

OS Implementation and Systems

- [Privilege Escalation Techniques, and Prevention](#)
- [Buffer Overflows](#)
- [Directory Traversal](#)
- [Remote Code Execution](#)
- [Local Databases](#)
 - Some messaging apps use sqlite for storing messages.
 - Useful for digital forensics, especially on phones.
- [Windows Security Topics](#)
 - Windows registry and group policy.
 - Active Directory (AD).
 - Bloodhound tool.
 - Kerberos authentication with AD.
 - Windows SMB.
 - Samba (with SMB).
 - Buffer Overflows.
 - ROP.
- [*nix Security](#)
 - SELinux.
 - Kernel, userspace, permissions.
 - MAC vs DAC.
 - /proc
 - /tmp - code can be saved here and executed.
 - /shadow
 - LDAP - Lightweight Directory Browsing Protocol. Lets users have one password for many services. This is similar to Active Directory in windows.
- [MacOS Security](#)
 - Gotofail error (SSL).
 - MacSweeper.
 - Research Mac vulnerabilities.