Task 2 OS Security Lab Report

Objective:

To understand and implement Operating System security fundamentals on Linux and Windows.

Tools Used:

Ubuntu Linux (VirtualBox), Windows Defender, UFW Firewall.

Steps Performed:

1. Installed Ubuntu VM using VirtualBox.

2. Explored user accounts using whoami, /etc/passwd.

3. Learned permissions using ls -l, chmod, chown.

4. Compared admin and standard users.

5. Enabled firewall using UFW and Windows Firewall.

6. Checked running processes using ps, top, task manager.

7. Disabled unnecessary services.

8. Documented best practices.

Observations:

File permissions control access.

Firewall blocks unauthorized traffic.

Least privilege improves security.

Conclusion:

OS security hardening reduces attack surface and prevents threats.