

Roll No.: 20BCE204

Course Name: MOS

Practical No.: 8

Aim: Explore security and other features of various operating systems like Linux, iOS, Palm OS, Widows, etc.

Linux:

- Firewall: Linux systems come with built-in firewall tools like iptables or its successor, tables, which allow administrators to define rules for network traffic filtering, effectively protecting the system from unauthorized network access.
- Auditing and Logging: Linux systems can be configured to generate extensive audit logs that track system activities, helping administrators detect and respond to security breaches or suspicious behavior.
- Encryption: Linux supports various encryption techniques, including disk encryption (e.g., LUKS), SSL/TLS for secure communication, and tools like GPG for email and file encryption.
- PAM (Pluggable Authentication Modules): PAM allows for flexible authentication methods, enabling the integration of various authentication schemes such as multi-factor authentication, smart cards, and more.

ios:

- Face ID and Touch ID: iOS devices are equipped with biometric authentication methods like Face ID and Touch ID, providing convenient yet secure ways for users to unlock their devices and authenticate for various actions.
- Find My iPhone: The Find My iPhone feature allows users to remotely lock or erase their device if it's lost or stolen, preventing unauthorized access to personal data.
- App Store Review Process: All apps submitted to the App Store undergo a strict review process by Apple to ensure they meet security and privacy guidelines. This helps protect users from potentially harmful apps.
- Privacy Labels: In the App Store, users can find privacy labels that show how apps handle

Palm OS:

- Data Encryption: Some third-party applications for Palm OS allowed users to encrypt specific files or databases on their devices. This added an additional layer of security to protect sensitive information.
- Limited User Accounts: Palm OS devices supported the creation of multiple user accounts, each with its own set of preferences and data. While not primarily a security feature, this could be used to separate data between different users of the same device.
- It's important to note that Palm OS was primarily designed for personal productivity and simplicity, and it lacked the advanced security features found in more modern mobile operating systems. As a result, it was not suitable for high-security applications or for handling sensitive corporate or government data.

Windows:

- Windows Defender: Windows includes built-in antivirus and anti-malware protection through Windows Defender, which scans for and removes threats like viruses, spyware, and ransomware.
- Windows Firewall: The built-in Windows Firewall allows users to control inbound and outbound network traffic, helping to block unauthorized access and protect against network-based attacks.
- Credential Guard: This feature helps protect against credential theft and pass-the-hash

