



Network Function Virtualization

By Ken Gray, Thomas D. Nadeau

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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

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Editorial Review

About the Author

Ken Gray is currently a Senior Director, Architecture, Cisco Systems. Previously he was a Director at Juniper Networks responsible for technical strategy and innovation for Juniper Network's Platform Systems Division, with a particular focus on core routing and the evolving area of Software Defined (Driven) Networks. From 1995-2011 Ken worked at Cisco Systems from 1995-2011 Ken worked at Cisco in a variety of roles, ultimately as a Principal Engineer working on the development and deployment of high-end routing platforms and operating systems. From 1984 to 1995, Ken was a network geek responsible for designing large public and private networks at a company that ultimately became Verizon. Ken is the co-author of *SDN: Software Defined Networks* (O'Reilly 2013)

Thomas D. Nadeau is Chief Architect of Open Source and Distinguished Engineer at Brocade Communications. Prior to that he was a Distinguished Engineer in The PSTD CTO Office at Juniper Networks where he is responsible for leading all aspects of Software Defined Networks and Network Programmability. Thomas received his BSCS from The University of New Hampshire, and a M.Sc. from The University of Massachusetts in Lowell, where he has been an Adjunct Professor of Computer Science since 2000 and teaches courses on the topic of data communications. He is also on the technical committee of several prominent networking conferences where he provides technical guidance on their content, as well as frequently presents.

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