

# Routing TCP/IP Vol 1 Notes

7 Jun 2008

## Chapter 1: TCP/IP Review

### Internet Protocol (IPv4)

**Version** (4 bits) - IP version (4 or 6)

**Header length** (4 bits) - Length of header plus any options

**Type of Service (TOS)** (8 bits) - Used for QoS; can also be evaluated as *Diffserv Code Point (DSCP)*

**Total length** (16 bits) - Total packet size

**Identifier** (16 bits) - Identifies fragments belonging to a single original packet

**Fragmentations flags** (3 bits) - Three flags: unused, *Don't Fragment (DF)*, and *More Fragments (MF)*

**Fragment offset** (13 bits) - Specifies the offset of a fragment from the beginning of the original packet (in units of eight bytes)

**Time To Live (TTL)** (8 bits) - Tracks hop count

**Protocol** (8 bits) - Identifies the upper-layer protocol

**Header checksum** (16 bits) - Used for header error detection

**Source address** (32 bits)

**Destination address** (32 bits)

**Options** (variable length) - Optional attributes generated by the originator

Common IP options:

**Loose source routing** - A list of IP addresses (router interfaces) the packet should traverse

**Strict source routing** - A routing path which must be followed exactly

**Record route** - Routers traversed record the address of their outbound interface on the packet

**Timestamp** - Like record route but also includes a timestamp

### Address Resolution Protocol (ARP)

ARP header:

**Hardware type** (16 bits) - Identifies the type of layer 2 technology (Ethernet, HDLC, etc)

**Protocol type** (16 bits) - Identifies the network-layer protocol

# Routing Tcp Ip Vol 1

**Jeff Doyle**



## **Routing Tcp Ip Vol 1:**

Routing TCP/IP Jeff Doyle, 1998 This core textbook will take the reader from a basic understanding of routers and routing protocols through a detailed examination of each of the IP routing protocols Techniques for designing networks which efficiently utilize and integrate these protocols will be discussed in great detail

**Routing TCP/IP, Volume 1** Jeff Doyle, Jennifer DeHaven Carroll, 2005-10-19 A detailed examination of interior routing protocols completely updated in a new edition A complete revision of the best selling first edition widely considered a premier text on TCP IP routing protocols A core textbook for CCIE preparation and a practical reference for network designers administrators and engineers Includes configuration and troubleshooting lessons that would cost thousands to learn in a classroom and numerous real world examples and case studies Praised in its first edition for its approachable style and wealth of information this new edition provides readers a deep understanding of IP routing protocols teaches how to implement these protocols using Cisco routers and brings readers up to date protocol and implementation enhancements Routing TCP IP Volume 1 Second Edition includes protocol changes and Cisco features that enhance routing integrity secure routers from attacks initiated through routing protocols and provide greater control over the propagation of routing information for all the IP interior routing protocols Routing TCP IP Volume 1 Second Edition provides a detailed analysis of each of the IP interior gateway protocols IGPs Its structure remains the same as the best selling first edition though information within each section is enhanced and modified to include the new developments in routing protocols and Cisco implementations What s New In This Edition The first edition covers routing protocols as they existed in 1998 The new book updates all covered routing protocols and discusses new features integrated in the latest version of Cisco IOS Software IPv6 its use with interior routing protocols and its interoperability and integration with IPv4 are also integrated into this book Approximately 200 pages of new information are added to the main text with some old text removed Additional exercise and solutions are also included

**Routing TCP/IP, Volume 1, 2/e** Jennifer Doyle, 2005 A detailed examination of interior routing protocols completely updated in a new edition A complete revision of the best selling first edition widely considered a premier text on TCP IP routing protocols A core textbook for CCIE preparation and a practical reference for network designers administrators and engineers Includes configuration and troubleshooting lessons that would cost thousands to learn in a classroom and numerous real world examples and case studies Praised in its first edition for its approachable style and wealth of information this new edition provides readers a deep understanding of IP routing protocols teaches how to implement these protocols using Cisco routers and brings readers up to date protocol and implementation enhancements Routing TCP IP Volume 1 Second Edition includes protocol changes and Cisco features that enhance routing integrity secure routers from attacks initiated through routing protocols and provide greater control over the propagation of routing information for all the IP interior routing protocols Routing TCP IP Volume 1 Second Edition provides a detailed analysis of each of the IP interior gateway protocols IGPs Its

structure remains the same as the best selling first edition though information within each section is enhanced and modified to include the new developments in routing protocols and Cisco implementations What s New In This Edition The first edition covers routing protocols as they existed in 1998 The new book updates all covered routing protocols and discusses new features integrated in the latest version of Cisco IOS Software IPv6 its use with interior routing protocols and its interoperability and integration with IPv4 are also integrated into this book Approximately 200 pages of new information are added to the main text with some old text removed Additional exercise and solutions are also included

**Routing TCP/IP**  
Jeff Doyle, Jennifer DeHaven Carroll, 1998

**Routing TCP/IP, Volume II (CCIE Professional Development)** Jeff Doyle, Jennifer DeHaven Carroll, 2001-04-23

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*CCIE Professional Development Routing TCP/IP* CCIE No. 1919 Jeff Doyle, 2005

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Provides a reference for engineers building and migrating networks based on the author's familiarity with both Juniper Networks components and Cisco Systems routers. It is founded on the author's experience working with large networks in the USA and Europe as well as Asia Pacific. This incomparable reference to scaling networks is suitable for network designers, architects, engineers, and managers. It will also be an authoritative guide for technically aware sales and marketing staff and service engineers. It is a valuable resource for graduate and final year computing and communications engineering students and for engineers studying for both the JNCIE and CCIE examinations.

Routing TCP/IP, Volume 2 (CCIE Professional Development), 2/e (Cisco Press) Doyle, **Network Management Fundamentals** Alexander Clemm, 2007. This book provides you with an accessible overview of network management covering management not just of networks themselves but also of services running over those networks. It also explains the different technologies that are used in network management and how they relate to each other.

book cover *CCNP Routing Exam Cram* Eric McMasters, Brian Edward Morgan, Mike Shroyer, 2000. Prepares the reader to pass the new CCNP Routing exam 640 503. Instructs the reader on ways to configure the Cisco IOS software for scalable operation in large or growing multiprotocol internetworks. Contains exclusive tear out cram sheet with tips, acronyms, and memory joggers, mnemonics to improve recall immediately before the exam. Includes sections on proven test taking strategies, warnings on trick questions, time saving study tips, multiple part question strategies, and shortcuts.

**Interconnecting Cisco Network Devices** Steve McQuerry, 2000. CD ROM v 1 contains full text of the Certification guide, test engine, chapter 13 lab solutions, sample chapters from the other books.

**The Handbook of Computer Networks, LANs, MANs, WANs, the Internet, and Global, Cellular, and Wireless Networks** Hossein Bidgoli, 2007-12-10. A comprehensive look at computer networking from LANs to wireless networks. In this second volume of *The Handbook of Computer Networks*, readers will get a complete overview of the types of computer networks that are most relevant to real world applications. Offering a complete view of computer networks, the book is designed for both undergraduate students and professionals working in a variety of computer network dependent industries. With input from over 270 experts in the field and with over 1 000 peer reviewers, the text covers local and wide area networks, the Internet, wireless networks, voice over IP, global networks, and more.

*CLSC Exam Certification Guide* Kevin Downes, Tim Boyles, 1999. The Cisco LAN Switch Configuration CLSC exam is one of the tests required for certification as a Cisco Certified Network Professional (CCNP) or Cisco Certified Design Professional (CCDP). When you're ready to test your skills, complete your knowledge of the objectives and prepare for exam day; you need the preparation tools found in *CLSC Exam Certification Guide* from Cisco Press.

**Cisco Secure Virtual Private Networks** Andrew G. Mason, 2002. Based on the official instructor led training course of the same name in a self study product, *Cisco Secure Virtual Private Networks* is a comprehensive results oriented book designed to give readers the knowledge to plan, administer, and maintain a Virtual Private Network (VPN). Readers are taught to accomplish several specific tasks including identifying the features, functions, and benefits of Cisco.

Secure VPN products identifying the component technologies implemented in Cisco Secure VPN products utilizing commands required to configure and test IPSec in Cisco IOS software and PIX Firewalls installing and configuring the Cisco VPN Client to create a secure tunnel to a Cisco VPN Concentrator and PIX Firewall configuring and verifying IPSec in the Cisco VPN Concentrator Cisco router and PIX Firewall and configuring the Cisco VPN Concentrator Cisco router and PIX Firewall for interoperability Commands Reference ,1992 **Troubleshooting Campus Networks** Priscilla Oppenheimer,Joseph Bardwell,2002-07-29 All network designers and administrators want their campus LANs to run efficiently This book provides tips and techniques for using protocol analyzers and other tools to recognize problems for both Cisco and multiprotocol traffic patterns Focuses on troubleshooting problems that arise from the Cisco routers inter operating with many other network protocols Covers both legacy and cutting edge technologies Authors are respected in the field for their teaching and training development skills in network troubleshooting

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