



# Handbook of Fiber Optic Data Communication: Chapter 16. Hypervisors, Virtualization, and Networking

*Bhanu Prakash Reddy Tholeti*

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## **Handbook of Fiber Optic Data Communication: Chapter 16. Hypervisors, Virtualization, and Networking** Bhanu Prakash Reddy Tholeti

This chapter discusses the role of hypervisors and virtual Ethernet switches in modern data center networks. Topics include Type 1 and Type 2 hypervisors, and discussion of the major hypervisors in use today (including PowerVM, KVM, VMware, Xen, and zVM). This chapter also discusses virtual local area networks and other types of network virtualization and encapsulation; virtual Ethernet adapters (VNICs) including VLAG and IPv6 considerations; shared I/O adapters including SR-IOV and MR-IOV; ESX Server virtualization; sockets and VDE industry standards such as IEEE 802.1Q, EVB, VDP, VEB, and VEPA for virtual Ethernet switches; and examples such as the Open vSwitch, Cisco Nexus 5000V, and IBM 5000V virtual switches. Enterprise applications such as the Open System Adapter and HiperSockets are also discussed as they apply to mainframe logical partitions.

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