Network Software

Dijiang Huang,Ankur Chowdhary,Sandeep Pisharody

Software Defined Networks Paul Goransson,Chuck Black,Timothy Culver,2016-10-25 Software Defined Networks: A Comprehensive Approach, Second Edition provides in-depth coverage of the technologies collectively known as Software Defined Networking (SDN). The book shows how to explain to business decision-makers the benefits and risks in shifting parts of a network to the SDN model, when to integrate SDN technologies in a network, and how to develop or acquire SDN applications. In addition, the book emphasizes the parts of the technology that encourage opening up the network, providing treatment for alternative approaches to SDN that expand the definition of SDN as networking vendors adopt traits of SDN to their existing solutions. Since the first edition was published, the SDN market has matured, and is being gradually integrated and morphed into something more compatible with mainstream networking vendors. This book reflects these changes, with coverage of the OpenDaylight controller and its support for multiple southbound protocols, the Inclusion of NETCONF in discussions on controllers and devices, expanded coverage of NFV, and updated coverage of the latest approved version (1.5.1) of the OpenFlow specification. Contains expanded coverage of controllers Includes a new chapter on NETCONF and SDN Presents expanded coverage of SDN in optical networks Provides support materials for use in computer networking courses

Computer, Network, Software, and Hardware Engineering with Applications Norman F. Schneidewind,2012-03-27 There are many books on computers, networks, and software engineering but none that integrate the three with applications. Integration is important because, increasingly, software dominates the performance, reliability, maintainability, and availability of complex computer and systems. Books on software engineering typically portray software as if it exists in a vacuum with no relationship to the wider system. This is wrong because a system is more than software. It is comprised of people, organizations, processes, hardware, and software. All of these components must be considered in an integrative fashion when designing systems. On the other hand, books on computers and networks do not demonstrate a deep understanding of the intricacies of developing software. In this book you will learn, for example, how to quantitatively analyze the performance, reliability, maintainability, and availability of computers, networks, and software in relation to the total system. Furthermore, you will learn how to evaluate and mitigate the risk of deploying integrated systems. You will learn how to apply many models dealing with the optimization of systems. Numerous quantitative examples are provided to help you understand and interpret model results. This book can be used as a first year graduate course in computer, network, and software engineering; as an on-the-job reference for computer, network, and software engineers; and as a reference for these disciplines.

Software-Defined Networking and Security Dijiang Huang,Ankur Chowdhary,Sandeep Pisharody,2018-12-07 Discusses virtual network security concepts Considers proactive security using moving target defense Reviews attack representation models based on attack graphs and attack trees Examines service function chaining in virtual networks with security considerations Recognizes machine learning and AI in network security

SDN: Software Defined Networks Thomas D. Nadeau,Ken Gray,2013-08-08 Explore the emerging definitions, protocols, and standards for SDN—software-defined, software-driven, programmable networks—with this comprehensive guide. Two senior network engineers show you what's required for building networks that use software for bi-directional communication between applications and the underlying network infrastructure. This vendor-agnostic book also presents several SDN use cases, including bandwidth scheduling and manipulation, input traffic and triggered actions, as well as some interesting use cases around big data, data center overlays, and network-function virtualization. Discover how enterprises and service providers alike are pursuing SDN as it continues to evolve. Explore the current state of the OpenFlow model and centralized network control Delve into distributed and central control, including data plane generation Examine the structure and capabilities of commercial and open source controllers Survey the available technologies for network programmability Trace the modern data center from desktop-centric to highly distributed models Discover new ways to connect instances of network-function virtualization and service chaining Get detailed information on constructing and maintaining an SDN network topology Examine an idealized SDN framework for controllers, applications, and ecosystems

Software Defined Networking (SDN): Anatomy of OpenFlow Volume I Doug Marschke,Jeff Doyle,Pete Moyer,2015 Software Defined Networking is revolutionizing the networking world. While the industry transitions to a software-centric architecture, a clear definition of SDN remains murky at best. This book clarifies the current industry confusion about what SDN is, why it's important, and most importantly the protocols and use cases that define SDN. OpenFlow (OF) is a critical piece of the SDN puzzle. While SDN solutions exist that do not require OF, it is undeniable that OF helped spur the innovation in SDN. The history of OF, its current and future status, and the associated use cases will be explained in detail in this book. Lastly, the book attempts to lay out SDN deployments that are real and current today, and apply practicality to the vast world of SDN architectures.

Software-Defined Networks Larry Peterson,Carmelo Cascone,Bruce Davie,2021-02 Software-Defined Networks (SDN) are transforming the Internet by replacing bundled, proprietary hardware and control software. SDN is being embraced by cloud providers, telcos, and enterprises, as it enables a new era of innovation in networking. This book provides a comprehensive introduction to SDN from the perspective of those who are developing and leveraging the technology. Book Features: Describes a complete SDN stack, illustrated with example open source software. Emphasizes underlying concepts, abstractions, and design rationale. Describes both fixed-function and programmable switching chips. Describes the P4-based toolchain for programming and controlling switches. Describes a range of SDN use cases: enterprises, datacenters, access networks. Includes hands-on programming exercises, downloadable fro GitHub.

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.

Software Defined Networks Vinod K. Mishra,2019-04-30 Software defined networking (SDN) is one of the most promising recent developing in the networking. Together with network function virtualization (NFV) it has the potential to automate the networking tasks in a seamless manner. This book introduces the reader to this burgeoning field and explains the basic concepts within a historical context. It should be useful to senior undergraduates, beginning graduate students, and also to anyone curious about this topic.

Software Defined Networking Patricia A. Morreale,James M. Anderson,2014-12-03 Software Defined Networking: Design and Deployment provides a comprehensive treatment of software defined networking (SDN) suitable for new network managers and experienced network professionals. Presenting SDN in context with more familiar network services and challenges, this accessible text: Explains the importance of virtualization, particularly the impact of virtualization on servers and networks Addresses SDN, with an emphasis on the network control plane Discusses SDN implementation and the impact on service providers, legacy networks, and network vendors Contains a case study on Google's initial implementation of SDN Investigates OpenFlow, the hand-in-glove partner of SDN Looks forward toward more programmable networks and the languages needed to manage these environments Software Defined Networking: Design and Deployment offers a unique perspective of the business case and technology motivations for considering SDN solutions. By identifying the impact of SDN on traffic management and the potential for network service growth, this book instills the knowledge needed to manage current and future demand and provisioning for SDN.

Software-Defined Networking with OpenFlow Oswald Coker,Siamak Azodolmolky,2017-10-25 Master OpenFlow concepts to improve and make your projects efficient with the help of Software-Defined Networking. About This Book Master the required platforms and tools to build network applications with OpenFlow Get to grips with the updated OpenFlow and build robust SDN-based solutions An end-to-end thorough overview of open-source switches, controllers, and tools Who This Book Is For If you are a network/system administrator or a system engineer and would like to implement OpenFlow concepts and take Software-Defined Networking on your projects to the next level, then this book is for you. If you are aware of broad networking concepts, and are familiar with the day-to-day operation of computer networks, you will find this book very beneficial. What You Will Learn Explore Software-Defined Networking and activities around SDN/OpenFlow including OpenFlow messages Hardware and software implementations of OpenFlow switches and experiment with Mininet GUI Learn about the role of OpenFlow in cloud computing by configuring and setting up the Neutron and Floodlight OpenFlow controller plugins Simulate and test utilities, and familiarize yourself with OpenFlow soft switches, controllers, virtualization, and orchestration tools Enhance and build environments for Net App development by installing VM's and tools such as Mininet and Wireshark Learn about hardware and software switches and get a feel for active open-source projects around SDN and OpenFlow In Detail OpenFlow paves the way for an open, centrally programmable structure, thereby accelerating the effectiveness of Software-Defined Networking. Software-Defined Networking with OpenFlow, Second Edition takes you through the product cycle and gives you an in-depth description of the components and options that are available at each stage. The aim of this book is to help you implement OpenFlow concepts and improve Software-Defined Networking on your projects. You will begin by learning about building blocks and OpenFlow messages such as controller-to-switch and symmetric and asynchronous messages. Next, this book will take you through OpenFlow controllers and their existing implementations followed by network application development. Key topics include the basic environment setup, the Neutron and Floodlight OpenFlow controller, XORPlus OF13SoftSwitch, enterprise and affordable switches such as the Zodiac FX and HP2920. By the end of this book, you will be able to implement OpenFlow concepts and improve Software-Defined Networking in your projects. Style and approach This book is an easy-to-follow and pragmatic guide networking. Each topic adopts a logical approach and provides hints to help you build and deliver SDN Solutions efficiently.

Network Programmability and Automation Matt Oswalt,Christian Adell,Scott S. Lowe,Jason Edelman,2022-06-23 Network engineers are finding it harder than ever to rely solely on manual processes to get their jobs done. New protocols, technologies, delivery models, and the need for businesses to become more agile and flexible have made network automation essential. The updated second edition of this practical guide shows network engineers how to use a range of technologies and tools, including Linux, Python, APIs, and Git, to automate systems through code. This edition also includes brand new topics such as network development environments, cloud, programming with Go, and a reference network automation architecture. Network Programmability and Automation will help you automate tasks involved in configuring, managing, and operating network equipment, topologies, services, and connectivity. Through the course of the book, you'll learn the basic skills and tools you need to make this critical transition. You'll learn: Programming skills with Python and Go: data types, conditionals, loops, functions, and more How to work with Linux-based systems, the foundation for modern networking and cloud platforms Data formats and models: JSON, XML, YAML, and YANG Jinja templating for creating network device configurations The role of application programming interfaces (APIs) in network automation Source control with Git to manage code changes during the automation process Cloud-native technologies like Docker and Kubernetes How to automate network devices and services using Ansible, Salt, and Terraform Tools and technologies for developing and continuously integrating network automation

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.

Network Programming with Go Adam Woodbeck,2021-03-25 Network Programming with Go teaches you how to write clean, secure network software with the programming language designed to make it seem easy. Build simple, reliable, network software Combining the best parts of many other programming languages, Go is fast, scalable, and designed for high-performance networking and multiprocessing. In other words, it's perfect for network programming. Network Programming with Go will help you leverage Go to write secure, readable, production-ready network code. In the early chapters, you'll learn the basics of networking and traffic routing. Then you'll put that knowledge to use as the book guides you through writing programs that communicate using TCP, UDP, and Unix sockets to ensure reliable data transmission. As you progress, you'll explore higher-level network protocols like HTTP and HTTP/2 and build applications that securely interact with servers, clients, and APIs over a network using TLS. You'll also learn: Internet Protocol basics, such as the structure of IPv4 and IPv6, multicasting, DNS, and network address translation Methods of ensuring reliability in socket-level communications Ways to use handlers, middleware, and multiplexers to build capable HTTP applications with minimal code Tools for incorporating authentication and encryption into your applications using TLS Methods to serialize data for storage or transmission in Go-friendly formats like JSON, Gob, XML, and protocol buffers Ways of instrumenting your code to provide metrics about requests,

errors, and more Approaches for setting up your application to run in the cloud (and reasons why you might want to) Network Programming with Go is all you'll need to take advantage of Go's built-in concurrency, rapid compiling, and rich standard library. Covers Go 1.15 (Backward compatible with Go 1.12 and higher)

Software Networks Guy Pujolle,2020-02-05 Software Networks describe new concepts for the Internets next generation. This architecture is based on virtual networking using Cloud and datacenter facilities. The main problems to be dealt with are the placement of virtual resources for opening a new network on the fly, and the urbanization of virtual resources implemented on physical network equipment. The digital architecture also deals with mechanisms capable of automatically controlling the placement of all virtual resources within the physical network. This book describes how to create and delete virtual networks on the fly. Indeed, the system is able to create any new network with any kind of virtual resource (e.g. switches, routers, LSRs, optical paths, firewalls, SIP-based servers, devices, servers, access points, etc.). Software Networks shows how this architecture is compatible with new advances in SDN (Software Defined Networking), new high-speed transport protocols such as TRILL (Transparent Interconnection of Lots of Links) and LISP (Locator/Identifier Separation Protocol), NGN, IMS, new generation Wi-Fi, and 4G/5G networks. Finally, the author introduces Clouds of security and the virtualization of secure elements (smartcards) that could certainly transform how to secure the Internet. For this second edition, the author addresses in five new chapters the importance of open source software for networks, mobile edge computing, fog networking, tactile internet – a network environment allowing remote access, and security – the use of Cloud of security, secure elements and the emergence of the blockchain.

Network Function Virtualization Ken Gray,Thomas D. Nadeau,2016-07-04 Network Function Virtualization provides an architectural, vendor-neutral level overview of the issues surrounding the large levels of data storage and transmission requirements needed for today's companies, also enumerating the benefits of NFV for the enterprise. Drawing upon years of practical experience, and using numerous examples and an easy-to-understand framework, authors Tom Nadeau and Ken Gary discuss the relevancy of NFV and how it can be effectively used to create and deploy new services. Readers will learn how to determine if network function virtualization is right for their enterprise network, be able to use hands-on, step-by-step guides to design, deploy, and manage NFV in an enterprise, and learn how to evaluate all relevant NFV standards, including ETSI, IETF, Openstack, and Open Daylight. Provides a comprehensive overview of Network Function Virtualization (NFV) Discusses how to determine if network function virtualization is right for an enterprise network Presents an ideal reference for those interested in NFV Network Service Chaining, NSC network address translation (NAT), firewalling, intrusion detection, domain name service (DNS), caching, and software defined networks Includes hands-on, step-by-step guides for designing, deploying, and managing NFV in the enterprise Explains, and contrasts, all relevant NFV standards, including ETSI, IETF, Openstack, and Open Daylight

Embedded and Networking Systems Gul N. Khan,Krzysztof Iniewski,2013-09-24 Embedded and Networking Systems: Design, Software, and Implementation explores issues related to the design and synthesis of high-performance embedded computer systems and networks. The emphasis is on the fundamental concepts and analytical techniques that are applicable to a range of embedded and networking applications, rather than on specific embedded architectures, software development, or system-level integration. This system point of view guides designers in dealing with the trade-offs to optimize performance, power, cost, and other system-level non-functional requirements. The book brings together contributions by researchers and experts from around the world, offering a global view of the latest research and development in embedded and networking systems. Chapters highlight the evolution and trends in the field and supply a fundamental and analytical understanding of some underlying technologies. Topics include the co-design of embedded systems, code optimization for a variety of applications, power and performance trade-offs, benchmarks for evaluating embedded systems and their components, and mobile sensor network systems. The book also looks at novel applications such as mobile sensor systems and video networks. A comprehensive review of groundbreaking technology and applications, this book is a timely resource for system designers, researchers, and students interested in the possibilities of embedded and networking systems. It gives readers a better understanding of an emerging technology evolution that is helping drive telecommunications into the next decade.

Building the Network of the Future John Donovan,Krish Prabhu,2017-06-26 From the Foreword: This book lays out much of what we've learned at AT&T about SDN and NFV. Some of the smartest network experts in the industry have drawn a map to help you navigate this journey. Their goal isn't to predict the future but to help you design and build a network that will be ready for whatever that future holds. Because if there's one thing the last decade has taught us, it's that network demand will always exceed expectations. This book will help you get ready. —Randall Stephenson, Chairman, CEO, and President of AT&T Software is changing the world, and networks too. In this in-depth book, AT&T's top networking experts discuss how they're moving software-defined networking from concept to practice, and why it's a business imperative to do this rapidly. —Urs Hölzle, SVP Cloud Infrastructure, Google Telecom operators face a continuous challenge for more agility to serve their customers with a better customer experience and a lower cost. This book is a very inspiring and vivid testimony of the huge transformation this means, not only for the networks but for the entire companies, and how AT&T is leading it. It provides a lot of very deep insights about the technical challenges telecom engineers are facing today. Beyond AT&T, I'm sure this book will be extremely helpful to the whole industry. —Alain Maloberti, Group Chief Network Officer, Orange Labs Networks This new book should be read by any organization faced with a future driven by a shift to software. It is a holistic view of how AT&T has transformed its core infrastructure from hardware based to largely software based to lower costs and speed innovation. To do so, AT&T had to redefine their technology supply chain, retrain their workforce, and move toward open source user-driven innovation; 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.

Network Programmability and Automation Jason Edelman,Scott S. Lowe,Matt Oswalt,2018-02-02 Like sysadmins before them, network engineers are finding that they cannot do their work manually anymore. As the field faces new protocols, technologies, delivery models, and a pressing need for businesses to be more agile and flexible, network automation is becoming essential. This practical guide shows network engineers how to use a range of technologies and tools—including Linux, Python, JSON, and XML—to automate their systems through code. Network programming and automation will help you simplify tasks involved in configuring, managing, and operating network equipment, topologies, services, and connectivity. Through the course of the book, you'll learn the basic skills and tools you need to make this critical transition. This book covers: Python programming basics: data types, conditionals, loops, functions, classes, and modules Linux fundamentals to provide the foundation you need on your network automation journey Data formats and models: JSON, XML, YAML, and YANG for networking Jinja

templating and its applicability for creating network device configurations The role of application programming interfaces (APIs) in network automation Source control with Git to manage code changes during the automation process How Ansible, Salt, and StackStorm open source automation tools can be used to automate network devices Key tools and technologies required for a Continuous Integration (CI) pipeline in network operations

MPLS in the SDN Era Antonio Sanchez Monge,Krzysztof Grzegorz Szarkowicz,2015-12-07 How can you make multivendor services work smoothly on today's complex networks? This practical book shows you how to deploy a large portfolio of multivendor Multiprotocol Label Switching (MPLS) services on networks, down to the configuration level. You'll learn where Juniper Network's Junos, Cisco's IOS XR, and OpenContrail, interoperate and where they don't. Two network and cloud professionals from Juniper describe how MPLS technologies and applications have rapidly evolved through services and architectures such as Ethernet VPNs, Network Function Virtualization, Seamless MPLS, Egress Protection, External Path Computation, and more. This book contains no vendor bias or corporate messages, just solid information on how to get a multivendor network to function optimally. Topics include: Introduction to MPLS and Software-Defined Networking (SDN) The four MPLS Builders (LDP, RSVP-TE, IGP SPRING, and BGP) Layer 3 unicast and multicast MPLS services, Layer 2 VPN, VPLS, and Ethernet VPN Inter-domain MPLS Services Underlay and overlay architectures: data centers, NVO, and NFV Centralized Traffic Engineering and TE bandwidth reservations Scaling MPLS transport and services Transit fast restoration based on the IGP and RSVP-TE FIB optimization and egress service for fast restoration

How Software Defined Networking Is Going to Change Your World Forever Jim Anderson,2016-10-02 The legacy networks that are typically in use by organizations today have an infrastructure that is typically a mix of multiple vendor solutions, platforms and protocol solutions. This makes the ultimate goal of creating an integrated network ecosystem a difficult if not impossible process for many organizations. The arrival of Software Defined Networking (SDN) is an approach to building networks using open protocols, such as OpenFlow, that allow globally aware software control to be applied at the edges of the network in order to access network switches and routers that typically would use closed and proprietary firmware. What You'll Find Inside: THE IMPORTANCE OF SDN HOW TELECOM SERVICE PROVIDERS VIEW SDN THE DEVELOPER AND THE NETWORK EXAMPLES OF NETWORKED APPLICATIONS THAT CAN ONLY BE OFFERED IN AN SDN NETWORK GOOGLE AND SDN Software Defined Networking (SDN) is not a revolutionary new technology. Instead, it is better to think of this as being a new way of organizing computer network functionality. SDN allows the network to be virtualized. That's where the real power of SDN comes from and that's what we'll be exploring in this book.

Unveiling the Magic of Words: A Overview of **"Network Software"**

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of **"Network Software,"** a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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