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For instance, instead of building a custom desktop environment ... you can easily deploy it over multiple computers in a lab. EasyOS is an experimental project by the original developer of Puppy ...

Written in an easy-to-follow approach using hands-on examples, this book helps you create virtual environments for advanced penetration testing, enabling you to build a multi-layered architecture to include firewalls, IDS/IPS, web application firewalls, and endpoint protection, which is essential in the penetration testing world.If you are a penetration tester, security consultant, security test engineer, or analyst who wants to practice and perfect penetration testing skills by building virtual pentesting labs in varying industry scenarios, this is the book for you. This book is ideal if you want to build and enhance your existing pentesting methods and skills. Basic knowledge of network security features is expected along with web application testing experience.

Virtualization is a skill that most IT or security pros take for granted. The sheer number of choices and requirements can be a daunting challenge to face for beginners and veterans alike. With this book, you'll learn how to build a robust, customizable virtual environments suitable for both a personal home lab, as well as a dedicated office training environment. You will learn how to: - Understand the mechanics of virtualization and how they influence the design of your lab - Build an extensive baseline lab environment on any one of five commonly used hypervisors (VMware vSphere Hypervisor, VMware Fusion, VMware Workstation, Oracle Virtualbox, and Microsoft Client Hyper-V) - Harden your lab environment against VM escapes and other security threats - Configure the pfSense firewall distribution to provide security, segmentation, and network services to your virtual lab - Deploy either Snort or Suricata open-source IDS platforms in IPS mode to further enhance the flexibility, segmentation and security of your lab network - Deploy Splunk as a log management solution for your lab - Reconfigure the provided baseline lab environment to better suit your individual needs Easy to follow steps and illustrations provide detailed, comprehensive guidance as you build your custom-tailored lab. Both IT and security professionals need practice environments to better hone their craft. Learn how to build and maintain your own with Building Flexible Virtual Machine Labs

'[A]n excellent, brisk guide to what is likely to happen as opposed to the fantastically remote.' - Los Angeles Review of Books In 2018 the world woke up to gene editing with a storm of controversy over twin girls born in China with genetic changes deliberately introduced by scientists – changes they will pass on to their own offspring. Genetic modification (GM) has been with us for 45 years now, but the new system known as CRISPR or gene editing can manipulate the genes of almost any organism with a degree of precision, ease and speed that we could only dream of ten years ago. But is it ethical to change the genetic material of organisms in a way that might be passed on to future generations? If a person is suffering from a lethal genetic disease, is it unethical to deny them this option? Who controls the application of this technology, when it makes 'biohacking' – perhaps of one's own genome – a real possibility? Nessa Carey's book is a thrilling and timely snapshot of a cutting-edge technology that will radically alter our futures and the way we prevent disease. 'A focused snapshot of a brave new world.' - Nature 'A brisk, accessible primer on the fast-moving field, a clear-eyed look at a technology that is already driving major scientific advances - and raising complex ethical questions.' - Emily Anthes, Undark

In The Field Guide to Hacking, the practises and protocols of hacking is defined by notions of peer production, self-organised communities, and the intellectual exercise of exploring anything beyond its intended purpose. Demonstrated by way of Dim Sum Labs hackerspace and its surrounding community, this collection of snapshots is the work generated from an organic nebula, culled from an overarching theme of exploration, curiosity, and output. This book reveals a range of techniques of both physical and digital, documented as project case studies. It also features contributions by researchers, artists, and scientists from prominent institutions to offer their perspectives on what it means to hack. Althogether, a manual to overcome the limitations of traditional methods of production.

The Art of Network Penetration Testing is a guide to simulating an internal security breach. You'll take on the role of the attacker and work through every stage of a professional pentest, from information gathering to seizing control of a system and owning the network. Summary Penetration testing is about more than just getting through a perimeter firewall. The biggest security threats are inside the network, where attackers can rampage through sensitive data by exploiting weak access controls and poorly patched software. Designed for up-and-coming security professionals, The Art of Network Penetration Testing teaches you how to take over an enterprise network from the inside. It lays out every stage of an internal security assessment step-by-step, showing you how to identify weaknesses before a malicious invader can do real damage. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Penetration testers uncover security gaps by attacking networks exactly like malicious intruders do. To become a world-class pentester, you need to master offensive security concepts, leverage a proven methodology, and practice, practice, practice. Th is book delivers insights from security expert Royce Davis, along with a virtual testing environment you can use to hone your skills. About the book The Art of Network Penetration Testing is a guide to simulating an internal security breach. You'll take on the role of the attacker and work through every stage of a professional pentest, from information gathering to seizing control of a system and owning the network. As you brute force passwords, exploit unpatched services, and elevate network level privileges, you'll learn where the weaknesses are—and how to take advantage of them. What's inside Set up a virtual pentest lab Exploit Windows and Linux network vulnerabilities Establish persistent re-entry to compromised targets Detail your findings in an engagement report About the reader For tech professionals. No security experience required. About the author Royce Davis has orchestrated hundreds of penetration tests, helping to secure many of the largest companies in the world. Table of Contents 1 Network Penetration Testing PHASE 1 - INFORMATION GATHERING 2 Discovering network hosts 3 Discovering network services 4 Discovering network vulnerabilities PHASE 2 - FOCUSED PENETRATION 5 Attacking vulnerable web services 6 Attacking vulnerable database services 7 Attacking unpatched services PHASE 3 - POST-EXPLOITATION AND PRIVILEGE ESCALATION 8 Windows post-exploitation 9 Linux or UNIX post-exploitation 10 Controlling the entire network PHASE 4 - DOCUMENTATION 11 Post-engagement cleanup 12 Writing a solid pentest deliverable

The ultimate hands-on guide to IT security and proactivedefense The Network Security Test Lab is a hands-on, step-by-stepguide to ultimate IT security implementation. Covering the fullcomplement of malware, viruses, and other attack technologies, thisessential guide walks you through the security assessment andpenetration testing process, and provides the set-up guidance youneed to build your own security-testing lab. You'll look inside theactual attacks to decode their methods, and learn how to runattacks in an isolated sandbox to better understand how attackerstarget systems, and how to build the defenses that stop them.You'll be introduced to tools like Wireshark, Networkminer, Nmap,Metasploit, and more as you discover techniques for defendingagainst network attacks, social networking bugs, malware, and themost prevalent malicious traffic. You also get access to opensource tools, demo software, and a bootable version of Linux tofacilitate hands-on learning and help you implement your newskills. Security technology continues to evolve, and yet not a week goesby without news of a new security breach or a new exploit beingreleased. The Network Security Test Lab is the ultimateguide when you are on the front lines of defense, providing themost up-to-date methods of thwarting would-be attackers. Get acquainted with your hardware, gear, and test platform Learn how attackers penetrate existing security systems Detect malicious activity and build effective defenses Investigate and analyze attacks to inform defense strategy The Network Security Test Lab is your complete, essentialguide.

This book gathers a selection of peer-reviewed papers presented at the first Big Data Analytics for Cyber-Physical System in Smart City (BDCPS 2019) conference, held in Shengyang, China, on 28–29 December 2019. The contributions, prepared by an international team of scientists and engineers, cover the latest advances made in the field of machine learning, and big data analytics methods and approaches for the data-driven co-design of communication, computing, and control for smart cities. Given its scope, it offers a valuable resource for all researchers and professionals interested in big data, smart cities, and cyber-physical systems.

This critical anthology sets out to explore the boom that horror cinema and TV productions have experienced in Spain in the past two decades. It uses a range of critical and theoretical perspectives to examine a broad variety of films and filmmakers, such as works by Alejandro Amenábar, Álex de la Iglesia, Pedro Almodóvar, Guillermo del Toro, Juan Antonio Bayona, and Jaume Balagueró and Paco Plaza. The volume revolves around a set of fundamental questions: What are the causes for this new Spanish horror-mania? What cultural anxieties and desires, ideological motives and practical interests may be behind such boom? Is there anything specifically "Spanish" about the Spanish horror film and TV productions, any distinctive traits different from Hollywood and other European models that may be associated to the particular political, social, economic or cultural circumstances of contemporary Spain?

Makerspaces: A Practical Guide for Librarians helps librarians create DIY (do-it-youself) spaces in academic or public libraries. Through this text, librarians will understand the mindset behind the maker movement; learn how to assess patron needs; and create a budget for and equip these spaces.

Raymond E. Barrett's Build-It-Yourself Science Laboratory is a classic book that took on an audacious task: to show young readers in the 1960s how to build a complete working science lab for chemistry, biology, and physics--and how to perform experiments with those tools. The experiments in this book are fearless and bold by today's standards--any number of the experiments might never be mentioned in a modern book for young readers! Yet, many from previous generations fondly remember how we as a society used to embrace scientific learning. This new version of Barrett's book has been updated for today's world with annotations and updates from Windell Oskay of Evil Mad Scientist Laboratories, including extensive notes about modern safety practices, suggestions on where to find the parts you need, and tips for building upon Barrett's ideas with modern technology. With this book, you'll be ready to take on your own scientific explorations at school, work, or home.