



# Cisco Networks: Engineers Handbook of Routing, Switching, and Security with IOS, NX-OS, and ASA

*Chris Carthern, William Wilson, Noel Rivera, Richard Bedwell*

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*Cisco Networks: Engineers' Handbook of Routing, Switching, and Security with IOS, NX-OS, and ASA* is a concise one-stop desk reference and synopsis of basic knowledge and skills for Cisco certification prep. For beginning and experienced network engineers tasked with building LAN, WAN, and data center connections, this book lays out clear directions for installing, configuring, and troubleshooting networks with Cisco devices. The full range of certification topics is covered, including all aspects of IOS, NX-OS, and ASA software. The emphasis throughout is on solving the real-world challenges engineers face in configuring network devices, rather than on exhaustive descriptions of hardware features.

This practical desk companion doubles as a comprehensive overview of the basic knowledge and skills needed by CCENT, CCNA, and CCNP exam takers. It distills a comprehensive library of cheat sheets, lab configurations, and advanced commands that the authors assembled as senior network engineers for the benefit of junior engineers they train, mentor on the job, and prepare for Cisco certification exams. Prior familiarity with Cisco routing and switching is desirable but not necessary, as Chris Carthern, Dr. Will Wilson, Noel Rivera, and Richard Bedwell start their book with a review of the basics of configuring routers and switches. All the more advanced chapters have labs and exercises.

## What you'll learn

Readers of *Cisco Networks* will learn

- How to configure Cisco switches, routers, and data center devices in typical corporate network architectures
- The skills needed to pass Cisco CCENT, CCNA and CCNP certification exams
- How to set up and configure at-home labs using virtual machines and labs exercises in the book to practice advanced Cisco commands
- How to implement networks of Cisco devices supporting WAN, LAN, and data center configurations

## Who this book is for

*Cisco Networks* is for network designers, engineers, programmers, managers, and students seeking a one-stop book that concisely covers the full gamut of topics configuring, managing and troubleshooting Cisco networks and equipment—whether as a synopsis to prepare for a job or certification exam or as a desk reference to consult on the job.

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