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Port-based authentication is a "network access control" concept in which a particular device is evaluated before being permitted to

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communicate with other devices located on the network.

802.1X Port-Based Authentication examines how this concept can be applied and the effects of its application to the majority of computer networks in existence today. 802.1X is a standard that extends

*the Extensible
Authentication
Protocol (EAP) over a
Local Area Network
(LAN) through a
process called
Extensible
Authentication
Protocol Over LANs
(EAPOL). The text
presents an
introductory overview
of port-based*

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*authentication
including a
description of 802.1X
port-based
authentication, a
history of the
standard and the
technical documents
published, and details
of the connections
among the three
network components.
It focuses on the*

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technical aspect of

*802.1X and the
related protocols and
components involved
in implementing it in
a network. The book
provides an in-depth
discussion of
technology, design,
and implementation
with a specific focus
on Cisco devices.*

Including examples

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*derived from the
802.1X
implementation, it
also addresses
troubleshooting issues
in a Cisco
environment. Each
chapter contains a
subject overview.
Incorporating
theoretical and
practical approaches,
802.1X Port-Based*

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Authentication seeks to define this complex concept in accessible terms. It explores various applications to today's computer networks using this particular network protocol.

*The CCNP Security
Core SCOR 300-701
Official Cert Guide
serves as*

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*comprehensive guide
for individuals who
are pursuing the Cisco
CCNP Security
certification. This
book helps any
network professionals
that want to learn the
skills required to
develop a security
infrastructure,
recognize threats and
vulnerabilities to*

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networks, and mitigate security threats. Complete and easy to understand, it explains key concepts and techniques through real-life examples. This book will be valuable to any individual that wants to learn about modern cybersecurity concepts and frameworks.

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of the CCNA Wireless
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and techniques. “Do I Know This Already?” quizzes open each chapter and enable you to decide how much time you need to spend on each section. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must

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*know thoroughly.
CCNA Wireless
640-722 Official
Certification Guide
focuses specifically
on the objectives for
the Cisco CCNA
Wireless 640-722
exam. Expert network
architect David
Hucaby (CCIE No.
4594) shares
preparation hints and*

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test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. Material is presented in a concise manner, focusing on increasing your understanding and retention of exam topics. Well regarded

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*for its level of detail,
assessment features,
comprehensive design
scenarios, and
challenging review
questions and
exercises, this official
study guide helps you
master the concepts
and techniques that
will enable you to
succeed on the exam
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*official study guide
helps you master all
the topics on the
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following: RF signals,
modulation, and
standards Antennas
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configuration, and
troubleshooting
Wireless APs CUWN*

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architecture

Controller

*configuration,
discovery, and
maintenance*

Roaming Client

configuration RRM

Wireless security

Guest networks WCS

network management

Interference CCNA

Wireless 640-722

Official Certification

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Guide 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-

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*&>CCENT/CCNA
ICND1 100-101*

*Official Cert Guide,
Academic Edition is a
comprehensive
textbook and study*

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*package for a
beginner-level
networking course.
This book has been
completely revised to
align to Cisco's new
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*Material is presented
in a concise manner,
focusing on
increasing student's
retention and recall*

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of exam topics. The book is printed in four color, allowing students to benefit from carefully crafted figures that utilize color to convey concepts. Students will organize their study through the use of the consistent features in these chapters, including: •

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Foundation Topics —
These sections make up the majority of the page count, explaining concepts, configurations, with emphasis on the theory and concepts, and with linking the theory to the meaning of the configuration commands. • Key Topics — Inside the

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Foundation Topics sections, every figure, table, or list that should absolutely be understood and remembered for the exam is noted with the words “Key Topic” in the margin. This tool allows the reader to quickly review the most important details in each chapter. •

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Chapter-ending

Summaries — These bulleted lists provide a quick and concise review of the key topics covered in each chapter. • Chapter-ending Review

Questions — Each chapter provides a set of multiple choice questions that help student's test their

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knowledge of the chapter concepts, including answers and full explanations. •

Chapter-ending Exercises — Each chapter concludes with a series of exercises designed to help students increase their retention of the chapter content including key term

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reviews, key topic tables, command review exercises, and memory table exercises. • *Part Reviews — This new edition includes a new part review feature that helps students consolidate their knowledge of concepts presented across multiple chapters. A*

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new mind mapping exercise helps students build strong mental maps of concepts. A new exam bank of part review questions helps students test themselves with scenario-based questions that span multiple topics. In addition to these powerful chapter

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learning, review, and practice features, this book also contains several other features that make it a truly effective and comprehensive study package, including:

- *A Getting Started chapter at the beginning of the book offer terrific advice for how to use the*

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book features and build an effective study plan. • The DVD contains over 90 minutes of video mentoring from the author on challenging topics such as CLI navigation, router configuration, switch basics, VLANs, and subnetting. • The book comes complete

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providing tons of opportunities to assess and practice.

Including the book review questions and part review questions, the exam bank includes more than 600 unique practice questions. • This book also comes with a free version of the Premium Edition

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achieve that certification. • A Study Plan Template is included on the DVD to help students organize their study time. The 1 hour 14 minute presentation found at the fo MPLS Fundamentals Shared-Bus and Shared-Memory Based Systems

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system.

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Asterisk with
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and digital
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systems Build
an interactive
dialplan,
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practices for

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features Delve
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options, such
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messages in a
database
Connect to
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Incorporate
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features and
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information
sharing Learn
how to use**

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features
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control your
system with
the Asterisk
Manager
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(AMI) Plan for**

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These quizzes allow readers to assess their knowledge of the chapter content and decide how much time to spend on any given section.
Foundation

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Topics - These sections make up the majority of the page count, explaining concepts, configurations, with emphasis on the theory and concepts,

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and with

linking the
theory to the
meaning of the
configuration
commands. Key

Topics -

Inside the
Foundation

Topics

sections,

every figure,

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table, or list that should absolutely be understood and remembered for the exam is noted with the words Key Topic in the margin. This tool allows the reader to

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important
details in
each chapter.

Exam

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each chapter
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help the
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remember the
details as
well as to get
more depth.
Readers will
be instructed

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to review key

topics from
the chapter,
complete

tables and
lists from
memory, and

define key
terms. Final

Preparation

Chapter – This
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Study Guide

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Objectives The purpose of Top-Down Network Design, Third Edition, is to help you design networks that meet a customer's business and technical goals. Whether your customer is another

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department
within your own
company or an
external client,
this book
provides you
with tested
processes and
tools to help
you understand
traffic flow,
protocol
behavior, and
internetworking

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technologies.

After completing this book, you will be equipped to design enterprise networks that meet a customer's requirements for functionality, capacity, performance, availability,

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affordability,
security, and
manageability.

Audience This
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if you are an
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professional
responsible for
designing and
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medium- to large-
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knowledge to
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engineers, and
sales engineers
who design
corporate
networks for
clients. In the

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fast-paced
presales
environment of
many systems
engineers, it
often is
difficult to
slow down and
insist on a top-
down, structured
systems analysis
approach.

Wherever
possible, this

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book includes shortcuts and assumptions that can be made to speed up the network design process.

Finally, this book is useful for undergraduate and graduate students in computer science

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and information
technology
disciplines.

Students who
have taken one
or two courses
in networking
theory will find
Top-Down Network
Design, Third
Edition, an
approachable
introduction to
the engineering

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and business issues related to developing real-world networks that solve typical business problems.

Changes for the Third Edition Networks have changed in many ways since the second edition

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was published.

Many legacy technologies have disappeared and are no longer covered in the book. In addition, modern networks have become multifaceted, providing support for numerous

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bandwidth-hungry applications and a variety of devices, ranging from smart phones to tablet PCs to high-end servers. Modern users expect the network to be available all the time, from any device, and to let them

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securely
collaborate with
coworkers,
friends, and
family. Networks
today support
voice, video,
high-definition
TV, desktop
sharing, virtual
meetings, online
training,
virtual reality,
and applications

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that we can't even imagine that brilliant college students are busily creating in their dorm rooms. As applications rapidly change and put more demand on networks, the need to teach a

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systematic approach to network design is even more important than ever. With that need in mind, the third edition has been retooled to make it an ideal textbook for college students. The

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third edition features review questions and design scenarios at the end of each chapter to help students learn top-down network design. To address new demands on modern networks, the third edition of Top-

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Down Network

Design also has updated material on the following topics: ;

Network

redundancy ;

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Spanning Tree
Protocol (RSTP)
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Network design
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Switching

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guide detailing

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services range from fast switching and Netflow switching to LAN Emulation. This book describes how to configure routing between virtual LANs (VLANs) and teach how to effectively configure and

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implement VLANs
on switches.

A comprehensive
introduction to
all facets of
MPLS theory and
practice Helps
networking
professionals
choose the
suitable MPLS
application and
design for their
network Provides

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MPLS theory and
relates to basic
IOS
configuration
examples The
Fundamentals
Series from
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launches the
basis to readers
for
understanding
the purpose,
application, and

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management of
technologies
MPLS has emerged
as the new
networking layer
for service
providers
throughout the
world. For many
service
providers and
enterprises MPLS
is a way of
delivering new

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applications on their IP networks, while consolidating data and voice networks. MPLS has grown to be the new default network layer for service providers and is finding its way into enterprise networks as

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well. This book focuses on the building blocks of MPLS (architecture, forwarding packets, LDP, MPLS and QoS, CEF, etc.). This book also reviews the different MPLS applications (MPLS VPN, MPLS

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Traffic

Engineering,
Carrying IPv6
over MPLS, ATOM,
VPLS, MPLS OAM
etc.). You will
get a
comprehensive
overview of all
the aspects of
MPLS, including
the building
blocks, its
applications,

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troubleshooting
and a
perspective on
the future of
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A History of the
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Implementing
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Foundation
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Python for Data
Analysis
Final Report of
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Terrorist
Attacks Upon the

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United States

Organized by exam objectives, this is a focused, concise review guide that works hand-in-hand with any learning tool, including the Sybex CCNA: Cisco Certified Network Associate Study Guide, 6th and Deluxe editions. The book will consist of four high-

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**level chapters, each mapping to the four main Domains of the exam skill-set. The book will drill down into the specifics of the exam, covering the following: Designing Cisco internetworks
Developing an access list
Evaluating TCP/IP communication
Configuring routers and switches**

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**Configuring IP
addresses, subnet
masks, and gateway
addresses Performing
LAN, VLAN, and
WAN troubleshooting
Understanding rules
for packet control The
interactive CD
contains two bonus
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Know This Already?”

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Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly.

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**Security Core SCOR
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Guide, focuses
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the topics on the
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*Contributions by Rick
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environments. This book addresses common misconceptions about CEF and packet switching across various platforms, helping you to improve your troubleshooting skills for CEF- and non-CEF-related problems. The first part of the book

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architectures and CEF
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