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Exam SY0-601
2021 International Conference on Communication Information and Computing Technology (ICCICT)
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OAuth 2.0 and Beyond
Security Protocols XIX
Machine Learning in the AWS Cloud
Open Reference Architecture for Security and Privacy
Efficient R Programming

KEY YANG

Challenges, Advances, and Applications Elsevier
This book constitutes the thoroughly refereed post-workshop proceedings of the 19th International Workshop on Security Protocols, held in Cambridge, UK, in March 2011. Following the tradition of this workshop series, each paper was revised by the authors to incorporate ideas from the workshop, and is followed in these proceedings by an edited transcription of the presentation and ensuing discussion. The volume contains 17 papers with their transcriptions as well as an introduction, i.e. 35 contributions in total. The theme of the workshop was "Alice doesn't live here anymore".
Tools and Jewels Financial Cryptography and Data Security22nd International Conference, FC 2018, Nieuwpoort, Curaçao, February 26 – March 2, 2018, Revised Selected Papers
Get ready for a career in IT security and efficiently prepare for the SY0-601 exam with a single, comprehensive resource CompTIA Security+ Practice Tests: Exam SY0-601, Second Edition efficiently prepares you for the CompTIA Security+ SY0-601 Exam with one practice exam and domain-by-domain questions. With a total of 1,000 practice questions, you'll be as prepared as possible to take Exam SY0-601. Written by accomplished author and IT security expert David Seidl, the 2nd Edition of CompTIA Security+ Practice Tests includes questions covering all five crucial domains and objectives on the SY0-601 exam: Attacks, Threats, and Vulnerabilities Architecture and Design Implementation Operations and Incident Response Governance, Risk, and

Compliance Perfect for anyone looking to prepare for the SY0-601 Exam, upgrade their skills by earning a high-level security certification (like CASP+, CISSP, or CISA), as well as anyone hoping to get into the IT security field, CompTIA Security+ Practice Tests allows for efficient and comprehensive preparation and study.
Spam Nation McGraw Hill Professional
Program your own Raspberry Pi projects Create innovative programs and fun games on your tiny yet powerful Raspberry Pi. In this book, electronics guru Simon Monk explains the basics of Raspberry Pi application development, while providing hands-on examples and ready-to-use scripts. See how to set up hardware and software, write and debug applications, create user-friendly interfaces, and control external electronics. Do-it-yourself projects include a hangman game, an LED clock, and a software-controlled roving robot. Boot up and configure your Raspberry Pi Navigate files, folders, and menus Create Python programs using the IDLE editor Work with strings, lists, and functions Use and write your own libraries, modules, and classes Add Web features to your programs Develop interactive games with Pygame Interface with devices through the GPIO port Build a Raspberry Pi Robot and LED Clock Build professional-quality GUIs using Tkinter
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Open source intelligence (OSINT) and web reconnaissance are rich topics for infosec professionals looking for the best ways to sift through the abundance of information widely available online. In many cases, the first stage of any security assessment—that is, reconnaissance—is not given enough attention by security professionals, hackers, and penetration testers. Often, the information openly present is as critical as the confidential data. Hacking Web Intelligence shows you how to dig into the Web and uncover the information many don't even know exists. The book takes a holistic approach that is not only about using tools to find information online but also how to link all the information and transform it into presentable and actionable intelligence. You will also learn how to secure your information online to prevent it being discovered by these reconnaissance methods. Hacking Web Intelligence is an in-depth technical reference covering the methods and techniques you need to unearth open source information from the Internet and utilize it for the purpose of targeted attack during a security assessment. This book will introduce you to many new and leading-edge reconnaissance, information gathering, and open source intelligence methods and techniques, including metadata extraction tools, advanced search engines, advanced browsers, power searching methods, online anonymity tools such as TOR and i2p, OSINT tools such as Maltego, Shodan, Creepy, SearchDiggity, Recon-ng, Social Network Analysis (SNA), Darkweb/Deepweb, data visualization, and much more. Provides a holistic approach to OSINT and Web recon, showing you how to fit all the data together into actionable intelligence Focuses on hands-on tools such as TOR, i2p, Maltego, Shodan, Creepy, SearchDiggity, Recon-ng, FOCA, EXIF, Metagoofil, MAT, and many more Covers key technical topics such as metadata searching, advanced browsers and power searching, online anonymity, Darkweb / Deepweb, Social Network Analysis (SNA), and how to manage,

analyze, and visualize the data you gather Includes hands-on technical examples and case studies, as well as a Python chapter that shows you how to create your own information-gathering tools and modify existing APIs

2021 International Conference on Communication Information and Computing Technology (ICCICT) John Wiley & Sons

Due to the continuously stream of security breaches two security architects in the Netherlands started a project to harvest good practices for better and faster creating architecture and privacy solution designs. This project resulted in a reference architecture that is aimed to help all security architects and designers worldwide. All kinds of topics that help creating a security or privacy solution architecture are outlined, such as: security and privacy principles, common attack vectors, threat models while in-depth guidelines are also given to evaluate the use of Open Source security and privacy application in various use cases.

22nd International Conference, FC 2018, Nieuwpoort, Curaçao, February 26 – March 2, 2018, Revised Selected Papers Packt Publishing Ltd

Stop manually analyzing binary! Practical Binary Analysis is the first book of its kind to present advanced binary analysis topics, such as binary instrumentation, dynamic taint analysis, and symbolic execution, in an accessible way. As malware increasingly obfuscates itself and applies anti-analysis techniques to thwart our analysis, we need more sophisticated methods that allow us to raise that dark curtain designed to keep us out--binary analysis can help. The goal of all binary analysis is to determine (and possibly modify) the true properties of binary programs to understand what they really do, rather than what we think they should do. While reverse engineering and disassembly are critical first steps in many forms of binary analysis, there is much more to be learned. This hands-on guide teaches you how to tackle the fascinating but challenging topics of binary analysis and instrumentation and helps you become proficient in an area typically only mastered by a small group of expert hackers. It will take you from basic concepts to state-of-the-art methods as you dig into topics like code injection, disassembly, dynamic taint analysis, and binary instrumentation. Written for security engineers, hackers, and those with a basic working knowledge of C/C++ and x86-64, Practical Binary Analysis will teach you in-depth how binary programs work and help you acquire the tools and techniques needed to gain more control and insight into binary programs. Once you've completed an introduction to basic binary formats, you'll learn how to analyze binaries using techniques like the GNU/Linux binary analysis toolchain, disassembly, and code injection. You'll then go on to implement profiling tools with Pin and learn how to build your own dynamic taint analysis tools with libdft and symbolic execution tools using Triton. You'll learn how to: - Parse ELF and PE binaries and build a binary loader with libbfd - Use data-flow analysis techniques like program tracing, slicing, and reaching definitions analysis to reason about runtime flow of your programs - Modify ELF binaries with techniques like parasitic code injection and hex editing - Build custom disassembly tools with Capstone - Use binary instrumentation to circumvent anti-analysis tricks commonly used by

malware - Apply taint analysis to detect control hijacking and data leak attacks - Use symbolic execution to build automatic exploitation tools With exercises at the end of each chapter to help solidify your skills, you'll go from understanding basic assembly to performing some of the most sophisticated binary analysis and instrumentation. Practical Binary Analysis gives you what you need to work effectively with binary programs and transform your knowledge from basic understanding to expert-level proficiency.

Building Secure and Reliable Systems Oreilly & Associates Incorporated

This book constitutes the refereed proceedings of the 35th IFIP TC 11 International Conference on Information Security and Privacy Protection, SEC 2020, held in Maribor, Slovenia, in September 2020. The conference was held virtually due to the COVID-19 pandemic. The 29 full papers presented were carefully reviewed and selected from 149 submissions. The papers present novel research on theoretical and practical aspects of security and privacy protection in ICT systems. They are organized in topical sections on channel attacks; connection security; human aspects of security and privacy; detecting malware and software weaknesses; system security; network security and privacy; access control and authentication; crypto currencies; privacy and security management; and machine learning and security.

Vocabulary of the Fulde Language Packt Publishing

This recommendation provides technical guidelines for Federal agencies implementing electronic authentication and is not intended to constrain the development or use of standards outside of this purpose. The recommendation covers remote authentication of users (such as employees, contractors, or private individuals) interacting with government IT systems over open networks. It defines technical requirements for each of four levels of assurance in the areas of identity proofing, registration, tokens, management processes, authentication protocols and related assertions. This publication supersedes NIST SP 800-63-1

Apache Security CreateSpace

Step aside, Bill Gates! Here comes today's real technology guru and his totally original, laugh-out-loud New York Times bestseller that looks at the approaching new millennium and boldly predicts: more stupidity ahead. In The Dilbert Principle and Dogbert's Top Secret Management Handbook, Scott Adams skewered the absurdities of the corporate world. Now he takes the next logical step, turning his keen analytical focus on how human greed, stupidity and horniness will shape the future. Featuring the same irresistible amalgam of essays and cartoons that made Adams previous works so singularly entertaining, this uproariously funny, dead-on-target tome offers half-truthful, half-farcical predictions that push all of today's hot buttons - from business and technology to society and government. Children - they are our future, so we're pretty much hosed. Tip: Grab what you can while they're still too little to stop us. Human Potential - we'll finally learn to use the 90 percent of the brain we don't use today, and find out that there wasn't anything in that part. Computers - Technology and homeliness will combine to form a powerful type of birth control. In The Dilbert Principle and Dogbert's Top Secret Management Handbook, Scott

Adams skewered the absurdities of the corporate world. Now he takes the next logical step, turning his keen analytical focus on how human greed, stupidity and horniness will shape the future. Featuring the same irresistible amalgam of essays and cartoons that made Adams previous works so singularly entertaining, this uproariously

19th International Workshop, Cambridge, UK, March 28-30, 2011, Revised Selected Papers Springer Nature

This book provides a concise yet comprehensive overview of computer and Internet security, suitable for a one-term introductory course for junior/senior undergrad or first-year graduate students. It is also suitable for self-study by anyone seeking a solid footing in security – including software developers and computing professionals, technical managers and government staff. An overriding focus is on brevity, without sacrificing breadth of core topics or technical detail within them. The aim is to enable a broad understanding in roughly 350 pages. Further prioritization is supported by designating as optional selected content within this. Fundamental academic concepts are reinforced by specifics and examples, and related to applied problems and real-world incidents. The first chapter provides a gentle overview and 20 design principles for security. The ten chapters that follow provide a framework for understanding computer and Internet security. They regularly refer back to the principles, with supporting examples. These principles are the conceptual counterparts of security-related error patterns that have been recurring in software and system designs for over 50 years. The book is “elementary” in that it assumes no background in security, but unlike “soft” high-level texts it does not avoid low-level details, instead it selectively dives into fine points for exemplary topics to concretely illustrate concepts and principles. The book is rigorous in the sense of being technically sound, but avoids both mathematical proofs and lengthy source-code examples that typically make books inaccessible to general audiences. Knowledge of elementary operating system and networking concepts is helpful, but review sections summarize the essential background. For graduate students, inline exercises and supplemental references provided in per-chapter endnotes provide a bridge to further topics and a springboard to the research literature; for those in industry and government, pointers are provided to helpful surveys and relevant standards, e.g., documents from the Internet Engineering Task Force (IETF), and the U.S. National Institute of Standards and Technology.

Ccs '17 O'Reilly Media

CCS '17: 2017 ACM SIGSAC Conference on Computer and Communications Security Oct 30, 2017-Nov 03, 2017 Dallas, USA. You can view more information about this proceeding and all of ACM�s other published conference proceedings from the ACM Digital Library: http://www.acm.org/dl.

Cloud Native Infrastructure John Wiley & Sons

This textbook is for courses in cyber security education that follow National Initiative for Cybersecurity Education (NICE) KSAs work roles and framework, that adopt the Competency-Based Education (CBE) method. The book follows

the CBT (KSA) general framework, meaning each chapter contains three sections, knowledge and questions, and skills/labs for Skills and Abilities. The author makes an explicit balance between knowledge and skills material in information security, giving readers immediate applicable skills. The book is divided into seven parts: Securely Provision; Operate and Maintain; Oversee and Govern; Protect and Defend; Analysis; Operate and Collect; Investigate. All classroom materials (in the book an ancillary) adhere to the NICE framework. Mirrors classes set up by the National Initiative for Cybersecurity Education (NICE) Adopts the Competency-Based Education (CBE) method of teaching, used by universities, corporations, and in government training Includes content and ancillaries that provide skill-based instruction on compliance laws, information security standards, risk response and recovery, and more

Thriving on Business Stupidity in the 21st Century "O'Reilly Media, Inc."

Online Terrorist Propaganda, Recruitment, and Radicalization is most complete treatment of the rapidly growing phenomenon of how terrorists' online presence is utilized for terrorism funding, communication, and recruitment purposes. The book offers an in-depth coverage of the history and development of online "footprints" to target new converts, broaden their messaging, and increase their influence. Chapters present the emergence of various groups; the advancement of terrorist groups' online presences; their utilization of video, chat room, and social media; and the current capability for propaganda, training, and recruitment. With contributions from leading experts in the field—including practitioners and terrorism researchers—the coverage moves from general factors to specific groups practices as relate to Islamic State of Iraq and the Levant (ISIL), and numerous other groups. Chapters also examine the lone wolf phenomenon as a part of the disturbing trend of self-radicalization. A functional, real-world approach is used regarding the classification of the means and methods by which an online presence is often utilized to promote and support acts of terrorism. Online Terrorist Propaganda, Recruitment, and Radicalization examines practical solutions in identifying the threat posed by terrorist propaganda and U.S. government efforts to counter it, with a particular focus on ISIS, the Dark Web, national and international measures to identify, thwart, and prosecute terrorist activities online. As such, it will be an invaluable resources for intelligence professionals, terrorism and counterterrorism professionals, those researching terrorism funding, and policy makers looking to restrict the spread of terrorism propaganda online.

Patterns for Scalable Infrastructure and Applications in a Dynamic Environment No Starch Press

Everything you need to succeed on the Google Cloud Certified Professional Cloud Architect exam in one accessible study guide Take the challenging Google Cloud Certified Professional Cloud Architect exam with confidence using the comprehensive information contained in this invaluable self-study guide. The book provides a thorough overview of cloud architecture and Google Cloud Platform (GCP) and shows you how to pass the test. Beyond exam preparation, the guide also serves as a valuable on-the-job reference.

Written by a recognized expert in the field, Google Cloud Certified Professional Cloud Architect All-In-One Exam Guideis based on proven pedagogy and features special elements that teach and reinforce practical skills. The book contains accurate practice questions and in-depth explanations. You will discover how to design, develop, and manage robust, secure, scalable, and highly available solutions to drive business objectives. Offers 100% coverage of every objective for the Google Cloud Certified Professional Cloud Architect exam Online content includes 100 additional practice questions in the TotalTester customizable exam engine Written by a Google Cloud Certified Professional Cloud Architect

Tribe of Hackers Blue Team Springer

This book provides a concise yet comprehensive overview of computer and Internet security, suitable for a one-term introductory course for junior/senior undergrad or first-year graduate students. It is also suitable for self-study by anyone seeking a solid footing in security – including software developers and computing professionals, technical managers and government staff. An overriding focus is on brevity, without sacrificing breadth of core topics or technical detail within them. The aim is to enable a broad understanding in roughly 350 pages. Further prioritization is supported by designating as optional selected content within this. Fundamental academic concepts are reinforced by specifics and examples, and related to applied problems and real-world incidents. The first chapter provides a gentle overview and 20 design principles for security. The ten chapters that follow provide a framework for understanding computer and Internet security. They regularly refer back to the principles, with supporting examples. These principles are the conceptual counterparts of security-related error patterns that have been recurring in software and system designs for over 50 years. The book is “elementary” in that it assumes no background in security, but unlike “soft” high-level texts it does not avoid low-level details, instead it selectively dives into fine points for exemplary topics to concretely illustrate concepts and principles. The book is rigorous in the sense of being technically sound, but avoids both mathematical proofs and lengthy source-code examples that typically make books inaccessible to general audiences. Knowledge of elementary operating system and networking concepts is helpful, but review sections summarize the essential background. For graduate students, inline exercises and supplemental references provided in per-chapter endnotes provide a bridge to further topics and a springboard to the research literature; for those in industry and government, pointers are provided to helpful surveys and relevant standards, e.g., documents from the Internet Engineering Task Force (IETF), and the U.S. National Institute of Standards and Technology.

HCI International 2020 - Posters John Wiley & Sons

Each chapter in the book is an individual project and each project is constructed with step-by-step instructions, clearly explained code, and includes the necessary screenshots. You should have basic OpenCV and C/C++ programming experience before reading this book, as it is aimed at Computer Science graduates, researchers, and computer vision experts

widening their expertise.
OAuth 2 in Action Harper Collins
Summary OAuth 2 in Action teaches you the practical use and deployment of this HTTP-based protocol from the perspectives of a client, authorization server, and resource server. You'll learn how to confidently and securely build and deploy OAuth on both the client and server sides. Foreword by Ian Glazer. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Think of OAuth 2 as the web version of a valet key. It is an HTTP-based security protocol that allows users of a service to enable applications to use that service on their behalf without handing over full control. And OAuth is used everywhere, from Facebook and Google, to startups and cloud services. About the Book OAuth 2 in Action teaches you practical use and deployment of OAuth 2 from the perspectives of a client, an authorization server, and a resource server. You'll begin with an overview of OAuth and its components and interactions. Next, you'll get hands-on and build an OAuth client, an authorization server, and a protected resource. Then you'll dig into tokens, dynamic client registration, and more advanced topics. By the end, you'll be able to confidently and securely build and deploy OAuth on both the client and server sides. What's Inside Covers OAuth 2 protocol and design Authorization with OAuth 2 OpenID Connect and User-Managed Access Implementation risks JOSE, introspection, revocation, and registration Protecting and accessing REST APIs About the Reader Readers need basic programming skills and knowledge of HTTP and JSON. About the Author Justin Richer is a systems architect and software engineer. Antonio Sanso is a security software engineer and a security researcher. Both authors contribute to open standards and open source. Table of Contents Part 1 - First steps What is OAuth 2.0 and why should you care? The OAuth dance Part 2 - Building an OAuth 2 environment Building a simple OAuth client Building a simple OAuth protected resource Building a simple OAuth authorization server OAuth 2.0 in the real world Part 3 - OAuth 2 implementation and vulnerabilities Common client vulnerabilities Common protected resources vulnerabilities Common authorization server vulnerabilities Common OAuth token vulnerabilities Part 4 - Taking OAuth further OAuth tokens Dynamic client registration User authentication with OAuth 2.0 Protocols and profiles using OAuth 2.0 Beyond bearer tokens Summary and conclusions
Advanced API Security Apress
There are many excellent R resources for visualization, data science, and package development. Hundreds of scattered vignettes, web pages, and forums explain how to use R in particular domains. But little has been written on how to simply make R work effectively—until now. This hands-on book teaches novices and experienced R users how to write efficient R code. Drawing on years of experience teaching R courses, authors Colin Gillespie and Robin Lovelace provide practical advice on a range of topics—from optimizing the set-up of RStudio to leveraging C++—that make this book a useful addition to any R user’s bookshelf. Academics, business users, and programmers from a wide range of backgrounds stand to benefit from the

guidance in Efficient R Programming. Get advice for setting up an R programming environment Explore general programming concepts and R coding techniques Understand the ingredients of an efficient R workflow Learn how to efficiently read and write data in R Dive into data carpentry—the vital skill for cleaning raw data Optimize your code with profiling, standard tricks, and other methods Determine your hardware capabilities for handling R computation Maximize the benefits of collaborative R programming Accelerate your transition from R hacker to R programmer

Springer Nature

This conference aims at bringing together academia and industry to foster research and provide a platform for future collaborations The conference will include keynote speeches, invited talks, technical sessions (oral and poster), along with a special panel session on the theme Women in Engineering Original research papers on the tracks related to conference theme are solicited

Computer Security and the Internet

No Starch Press

Computer Graphics from Scratch demystifies the algorithms used in modern graphics software and guides beginners through building photorealistic 3D renders. Computer graphics programming books are often math-heavy and intimidating for newcomers. Not this one. Computer Graphics from Scratch takes a simpler approach by keeping the math to a minimum and focusing on only one aspect of computer graphics, 3D rendering. You'll build two complete, fully functional renderers: a raytracer, which simulates rays of light as they bounce off objects, and a rasterizer, which converts 3D models into 2D pixels. As you progress you'll learn how to create realistic reflections and shadows, and how to render a scene from any point of view. Pseudocode examples throughout make it easy to write your renderers in any language, and links to live JavaScript demos of each algorithm invite you to explore further on your own. Learn how to: • Use perspective projection to draw 3D objects on a 2D plane • Simulate the way rays of light interact with surfaces • Add mirror-like reflections and cast shadows to objects • Render a scene from any camera position using clipping planes • Use flat, Gouraud, and Phong shading to mimic real surface lighting • Paint texture details onto basic shapes to create realistic-looking objects Whether you're an aspiring graphics engineer or a novice programmer curious about how graphics algorithms work, Gabriel Gambetta's simple, clear explanations will quickly put computer graphics concepts and rendering techniques within your reach. All you need is basic coding knowledge and high school math. Computer Graphics from Scratch will cover the rest.

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