



# Interconnecting Cisco Network Devices, Part 1 (ICND1) Foundation Learning Guide (Foundation Learning Guides)

*Anthony Sequeira*

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# Interconnecting Cisco Network Devices, Part 1 (ICND1) Foundation Learning Guide (Foundation Learning Guides)

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## **Interconnecting Cisco Network Devices, Part 1 (ICND1) Foundation Learning Guide (Foundation Learning Guides) Anthony Sequeira**

This Cisco-authorized, self-paced foundation learning tool for both the CCENT 100-101 and CCNA® 200-120 exams offers a comprehensive overview of the diverse technologies found in modern internetworks. From routing and switching concepts to practical configuration and security, it teaches with numerous examples, illustrations, and real-world scenarios, helping you rapidly gain both expertise and confidence.

This book provides you with all the knowledge you need to install, operate and troubleshoot a small enterprise branch network, including basic network security. Whether you are preparing for certification or simply want to understand basic Cisco networking, you'll find this guide exceptionally valuable. Topics covered include: TCP/IP models and protocols; LANs and Ethernet; running Cisco IOS; VLANs and trunks; IP addressing and subnetting; packet delivery; static and dynamic routing; DHCP and NAT; network security; WANs, IPv6, and more.

This edition has been fully updated to reflect the new Cisco ICND1 100-101 exam blueprint. Content has been reorganized, simplified, and expanded to help you learn even more efficiently. New Production Network Simulation questions offer more real-world review, and new web video resources in each chapter walks you through many key tasks.

Interconnecting Cisco Network Devices, Part 1 (ICND1) Foundation Learning Guide, Fourth Edition is part of a recommended learning path from Cisco that includes simulation and hands-on training from authorized Cisco Learning Partners and self-study products from Cisco Press. To find out more about instructor-led training, e-learning, and hands-on instruction from authorized Cisco Learning Partners worldwide, please visit [www.cisco.com/go/authorizedtraining](http://www.cisco.com/go/authorizedtraining).

- Network functions, components, models, layers, topologies, and applications
- LAN, Ethernet, switching, routing, and packet delivery concepts
- Network management with Cisco IOS software and its command-line interface
- VLANs and segmentation: techniques for optimizing performance and flexibility
- Easy ways to create efficient IP addressing and subnetting schemes
- Cisco router configuration, including static and dynamic routing
- DHCP and NAT: dynamically providing IP addresses and handling limited address availability
- Essential network security techniques
- Traffic management with Access Control Lists
- WAN concepts, technologies, and options
- IPv6 configuration in dynamically routed network environments

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