

CCNP Route Master Study Guide

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1.0 Network Principles

1.1 Identify Cisco Express Forwarding concepts

- **GENERAL CONCEPT**
 - Considered as switching within routers
 - Enables faster packet transfer from one interface to another
 - This is due embedding relevant information in hardware
- **PROCESS-BASED SWITCHING**
 - Eats up CPU resources to switch packets
 - Known as "*IP Input*" in the CPU table
- **FAST SWITCHING**
 - Store data in "*Fast Switching Cache*" for faster lookups
 - CPU would have more breathing room
 - Packet would first need to be analyzed by the CPU before entering the cache
 - Does not track the routing table so the cached entry aging out may take a bit
- **CISCO EXPRESS FORWARDING**
 - Pre-populated cache, downloads information from arp/etc as soon as available
 - Enabled by default on routers and multilayer switches
 - CEF cannot be disabled on switches due to specialized hardware
 - Some packets on switches **cannot** be CEF-switched:
 - ARP Requests (Glean)
 - Packets requiring response from router CPU such as MTU too large
 - Routing Protocol Traffic
 - CDP or LLDP
 - Packets needing encryption

1.1.a FIB

- **A.K.A. "*Forwarding Information Base*"**
 - Shadow copy of the routing table
 - AD, Tags, Metrics, and more are not included in the FIB table
- **VERIFICATION**
 - `show ip cef [detail]`
 - `show ip cef <ip address><mask> detail`

1.1.b Adjacency Table

- **GENERAL CONCEPT**
 - Pre-Populated with L2 tables such as:
 - ARP Table
 - Frame-Relay Map Table
 - If FIB does not have a specific IP address...
 - An ARP request is sent out so that it can be seen in the FIB as 'attached'

Ccnp Route Study Guide

Diane Teare, Bob Vachon, Rick Graziani

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Implementing Cisco IP Routing (ROUTE)

Foundation Learning Guide Diane Teare, Bob Vachon, Rick Graziani, 2015 This is a Cisco authorized self paced learning tool for CCNP preparation This book teaches readers how to design, configure, maintain and scale routed networks that are growing in size and complexity The book covers all routing principles covered in the CCNP Implementing Cisco IP Routing course This intermediate level text assumes that readers have been exposed to beginner level networking concepts contained in the CCNA ICND1 and ICND2 certification curriculum No previous exposure to the CCNP level subject matter is required so the book provides a great deal of detail on the topics covered

[CCNP Routing and Switching ROUTE 300-101 Official Cert Guide](#) Kevin Wallace, 2015 Annotation This is a comprehensive self study tool for preparing for the new ROUTE exam Complete coverage of all exam topics ensures readers will arrive at a thorough understanding of what they need to master to succeed in the exam The book follows a logical organization of the ROUTE exam objectives with the material presented in a concise manner focusing on increasing readers retention and recall of exam topics

How to Master CCNP ROUTE René Molenaar, 2013-08-28 How to master CCNP ROUTE shows you step by step everything you need to know to master the CCNP ROUTE exam You will discover new topics like BGP routing manipulation, redistribution and learn more about familiar routing protocols like OSPF and EIGRP Plus you will receive an overview of routing labs that you should practice from GNS3Vault.com

[CCNP Routing and Switching Foundation Learning Guide Library](#) Diane Teare, Bob Vachon, Rick Graziani, Richard Froom, Erum Frahim, Amir Ranjbar, 2015-04-28 CCNP Routing and Switching Foundation Learning Library ROUTE 300-101, SWITCH 300-115, TSHOOT 300-135 contains three books that provide early and comprehensive foundation learning for the three new required exams for CCNP certification Implementing Cisco IP Routing ROUTE Foundation Learning Guide CCNP ROUTE 300-101 Implementing Cisco IP Switched Networks SWITCH Foundation Learning Guide CCNP SWITCH 300-115 Troubleshooting and Maintaining Cisco IP Networks TSHOOT Foundation Learning Guide CCNP TSHOOT 300-135 This package is a comprehensive self study tool for learning the material covered in the three new CCNP exams The books are intermediate level texts that assume that readers have been exposed to beginner level networking concepts contained in the CCNA ICND1 and ICND2 certification curriculum No previous exposure to the CCNP level subject matter is required so the books provide a great deal of detail on the topics covered Within the Authorized Self Study Guide

series each chapter opens with a list of objectives to help focus the reader's study. Real world case studies sprinkled throughout help illuminate theoretical concepts. Key terms will be highlighted and defined as they are first used. Each chapter will conclude with a summary to help review key concepts as well as review questions to reinforce the reader's understanding of what was covered.

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