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Network

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Fundamentals

Network Fundamentals

*The world of
IT is always
evolving, but
in every area
there are
stable, core
concepts that*

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anyone just

setting out

needed to know

last year,

needs to know

this year, and

will still

need to know

next year. The

purpose of the

Foundations

series is to

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Network

Fundamentals

*identify these
concepts and
present them
in a way that
gives you the
strongest
possible start
ing-point, no
matter what
your endeavor.*

Networking

Foundations

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Network
Fundamentals

*provides
essential
knowledge
about
designing,
building, and
maintaining a
network. What
you learn here
will benefit
you in the
short term, as*

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you acquire

and practice

your skills,

and in the

long term, as

you use them.

Topics covered

include:

Networking

fundamentals

The OSI

networking

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model Network

architectures

File servers

and network

clients

Physical and

logical

topologies

Electrical

issues in

networking

Network media

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Network
*and cabling
Fundamentals
devices*

Network

standards and

protocols LAN

installation

WAN basics

Internet

access

Leading Cisco

authority Todd

Lammle helps

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Network

you gain

Fundamentals

insights into

the new core

Cisco network

technologies

Understanding

Cisco

Networking

Technologies

is an

important

resource for

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Network

Fundamentals

*those
preparing for
the new Cisco
Certified
Network
Associate
(CCNA)
certification
exam as well
as IT
professionals
looking to*

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Network

Fundamentals

*understand
Cisco's latest
networking
products,
services, and
technologies.
Written by
bestselling
author and int
ernationally
recognized
Cisco expert*

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*Todd Lammle,
this in-depth
guide provides
the
fundamental
knowledge
required to
implement and
administer a
broad range of
modern
networking and*

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IT infrastructure.

Fundamentals

Cisco is

the worldwide

leader in

network techno

logies—80% of

the routers on

the Internet

are Cisco.

This

authoritative

book provides

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Network
Fundamentals
*you with a
solid*

*foundation in
Cisco*

*networking,
enabling you
to apply your
technical
knowledge to
real-world
tasks. Clear
and accurate*

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chapters cover

Fundamentals

topics

including

routers,

switches,

controllers

and other

network

components,

physical

interface and

cabling, IPv6

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Network

addressing,

discovery

protocols,

wireless infra

structure,

security

features and

encryption

protocols, con

troller-based

and software-

defined

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Network

*architectures,
and more.*

Fundamentals

*After reading
this essential
guide, you
will*

understand:

Network

fundamentals

Network access

IP

connectivity

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Network
and IP
Fundamentals
services

Security

fundamentals

Automation and
programmabilit
y

Understanding

Cisco

Networking

Technologies

is a must-read

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*for anyone
preparing for*

the new CCNA

certification

or looking to

gain a primary

understanding

of key Cisco

networking

technologies.

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unified

communications

to

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*updated for
the latest*

technologies,

this is

today's

easiest, most

visual guide

to Cisco(R)

networking.

Even if you've

never set up

or managed a

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network, Cisco

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Simplified,

Second

Edition, helps

you quickly

master the

concepts you

need to

understand.

Its full-color

diagrams and

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clear

Fundamentals

explanations

give you the

big picture:

how each

important

networking

technology

works, what it

can do for

you, and how

they all fit

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together. The

Fundamentals

authors

illuminate

networking

from the

smallest LANs

to the largest

enterprise inf

rastructures,

offering

practical

introductions

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to key issues

Fundamentals
ranging from

security to

availability,

mobility to vi

rtualization.

What you

always wanted

to know about

networking but

were afraid to

ask! How

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*networks and
the Internet*

*work How to
build*

*coherent, cost-
effective*

*network infras
tructures How*

to design

*networks for
maximum*

reliability

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and

Fundamentals

availability

What you need

to know about

data center

and

application

networking How

to secure

networks

against

today's

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*threats and
attacks How to*

*take advantage
of the latest
mobility*

technologies

How

*virtualizing
networks can*

help

businesses

leverage their

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Network
network
Fundamentals

investments

even further

How to combine

messaging,

calendar,

telephony,

audio, video,

and web

conferencing

into a unified

communications

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Network

architecture

Fundamentals

This book is

part of the

Networking

Technology

Series from

Cisco

Press (R), the

only

authorized

publisher for

Cisco (R) .

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"Computer

Networking

Essentials"

starts with an

introduction

to networking

concepts.

Readers learn

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*computer
networking
terminology
and history,
and then dive
into the
technical
concepts
involved in
sharing data
across a
computer*

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network.
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(CCNAB)

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in-One For
Dummies

Routing Basics
for Cisco
Certified

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Exam 640-407

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Technologies,

Volume 1

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certifications, one
complete Cisco training
solution for networking

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professionals! The
CCNA exam is an entry-
level IT certification
from Cisco Systems for
professionals installing
and maintaining route
and switched networks.
The current exam
material covers
networking concepts
along with new and
updated content on
network security
fundamentals and the

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basics of wireless networking. This book can be used as a study guide for either track you choose to receive your CCNA – the single exam, 640-802 or the combined 640-822 and 640-816, and for the CCENT certification which a student will receive upon completion of the 640-822 exam.

The author team has

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Fundamentals
arranged the content so
that you can easily
identify the objectives
for each half of the
combined exam. *

Layout of the guide
parallels the
CCNA/CCENT exam
objectives for ease of
study * Details all
aspects of the exams
including security and
wireless networking
essentials * Covers

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everything from
introductory to
advanced
topics—keeping the
beginner and
intermediate IT
professional in mind *
Chapter ending
questions and answers
allow for graduated
learning * Two practice
exams on the
accompanying DVD
help eliminate test-day

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jitters

Cisco CCNA For
Beginners! The
Ultimate Beginners
Crash Course To
Learning Cisco &
Passing Your Exam Are
You Ready To Learn
How To Configure &
Operate Cisco
Equipment? If So
You've Come To The
Right Place - Regardless
Of How Little

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Experience You May Have! If you're interested in networking then you're going to want (or need!) to know and understand Cisco switches, routers & more. This is your ultimate guide to getting the knowledge you need and passing your exam too! There's a ton of other technical guides out there that aren't clear

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and concise, and in my opinion use far too much jargon. My job is to teach you in simple, easy to follow terms how to get started and excel at Cisco networking! Here's A Preview Of What Cisco CCNA For Beginners Contains... An Introduction to Newtworking Networks And Their Building

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Blocks IP Addressing &
Subnets Explained

Cisco Switches, Routers
& IOS Understanding IP

Routing Network

Security - What You

Need To Know Wide

Area Networks (WANs

Explained!) A Preview

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Networks course and organize your time. The book's features help you focus on important concepts to succeed in this course: Chapter Objectives - Review core concepts by answering the focus questions listed at the beginning of each chapter. Key Terms - Refer to the lists of networking vocabulary

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introduced and highlighted in context in each chapter. Glossary - Consult the comprehensive Glossary with more than 250 terms. Summary of Activities and Labs - Maximize your study time with this complete list of all associated practice exercises at the end of each chapter.

Check Your

Page 46/305

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Understanding -

Evaluate your readiness with the end-of-chapter questions that match the style of questions you see in the online course quizzes. The answer key explains each answer.

How To - Look for this icon to study the steps you need to learn to perform certain tasks.

Interactive Activities -

Reinforce your

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understanding of topics with dozens of exercises from the online course identified throughout the book with this icon.

Videos - Watch the videos embedded within the online course.

Packet Tracer Activities - Explore and visualize networking concepts using Packet Tracer.

There are 40 exercises interspersed throughout

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the chapters and provided in the accompanying Labs & Study Guide book. Part of the Cisco Networking Academy Series from Cisco Press, books in this series support and complement the Cisco Networking Academy curriculum.

Network Basics
Companion Guide
CCNA Exploration

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Companion Guide
Exam 640-911

CCNA Exploration
Course Booklet

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An engaging
approach for
anyone

beginning a
career in
networking As
the world

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products and
services,
Cisco products
are constantly
growing in
demand. Yet,
few books are
aimed at those
who are
beginning a

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career in
IT--until now.

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solid

foundation on

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thorough
coverage of
fundamental
networking
concepts.

Author Troy
McMillan
applies his
years of
classroom
instruction to
effectively

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present high-level topics in easy-to-understand terms for beginners. With this indispensable full-color resource, you'll quickly learn the

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concepts,
processes, and
skills that
are essential
to administer
Cisco routers
and switches.
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clear
breakdown of
what you can
expect to

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chapter,
followed by a
straightforward
discussion
of concepts on
core topics
Includes
suggested labs
and review
questions at
the conclusion

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of each
chapter, which
encourage you
to reinforce
and measure
your
understanding
of the topics
discussed
Serves as an
ideal starting
point for

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products and
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interested in
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but have
little or no
knowledge of
networking and
are new to

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for you.

CCNA Routing
and Switching
Practice and
Study Guide is
designed with
dozens of
exercises to

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help you learn
the concepts

and

configurations
crucial to

your success
with the Inter
connecting

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Networking

Devices Part 2

(ICND2

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200-101) exam.

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The author has mapped the chapters of this book to the last two Cisco

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courses in the CCNA Routing and Switching

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Networks and
Connecting
Networks.

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cover the
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and Switching
certification
means that you
have the
knowledge and
skills
required to

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successfully
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configure,
operate, and
troubleshoot a
medium-sized
routed and
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networks. As a
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organizations,
or college-
and university-
level
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will gain a detailed understanding of routing by successfully completing all the exercises in this book. Each chapter is designed with a variety of exercises,

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activities,
and scenarios
to help you:

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vocabulary

Strengthen tro

ubleshooting

skills Boost

configuration

skills

Reinforce

concepts

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environments,
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people find
each other
faster, solve
problems more

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with more
agility, and
increase
customer
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Presence
Fundamentals
explains the
concepts
behind Unified
Presence, the
technologies
involved,
their interdep
endencies, and
how to
troubleshoot

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them. The authors support their discussions of concepts and techniques with many sample applications, guiding network professionals

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to real-world mastery even if they have never used presence technologies. This book will be an indispensable resource for all Cisco partners and

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integrators

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understand

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professionals

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This is the
only book that
Walks readers
step by step
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applications

that encourage

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innovate in

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organizations

Thoroughly

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technical

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it can be used
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real-world
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course in the
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virtualization, and
database

technologies into
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and optimize Cisco
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products, securing
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implement Cisco
networks Whether
you're new to
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services or an
experienced
professional
looking to refresh
your knowledge
about Cisco, this
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practices you
need.

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your knowledge of

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business? And
you looking for a
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down the
seemingly
complex topic of
computer
networking into
simple, digestible

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can start applying
right away to set
up, manage and
troubleshoot
computer
networks with
confidence? If
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YES, keep
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of getting CCNA
certification in the
current tech
industry that is
openly hungry for
network
professionals. You

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having practical

Network skills or

land yourself a job

in a better paying

Cisco-partner

company and

other businesses.

You also know that

networking job

demand is growing

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exponentially each year, with a projected rate of 26% in 2020 alone. You know all that... But have you felt intimidated by the whole process of learning networking and even wondered whether you'd make it through a

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couple of weeks?

Perhaps you're not

an IT professional,

but desire to learn

network hardware

maintenance and

management to

improve your life

in aspects like

security, business

efficiency or for

self fulfillment, but

don't have a clue

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about where to begin? Then keep reading, as I have the perfect solution for you to get started with networking the right way. This book is a simple, straightforward and concise beginners' guide to computer

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Fundamentals
networking, and is
what you've been

looking for. This

book recognizes

that the first step

to becoming a real

network

professional is

having a solid

foundation of

networking

essentials, and its

valuable content is

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woven based on
that

understanding. As

a beginner, I

imagine that

you've been

having certain

questions and

concerns such as:

What's the best

way or place to

start learning

networking? What

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are some of the
essential topics I
need to cover?

How do I acquire a
solid

understanding of
networking that
would enable me
to handle basic
hardware and
software

networking tasks?

What does

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networking even
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entail? If I am

right, even if just
close, I am

confident that this
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learn: What a

computer network

is and the types of

networks we have

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What an open systems interconnections model looks like, and why it's important to divide a network into various layers The ins and outs of data encapsulation What you need to know in TCP/IP The role of

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commands,
protocols, dynamic
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more. What's Inside
Understand your
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including the
difference between
routers and
switches Configure
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trunks Secure your
network Connect

and configure

routers and

switches Establish

good maintenance

habits About the

Reader This book is

written for readers

with no previous

experience with

Cisco networking.

About the Author

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Ben Piper is an IT consultant who holds numerous Cisco, Citrix, and Microsoft certifications including the Cisco CCNA and CCNP. He has created many video courses on networking, Cisco CCNP certification, Puppet,

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objectives--Review core concepts by answering the focus questions listed at the beginning of each chapter. *Key terms--Refer to the updated lists of networking vocabulary introduced and highlighted in context in each

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chapter.

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*Glossary--Consult the comprehensive glossary with more than 250 terms.

*Check Your Understanding questions and answer key--Evaluate your readiness with the updated end-of-chapter questions

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that match the style of questions you see on the online course quizzes. The answer key explains each answer.

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to prepare you for the complex styles of questions you might see on the CCNA exam. The answer key explains each answer. *How To--Look for this icon to study the steps you need to learn to perform certain tasks.

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