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Computer Security – ESORICS 2020 Createspace Independent Publishing Platform

Summary Kubernetes in Action is a comprehensive guide to effectively developing and running applications in a Kubernetes environment. Before diving into Kubernetes, the book gives an overview of container technologies like Docker, including how to build containers, so that even readers who haven't used these technologies before can get up and running. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Kubernetes is Greek for "helmsman," your guide through unknown waters. The Kubernetes container orchestration system safely manages the structure and flow of a distributed application, organizing containers and services for maximum efficiency. Kubernetes serves as an operating system for your clusters, eliminating the need to factor the underlying network and server infrastructure into your designs. About the Book Kubernetes in Action teaches you to use Kubernetes to deploy container-based distributed applications. You'll start with an overview of Docker and Kubernetes before building your first Kubernetes cluster. You'll gradually expand your initial application, adding features and deepening your knowledge of Kubernetes architecture and operation. As you navigate this comprehensive guide, you'll explore high-value topics like monitoring, tuning, and scaling. What's Inside Kubernetes' internals Deploying containers across a cluster Securing clusters Updating applications with zero downtime About the Reader Written for intermediate software developers with little or no familiarity with Docker or container orchestration systems. About the Author Marko Luksa is an engineer at Red Hat working on Kubernetes and OpenShift. Table of Contents PART 1 - OVERVIEW Introducing Kubernetes First steps with Docker and Kubernetes PART 2 - CORE CONCEPTS Pods: running containers in Kubernetes Replication and other controllers: deploying managed pods Services: enabling clients to discover and talk to pods Volumes: attaching disk storage to containers ConfigMaps and Secrets: configuring applications Accessing pod metadata and other resources from applications Deployments: updating applications declaratively StatefulSets: deploying replicated stateful applications PART 3 - BEYOND THE BASICS Understanding Kubernetes internals Securing the Kubernetes API server Securing cluster nodes and the network Managing pods' computational resources Automatic scaling of pods and cluster nodes Advanced scheduling Best practices for developing apps Extending Kubernetes

[Virtual Product Creation in Industry](#) Springer

This book constitutes the revised selected papers of the 9th International Conference on Networked Systems, NETYS 2021, held virtually in May 2021. The 15 revised full papers and 2 short papers presented were carefully reviewed and selected from 32 submissions. The papers are organized in

the following thematic blocks: distributed systems, blockchain, and verification.

The Party Springer Science & Business Media

Ascend AI Processor Architecture and Programming Principles and Applications of CANNElsevier

Proceedings of the Sixth International Conference on Green and Human Information Technology Springer

This volume constitutes the refereed proceedings of the 11th IFIP WG 11.2 International Conference on Information Security Theory and Practices, WISTP 2017, held in Heraklion, Crete, Greece, in September 2017. The 8 revised full papers and 4 short papers presented were carefully reviewed and selected from 35 submissions. The papers are organized in the following topical sections: security in emerging systems; security of data; trusted execution; defenses and evaluation; and protocols and algorithms.

Algorithms for VLSI Physical Design Automation Random House

Personal computing is changing from an old world of local services provided by local devices to a new world of remote Web-based services provided by cloud computing-based data centres. This book explores in detail what might be required to make a comprehensive move to this exciting new world and the many benefits that move could bring.

[25th European Symposium on Research in Computer Security, ESORICS 2020, Guildford, UK, September 14-18, 2020, Proceedings, Part I](#) Addison-Wesley Professional

This holistic book is an invaluable reference for addressing various practical challenges in architecting and engineering Intelligent IoT and eHealth solutions for industry practitioners, academic and researchers, as well as for engineers involved in product development. The first part provides a comprehensive guide to fundamentals, applications, challenges, technical and economic benefits, and promises of the Internet of Things using examples of real-world applications. It also addresses all important aspects of designing and engineering cutting-edge IoT solutions using a cross-layer approach from device to fog, and cloud covering standards, protocols, design principles, reference architectures, as well as all the underlying technologies, pillars, and components such as embedded systems, network, cloud computing, data storage, data processing, big data analytics, machine learning, distributed ledger technologies, and security. In addition, it discusses the effects of Intelligent IoT, which are reflected in new business models and digital transformation. The second part provides an insightful guide to the design and deployment of IoT solutions for smart healthcare as one of the most important applications of IoT. Therefore, the second part targets smart healthcare-wearable sensors, body area sensors, advanced pervasive healthcare systems, and big data analytics that are aimed at providing connected health interventions to individuals for healthier lifestyles.

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[24th European Symposium on Research in Computer Security, Luxembourg, September 23-27, 2019, Proceedings, Part II](#) Troubador Publishing Ltd

This is the book version of a special issue of the International Journal of High Speed Electronics and Systems, reviewing recent work in the field of compound semiconductor integrated circuits. There are fourteen invited papers covering a wide range of applications, frequencies and materials. These papers deal with digital, analog, microwave and millimeter-wave technologies, devices and integrated circuits for wireline fiber-optic lightwave transmissions, and wireless radio-frequency microwave and millimeter-wave communications. In each case, the market is young and experiencing rapid growth for both commercial and military applications. Many new semiconductor technologies compete for these new markets, leading to an alphabet soup of semiconductor materials described in these papers. The book also includes three papers focused on radiation effects and reliability in III-V semiconductor electronics, which are useful for reference and future directions. Moreover, reliability is covered in several papers separately for certain process technologies. Contents: Present and Future of High-Speed Compound Semiconductor IC's (T Otsuji); The Transforming MMIC (E J Martinez); Distributed Amplifier for Fiber-Optic Communication Systems

(H Shigematsu et al.); Microwave GaN-Based Power Transistors on Large-Scale Silicon Wafers (S Manohar et al.); Radiation Effects in High Speed III-V Integrated Circuits (T R Weatherford); Radiation Effects in III-V Semiconductor Electronics (B D Weaver et al.); Reliability and Radiation Hardness of Compound Semiconductors (S A Kayali & A H Johnston); and other papers. Readership: Engineers, scientists and graduate students working on high speed electronics and systems, and in the area of compound semiconductor integrated circuits.

China's Policies for Semiconductors Simon and Schuster

This open access book clarifies confusions of strategy that have existed for nearly 40 years through the core thoughts of three fundamental elements. Unlike the traditional definition of strategy as "a plan to achieve a long-term goal from overall considerations" in a linear view, this book defines strategy from non-linear viewpoint as it is in the real world. The art of a strategy lies not only in the determination of development goals, but also in the identification of development problems and putting forward overall guiding ideology of solving problems. Rich illustrations as well as numerous business and military cases are presented in helping readers to understand the fundamental elements of strategy. The general scope of the book includes introductions to the three fundamental elements of strategy, three-sub decisions of a complete strategic decision, incomplete strategies, relationship between tactic and strategy, three elements of competitive and corporative strategies. There may be biases in company-level, real strategic decision-making which makes a complete strategy not necessarily a perfect one. The book introduces biases and reasons for the biases, helping industrial strategic decision-makers understand the importance of knowing the nature of the company, the industry and its environment. In addition, this book also presents principles and evaluation approaches of strategic decisions, explores the reasons for the excessive definitions of the strategy concept, and discusses directions of future's research tasks. The book will benefit business managers who are interested in knowing what a complete strategic decision is and how to avoid errors or biases in strategic decision-making. It also benefits students in business schools (especially in MBA/EMBA programs) who are (or will be) on executive positions. Academic researchers may find it is interesting to understand strategy from the view of the three elements. The new view provides a novel insight into strategy and promotes several research directions in the future. The three elements of strategy are also applicable to military strategies and readers who are interested in military and may find its value as well.

World Intellectual Property Indicators 2021 WIPO

Ascend AI Processor Architecture and Programming: Principles and Applications of CANN offers in-depth AI applications using Huawei's Ascend chip, presenting and analyzing the unique performance and attributes of this processor. The title introduces the fundamental theory of AI, the software and hardware architecture of the Ascend AI processor, related tools and programming technology, and typical application cases. It demonstrates internal software and hardware design principles, system tools and programming techniques for the processor, laying out the elements of AI programming technology needed by researchers developing AI applications. Chapters cover the theoretical fundamentals of AI and deep learning, the state of the industry, including the current state of Neural Network Processors, deep learning frameworks, and a deep learning compilation framework, the

hardware architecture of the Ascend AI processor, programming methods and practices for developing the processor, and finally, detailed case studies on data and algorithms for AI. Presents the performance and attributes of the Huawei Ascend AI processor Describes the software and hardware architecture of the Ascend processor Lays out the elements of AI theory, processor architecture, and AI applications Provides detailed case studies on data and algorithms for AI Offers insights into processor architecture and programming to spark new AI applications

The Linux Programming Interface Springer

This volume presents the Proceedings of the Sixth International Conference on Green and Human Information Technology (ICGHIT), held in Chiang Mai, Thailand, Jan 31-Feb 2, 2018. ICGHIT is the unique global conference for researchers, industry professionals, and academics interested in the latest development of green and human information technology. Its broad scope ranges from electronics to communications, computers, multimedia and signal processing, control and intelligent systems, IC and convergence technologies, which are related to green and human issues such as energy saving and human welfare. Specially in this volume, ICGHIT covers state-of-the-art technologies for the 4th industrial revolution, for example, cyber security, big data and cloud service, smart medical system, machine learning and its applications.

Программирование для Android. Самоучитель. 3-е издание Springer Nature

This is the origin story of technology super heroes: the creators and founders of ARM, the company that is responsible for the processors found inside 95% of the world's mobile devices today. This is also the evolution story of how three companies - Apple, Samsung, and Qualcomm - put ARM technology in the hands of billions of people through smartphones, tablets, music players, and more. It was anything but a straight line from idea to success for ARM. The story starts with the triumph of BBC Micro engineers Steve Furber and Sophie Wilson, who make the audacious decision to design their own microprocessor - and it works the first time. The question becomes, how to sell it? Part I follows ARM as its founders launch their own company, select a new leader, a new strategy, and find themselves partnered with Apple, TI, Nokia, and other companies just as digital technology starts to unleash mobile devices. ARM grows rapidly, even as other semiconductor firms struggle in the dot com meltdown, and establishes itself as a standard for embedded RISC processors. Apple aficionados will find the opening of Part II of interest the moment Steve Jobs returns and changes the direction toward fulfilling consumer dreams. Samsung devotees will see how that firm evolved from its earliest days in consumer electronics and semiconductors through a philosophical shift to innovation. Qualcomm followers will learn much of their history as it plays out from satellite communications to development of a mobile phone standard and emergence as a leading fabless semiconductor company. If ARM could be summarized in one word, it would be "collaboration." Throughout this story, from Foreword to Epilogue, efforts to develop an ecosystem are highlighted. Familiar names such as Google, Intel, Mediatek, Microsoft, Motorola, TSMC, and others are interwoven throughout. The evolution of ARM's first 25 years as a company wraps up with a shift to its next strategy: the Internet of Things, the ultimate connector for people and devices. Research for this story is extensive, simplifying a complex mobile industry timeline and uncovering critical points where ARM and other companies made fateful and sometimes surprising decisions. Rare photos,

summary diagrams and tables, and unique perspectives from insiders add insight to this important telling of technology history.

Huawei Goes Global Springer Nature

China is certainly doing its best to keep the world mesmerized by its economic achievements. The Chinese economic growth story that begun 30 years ago has in terms of dynamics and duration long since surpassed all those "economic miracles" which have brought Germany, Japan, and the South East Asian Tigers into the top-league of the industrialized world. The rapid expansion of the Chinese economy has gone along with a fledgling re-integration of China into the global economic system. In the course of the last 30 years China has become a major player in the global economy and today is on a trajectory towards even greater prominence. In recent years, the Chinese economy seems to have reached an important threshold line of economic development and global integration. In the first quarter century of reform and global opening, Chinese enterprises have been largely confined to a 'passive' role in the global division of labor. Foreign enterprises as the proprietors of greatly superior business models, production technologies, management models as well as very competitively established brands have been integrating Chinese players in their value chains and global operations. Lacking the necessary production technologies, products as well as marketing knowledge to successfully address OECD-consumers, Chinese enterprises have been hardly able to enter the global markets without such guidance. Now, this constellation is changing.

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[Principles and Applications of CANN Springer](#)

The Bash Guide for Beginners (Second Edition) discusses concepts useful in the daily life of the serious Bash user. While a basic knowledge of shell usage is required, it starts with a discussion of shell building blocks and common practices. Then it presents the grep, awk and sed tools that will later be used to create more interesting examples. The second half of the course is about shell constructs such as loops, conditional tests, functions and traps, and a number of ways to make interactive scripts. All chapters come with examples and exercises that will help you become familiar with the theory.

Bash Guide for Beginners (Second Edition) Pearson Education India

Huawei Goes Global provides a much-needed, comprehensive, and scholarly examination of the business environment and the striving global operations of China's technology giant. With theoretical research, case studies, data analysis, and empirical studies, this two-volume work tells a fascinating story of internationalization in an emerging economy. As one of the most powerful Chinese companies in the global economy, the largest global telecommunications-equipment producer and a leading consumer-electronics manufacturer, Huawei is a great example of the globalization of the Chinese enterprises in the twenty-first century. In Volume I, scholars critically examine the rise of Huawei as a Chinese global enterprise from the political economy and public policy perspectives, as well as Huawei's development strategies, innovations, and talent management. In Volume II, multiple authors carefully study the growth of Huawei from regional and geopolitical perspectives, and its corporate communication and crisis management. Within the

framework of the trade conflicts between China and the US, controversies over economic sanctions, intellectual-property disputes, and espionage and cyber security concerns, this groundbreaking work makes an important contribution to both academic literature and the ongoing public discourse on Huawei. Volume II is available here: <https://www.palgrave.com/gp/book/9783030475635>

The Secret World of China's Communist Rulers Intel Books

This volume constitutes the refereed proceedings of the 11th IFIP WG 11.2 International Conference on Information Security Theory and Practices, WISTP 2017, held in Heraklion, Crete, Greece, in September 2017. The 8 revised full papers and 4 short papers presented were carefully reviewed and selected from 35 submissions. The papers are organized in the following topical sections: security in emerging systems; security of data; trusted execution; defenses and evaluation; and protocols and algorithms.

Patent Management Springer

This book gathers selected papers presented at the 2020 World Conference on Information Systems and Technologies (WorldCIST'20), held in Budva, Montenegro, from April 7 to 10, 2020. WorldCIST provides a global forum for researchers and practitioners to present and discuss recent results and innovations, current trends, professional experiences with and challenges regarding various aspects of modern information systems and technologies. The main topics covered are A) Information and Knowledge Management; B) Organizational Models and Information Systems; C) Software and Systems Modeling; D) Software Systems, Architectures, Applications and Tools; E) Multimedia Systems and Applications; F) Computer Networks, Mobility and Pervasive Systems; G) Intelligent and Decision Support Systems; H) Big Data Analytics and Applications; I) Human-Computer Interaction; J) Ethics, Computers & Security; K) Health Informatics; L) Information Technologies in Education; M) Information Technologies in Radiocommunications; and N) Technologies for Biomedical Applications.

Volume II: Regional, Geopolitical Perspectives and Crisis Management Springer Nature

The Linux Programming Interface (TLPI) is the definitive guide to the Linux and UNIX programming interface—the interface employed by nearly every application that runs on a Linux or UNIX system. In this authoritative work, Linux programming expert Michael Kerrisk provides detailed descriptions of the system calls and library functions that you need in order to master the craft of system

programming, and accompanies his explanations with clear, complete example programs. You'll find descriptions of over 500 system calls and library functions, and more than 200 example programs, 88 tables, and 115 diagrams. You'll learn how to: -Read and write files efficiently -Use signals, clocks, and timers -Create processes and execute programs -Write secure programs -Write multithreaded programs using POSIX threads -Build and use shared libraries -Perform interprocess communication using pipes, message queues, shared memory, and semaphores -Write network applications with the sockets API While The Linux Programming Interface covers a wealth of Linux-specific features, including epoll, inotify, and the /proc file system, its emphasis on UNIX standards (POSIX.1-2001/SUSv3 and POSIX.1-2008/SUSv4) makes it equally valuable to programmers working on other UNIX platforms. The Linux Programming Interface is the most comprehensive single-volume work on the Linux and UNIX programming interface, and a book that's destined to become a new classic.

11th IFIP WG 11.2 International Conference, WISTP 2017, Heraklion, Crete, Greece, September 28-29, 2017, Proceedings Springer Nature

This authoritative report analyzes IP activity around the globe. Drawing on 2020 filing, registration and renewals statistics from national and regional IP offices and WIPO, it covers patents, utility models, trademarks, industrial designs, microorganisms, plant variety protection and geographical indications. The report also draws on survey data and industry sources to give a picture of activity in the publishing industry.

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REVIEW OF HISILICON WIKIPEDIA

- This is a timeless classic I can now share with my daughter as my mother shared it with me. The lessons of family, sacrifice and perseverance are as relevant now as then.
- My God-mother gave me this book. After chapter one, I was hooked, but since I'm not usually into the "classics", I was quite surprised at how much I liked it. I read this book in about 3 or 4 days. It's a must read. Read this one. Your eyes will thank you later.