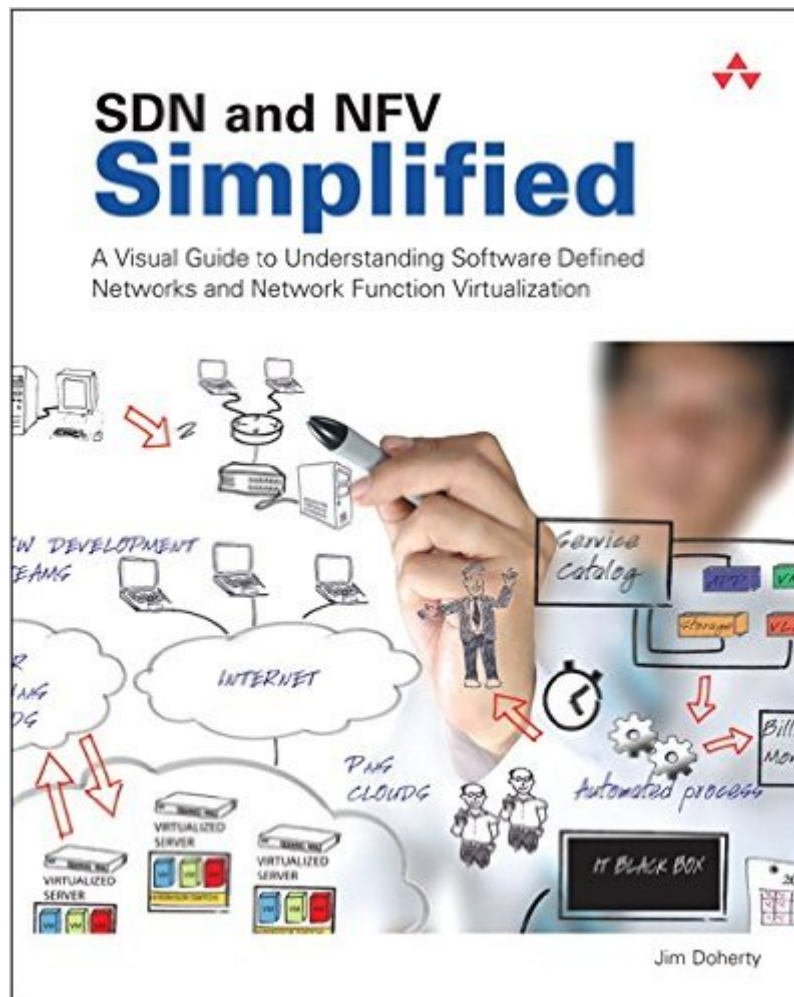# SDN And NFV Simplified: A Visual Guide To Understanding Software Defined Networks And Network Function Virtualization

Synopsis

A Visual Guide to Understanding Software Defined Networks and Network Function Virtualization Â The simple, visual, at-a-glance guide to SDN and NFV: Core concepts, business drivers, key technologies, and more! Â SDN (Software Defined Networks) and NFV (Network Function Virtualization) are todayâ ™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, â œat-a-glanceâ • explanations of SDN, NFV, and their underlying virtualizations. Â 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? Â Through easy, whiteboard-style infographics, youâ ™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 tomorrowâ ™s fully-virtualized environments. Â Step by step, youâ ™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. Thatâ ™s not all: Youâ ™ll learn all you need to help lead this transformation. Â 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 â œcommunal livingâ • 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 Nicera, Cisco Inseieme, 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 controllersâ "and whoâ ™s fighting to control your network Use SDN and NFV to improve integration and say goodbye to â œtruck rollsâ • 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 youâ "and whatâ ™s next Â

Book Information

Paperback: 320 pages

Publisher: Addison-Wesley Professional; 1 edition (March 12, 2016)

Language: English

ISBN-10: 0134306406

ISBN-13: 978-0134306407

Product Dimensions: 7.9 x 1 x 9.9 inches

Shipping Weight: 1.4 pounds (View shipping rates and policies)

Average Customer Review: 3.2 out of 5 stars Â See all reviews Â (4 customer reviews)

Best Sellers Rank: #363,517 in Books (See Top 100 in Books)   #124 in Â Books > Computers & Technology > Networking & Cloud Computing > Cloud Computing   #161 in Â Books > Computers & Technology > Networking & Cloud Computing > Data in the Enterprise > Client-Server Systems #225 in Â Books > Computers & Technology > Networking & Cloud Computing > Networks, Protocols & APIs > Networks

Customer Reviews

SDN and NFV Simplified: A Visual Guide to Understanding Software Defined Networks and Network Function VirtualizationIt would be an absolute delight for anyone, for IT folks in general and Network guys in specific to read Jim Doherty's SDN/NFV simplified book. It is written in a lucid style, easy to understand and covers the topic exhaustively. The core topic of SDN/NFV is brought to the attention of the reader in gradual steps starting with the fundamentals of server virtualization. Conceptually, how SDN is akin to server virtualization (while drawing parallels between the controller and the Hypervisor) and Wireless LAN controllers (with Light weight access points) is fascinating. Jim covers the topic both from a vendor offerings and open source perspective, painting the canvas explaining VMWare NSX, Cisco ACI, ODL, Openflow, Open stack etc. How Software programmability can simplify optimized traffic flows, policy driven automation is brilliantly explained. This indeed is an exciting and evolving technology and the details of the various vendor implementations and standards is enlightening. This book definitely needs to be read by every CIO/CTO to gain a quick overview (both from a Business and technology perspective) and gain insights to this topic that cant just be ignored.

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