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1. Introduction

A program that is known as Virtual Box helps users to build virtual machines such as mini computers that works into the main computer. If you want to test different operating system for example Linux, but you wouldn't like to interfere the main operating system or completely transform your computer settings. Instead of doing any permanent changes, Virtual Box helps users to install and use Linux or other OS on the system that is using right now. For example, windows or, macOS.

It is very easy to build virtual machine in Virtual Box, the first step is getting the OS installer also called as ISO file, run Virtual box, and then use it to develop new virtual machine. However, the process is same as developing up new computer setup, you complete the installation rules, select your settings and make a account and all set to go. Since, Virtual Box is freely available and used by everyone, it is preferred by most of the IT professionals and software developers. It is used by developers who want to check programs in various conditions without using many computers.

Some of the parts of computer's resources, that includes its memory (RAM), storage, and processing power. To allow for Virtual Box to work, computer resources are divided to new virtual environment. Furthermore, the virtual machine works as another computer when it is established. Then, users can select the how much of these resources are given to it. Nowadays, developers, testers like and adore Virtual Box because it is very easy to build and support virtual machines without specific hardware. Apart from the fact that VirtualBox is efficient, robust, cross-platform, and high performance in nature, it is also free, which makes this product compelling. Also, it is the only open-source hypervisor of its kind.

2. Objective

The main objective of Virtual Box is that it creates virtualization tools which helps developers to use different operating system in just one computer. It also provides strong features which is mostly common and liked by enterprise level virtualization.

3. Necessary Tools and Resources

- Virtualization Software: It includes VMware workstation or VMware ESXI. In next step, oracle virtual box.
- Operating system ISO File: Installing Window server 2022 ISO or other ISO programs as you want.
- Compatible computer: A machine that includes necessary CPU, RAM, disk space helps to run virtual machines and OS host.

4. Steps for Installing Window Server 2022

i. Download & Install Virtualization Software

Select Oracle Virtual Box or VMware workstation according to your choice.



Figure 1: Select and open Virtual Box

ii. Download the ISO file for Microsoft Server 2022.

iii. Name the Virtual Machine

Find the new button at the top of the Virtual Box and give a name for it.



Figure 2: Name the Virtual Machine

iv. Upload the ISO file

Find and select Window Server 2022 ISO file on your computer and select it.



Figure 3: Uploading the ISO file

v. Set up required information and details



Figure 4: Filling up the necessary data

vi. Allocation of memory
It is best to put at least 4096 MB which means 4GB of RAM for Windows Server 2022.

Figure 5: Allocation of data

- vii. Finish the setup process

Complete all the remaining virtualization process and run it.



Figure 6: Finishing overall process

viii. Running the virtual Box

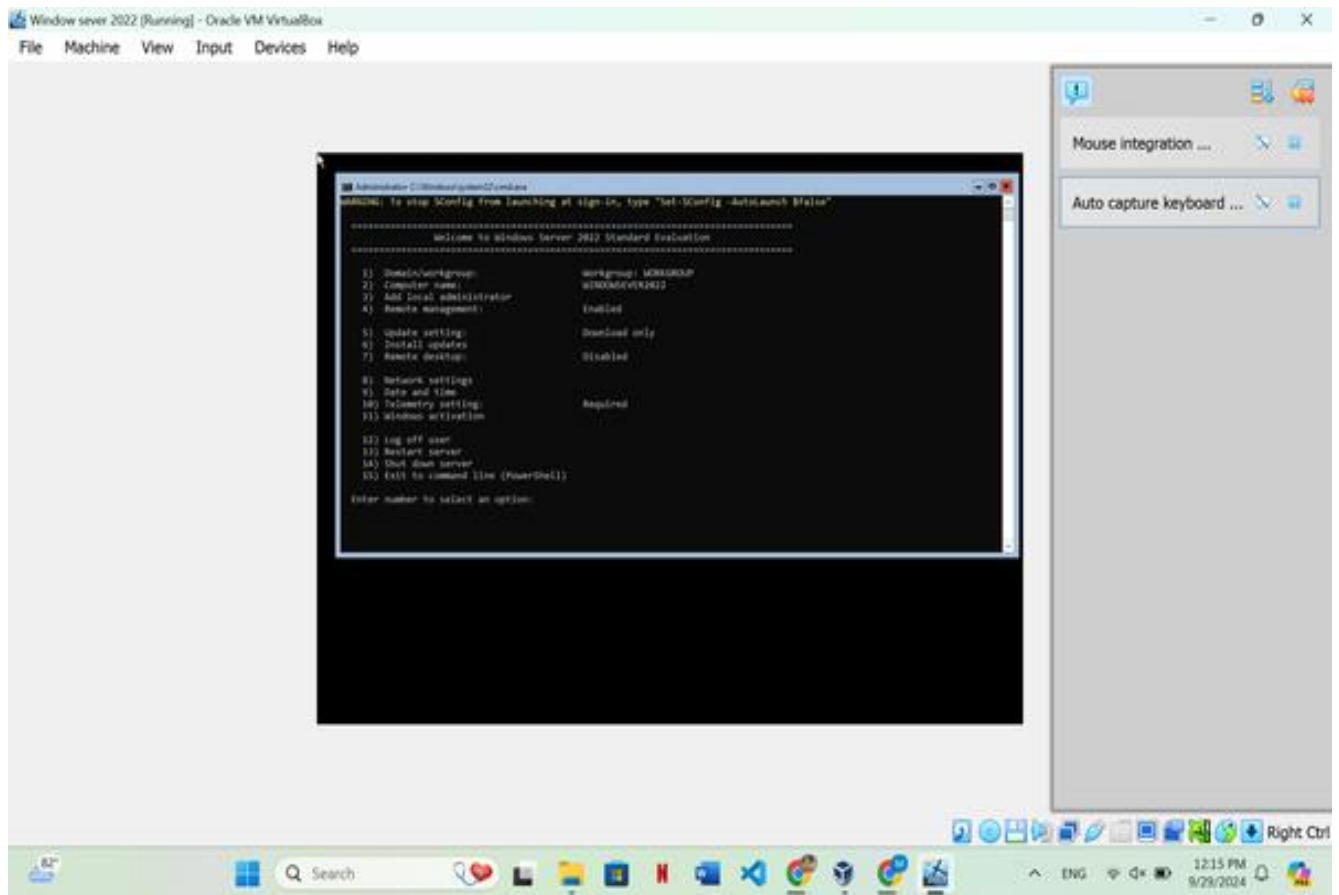


Figure 7: Running the Virtual Box

5. Conclusion

In conclusion, without using several hardware, Windows Server 2022 can be easily installed on a virtualization system for example VMware, Virtual Box which gives a reliable and effective tool for leading, testing and creating different server environments. Furthermore, to get valuable experience in a private and affordable way thus program help you to gain it.

6. References

Dash, P. (2013). *Getting started with Oracle VM VirtualBox*. Packt Publishing.