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Transport Layer Security (TLS), and its now-deprecated predecessor, Secure Sockets Layer (SSL), are cryptographic protocols designed to provide communications security over a computer network. Several versions of the protocols find widespread use in applications such as web browsing, email, instant messaging, and voice over IP (VoIP).Websites can use TLS to secure all communications between ...

Transport Layer Security - Wikipedia

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Attacking Network Protocols by James Forshaw ...
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Attacking Network Protocols- A Hacker's Guide to Capture, Analysis, and Exploitation

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A tweet from a crypto mining group published earlier this week has indicated that Grin has just endured a 51% attack on its blockchain.

GRIN | 51% attack | crypto news - Crypto Daily
Blacks and Hispanics receive less care from regionalized protocols aimed to deliver heart treatment to severe heart attack patients, according to study published in JAMA Network Open. "Regionalization was an attempt to equalize access to the gold standard of care for severe heart attack patients, but our research shows that inequalities have been exacerbated, not...

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you'll turn your focus to finding and exploiting vulnerabilities, with an overview of common bug classes, fuzzing, debugging, and exhaustion attacks. Learn how to: - Capture, manipulate, and replay packets - Develop tools to dissect traffic and reverse engineer code to understand the inner workings of a network protocol - Discover and exploit vulnerabilities such as memory corruptions, authentication bypasses, and denials of service - Use capture and analysis tools like Wireshark and develop your own custom network proxies to manipulate network traffic Attacking Network Protocols is a must-have for any penetration tester, bug hunter, or developer looking to understand and discover network vulnerabilities.

James Forshaw, Microsoft's #1 bug hunter in 2015, teaches readers how to find, exploit, and ultimately protect vulnerabilities in network protocols. Attacking Network Protocols offers security professionals and developers a deeper understanding of network protocols, to allow them to better understand networks, protect them against attack, and find new vulnerabilities.

The definitive guide to hacking the world of the Internet of Things (IoT) -- Internet connected devices such as medical devices, home assistants, smart home appliances and more. Drawing from the real-life exploits of five highly regarded IoT security researchers, Practical IoT Hacking teaches you how to test IoT systems,

devices, and protocols to mitigate risk. The book begins by walking you through common threats and a threat modeling framework. You'll develop a security testing methodology, discover the art of passive reconnaissance, and assess security on all layers of an IoT system. Next, you'll perform VLAN hopping, crack MQTT authentication, abuse UPnP, develop an mDNS poisoner, and craft WS-Discovery attacks. You'll tackle both hardware hacking and radio hacking, with in-depth coverage of attacks against embedded IoT devices and RFID systems. You'll also learn how to: □ Write a DICOM service scanner as an NSE module □ Hack a microcontroller through the UART and SWD interfaces □ Reverse engineer firmware and analyze mobile companion apps □ Develop an NFC fuzzer using Proxmark3 □ Hack a smart home by jamming wireless alarms, playing back IP camera feeds, and controlling a smart treadmill The tools and devices you'll use are affordable and readily available, so you can easily practice what you learn. Whether you're a security researcher, IT team member, or hacking hobbyist, you'll find Practical IoT Hacking indispensable in your efforts to hack all the things REQUIREMENTS: Basic knowledge of Linux command line, TCP/IP, and programming

The attacks on computers and business networks are growing daily, and the need for security professionals who understand how malfeasants perform attacks and compromise networks is a growing requirement to counter the threat. Network security education generally lacks appropriate textbooks with detailed, hands-on exercises that include both offensive and defensive techniques. Using step-by-step

processes to build and generate attacks using offensive techniques, Network Attacks and Defenses: A Hands-on Approach enables students to implement appropriate network security solutions within a laboratory environment. Topics covered in the labs include: Content Addressable Memory (CAM) table poisoning attacks on network switches Address Resolution Protocol (ARP) cache poisoning attacks The detection and prevention of abnormal ARP traffic Network traffic sniffing and the detection of Network Interface Cards (NICs) running in promiscuous mode Internet Protocol-Based Denial-of-Service (IP-based DoS) attacks Reconnaissance traffic Network traffic filtering and inspection Common mechanisms used for router security and device hardening Internet Protocol Security Virtual Private Network (IPsec VPN) security solution protocols, standards, types, and deployments Remote Access IPsec VPN security solution architecture and its design, components, architecture, and implementations These practical exercises go beyond theory to allow students to better anatomize and elaborate offensive and defensive techniques. Educators can use the model scenarios described in this book to design and implement innovative hands-on security exercises. Students who master the techniques in this book will be well armed to counter a broad range of network security threats.

This is the eBook version of the printed book. If the print book includes a CD-ROM, this content is not included within the eBook version. FUZZING Master One of Today's Most Powerful Techniques for Revealing Security Flaws! Fuzzing has

evolved into one of today's most effective approaches to test software security. To "fuzz," you attach a program's inputs to a source of random data, and then systematically identify the failures that arise. Hackers have relied on fuzzing for years: Now, it's your turn. In this book, renowned fuzzing experts show you how to use fuzzing to reveal weaknesses in your software before someone else does. Fuzzing is the first and only book to cover fuzzing from start to finish, bringing disciplined best practices to a technique that has traditionally been implemented informally. The authors begin by reviewing how fuzzing works and outlining its crucial advantages over other security testing methods. Next, they introduce state-of-the-art fuzzing techniques for finding vulnerabilities in network protocols, file formats, and web applications; demonstrate the use of automated fuzzing tools; and present several insightful case histories showing fuzzing at work. Coverage includes: □ Why fuzzing simplifies test design and catches flaws other methods miss □ The fuzzing process: from identifying inputs to assessing "exploitability" □ Understanding the requirements for effective fuzzing □ Comparing mutation-based and generation-based fuzzers □ Using and automating environment variable and argument fuzzing □ Mastering in-memory fuzzing techniques □ Constructing custom fuzzing frameworks and tools □ Implementing intelligent fault detection Attackers are already using fuzzing. You should, too. Whether you're a developer, security engineer, tester, or QA specialist, this book teaches you how to build secure software.

Seven Deadliest Network Attacks identifies seven classes of network attacks and discusses how the attack works, including tools to accomplish the attack, the risks of the attack, and how to defend against the attack. This book pinpoints the most dangerous hacks and exploits specific to networks, laying out the anatomy of these attacks including how to make your system more secure. You will discover the best ways to defend against these vicious hacks with step-by-step instruction and learn techniques to make your computer and network impenetrable. The book consists of seven chapters that deal with the following attacks: denial of service; war dialing; penetration testing; protocol tunneling; spanning tree attacks; man-in-the-middle; and password replay. These attacks are not mutually exclusive and were chosen because they help illustrate different aspects of network security. The principles on which they rely are unlikely to vanish any time soon, and they allow for the possibility of gaining something of interest to the attacker, from money to high-value data. This book is intended to provide practical, usable information. However, the world of network security is evolving very rapidly, and the attack that works today may (hopefully) not work tomorrow. It is more important, then, to understand the principles on which the attacks and exploits are based in order to properly plan either a network attack or a network defense. Seven Deadliest Network Attacks will appeal to information security professionals of all levels, network admins, and recreational hackers. Knowledge is power, find out about the most dominant attacks currently waging war on computers and networks globally Discover the best ways to defend against these vicious attacks; step-by-step

instruction shows you how Institute countermeasures, don't be caught defenseless again, and learn techniques to make your computer and network impenetrable

There are hundreds--if not thousands--of techniques used to compromise both Windows and Unix-based systems. Malicious code and new exploit scripts are released on a daily basis, and each evolution becomes more and more sophisticated. Keeping up with the myriad of systems used by hackers in the wild is a formidable task, and scrambling to patch each potential vulnerability or address each new attack one-by-one is a bit like emptying the Atlantic with paper cup.If you're a network administrator, the pressure is on you to defend your systems from attack. But short of devoting your life to becoming a security expert, what can you do to ensure the safety of your mission critical systems? Where do you start?Using the steps laid out by professional security analysts and consultants to identify and assess risks, Network Security Assessment offers an efficient testing model that an administrator can adopt, refine, and reuse to create proactive defensive strategies to protect their systems from the threats that are out there, as well as those still being developed.This thorough and insightful guide covers offensive technologies by grouping and analyzing them at a higher level--from both an offensive and defensive standpoint--helping administrators design and deploy networks that are immune to offensive exploits, tools, and scripts. Network administrators who need to develop and implement a security assessment program will find everything they're looking for--a proven, expert-tested

methodology on which to base their own comprehensive program--in this time-saving new book.

This book constitutes the refereed proceedings of the workshops held at the 16th Asia-Pacific Web Conference, APWeb 2014, in Changsha, China, in September 2014. The 34 full papers were carefully reviewed and selected from 59 submissions. This volume presents the papers that have been accepted for the following workshops: First International Workshop on Social Network Analysis, SNA 2014; First International Workshop on Network and Information Security, NIS 2014; First International Workshop on Internet of Things Search, IoTS 2014. The papers cover various issues in social network analysis, security and information retrieval against the heterogeneous big data.

As the sophistication of cyber-attacks increases, understanding how to defend critical infrastructure systems—energy production, water, gas, and other vital systems—becomes more important, and heavily mandated. Industrial Network Security, Second Edition arms you with the knowledge you need to understand the vulnerabilities of these distributed supervisory and control systems. The book examines the unique protocols and applications that are the foundation of industrial control systems, and provides clear guidelines for their protection. This how-to guide gives you thorough understanding of the unique challenges facing critical infrastructures, new guidelines and security measures for critical

infrastructure protection, knowledge of new and evolving security tools, and pointers on SCADA protocols and security implementation. All-new real-world examples of attacks against control systems, and more diagrams of systems Expanded coverage of protocols such as 61850, Ethernet/IP, CIP, ISA-99, and the evolution to IEC62443 Expanded coverage of Smart Grid security New coverage of signature-based detection, exploit-based vs. vulnerability-based detection, and signature reverse engineering