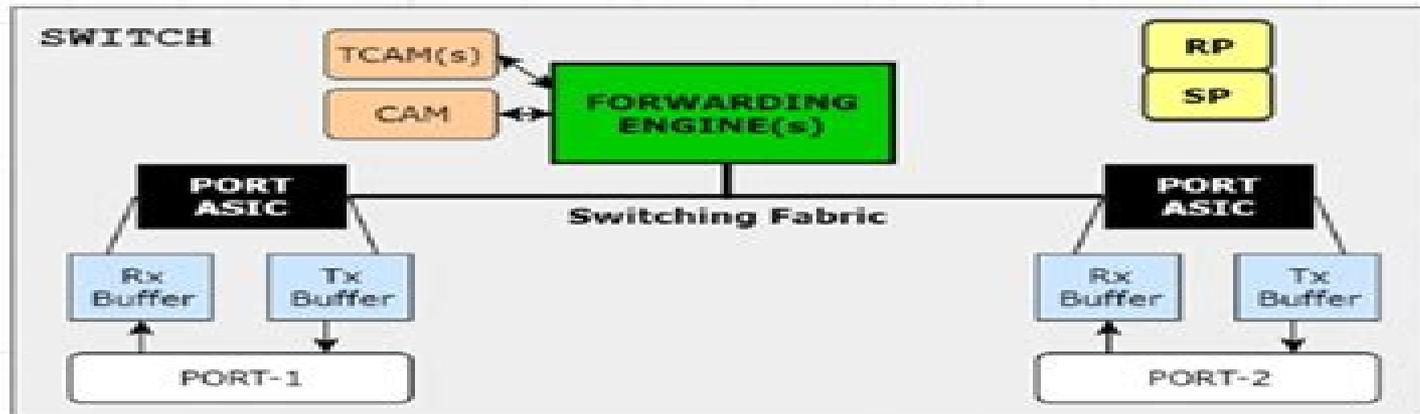


# CCNP Switch Master StudyGuide



QUIZLET FLASHCARDS - [https://quizlet.com/\\_4nu5d4](https://quizlet.com/_4nu5d4)

## 1.0 Layer 2 Technologies

### 1.1 Configure and verify switch administration

- **THREE PRIMARY SWITCHING METHODS**
  - **PROCESS-BASED SWITCHING**
    - Tasks are switched using CPU
    - This process is called *IP Input*
  - **FAST SWITCHING**
    - First packet would hit CPU
    - Fast Switching Cache would be populated
  - **CISCO EXPRESS FORWARDING**
    - Prepopulated L2 and L3 caches
    - CPU is rarely bothered
    - Tracks the ARP and Routing tables
- **CEF A.K.A. "CISCO EXPRESS FORWARDING"**
  - Known as *switching* within routers and switches
  - Enabled by default on Multilayer Switches
  - Composed two components: **FIB** and **Adjacency Table**
- **FIB A.K.A. "FORWARDING INFORMATION BASE"**
  - Copy of IP Routing Table and tracks information for automatic updates
  - Does not contain everything from the IP Routing Table

# How To Master Ccnp Switch

**René Molenaar**



## How To Master Ccnp Switch:

*How to Master Ccnp Switch* René Molenaar,2013-08-28 *How to master CCNP SWITCH* shows you step by step everything you need to know to master the CCNP SWITCH exam You will discover new topics like layer 3 switching and virtual gateway protocols but also learn more about familiar switching protocols like spanning tree and VLANs trunking Plus you will receive an overview of switching labs that you should practice from GNS3vault com

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characteristics and virtual routers Remote site connectivity IPv6 routing and RIPng EIGRP OSPFv2 and OSPFv3 IGP redistribution and route selection eBGP and iBGP IPv6 Internet connectivity Router security Routing protocol authentication

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Press Foundation Learning Series it teaches you how to plan configure verify secure and maintain complex enterprise switching solutions using Cisco Catalyst switches and Enterprise Campus Architecture The authors show you how to build scalable multilayer switched networks create and deploy global intranets and perform basic troubleshooting in environments using Cisco multilayer switches for client hosts and services They begin by reviewing basic switching concepts network design and campus network architecture Next they present in depth coverage of spanning tree inter VLAN routing first hop redundancy network management advanced switch features high availability and campus network security Each chapter opens with a list of topics that clearly identify its focus Each chapter ends with a summary of key concepts for quick study as well as review questions to assess and reinforce your understanding Throughout configuration examples and sample verification outputs illustrate critical issues in network operation and troubleshooting This guide is ideal for all certification candidates who want to master all the topics covered on the SWITCH 300 115 exam Serves as the official textbook for version 7 of the Cisco Networking Academy CCNP SWITCH course Covers basic switching terminology and concepts and the unique features of Cisco Catalyst switch designs Reviews campus network design including network structure roles of Cisco Catalyst switches and differences between Layer 2 and multilayer switches Introduces VLANs VTP Trunking and port channeling Explains Spanning Tree Protocol configuration Presents concepts and modern best practices for interVLAN routing Covers first hop redundancy protocols used by Cisco Catalyst switches Outlines a holistic approach to network management and Cisco Catalyst device security with AAA NTP 802 1x and SNMP Describes how to use advanced features to improve campus network resiliency and availability Shows how to establish switch physical redundancy using Stackwise VSS or redundant supervisors Explains advanced security features

**CCNP Switching Exam Cram** Richard A. Deal,2000  
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*Cisco CCNP SWITCH Simplified* Paul Browning, Farai Tafa, 2010 The Cisco CCNP SWITCH exam is one of three exams you must pass on your path towards becoming a CCNP The CCNP SWITCH exam will not only test you knowledge of Cisco specific and industry standard practices but also your hands on skills Cisco CCNP SWITCH Simplified has been written by two Cisco experts Farai Tafa and Paul Browning It has been tested by students just like you and proven to give you the knowledge and skills you need to get you through the tough CCNP SWITCH 642 813 About the Book Cisco CCNP SWITCH Simplified features over 750 pages of theory and hands on labs to ensure you grasp all the key concepts you need to understand for the exams and to carry out the role of a Cisco SWITCH engineer Theory lessons include Campus LANs VLANs and VTP Advanced Spanning Tree Etherchannels and Link Aggregation Protocols Securing the LAN Catalyst Multilayer Switching Extending the LAN for Wireless QoS and Advanced Catalyst Services Hands on labs include VLANs and VTP v1 and v2 Advanced Spanning Tree Etherchannel Configuration HSRP CEF Switching Securing LAN Ports Configuring the Switch for Wireless and many more Our Books Work Every one of our Cisco study guides is designed to get you the maximum results for the shortest amount of time They are not some quick fix by any means but we strip away all the useless jargon we don t show off what we know unlike some authors Every example is applied to live networks and you learn how it works in the real world Once you grasp the concepts you will be ready to pass your exams Amazon com

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*CCNP Support Exam Cram* Matthew Luallen, 2000 Covering all the technologies in exam 640 501 this book provides all the overviews concepts and terminology needed to help candidates get up to speed on the new Cisco certification as quickly as possible Features include a complete practice exam with answer explanations sections on test taking tips and shortcuts and a tear out Cram sheet for last minute memory refreshment

CCNP SWITCH

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