



peppermint

Vulnerability Assessment & System Setup Report

----Peppermint OS

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Introduction

Peppermint OS is a lightweight and fast Linux distribution designed for efficiency and simplicity. It is based on Debian/Devuan and is suitable for both old and modern systems. Peppermint OS is commonly used as a desktop operating system due to its low resource usage and stability.

This report documents the process of downloading, installing, and verifying Peppermint OS on the host system for educational and learning purposes.

1.1 Objective of the Report

The objectives of this report are:

- To document the procedure for downloading Peppermint OS
- To explain the installation steps on the host system
- To verify successful installation and system functionality
- To understand Linux-based operating systems
- To follow best practices during system installation

1.2 Scope of the Report

This report includes:

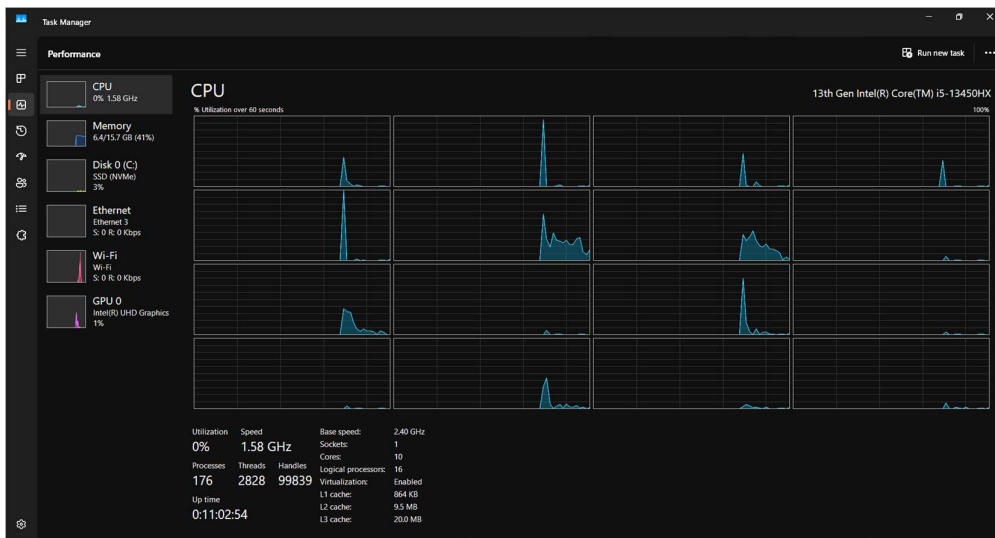
- Hardware and software requirements
- Download procedure for Peppermint OS
- Installation and configuration steps
- Post-installation verification
- Observations and challenges faced
- Security considerations

System Requirements

2.1 Hardware Requirements

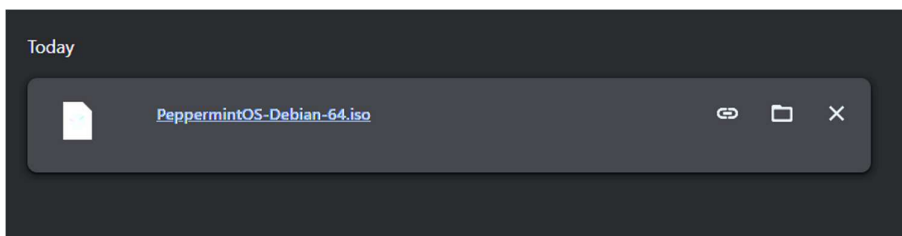
Minimum hardware requirements:

- Processor: Intel/AMD 64-bit processor
- RAM: Minimum 2 GB (Recommended: 4 GB)
- Storage: Minimum 20 GB free disk space
- Boot Mode: BIOS / UEFI supported



2.2 Software Requirements

- Host Operating System (Before Installation): Windows 10 / Windows 11
- Operating System Image: Peppermint OS ISO
- Bootable Media Tool: Rufus / Balena Etcher
- Internet Connection: Required for updates

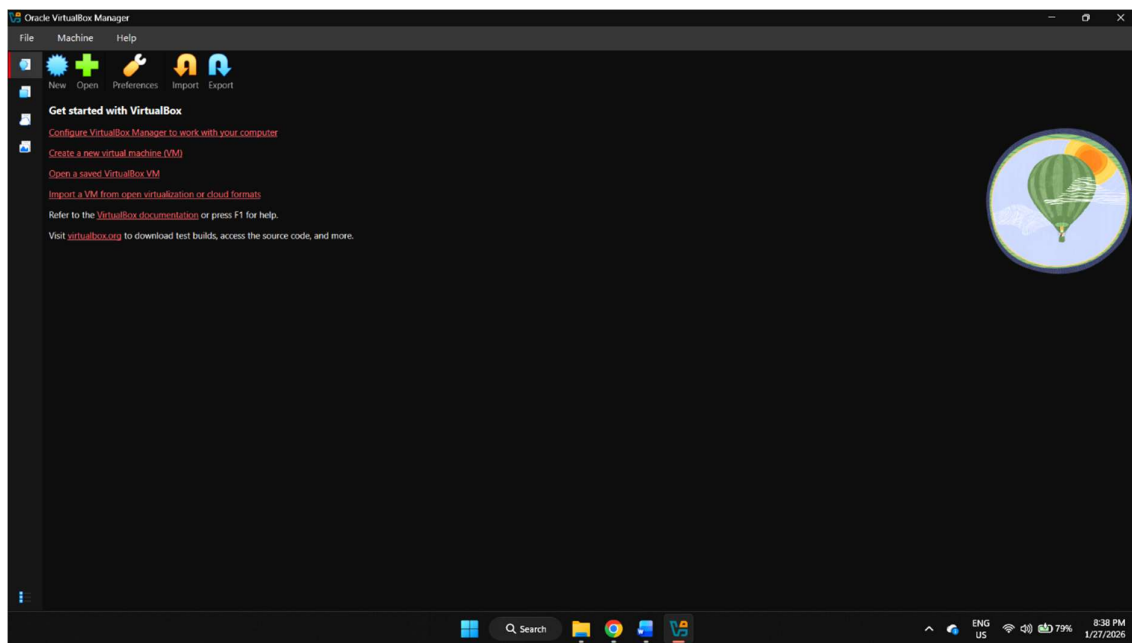


Download Procedure

3.1 Downloading Oracle VirtualBox

Steps followed:

1. Visited the official Oracle VirtualBox website
2. Selected the Windows host installer
3. Downloaded the installer package
4. Installed Oracle VirtualBox using default configuration settings



3.2 Downloading the Operating System Image

Steps followed:

1. Visited the official Peppermint OS website
2. Selected the latest Peppermint OS ISO file
3. Downloaded the ISO file successfully
4. Verified the ISO file download completion

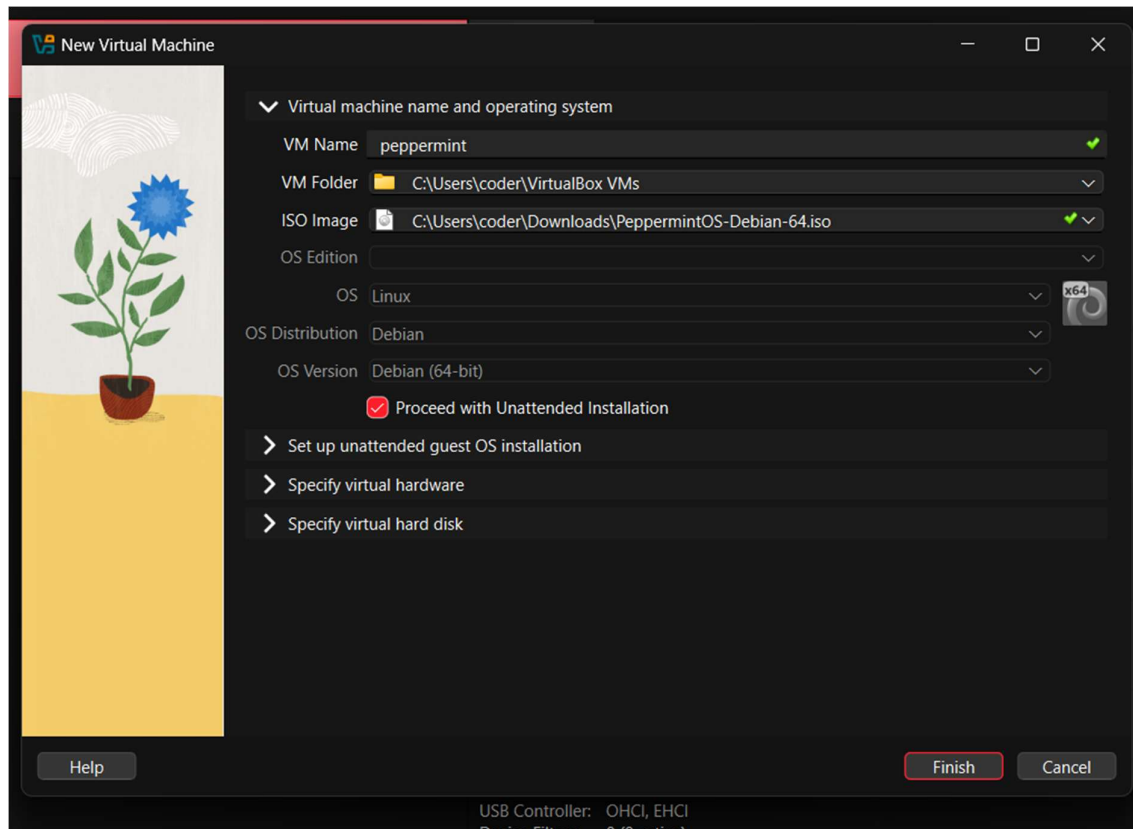
Source used: <https://peppermintos.com>

Installation and Configuration

4.1 Virtual Machine Creation

Steps followed:

1. Opened Oracle VirtualBox
2. Clicked on **New** to create a virtual machine
3. Named the virtual machine as **Peppermint OS**
4. Selected Type: Linux
5. Selected Version: Debian (64-bit)

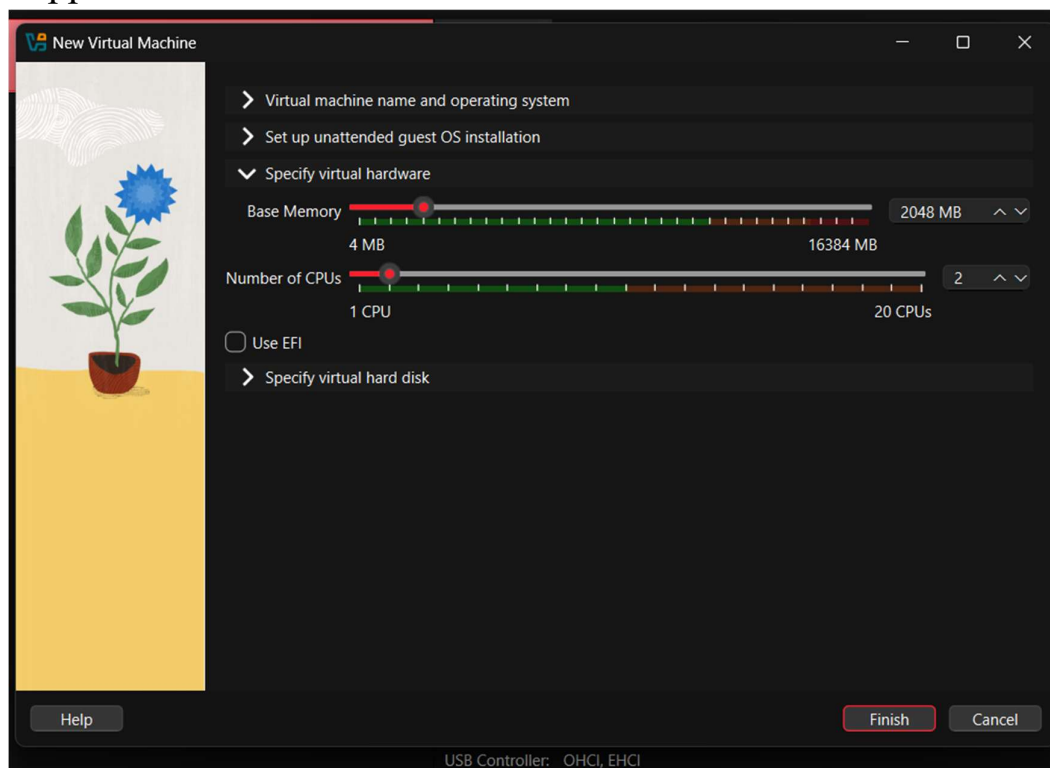


4.2 Resource Allocation (RAM, CPU, Storage)

Resources allocated:

- RAM: 2048 MB (2 GB)
- CPU Cores: 2
- Storage Type: VDI (Dynamically Allocated)
- Disk Size: 25 GB

These resources were allocated to ensure smooth performance of the Peppermint OS virtual machine.

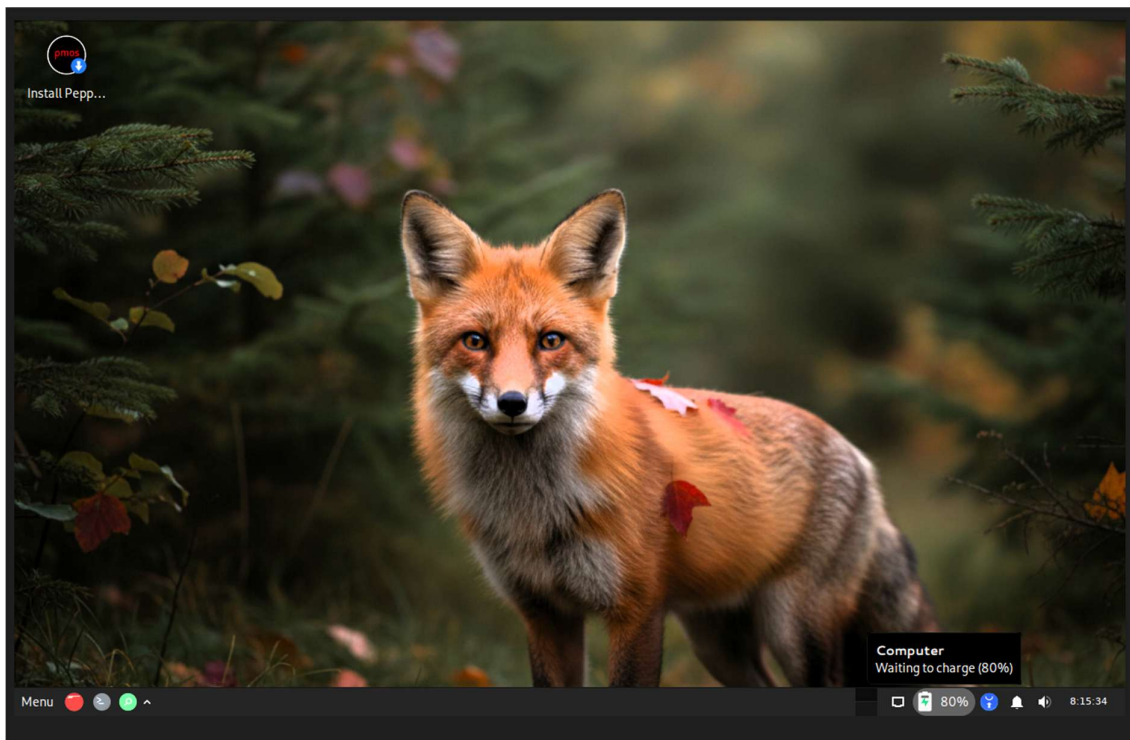


4.3 Operating System Installation Steps

steps followed:

1. Attached Peppermint OS ISO file to the virtual machine
2. Started the virtual machine
3. Selected **Install Peppermint OS** from boot menu
4. Configured language, keyboard layout, and region

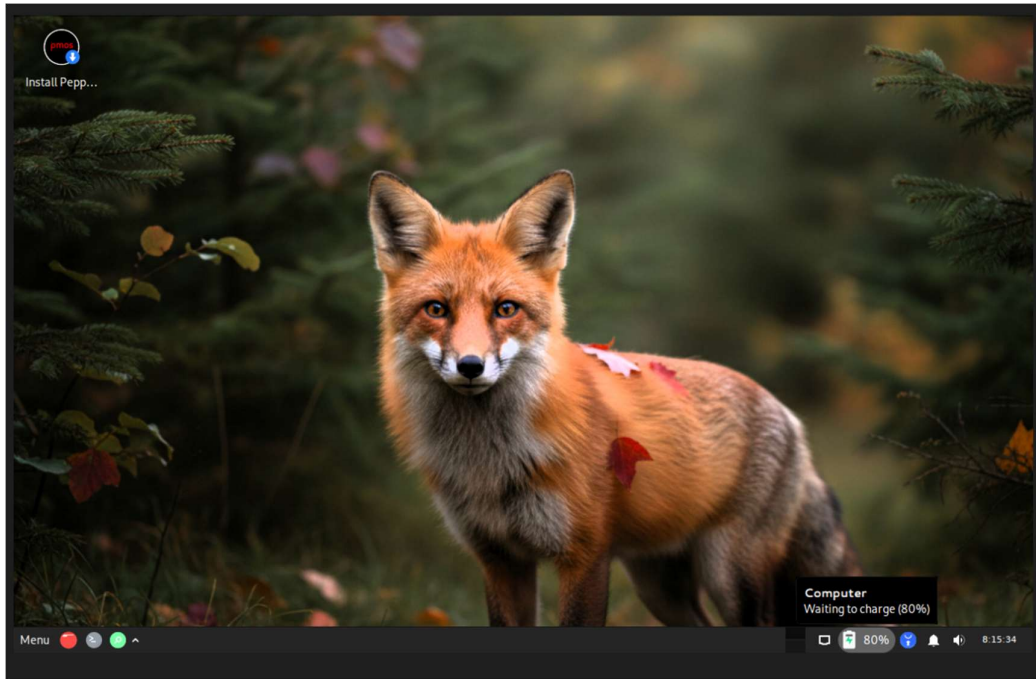
5. Selected disk partitioning options
6. Created user account and password
7. Completed installation and rebooted the system



Post-Installation Verification

5.1 Successful Boot Verification

The system booted successfully into the Peppermint OS desktop environment without errors.

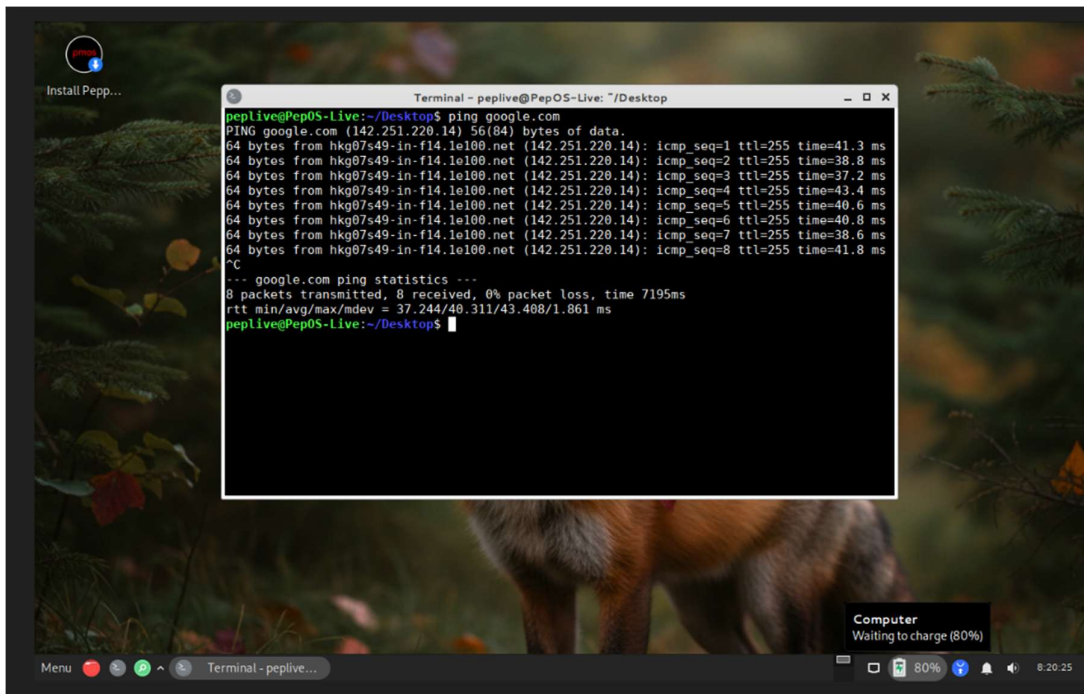


5.2 Network Connectivity Verification

Network connectivity was verified using terminal commands.

Command used:

`ping google.com`



5.3 System Information Verification

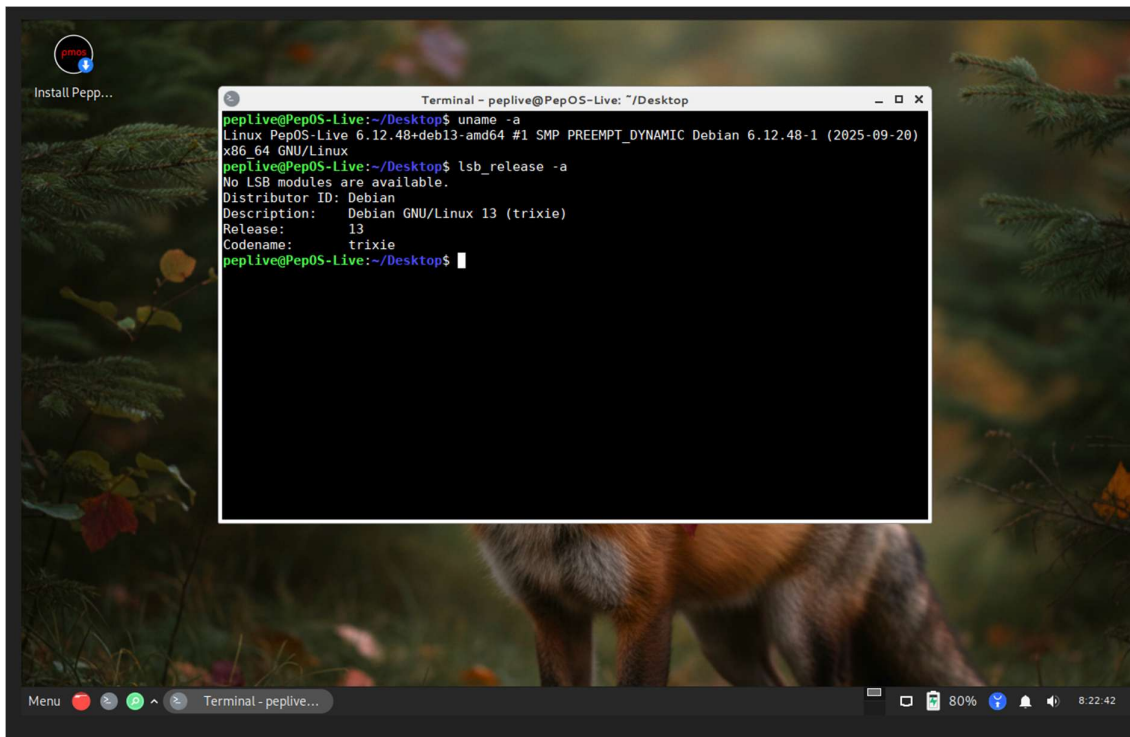
System information verified using terminal commands:

- OS Version
- Kernel Version
- Hardware Details

Commands used:

`uname -a`

`lsb_release -a`



Observations

- Peppermint OS is lightweight and fast
- Suitable for low-end hardware
- Clean and user-friendly interface
- Stable performance during daily use

Challenges Faced and Solutions

7.1 Errors Encountered

Issue	Cause
USB not booting	Boot mode mismatch
Installation paused	Insufficient disk space

7.2 Troubleshooting Steps

Issue	Solution
Boot issue	Changed BIOS mode to UEFI
Disk issue	Allocated sufficient disk space

Security Considerations

- Peppermint OS was downloaded from the official website
 - Regular system updates improve security
 - User accounts and passwords were configured securely
 - Firewall and system permissions help protect the system
 - Used strictly for educational purposes
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Conclusion

This report successfully documents the installation and configuration of Peppermint OS on the host system. The activity provided hands-on experience with Linux installation, system configuration, and security best practices. Peppermint OS proves to be an efficient and reliable Linux distribution.

References

- Peppermint OS Official Website – <https://peppermintos.com>
- Linux Installation Documentation
- Open Source Community Resources