

## CiscoPress - NX-OS and Cisco Nexus Switching: Next-Generation Data Center Architectures



Cisco® Nexus switches and the new NX-OS operating system are rapidly becoming the new de facto standards for data center distribution/aggregation layer networking. NX-OS builds on Cisco IOS to provide advanced features that will be increasingly crucial to efficient data center operations. NX-OS and Cisco Nexus Switching is the definitive guide to utilizing these powerful new capabilities in enterprise environments. In this book, three Cisco consultants cover every facet of deploying, configuring, operating, and troubleshooting NX-OS in the data center. They review the key NX-OS enhancements for high availability, virtualization, In-Service Software Upgrades (ISSU), and security. In this book, you will discover support and configuration best practices for working with Layer 2 and Layer 3 protocols and networks, implementing multicasting, maximizing serviceability, providing consistent network and storage services, and much more. The authors present multiple command-line interface (CLI) commands, screen captures, realistic configurations, and troubleshooting tips—all based on their extensive experience working with customers who have successfully deployed Nexus switches in their data centers. Learn how Cisco NX-OS builds on and differs from IOS

Work with NX-OS user modes, management interfaces, and system files      Configure Layer 2 networking:  
VLANs/private VLANs, STP, virtual port channels, and unidirectional link detection      Configure Layer 3 EIGRP, OSPF, BGP,  
and First Hop Redundancy Protocols (FHRPs)      Set up IP multicasting with PIM, IGMP, and MSDP      Secure NX-OS  
with SSH, Cisco TrustSec, ACLs, port security, DHCP snooping, Dynamic ARP inspection, IP Source Guard, keychains, Traffic  
Storm Control, and more      Build high availability networks using process modularity and restart, stateful switchover, nonstop  
forwarding, and in-service software upgrades      Utilize NX-OS embedded serviceability, including Switched Port Analyzer  
(SPAN), Smart Call Home, Configuration Checkpoint/Rollback, and NetFlow      Use the NX-OS Unified Fabric to simplify  
infrastructure and provide ubiquitous network and storage services      Run NX-OS on Nexus 1000V server-based software  
switches

This book is part of the Networking Technology Series from Cisco Press®, which offers networking professionals valuable information for constructing efficient networks, understanding new technologies, and building successful careers.  
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