

Operating System Exploitation

Content for final exam

Modules

1. Operating Systems Exploitation Basics PPT
2. User-Mode Exploits PPT
3. Loadable Kernel Modules PPT
4. DKOM PPT
5. Run-Time Kernel Memory Patching PPT
6. Firmware and Hardware Exploits PPT
7. Detection of Exploits PPT
8. Defences of Hardening the OS PPT

Student Resources

Module 4: When Malware meets rootkits

Module 6: Firmware exploits, Gapz-Bootkit-Whitepaper_ESET, HW exploits and Rootkits

Module 7: Hardware vulnerabilities, Hardware Trojans, Car Hacking and POS Vulnerabilities and Exploits

Labs (2-7)

2. LKMs
3. DKOM
4. Run-Time Kernel Memory Patching
5. Bootkits
6. Proof of Concept
7. Metasploit