EXPERIMENT 4	**Operating System Installation Methods** **Microsoft Windows OS, Red Hat Linux, Dual Operating System Installation**
Date:	

AIM

To install Microsoft Windows OS, Red Hat Linux, and configure a Dual Operating System (Dual Boot) on a computer system and verify successful installation.

REQUIREMENTS

i. Desktop or laptop computer
ii. Bootable USB flash disk
    a. Microsoft Windows OS
    b. Red Hat Linux OS
iii. Hard disk with sufficient free space
iv. Keyboard, mouse, and monitor
v. Bootable flash disk (Windows/Linux)
vi. Internet connection (optional, for updates)

PROCEDURE / PROGRAM

a) Installation of Microsoft Windows OS

1. Insert the Windows bootable USB into the system.
2. Power on the system and enter BIOS/UEFI using DEL / F2 / F10.
3. Set USB drive as the first boot device and save settings
4. Restart the system and boot from the USB.
5. Select language, time, and keyboard layout, then click ***Install Now*.**
6. Choose *Custom Installation*
7. Select or create a partition and format it (NTFS).
8. Proceed with installation and wait for the system to restart.
9. Complete initial setup (user account, password, date, time).

b) Installation of Red Hat Linux OS

1. Insert the Red Hat Linux bootable USB.

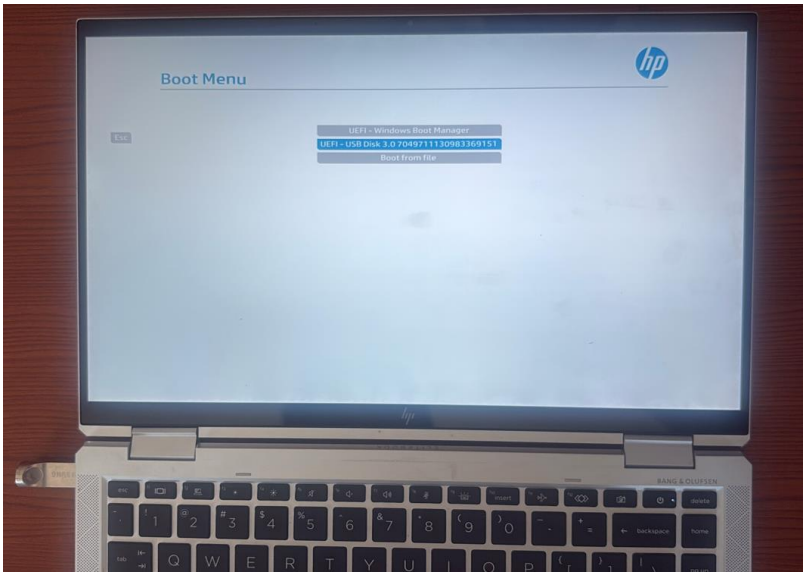
2. Restart the system and boot from USB.
3. Select *Install Red Hat Enterprise Linux*.
4. Choose language and keyboard layout.
5. Select *Installation Destination* and choose disk.
6. Configure partitioning (Automatic or Manual).
7. Set root password and create a user account.
8. Begin installation and wait for completion.
9. Reboot the system after installation.

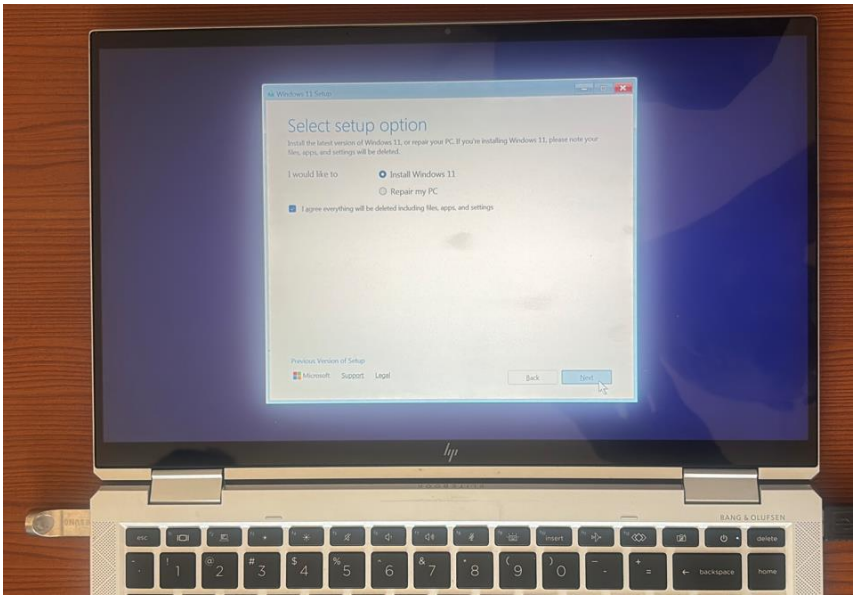
c) Dual Operating System Installation (Windows and Red Hat Linux)

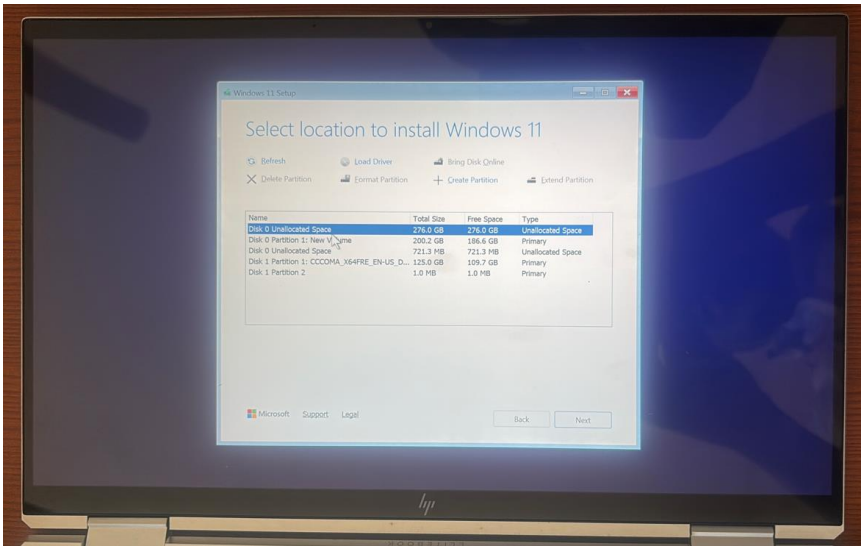
1. Install Windows OS first using the steps in section A.
2. Leave unallocated/free space on the hard disk during Windows installation.
3. Insert Red Hat Linux bootable USB and boot from it.
4. Choose installation destination and select the free space.
5. Install Red Hat Linux without modifying Windows partitions.
6. Complete installation and reboot.
7. On startup, the GRUB boot loader menu appears.
8. Choose between Windows and Red Hat Linux.

Sample Output

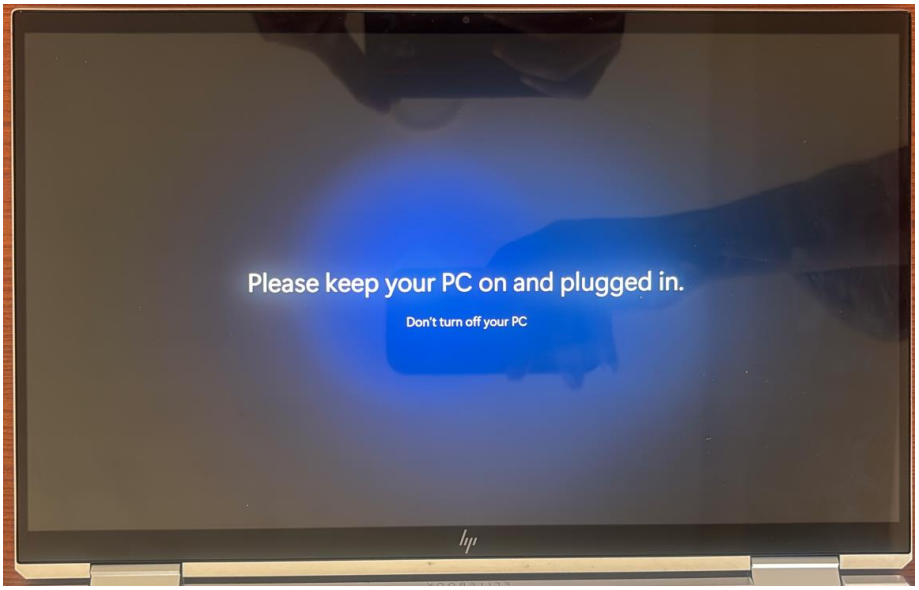
a) Installation of Microsoft Windows OS

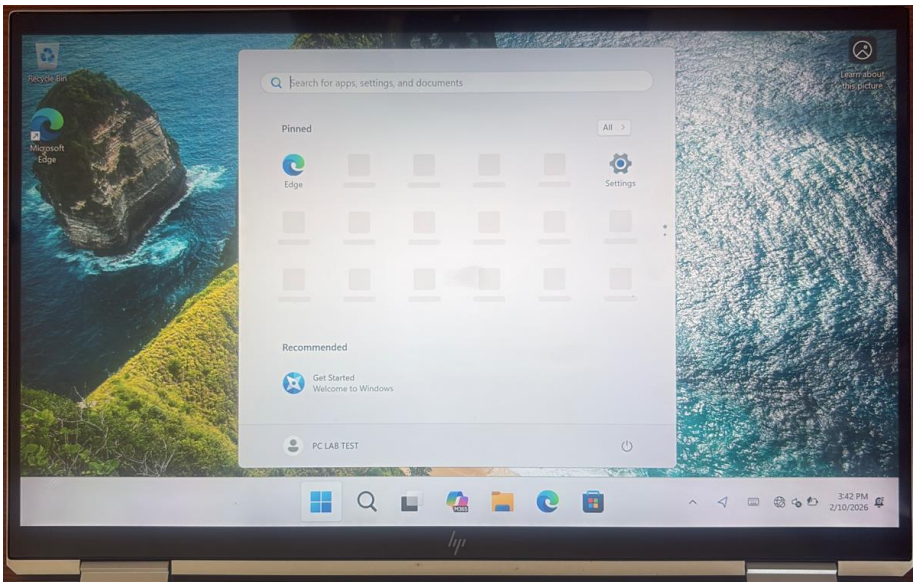



Windows 11 Setup
Select setup option
Install the latest version of Windows 11, or repair your PC. If you're installing Windows 11, please note your files, apps, and settings will be deleted.
I would like to
Install Windows 11
Repair my PC
I agree everything will be deleted including files, apps, and settings
Previous Version of Setup
Microsoft
Support
Legal
Back
Next

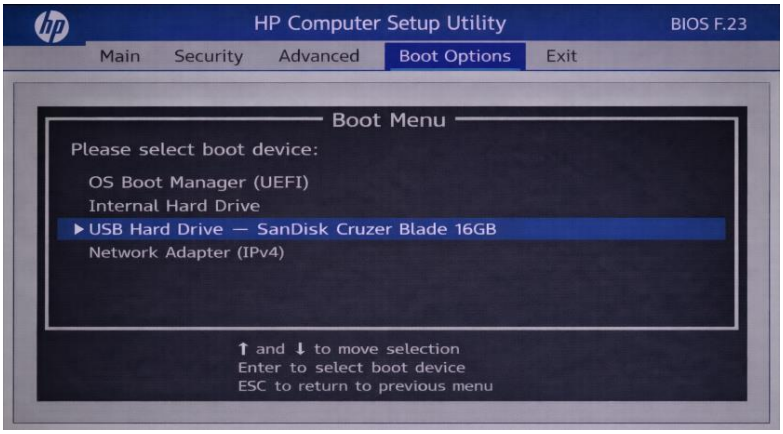

Windows 11 Setup
Select location to install Windows 11
Refresh
Load Driver
Bring Disk Online
Delete Partition
Format Partition
Create Partition
Extend Partition
Name
Total Size
Free Space
Type
Disk 0 Unallocated Space
276.0 GB
276.0 GB
Unallocated Space
Disk 0 Partition 1: New Volume
200.2 GB
186.6 GB
Primary
Disk 0 Unallocated Space
721.3 MB
721.3 MB
Unallocated Space
Disk 1 Partition 1: CCCOMA_X64FRE_EN-US_D...
125.0 GB
109.7 GB
Primary
Disk 1 Partition 2
1.0 MB
1.0 MB
Primary
Microsoft
Support
Legal
Back
Next

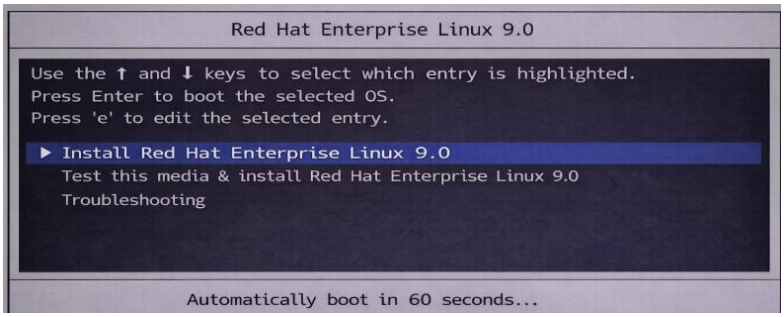

Installing Windows 11
Your PC will restart several times. This might take a while.
75% complete
Cancel

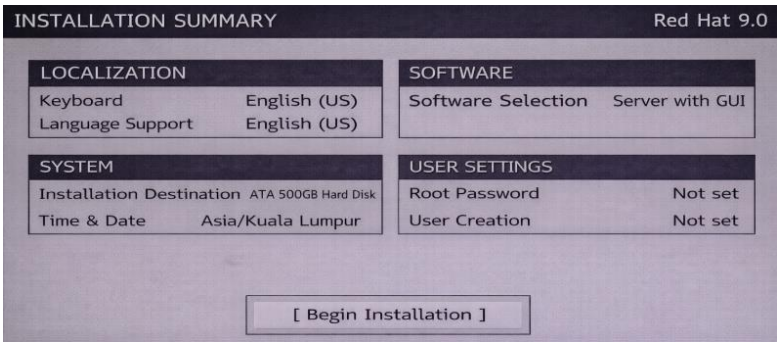

Please keep your PC on and plugged in.
Don't turn off your PC

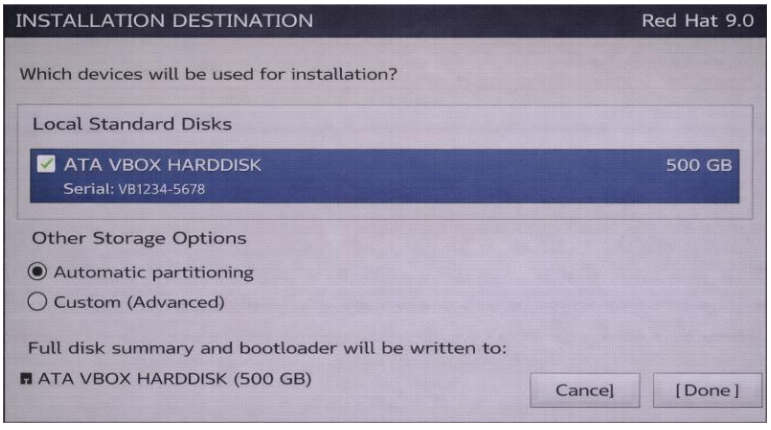

Recycle Bin
Microsoft Edge
Search for apps, settings, and documents
Pinned
All
Edge
Settings
Recommended
Get Started
Welcome to Windows
PC LAB TEST
Learn about this picture
3:42 PM
2/10/2026

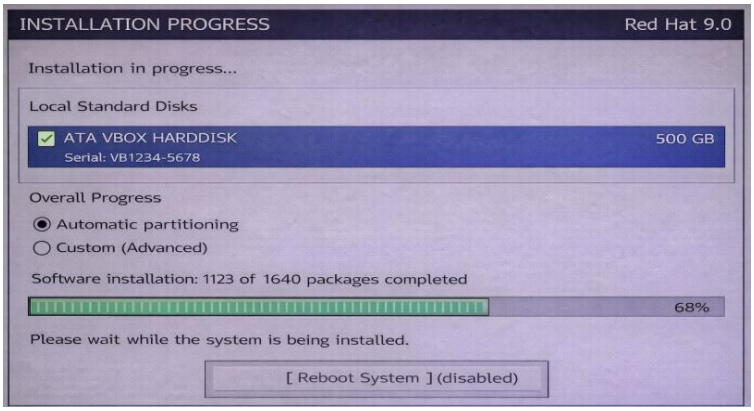
b) Installation of Red Hat Linux OS

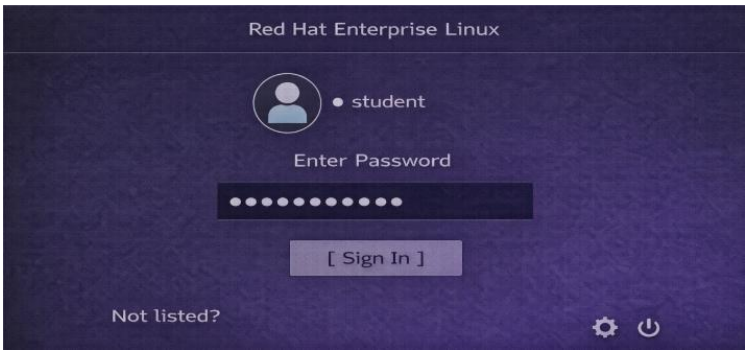












c) Dual Operating System Installation (Windows and Red Hat Linux)



RESULT

Microsoft Windows OS and Red Hat Linux were installed successfully, and a dual operating system configuration was verified using the GRUB boot loader menu and output verified.