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Second Edition

A Practical Real-World Approach



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Computers as Components Marilyn Wolf,2016-09-12 *Computers as Components Principles of Embedded Computing System Design* Fourth Edition continues to focus on foundational content in embedded systems technology and design while introducing new content on security and safety the design of Internet of Things devices

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Linux Hardening in Hostile Networks Kyle Rankin, 2017-07-17 Implement Industrial Strength Security on Any Linux Server In an age of mass surveillance when advanced cyberwarfare weapons rapidly migrate into every hacker's toolkit you can't rely on outdated security methods especially if you're responsible for Internet facing services In Linux Hardening in Hostile Networks Kyle Rankin helps you to implement modern safeguards that provide maximum impact with minimum effort and to strip away old techniques that are no longer worth your time Rankin provides clear concise guidance on modern workstation server and network hardening and explains how to harden specific services such as web servers email DNS and databases Along the way he demystifies technologies once viewed as too complex or mysterious but now essential to mainstream Linux security He also includes a full chapter on effective incident response that both DevOps and SecOps can use to write their own incident response plan Each chapter begins with techniques any sysadmin can use quickly to protect against entry level hackers and presents intermediate and advanced techniques to safeguard against sophisticated and knowledgeable attackers perhaps even state actors Throughout you learn what each technique does how it works what it does and doesn't protect against and whether it would be useful in your environment Apply core security techniques including 2FA and strong passwords Protect admin workstations via lock screens disk encryption BIOS passwords and other methods Use the security focused Tails distribution as a quick path to a hardened workstation Compartmentalize workstation tasks into VMs with varying levels of trust Harden servers with SSH use apparmor and sudo to limit the damage attackers can do and set up remote syslog servers to track their actions Establish secure VPNs with OpenVPN and leverage SSH to tunnel traffic when VPNs can't be used Configure a software load balancer to terminate SSL/TLS connections and initiate new ones downstream Set up standalone Tor services and hidden Tor services and relays Secure Apache and Nginx web servers and take full advantage of HTTPS Perform advanced web server hardening with HTTPS forward secrecy and ModSecurity web application firewalls Strengthen email security with SMTP relay authentication SMTPS SPF records DKIM and DMARC Harden DNS servers deter their use in DDoS attacks and fully implement DNSSEC Systematically protect databases via network access control TLS traffic encryption and encrypted data storage Respond to a compromised server collect evidence and prevent future attacks

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System Design for Telecommunication Gateways Alexander Bachmutsky, 2011-06-20

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