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TCP/IP and the DoD Model  
The Process/Application Layer Protocols; The Host-to-Host Layer Protocols; The Internet Layer Protocols; Binary to Decimal and Hexadecimal Conversion; IP Addressing; IP Terminology; The Hierarchical IP Addressing Scheme; Private IP Addresses; Broadcast Addresses; Introduction to Network Address Translation ( NAT); Summary; Exam Essentials; Written Lab 2; Review Questions; Answers to Review Questions; Answers to Written Lab 2; Chapter 3: IP Subnetting and Variable Length Subnet Masks ( VLSMs); Subnetting Basics; IP Subnet-Zero; How to Create Subnets; Subnet Masks Classless Inter-Domain Routing (CIDR) Subnetting Class C Addresses; The Binary Method: Subnetting a Class C Address; The Fast Way: Subnetting a Class C Address; Subnetting Class B Addresses; Subnetting Class A Addresses; Variable Length Subnet Masks (VLSMs); VLSM Design; Implementing VLSM Networks; Summarization; Troubleshooting IP Addressing; Determining IP Address Problems; Summary; Exam Essentials; Written Lab 3; Review Questions; Answers to Review Questions; Answers to Written Lab 3; Chapter 4: Introduction to the Cisco IOS; The Cisco Router User Interface; Cisco Router IOS Connecting to a Cisco Router Bringing Up a Router; Setup Mode; Command-Line Interface; Logging into the Router; Overview of Router Modes; CLI Prompts; Editing and Help Features; Gathering Basic Routing Information; Router and Switch Administrative Functions; Hostnames; Banners; Setting Passwords; Encrypting Your Passwords; Descriptions; Router Interfaces; Bringing Up an Interface; Configuring an IP Address on an Interface; Serial Interface Commands; Viewing, Saving, and Erasing Configurations; Verifying Your Configuration; Summary; Exam Essentials; Written Lab 4; Hands-on Labs  
Hands-on Lab 4.1: Logging into a Router

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### Sommario/riassunto

Here's the book you need to prepare for Cisco's CCNA exam, 640-801. This Study Guide was developed to meet the exacting requirements of today's Cisco certification candidates. In addition to the engaging and accessible instructional approach that has earned author Todd Lammler the "Best Study Guide Author" award in CertCities Readers' Choice Awards for two consecutive years, this updated fifth edition provides: In-depth coverage of every CCNA exam objective Expanded IP addressing and subnetting coverage More detailed information on EIGRP and OSPF Leading-edge exam

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