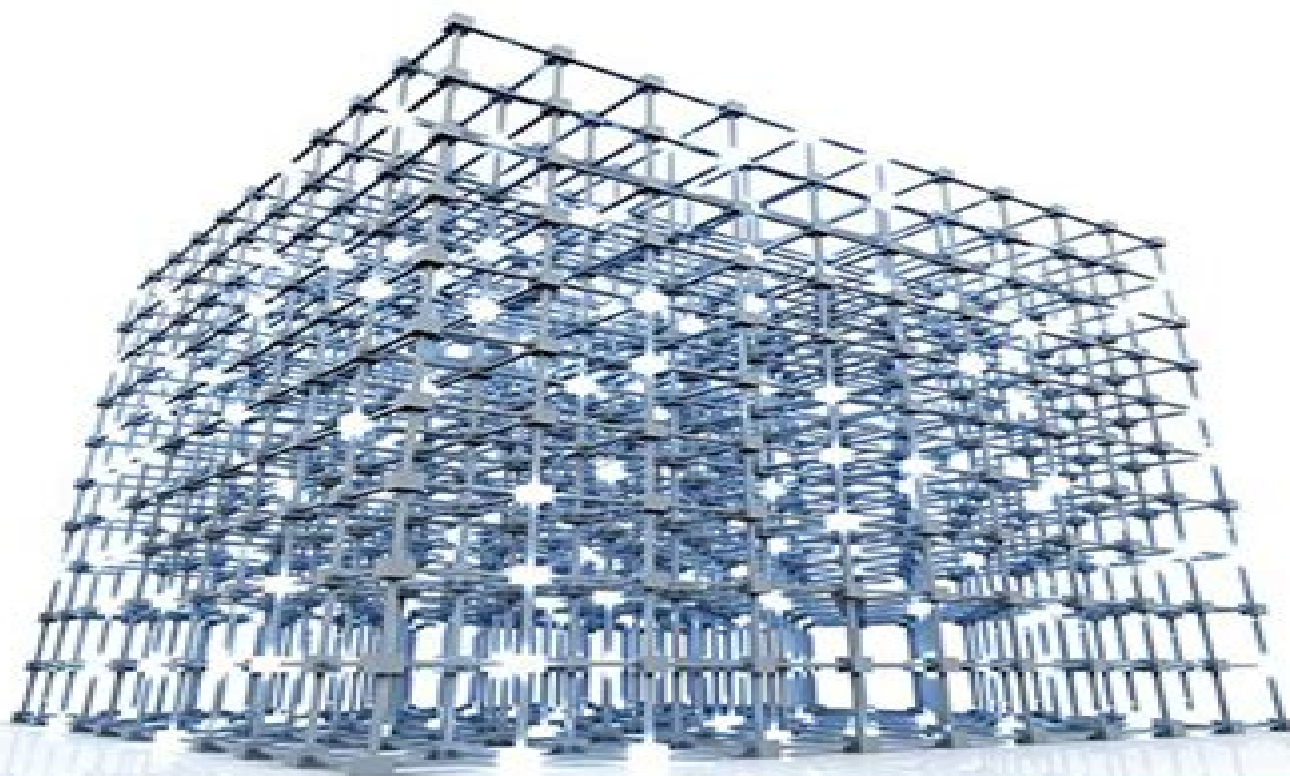


William Stallings



Foundations of Modern Networking

SDN, NFV, QoE, IoT, and Cloud



Foundations Of Modern Networking Sdn Nfv Qoe Iot And Cloud

Kamel Haddadou, Guy Pujolle



Foundations Of Modern Networking Sdn Nfv Qoe Iot And Cloud:

Foundations of Modern Networking William Stallings, Florence Agboma, Sofiene Jelassi, 2016 **Software Defined Networking, Network Function Virtualization, and Quality of Experience** William Stallings, 2015-10-12

Dr William Stallings SDN NFV and QoE Foundations of Modern Networking is a comprehensive and unified survey of modern networking technology and applications for today's technical professionals, business professionals, and students. Using the same teaching approach that has earned him 13 Computer Science Textbook of the Year Awards, Dr Stallings imparts a thorough understanding of SDN technology, how it works, how it is deployed, and how enterprises of all sizes can use it to deliver superior Quality of Service (QoS) and Quality of Experience (QoE). Step by step, Stallings illuminates a wide range of crucial issues and technologies associated with modern networking in modern cloud-oriented, mobile, and big data environments. He offers complete and self-contained coverage of each technology area, helping readers gain mastery without resorting to other reference material. Coverage includes:

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Foundations of Modern Networking is a comprehensive unified survey of modern networking technology and applications for today's professionals, managers, and students. Dr William Stallings offers clear and well-organized coverage of five key technologies that are transforming networks: Software Defined Networks (SDN), Network Functions Virtualization (NFV), Quality of Experience (QoE), the Internet of Things (IoT), and cloud-based services. Dr Stallings reviews current network ecosystems and the challenges they face, from Big Data and mobility to security and complexity. Next, he offers complete self-contained coverage of each new set of technologies, how they work, how they are architected, and how they can be applied to solve real problems. Dr Stallings presents a chapter-length analysis of emerging security issues in modern networks. He concludes with an up-to-date discussion of networking careers, including important recent changes in roles and skill requirements.

Coverage includes:

- Elements of the modern networking ecosystem: technologies, architecture, services, and applications.
- Evolving requirements of current network environments.
- SDN concepts, rationale, applications, and standards.

across data control and application planes OpenFlow OpenDaylight and other key SDN technologies Network functions virtualization concepts technology applications and software defined infrastructure Ensuring customer Quality of Experience QoE with interactive video and multimedia network traffic Cloud networking services deployment models architecture and linkages to SDN and NFV IoT and fog computing in depth key components of IoT enabled devices model architectures and example implementations Securing SDN NFV cloud and IoT environments Career preparation and ongoing education for tomorrow s networking careers Key Features Strong coverage of unifying principles and practical techniques More than a hundred figures that clarify key concepts Web support at williamstallings.com Network QR codes throughout linking to the website and other resources Keyword acronym lists recommended readings and glossary Margin note definitions of key words throughout the text

Sdn And Nfv: A New Dimension To Virtualization Brij B Gupta,Amrita Dahiya,Elhadj Benkhelifa,2024-01-08 Software defined network SDN and network function virtualization NFV are two technology trends that have revolutionized network management particularly in highly distributed networks that are used in public private or hybrid cloud services SDN and NFV technologies when combined simplify the deployment of network resources lower capital and operating expenses and offer greater network flexibility The increasing usage of NFV is one of the primary factors that make SDN adoption attractive The integration of these two technologies SDN and NFV offer a complementary service with NFV delivering many of the real services controlled in an SDN While SDN is focused on the control plane NFV optimizes the actual network services that manage the data flows Devices such as routers firewalls and VPN terminators are replaced with virtual devices that run on commodity hardware in NFV physical networking This resembles the as a service typical model of cloud services in many aspects These virtual devices can be accessed on demand by communication network or data center providers This book illustrates the fundamentals and evolution of SDN and NFV and highlights how these two technologies can be integrated to solve traditional networking problems In addition it will focus on the utilization of SDN and NFV to enhance network security which will open ways to integrate them with current technologies such as IoT edge computing and blockchain SDN based network programmability and current network orchestration technologies The basics of SDN and NFV and associated issues challenges technological advancements along with advantages and risks of shifting networking paradigm towards SDN are also discussed Detailed exercises within the book and corresponding solutions are available online as accompanying supplementary material

Guide to Security in SDN and NFV Shao Ying Zhu,Sandra Scott-Hayward,Ludovic Jacquin,Richard Hill,2017-11-10 This book highlights the importance of security in the design development and deployment of systems based on Software Defined Networking SDN and Network Functions Virtualization NFV together referred to as SDNFV Presenting a comprehensive guide to the application of security mechanisms in the context of SDNFV the content spans fundamental theory practical solutions and potential applications in future networks Topics and features introduces the key security challenges of SDN NFV and Cloud Computing providing a detailed tutorial on

NFV security discusses the issue of trust in SDN NFV environments covering roots of trust services and proposing a technique to evaluate trust by exploiting remote attestation reviews a range of specific SDNFV security solutions including a DDoS detection and remediation framework and a security policy transition framework for SDN describes the implementation of a virtual home gateway and a project that combines dynamic security monitoring with big data analytics to detect network wide threats examines the security implications of SDNFV in evolving and future networks from network based threats to Industry 4.0 machines to the security requirements for 5G investigates security in the Observe Orient Decide and Act OODA paradigm and proposes a monitoring solution for a Named Data Networking NDN architecture includes review questions in each chapter to test the reader's understanding of each of the key concepts described This informative and practical volume is an essential resource for researchers interested in the potential of SDNFV systems to address a broad range of network security challenges The work will also be of great benefit to practitioners wishing to design secure next generation communication networks or to develop new security related mechanisms for SDNFV systems

Cloud Computing Security John R. Vacca, 2020-11-09 This handbook offers a comprehensive overview of cloud computing security technology and implementation while exploring practical solutions to a wide range of cloud computing security issues As more organizations use cloud computing and cloud providers for data operations the need for proper security in these and other potentially vulnerable areas has become a global priority for organizations of all sizes Research efforts from academia and industry as conducted and reported by experts in all aspects of security related to cloud computing are gathered within one reference guide Features Covers patching and configuration vulnerabilities of a cloud server Evaluates methods for data encryption and long term storage in a cloud server Demonstrates how to verify identity using a certificate chain and how to detect inappropriate changes to data or system configurations John R Vacca is an information technology consultant and internationally known author of more than 600 articles in the areas of advanced storage computer security and aerospace technology John was also a configuration management specialist computer specialist and the computer security official CSO for NASA's space station program Freedom and the International Space Station Program from 1988 until his retirement from NASA in 1995

User-Centric and Information-Centric Networking and Services M. Bala Krishna, 2019-04-29 User Centric Networks UCN and Information Centric Networks ICN are new communication paradigms to increase the efficiency of content delivery and also content availability In this new concept the network infrastructure actively contributes to content caching and distribution This book presents the basic concepts of UCN and ICN describes the main architecture proposals for these networks and discusses the main challenges to their development The book also looks at the current challenges for this concept including naming routing and caching on the network core elements several aspects of content security user privacy and practical issues in implementing UCN and ICN

Inventing the Cloud Century Marcus Oppitz, Peter Tomsu, 2017-08-03 This book combines the three dimensions of technology society and

economy to explore the advent of today's cloud ecosystems as successors to older service ecosystems based on networks. Further, it describes the shifting of services to the cloud as a long-term trend that is still progressing rapidly. The book adopts a comprehensive perspective on the key success factors for the technology compelling business models and ecosystems, including private, public, and national organizations. The authors explore the evolution of service ecosystems, describe the similarities and differences, and analyze the way they have created and changed industries. Lastly, based on the current status of cloud computing and related technologies like virtualization, the Internet of Things, fog computing, big data, and analytics, cognitive computing, and blockchain, the authors provide a revealing outlook on the possibilities of future technologies, the future of the Internet, and the potential impacts on business and society.

Mobile and Wireless Communications with Practical Use-Case Scenarios Ramona Trestian, 2022-12-22. The growing popularity of advanced multimedia-rich applications along with the increasing affordability of high-end smart mobile devices has led to a massive growth in mobile data traffic that puts significant pressure on the underlying network technology. However, no single network technology will be equipped to deal with this explosion of mobile data traffic. While wireless technologies had a spectacular evolution over the past years, the present trend is to adopt a global heterogeneous network of shared standards that enables the provisioning of quality of service and quality of experience to the end user. To this end, enabling technologies like machine learning, Internet of Things, and digital twins are seen as promising solutions for next-generation networks that will enable an intelligent, adaptive, interconnected environment with support for prediction and decision making so that the heterogeneous applications and users' requirements can be highly satisfied. The aim of this textbook is to provide the readers with a comprehensive technical foundation of the mobile communication systems and wireless network design and operations and applications of various radio access technologies. Additionally, it also introduces the reader to the latest advancements in technologies in terms of Internet of Things ecosystems, machine learning, and digital twins for IoT-enabled intelligent environments. Furthermore, this textbook also includes practical use-case scenarios using Altair WinProp Software as well as Python, TensorFlow, and Jupyter as support for practice-based laboratory sessions.

Mobile Computing, Applications, and Services Jing Liu, Honghao Gao, Yuyu Yin, Zhongqin Bi, 2020-12-18. This book constitutes the thoroughly refereed post-conference proceedings of the 11th International Conference on Mobile Computing Applications and Services (MobiCASE 2020) held in Shanghai, China, in September 2020. The conference was held virtually due to the COVID-19 pandemic. The 15 full papers were carefully reviewed and selected from 49 submissions. The papers are organized in topical sections on mobile application and framework, mobile application with data analysis, and AI application.

Software-Defined Network Frameworks Mandeep Kaur, Vishal Jain, Parma Nand, Nitin Rakesh, 2024-04-22. Software-Defined Networks (SDN) work by virtualization of the network, and the Cognitive Software-Defined Network (CSDN) combines the efficiencies of SDN with cognitive learning algorithms and enhanced protocols to automatize SDN. Partial deployment of SDN along with traditional networking devices forms a Hybrid

Software Defined Network HSDN Software Defined Network Frameworks Security Issues and Use Cases consolidates the research relating to the security in SDN CSDN and Hybrid SDNs The security enhancements derived from the use of various SDN frameworks and the security challenges thus introduced are also discussed Overall this book explains the different architectures of SDNs and the security challenges needed for implementing them Features Illustrates different frameworks of SDN and their security issues in a single volume Discusses design and assessment of efficient SDN northbound southbound interfaces Describes cognitive computing affective computing machine learning and other novel tools Illustrates coupling of SDN and traditional networking Hybrid SDN Explores services technologies algorithms and methods for data analysis in CSDN The book is aimed at researchers and graduate students in software engineering network security computer networks high performance computing communications engineering and intelligent systems

Modern Sensing Technologies Subhas Chandra Mukhopadhyay, Krishanthi P. Jayasundera, Octavian Adrian Postolache, 2018-08-24 This book provides an overview of modern sensing technologies and reflects the remarkable advances that have been made in the field of intelligent and smart sensors environmental monitoring health monitoring and many other sensing and monitoring contexts in today's world It addresses a broad range of aspects from human health monitoring to the monitoring of environmental conditions from wireless sensor networks and the Internet of Things to structural health monitoring Given its breadth of scope the book will benefit researchers practitioners technologists and graduate students involved in the monitoring of systems within the human body functions and activities healthcare technologies and services the environment etc

Enabling Technologies and Architectures for Next-Generation Networking Capabilities Elkhodr, Mahmoud, 2018-10-19 With the rise of mobile and wireless technologies more sustainable networks are necessary to support communication These next generation networks can now be utilized to extend the growing era of the Internet of Things Enabling Technologies and Architectures for Next Generation Networking Capabilities is an essential reference source that explores the latest research and trends in large scale 5G technologies deployment software defined networking and other emerging network technologies Featuring research on topics such as data management heterogeneous networks and spectrum sensing this book is ideally designed for computer engineers technology developers network administrators and researchers professionals and graduate level students seeking coverage on current and future network technologies

5G Ulrich Trick, 2021-02-22 With 5G telecommunications networks have entered a new phase 5G mobile networks use unique concepts and technologies to deliver current and future applications across a wide spectrum from high bit rate smartphones to high availability car to x and mass IoT applications This book on 5G technology starts with the evolution of mobile networks to 5G It then addresses basic concepts and technologies such as NGN IMS virtualization with NFV and MEC SDN and Service Function Chaining The 5G environment is comprehensively presented starting with use cases and usage scenarios and moving on to concrete requirements as well as the standardization at ITU and especially 3GPP including

regulation In this context the 5G system design the 5G access networks with their high performance transmission technology and the core network with the innovative concepts of Service Based Architecture and Network Slicing play a significant role A 5G system is presented here in an integrated view rounded off by an overview of all relevant IT security aspects The overall view is concluded by looking at the environmental influences of electromagnetic radiation and the energy and raw material resources requirements Furthermore the future development of 5G up to 6G is outlined The book s main objective is to provide people interested in 5G technology and application scenarios with a well founded knowledge for an introduction to 5G and encourage further discussion of this topic The target audience is generally technically interested persons mostly employees of public and private network operators This book should be of particular interest especially within the IT departments of potential 5G user companies and of course among computer science and electrical engineering students

Cloud and Edge Networking Kamel Haddadou,Guy Pujolle,2024-01-04 A major transformation in the world of networks is underway as the focus shifts from physical technology to software based solutions In this book the authors present this new generation of networks that are based in the Cloud by detailing the transition from a complex environment to a simple digital infrastructure This infrastructure brings together connected devices the antennas that collect radio waves the optical fibers that carry signals and the data center that handles all of the different processes From this perspective the data center becomes the brain managing network services controls automation intelligence security and other applications This architecture is relevant to carrier networks the Internet of Things enterprise networks and the global networks of the major Internet companies Cloud and Edge Networking further discusses developments at the border of networks the Edge where data is processed as near as possible to the source Over the next ten years the Edge will become a major strategic factor

Artificial Intelligence, Blockchain, Computing and Security Volume 2 Arvind Dagur,Karan Singh,Pawan Singh Mehra,Dhirendra Kumar Shukla,2023-12-01 This book contains the conference proceedings of ICABCS 2023 a non profit conference with the objective to provide a platform that allows academicians researchers scholars and students from various institutions universities and industries in India and abroad to exchange their research and innovative ideas in the field of Artificial Intelligence Blockchain Computing and Security It explores the recent advancement in field of Artificial Intelligence Blockchain Communication and Security in this digital era for novice to profound knowledge about cutting edges in artificial intelligence financial secure transaction monitoring real time assistance and security for advanced stage learners researchers academicians The key features of this book are Broad knowledge and research trends in artificial intelligence and blockchain with security and their role in smart living assistance Depiction of system model and architecture for clear picture of AI in real life Discussion on the role of Artificial Intelligence and Blockchain in various real life problems across sectors including banking healthcare navigation communication security Explanation of the challenges and opportunities in AI and Blockchain based healthcare education banking and related industries This book will be of great interest to

researchers academicians undergraduate students postgraduate students research scholars industry professionals technologists and entrepreneurs

Software Defined Systems Deze Zeng, Lin Gu, Shengli Pan, Song Guo, 2019-11-25 This book introduces the software defined system concept architecture and its enabling technologies such as software defined sensor networks SDN software defined radio cloud fog radio access networks C F RAN software defined networking SDN network function virtualization NFV software defined storage virtualization and docker The authors also discuss the resource allocation and task scheduling in software defined system mainly focusing on sensing communication networking and computation Related case studies on SDN C F RAN SDN NFV are included in this book and the authors discuss how these technologies cooperate with each other to enable cross resource management and task scheduling in software defined system Novel resource allocation and task scheduling algorithms are introduced and evaluated This book targets researchers computer scientists and engineers who are interested in the information system softwarization technologies resource allocation and optimization algorithm design performance evaluation and analysis next generation communication and networking technologies edge computing cloud computing and IoT Advanced level students studying these topics will benefit from this book as well

5G Wireless William Stallings, 2021-07-05 Gain a Deep Practical Understanding of 5G Technology Applications Architecture Standards and Ecosystem The 5G ultra high speed wireless communication standard is a major technological leap forward substantially increasing speed and capacity enhancing current use cases and making many new applications practical For technical professionals managers and students 5G requires significant new knowledge and expertise In 5G Wireless A Comprehensive Introduction renowned information technology author William Stallings presents a comprehensive and unified explanation of 5G s key applications technologies and standards Like Stallings other award winning texts this guide will help you quickly find the information and gain the mastery to succeed with critical new technology Stallings first explains how cellular networks have evolved through 4G and now 5G and surveys 5G s application areas and use cases Next he thoroughly introduces the 5G core network covering SDN NFV network slicing QoS and edge computing and provides a detailed coverage of the 5G air interface and radio access network Throughout key concepts are illuminated through realistic examples review questions help you test your understanding and references support further exploration Understand the 5G ecosystem its building blocks standards and R D roadmaps Explore the Enhanced Mobile Broadband eMBB use case where 5G enhances 4G in applications such as smart offices and dense urban communications Learn how Massive Machine Type Communications mMTC and Ultra Reliable and Low Latency Communications URLLC support new applications such as fog IoT and cloud Discover how 5G NextGen core backbone networks serve and interconnect wireless access networks that connect user devices Master key 5G NR Air Interface and Radio Access Network RAN concepts including millimeter wave transmission MIMO antennas and OFDM multiplexing

Methodology to Improve Control Plane Security in SDN Environments Wendwossen Desalegn, Javed Shaikh, Bayisa Taye, 2024-08-26 This book unveils

a blueprint for safeguarding the very backbone of modern communication networks It offers a roadmap towards fortifying SDN infrastructures against the relentless onslaught of cyber threats ensuring resilience and reliability in an ever evolving digital landscape This is an exhaustive study of crafting a robust security solution tailored for the SDN environment specifically targeting the detection and mitigation of distributed denial of service DDoS attacks on the control plane The methodology hinges on an early detection strategy meticulously aligned with industry standards serving as a beacon for professionals navigating the intricate realm of implementing security solutions This reference elucidates an innovative approach devised to identify and mitigate the inherent risks associated with the OpenFlow protocol and its POX controller Validated through rigorous simulations conducted within controlled environments utilizing the Mininet tool and SDN controller the methodology unfolds showcasing the intricate dance between theory and practice Through meticulous observation of detection algorithm results in simulated environments followed by real world implementation within network testbeds the proposed solution emerges triumphant Leveraging network entropy calculation coupled with swift port blocking mechanisms the methodology stands as a formidable barrier against a DDoS attack such as TCP UDP and ICMP floods

Software Defined Networks Anand Nayyar,Bhawna Singla,Preeti Nagrath,2022-06-21 SOFTWARE DEFINED NETWORKS Software defined networking suggests an alternative worldview one that comes with a new software stack to which this book is organized with the goal of presenting a top to bottom tour of SDN without leaving any significant gaps that the reader might suspect can only be filled with magic or proprietary code Software defined networking SDN is an architecture designed to make a network more flexible and easier to manage SDN has been widely adopted across data centers WANs and access networks and serves as a foundational element of a comprehensive intent based networking IBN architecture Although SDN has so far been limited to automated provisioning and configuration IBN now adds translation and assurance so that the complete network cycle can be automated continuously aligning the network to business needs In 14 chapters this book provides a comprehensive understanding of an SDN based network as a scalable distributed system running on commodity hardware The reader will have a one stop reference looking into the applications architectures functionalities virtualization security and privacy challenges connected to SDN Audience Researchers in software IT and electronic engineering as well as industry engineers and technologists working in areas such as network virtualization Python network programming CISCO ACI software defined network and cloud computing

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