

Project Summary: Installing Windows in VirtualBox

Your Name

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1 Project Overview

This project centers on setting up the Windows operating system inside Oracle VirtualBox, a tool that builds separate workspaces for testing and learning. Windows, created by Microsoft, is a valuable system for work and software experiments. The aim is to provide a straightforward guide for creating a Windows virtual machine (VM) in VirtualBox, offering a secure space for practice and study.

2 Project Goals

The main purposes of this project include:

- Correctly installing Oracle VirtualBox on the host device.
- Building a virtual machine prepared for Windows.
- Guiding the Windows installation with an ISO file.
- Ensuring smooth operation of the Windows system.
- Documenting the process with pictures to assist learning.

3 Essential Equipment

To finish this project, you will need:

- A host device with enough power (at least 8 GB memory, 50 GB free space).
- Oracle VirtualBox downloaded from oracle.com.
- A Windows ISO file (e.g., Windows 10 or 11) from microsoft.com.
- Basic understanding of virtualization and device setup.

4 Process

4.1 Preparing VirtualBox

4.1.1 Downloading and Setting Up VirtualBox

Begin by obtaining the VirtualBox installer from oracle.com. Follow the clear setup steps to complete the installation. [Image Placeholder: VirtualBox download page or setup screen]

4.1.2 Building a New Virtual Machine

Launch VirtualBox and select "New". Name the virtual machine "Windows VM". Choose Microsoft Windows as the type and Windows 10 (64-bit) as the version. Assign 4 GB of memory (or 8 GB if available) and 2 processor cores.

4.2 Adjusting Virtual Machine Settings

After creating the VM, modify its options. Attach the Windows ISO file in the storage section as a virtual disc. Set the network to NAT for internet access and allocate at least 20 GB for the virtual hard drive. Save the changes before proceeding.

4.3 Installing Windows

Start the virtual machine and begin the installation by following the Windows ISO instructions. Select your language, time zone, and keyboard type. Opt for the custom install and format the virtual drive. Complete the process by entering a product key (if available) and creating a user account.

4.4 Testing and Verifying

After installation, restart the VM and log into Windows. Check basic functions like opening file explorer, accessing the internet, and using a simple program (e.g., Notepad). Record any issues and confirm the system operates effectively.

5 Findings

The installation process successfully established a working Windows setup in VirtualBox. The VM performed basic tasks and connected to the internet without problems. Performance remained stable with the provided resources. Minor delays occurred during setup, possibly due to the host device's workload, but they did not affect the outcome.

6 Conclusion

This project delivered a reliable method to install Windows in a virtual environment using Oracle VirtualBox. The documented steps serve as a useful guide for future installations. Recommendations include increasing memory for better performance and exploring VirtualBox features like snapshots for enhanced testing.

7 Additional Details

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8 Appendix

8.1 Equipment Overview

- Host device specifications - Software download locations - Troubleshooting advice

8.2 Visual Aids

[Image Placeholder: VM configuration screen] [Image Placeholder: Windows setup progress]