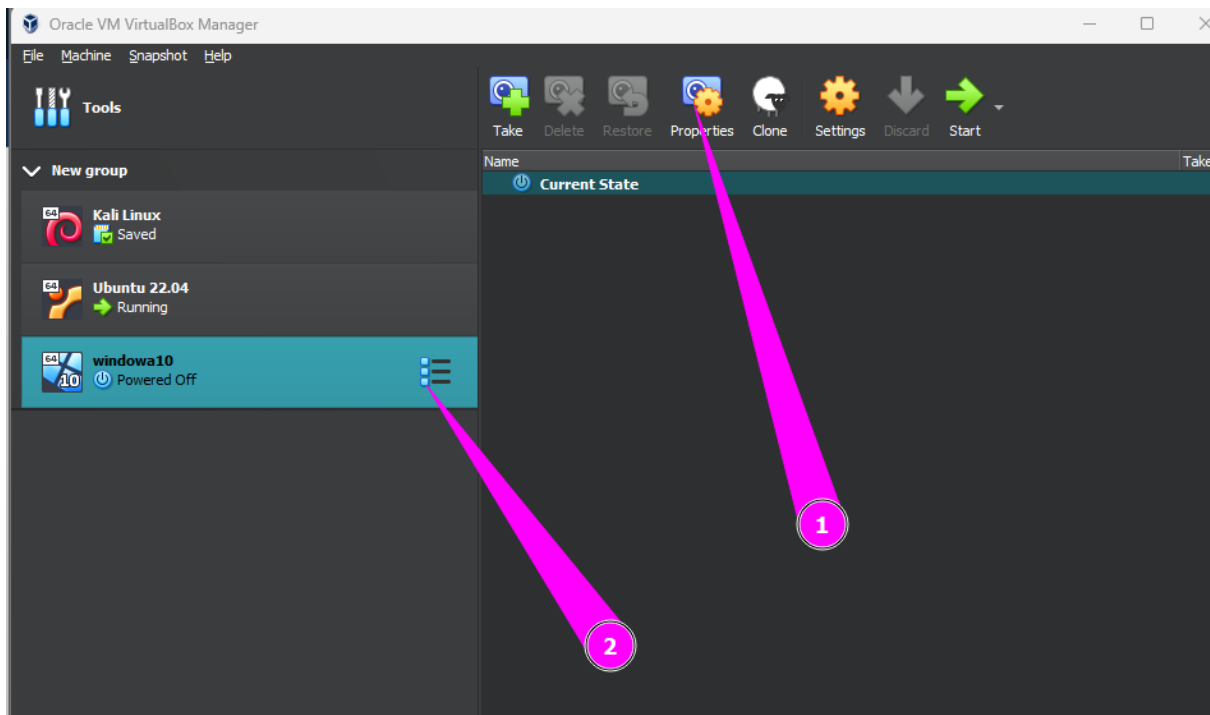
7   Windows Installation.

Using an ISO file, I installed and configured Windows to the VB

Figure 11:Windows 10 Virtual Machine