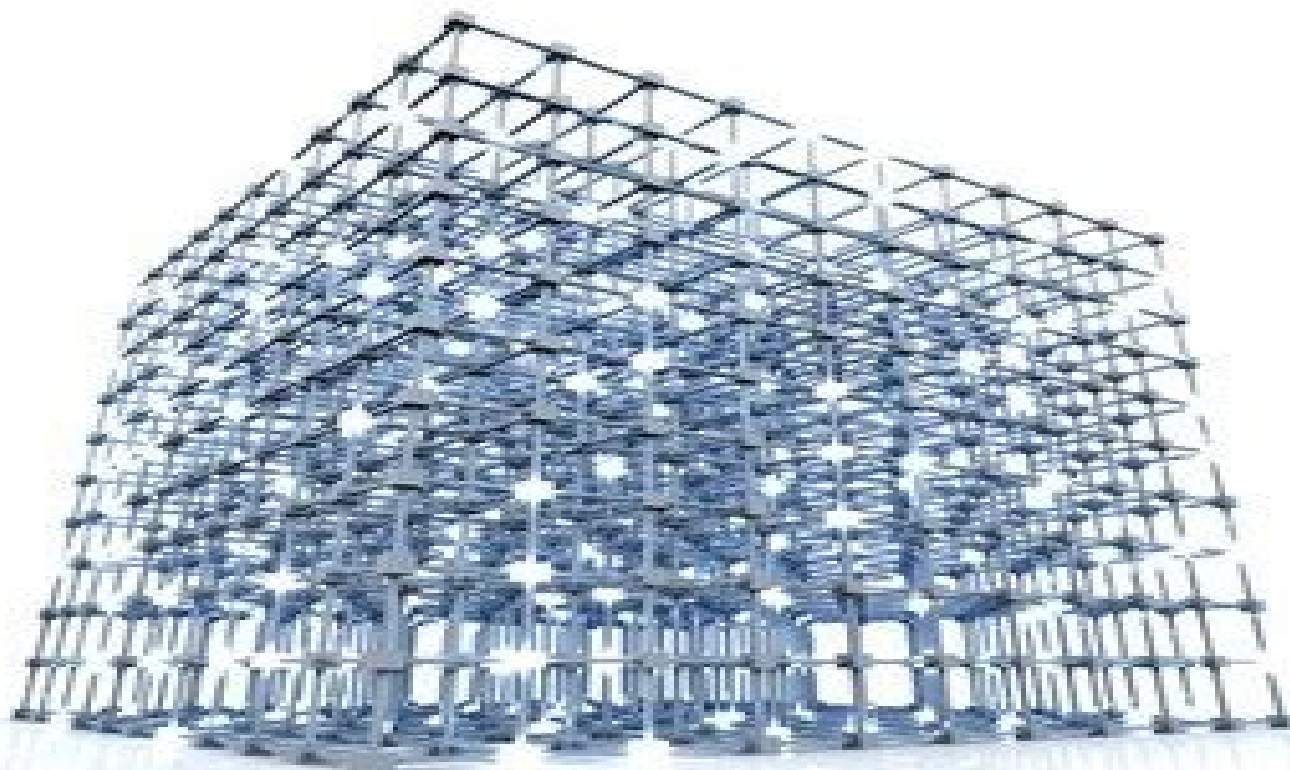


William Stallings



Foundations of Modern Networking

SDN, NFV, QoE, IoT, and Cloud



Foundations Of Modern Networking Sdn Nfv Qoe Iot And Cloud

Deze Zeng,Lin Gu,Song Guo



Foundations Of Modern Networking Sdn Nfv Qoe Iot And Cloud:

Foundations of Modern Networking William Stallings, Florence Agboma, Sofiene Jelassi, 2016

Foundations of Modern Networking William Stallings, 2015-10-27 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.

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: A new network paradigm; how revolutionary enterprise requirements and technologies are driving the need for complex software-defined QoS/QoE.

aware networks SDN infrastructure concepts technology components interactions standards including OpenFlow evaluation deployment migration and usage User needs Evolving QoS QoE to identify customer needs and tailoring modern networks to fully and flexibly respond including coverage of Integrated Services Architecture ISA differentiates services SLAs IP performance metrics and QoE New QoE applications OTT IPTV and more Modern network applications cloud computing services big data the Internet of Things IoT and more Security implications of SDN and cloud computing Career related issues changing roles of network professionals new skill requirements and how to educate yourself for a career in modern networking To promote faster learning and deeper mastery Stallings includes chapter learning objectives keyword lists summaries and review questions a complete glossary and QR codes throughout linking to the book's website and other resources

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

Advances in Computer Science for Engineering and Education Zhengbing Hu,Sergey Petoukhov,Ivan Dychka,Matthew He,2018-05-11 This book features high quality peer reviewed research papers presented at the First International Conference on Computer Science Engineering and

Education Applications ICCSEEA2018 held in Kiev Ukraine on 18 20 January 2018 and organized jointly by the National Technical University of Ukraine Igor Sikorsky Kyiv Polytechnic Institute and the International Research Association of Modern Education and Computer Science The state of the art papers discuss topics in computer science such as neural networks pattern recognition engineering techniques genetic coding systems deep learning with its medical applications as well as knowledge representation and its applications in education It is an excellent reference resource for researchers graduate students engineers management practitioners and undergraduate students interested in computer science and their applications in engineering and education

Advances in Computing, Communication, Automation and Biomedical Technology M. G. Sumithra ,Arulmurugan Ramu ,Chow Chee Onn,2020-12-30 Advances in Computing Communication Automation and Biomedical Technology aims to bring together leading academic scientists researchers industry representatives postdoctoral fellows and research scholars around the world to share their knowledge and research expertise to advances in the areas of Computing Communication Electrical Civil Mechanical and Biomedical Systems as well as to create a prospective collaboration and networking on various areas It also provides a premier interdisciplinary platform for researchers practitioners and educators to present and discuss the most recent innovations trends and concerns as well as practical challenges encountered and solutions adopted in the fields of innovation

Building the Network of the Future Krish Prabhu,2017-06-26 From the Foreword This book lays out much of what we ve learned at AT T all while managing one of the biggest networks in the world It is an amazing feat that will put AT T in a leading position for years to come Jim Zemlin Executive Director The Linux Foundation This book is based on the lessons learned from AT T s software transformation journey starting in 2012 when rampant traffic growth necessitated a change in network architecture and design Using new technologies such as NFV SDN Cloud and Big Data AT T s engineers outlined and implemented a radical network transformation program that dramatically reduced capital and operating expenditures This book describes the transformation in substantial detail The subject matter is of great interest to telecom professionals worldwide as well as academic researchers looking to apply the latest techniques in computer science to solving telecom s big problems around scalability resilience and survivability

Advances in Edge Computing: Massive Parallel Processing and Applications Fatos Xhafa,Arun Kumar Sangaiah,2020-03-15 The rapid advance of Internet of Things IoT technologies has resulted in the number of IoT connected devices growing exponentially with billions of connected devices worldwide While this development brings with it great opportunities for many fields of science engineering business and everyday life it also presents challenges such as an architectural bottleneck with a very large number of IoT devices connected to a rather small number of servers in Cloud data centers and the problem of data deluge Edge computing aims to alleviate the computational burden of the IoT for the Cloud by pushing some of the computations and logics of processing from the Cloud to the Edge of the Internet It is becoming commonplace to allocate tasks and applications such as data filtering classification semantic enrichment and data

aggregation to this layer but to prevent this new layer from itself becoming another bottleneck for the whole computing stack from IoT to the Cloud the Edge computing layer needs to be capable of implementing massively parallel and distributed algorithms efficiently This book Advances in Edge Computing Massive Parallel Processing and Applications addresses these challenges in 11 chapters Subjects covered include Fog storage software architecture IoT based crowdsourcing the industrial Internet of Things privacy issues smart home management in the Cloud and the Fog and a cloud robotic solution to assist medical applications Providing an overview of developments in the field the book will be of interest to all those working with the Internet of Things and Edge computing

SDN and NFV Simplified Jim Doherty, 2016-02-24 A Visual Guide to Understanding Software Defined Networks and Network Function Virtualization The simple visual at a glance guide to SDN and NFV Core concepts business drivers key technologies and more SDN Software Defined Networks and NFV Network Function Virtualization are today s hottest areas of networking Many executives investors sales professionals and marketers need a solid working understanding of these technologies but most books on the subject are written specifically for network engineers and other technical experts SDN and NFV Simplified fills that gap offering highly visual at a glance explanations of SDN NFV and their underlying virtualizations Built around an illustrated story telling approach this answers the questions Why does this technology matter How does it work Where is it used What problems does it solve Through easy whiteboard style infographics you ll learn how virtualization enables SDN and NFV how datacenters are virtualized through clouds how networks can also be virtualized and how to maximize security visibility and Quality of Experience in tomorrow s fully virtualized environments Step by step you ll discover why SDN and NFV technologies are completely redefining both enterprise and carrier networks and driving the most dramatic technology migration since IP networking That s not all You ll learn all you need to help lead this transformation Learn how virtualization establishes the foundation for SDN and NFV Review the benefits of VMs the role of hypervisors and the management of virtual resources Discover how cloud technologies enable datacenter virtualization Understand the roles of networking gear in virtualized datacenters See VMWare VMotion and VXLAN at work in the virtualized datacenter Understand multitenancy and the challenges of communal living Learn how core network functions and appliances can be virtualized Ensure performance and scalability in virtualized networks Compare modern approaches to network virtualization including OpenFlow VMWare Nicira Cisco Insieme and OpenStack Walk through the business case for SDN NFV and the Cloud Discover how the Software Defined Network SDN solves problems previously left unaddressed Understand SDN controllers and who s fighting to control your network Use SDN and NFV to improve integration and say goodbye to truck rolls Enforce security avoid data leakage and protect assets through encryption Provide for effective monitoring and consistent Quality of Experience QoE Learn how SDN and NFV will affect you and what s next

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

□□□□□□□□□□, 2016 **Software-Defined Networking for Future Internet Technology** Kshira Sagar Sahoo, Bibhudatta Sahoo, Brojo Kishore Mishra, 2021-09-30 Network infrastructures are growing rapidly to meet the needs of business but the required repolicing and reconfiguration provide challenges that need to be addressed The software defined network SDN is the future generation of Internet technology that can help meet these challenges of network management This book includes quantitative research case studies conceptual papers model papers review papers and theoretical backing on SDN This book investigates areas where SDN can help other emerging technologies deliver more efficient services such as IoT industrial IoT NFV big data blockchain cloud computing and edge computing The book demonstrates the many benefits of SDNs such as reduced costs ease of deployment and management better scalability availability flexibility and fine grained control of traffic and security The book demonstrates the many benefits of SDN such as reduced costs ease of deployment and management better scalability availability flexibility and fine grained control of traffic and security Chapters in the volume address Design considerations for security issues and detection methods State of the art approaches for mitigating DDos attacks using SDN Big data using Apache Hadoop for processing and analyzing large amounts of data Different tools used for attack simulation Network policies and policy management approaches that are widely used in the context of SDN Dynamic flow tables or static flow table management A new four tiered architecture that includes cloud SDN controller and fog computing Architecture for keeping computing resources available near the industrial IoT network through edge computing The impact of SDN as an innovative approach for smart

city development More The book will be a valuable resource for SDN researchers as well as academicians research scholars and students in the related areas [Orchestrating and Automating Security for the Internet of Things](#) Anthony Sabella,Rik Irons-Mclean,Marcelo Yannuzzi,2018-06-04 Master powerful techniques and approaches for securing IoT systems of all kinds current and emerging Internet of Things IoT technology adoption is accelerating but IoT presents complex new security challenges Fortunately IoT standards and standardized architectures are emerging to help technical professionals systematically harden their IoT environments In Orchestrating and Automating Security for the Internet of Things three Cisco experts show how to safeguard current and future IoT systems by delivering security through new NFV and SDN architectures and related IoT security standards The authors first review the current state of IoT networks and architectures identifying key security risks associated with nonstandardized early deployments and showing how early adopters have attempted to respond Next they introduce more mature architectures built around NFV and SDN You ll discover why these lend themselves well to IoT and IoT security and master advanced approaches for protecting them Finally the authors preview future approaches to improving IoT security and present real world use case examples This is an indispensable resource for all technical and security professionals business security and risk managers and consultants who are responsible for systems that incorporate or utilize IoT devices or expect to be responsible for them Understand the challenges involved in securing current IoT networks and architectures Master IoT security fundamentals standards and modern best practices Systematically plan for IoT security Leverage Software Defined Networking SDN and Network Function Virtualization NFV to harden IoT networks Deploy the advanced IoT platform and use MANO to manage and orchestrate virtualized network functions Implement platform security services including identity authentication authorization and accounting Detect threats and protect data in IoT environments Secure IoT in the context of remote access and VPNs Safeguard the IoT platform itself Explore use cases ranging from smart cities and advanced energy systems to the connected car Preview evolving concepts that will shape the future of IoT security [Learning OpenDaylight](#) Reza Toghraee,2017-05-29 A practical guide to building programmable networks using OpenDaylight About This Book Learn and understand how SDN controllers operate and integrate with networks this book s step by step tutorials will give you a strong foundation in SDN NVF and OpenDayLight Learn how to map legacy Layer 2 3 networking technologies in the SDN world Add new services and capabilities to your infrastructure and quickly adopt SDN and NFV within your organization with OpenDayLight Integrate and manage software defined networks efficiently in your organization Build innovative network applications with OpenDayLight and save time and resources Who This Book Is For This book targets network engineers network programmers and developers administrators and anyone with some level of networking experience who d like to deploy OpenDayLight effectively Familiarity with the day to day operations of computer networks is expected What You Will Learn Transition from legacy networking to software defined networking Learn how SDN controllers work and manage a network using southbound and northbound APIs Learn

how to deploy the OpenDayLight SDN controller and integrate it with virtual switches Understand the basic design and operation of the OpenDaylight platform Build simple MD SAL OpenDaylight applications Build applications on top of OpenDayLight to trigger network changes based on different events Integrate OpenStack with OpenDayLight to build a fully managed network Learn how to build a software defined datacenter using NFV and service chaining technologies In Detail OpenDaylight is an open source software defined network controller based on standard protocols It aims to accelerate the adoption of Software Defined Networking SDN and create a solid foundation for Network Functions Virtualization NFV SDN is a vast subject many network engineers find it difficult to get started with using and operating different SDN platforms This book will give you a practical bridge from SDN theory to the practical real world use of SDN in datacenters and by cloud providers The book will help you understand the features and use cases for SDN NFV and OpenDaylight NFV uses virtualization concepts and techniques to create virtual classes for node functions Used together SDN and NFV can elevate the standards of your network architecture generic hardware saving costs and the advanced and abstracted software will give you the freedom to evolve your network in the future without having to invest more in costly equipment By the end of this book you will have learned how to design and deploy OpenDaylight networks and integrate them with physical network switches You will also have mastered basic network programming over the SDN fabric Style and approach This is a step by step tutorial aimed at getting you up to speed with OpenDayLight and ready to adopt it for your SDN Software Defined Networking and NFV Network Functions Virtualization ecosystem

Autonomous Control for a Reliable Internet of Services Ivan Ganchev,R. D. van der Mei,Hans van den Berg,2018-05-30 This open access book was prepared as a Final Publication of the COST Action IC1304 Autonomous Control for a Reliable Internet of Services ACROSS The book contains 14 chapters and constitutes a show case of the main outcome of the Action in line with its scientific goals It will serve as a valuable reference for undergraduate and post graduate students educators faculty members researchers engineers and research strategists working in this field The explosive growth of the Internet has fundamentally changed the global society The emergence of concepts like SOA SaaS PaaS IaaS NaaS and Cloud Computing in general has catalyzed the migration from the information oriented Internet into an Internet of Services IoS This has opened up virtually unbounded possibilities for the creation of new and innovative services that facilitate business processes and improve the quality of life However this also calls for new approaches to ensuring the quality and reliability of these services The objective of this book is by applying a systematic approach to assess the state of the art and consolidate the main research results achieved in this area

Cloud Networking for Big Data Deze Zeng,Lin Gu,Song Guo,2015-12-09 This book introduces two basic big data processing paradigms for batch data and streaming data Representative programming frameworks are also presented as well as software defined networking SDN and network function virtualization NFV technologies as key cloud networking technologies The authors illustrate that SDN and NFV can be applied to benefit the big data processing by proposing a cloud

networking framework Based on the framework two case studies examine how to improve the cost efficiency of big data processing Cloud Networking for Big Data targets professionals and researchers working in big data networks wireless communications and information technology Advanced level students studying computer science and electrical engineering will also find this book valuable as a study guide

Software-Defined Networking (SDN) with OpenStack Sriram Subramanian, Sreenivas Voruganti, 2016-10-28 Leverage the best SDN technologies for your OpenStack based cloud infrastructure About This Book Learn how to leverage critical SDN technologies for OpenStack Networking APIs via plugins and drivers Champion the skills of achieving complete SDN with OpenStack with specific use cases and capabilities only covered in this title Discover exactly how you could implement cost effective OpenStack SDN integration for your organization Who This Book Is For Administrators and cloud operators who would like to implement Software Defined Networking on OpenStack clouds Some prior experience of network infrastructure and networking concepts is assumed What You Will Learn Understand how OVS is used for Overlay networks Get familiar with SDN Controllers with Architectural details and functionalities Create core ODL services and understand how OpenDaylight integrates with OpenStack to provide SDN capabilities Understand OpenContrail architecture and how it supports key SDN functionality such as Service Function Chaining SFC along with OpenStack Explore Open Network Operating System ONOS a carrier grade SDN platform embraced by the biggest telecom service providers Learn about upcoming SDN technologies in OpenStack such as Dragonflow and OVN In Detail Networking is one the pillars of OpenStack and OpenStack Networking are designed to support programmability and Software Defined Networks OpenStack Networking has been evolving from simple APIs and functionality in Quantum to more complex capabilities in Neutron Armed with the basic knowledge this book will help the readers to explore popular SDN technologies namely OpenDaylight ODL OpenContrail Open Network Operating System ONOS and Open Virtual Network OVN The first couple of chapters will provide an overview of OpenStack Networking and SDN in general Thereafter a set of chapters are devoted to OpenDaylight ODL OpenContrail and their integration with OpenStack Networking The book then introduces you to Open Network Operating System ONOS which is fast becoming a carrier grade SDN platform We will conclude the book with overview of upcoming SDN projects within OpenStack namely OVN and Dragonflow By the end of the book the readers will be familiar with SDN technologies and know how they can be leveraged in an OpenStack based cloud Style and approach A hands on practical tutorial through use cases and examples for Software Defined Networking with OpenStack

SDN and NFV Security Rahamatullah Khondoker, 2018-01-29 This book provides security analyses of several Software Defined Networking SDN and Network Functions Virtualization NFV applications using Microsoft's threat modeling framework STRIDE Before deploying new technologies in the production environment their security aspects must be considered Software Defined Networking SDN and Network Functions Virtualization NFV are two new technologies used to increase e.g. the manageability security and flexibility of enterprise

production cloud IT environments Also featuring a wealth of diagrams to help illustrate the concepts discussed the book is ideally suited as a guide for all IT security professionals engineers and researchers who need IT security recommendations on deploying SDN and NFV technologies Virtualized Software-Defined Networks and Services Qiang Duan,Mehmet Toy,2016-12-31 This comprehensive new resource presents the latest developments in key Software Defined Network SDN technologies including SDN controllers network control and management applications southbound protocols and northbound interfaces NFV technologies are reviewed including network function virtualization infrastructure virtualized network functions virtual network management and orchestration Professionals find comprehensive discussions on the relationship between SDN and NFV and how they may integrate into unified future network architecture Virtualization network services including cloud carrier Ethernet services and IP VPN services are also covered

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