

Online Library

Networking

Basics Ccna 1

Networking

Basics

Ccna 1

Companion

Guide

Manual

Network Basics is the first course of the updated CCNA

Online Library
Networking
Basics Ccna 1
v5 curriculum
Companion Guide
Manual

offered by the
Cisco Networking
Academy. This
course is intended
for students how
are interested in
pursuing a career
in I.T. or
networking. *

*This course is
intended for
students who are

Online Library

Networking

Basics Ccna 1

Companion Guide

Manual

beginners in
networking and
pursuing a less
technical career.

*Easy to read,
highlight, and
review on the go,
wherever the
Internet is not
available.

*Extracted
directly from the
online course,

Online Library

Networking

Basics Ccna 1

Companion Guide

Manual

with headings that
have exact page
correlations to the
online course

Connecting

Networks v6

Companion Guide

is the official

supplemental

textbook for the

Connecting

Networks version

6 course in the

Online Library

Networking

Basics Ccna 1

Cisco Networking
Companion Guide
Academy CCNA

Manual
Routing and

Switching

curriculum. The

Companion Guide

is designed as a

portable desk

reference to use

anytime,

anywhere to

reinforce the

material from the

Online Library

Networking

Basics Ccna 1

course and
Companion Guide

Manual

organize your
time. The book 's
features help you
focus on important
concepts to
succeed in this
course: Chapter
Objectives – Review
w core concepts
by answering the
focus questions
listed at the

Online Library

Networking

Basics Ccna 1

Companion Guide

Manual

beginning of each chapter. Key

Terms – Refer to

the lists of

networking

vocabulary

introduced and

highlighted in

context in each

chapter.

Glossary – Consult

the

comprehensive

Online Library

Networking

Basics Ccna 1

Companion Guide

Manual

Glossary with 347 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 Understanding – Evaluate your

Online Library

Networking

Basics Ccna 1

Companion Guide Manual

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

Online Library

Networking

Basics Ccna 1

Companion Guide

Manual

learn to perform
certain tasks.

Interactive Activities – Reinforce
your

understanding of
topics with dozens
of exercises from
the online course
identified

throughout the
book with this
icon. Packet

Online Library

Networking

Basics Ccna 1

Companion Guide

Manual

Tracer

Activities – Explore

and visualize

networking

concepts using

Packet Tracer

exercises

interspersed

throughout the

chapters and

provided in the

accompanying

Labs & Study

Online Library

Networking

Basics Ccna 1

Guide book.

Companion Guide
Manual

Videos – Watch the
videos embedded

within the online
course. Hands-on

Labs – Work

through all the

course labs and

additional Class

Activities that are

included in the

course and

published in the

Online Library

Networking

Basics Ccna 1

separate Labs &

Study Guide.

Manual

Routing and

Switching

Essentials

Companion Guide

is the official

supplemental

textbook for the

Routing and

Switching

Essentials course

in the Cisco®

Online Library

Networking

Basics Ccna 1

Networking
Academy® Companion Guide

Manual
CCNA® Routing

and Switching

curriculum. This
course describes

the architecture,
components, and

operations of
routers and

switches in a
small network.

You learn how to

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Manual

configure a router and a switch for basic functionality.

By the end of this course, you will be able to

configure and troubleshoot routers and

switches and

resolve common

issues with RIPv1,

RIPv2, single-area

Online Library
Networking
Basics Ccna 1
Companion Guide
Manual

and multi-area
OSPF, virtual
LANs, and inter-
VLAN routing in
both IPv4 and
IPv6 networks.
The Companion
Guide is designed
as a portable desk
reference to use
anytime,
anywhere to
reinforce the

Online Library

Networking

Basics Ccna 1

Companion Guide

Manual

material from the 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

Online Library

Networking

Basics Ccna 1

Companion Guide Manual

listed at the beginning of each chapter. Key terms – Refer to the lists of networking vocabulary introduced and highlighted in context in each chapter.

Glossary – Consult the

Online Library

Networking

Basics Ccna 1

comprehensive
Companion Guide

Glossary with
Manual
more than 200

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

Online Library

Networking

Basics Ccna 1

Companion Guide

Manual

Your 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. Related

Title: Routing and

Online Library

Networking

Basics Ccna 1

Switching
Companion Guide

Essentials Lab

Manual How

To – Look for this

icon to study the

steps you need to

learn to perform

certain tasks.

Interactive Activit

ies – Reinforce

your

understanding of

topics by doing all

Online Library

Networking

Basics Ccna 1

Companion Guide

Manual

the 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

Online Library
Networking
Basics Ccna 1
networking
Companion Guide
concepts using
Manual
Packet Tracer
exercises
interspersed
throughout the
chapters. Hands-
on Labs – Work
through all the
course labs and
additional Class
Activities that are
included in the

Online Library
Networking
Basics Ccna 1
course and
Companion Guide
Manual
published in the
separate Lab
Manual.

Trust the best-selling Official Cert Guide series from Cisco Press to help you learn, prepare, and practice for exam success. They are built with the

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Manual

objective of
providing
assessment,
review, and
practice to help
ensure you are
fully prepared for
your certification
exam. • Master
Cisco CCNA
200-301 exam
topics • Assess
your knowledge

Online Library

Networking

Basics Ccna 1

with chapter-
opening quizzes .

Companion Guide
Manual
Review key
concepts with
exam preparation
tasks . Practice
with realistic
exam questions in
the practice test
software This is
the eBook edition
of the CCNA
200-301 Official

Online Library

Networking

Basics Ccna 1

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Manual

Cert Guide,
Volume 1. This
eBook, combined
with the CCNA
200-301 Official
Cert Guide
Volume 2, cover
all of exam topics
on the CCNA
200-301 exam.
This eBook does
not include the
practice exams

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Basics Ccna 1

that comes with
the print edition.

Companion Guide
Manual
CCNA 200-301

Official Cert Guide

, Volume 1

presents you with

an organized test-

preparation

routine using

proven series

elements and

techniques. “ Do I

Know This

Online Library

Networking

Basics Ccna 1

Companion Guide

Manual

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

Online Library

Networking

Basics Ccna 1

Companion Guide

Manual

concepts you
must know

thoroughly. CCNA

200-301 Official

Cert Guide,

Volume 1 from

Cisco Press

enables you to

succeed on the

exam the first

time and is the

only self-study

resource

Online Library

Networking

Basics Ccna 1

approved by
Cisco. Best-selling
Companion Guide
Manual

author and expert
instructor Wendell
Odom shares
preparation hints
and test-taking
tips, helping you
identify areas of
weakness and
improve both your
conceptual
knowledge and

Online Library

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Companion Guide

Manual

hands-on skills.

This complete
study package

includes · A test-
preparation

routine proven to
help you pass the

exams · Do I

Know This

Already? quizzes,
which enable you

to decide how
much time you

Online Library

Networking

Basics Ccna 1

Companion Guide

Manual

need to spend on
each section .

Chapter-ending
and part-ending
exercises, which
help you drill on
key concepts you
must know
thoroughly . The
powerful Pearson
Test Prep
Practice Test
software,

Online Library

Networking

Basics Ccna 1

complete with
Companion Guide

Manual
hundreds of well-
reviewed, exam-

realistic

questions,

customization

options, and

detailed

performance

reports . A free

copy of the CCNA

200-301 Volume 1

Network

Online Library

Networking

Basics Ccna 1

Simulator Lite
Companion Guide

Manual

software,
complete with
meaningful lab
exercises that
help you hone
your hands-on
skills with the
command-line
interface for
routers and
switches · Links
to a series of

Online Library

Networking

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Companion Guide

Manual

hands-on config
labs developed by
the author .

Online, interactive
practice exercises
that help you hone
your knowledge .

More than 90
minutes of video
mentoring from
the author . A
final preparation
chapter, which

Online Library

Networking

Basics Ccna 1

Companion Guide
Manual

guides you
through tools and
resources to help
you craft your
review and test-
taking strategies

- Study plan
suggestions and
templates to help
you organize and
optimize your
study time Well
regarded for its

Online Library

Networking

Basics Ccna 1

Companion Guide

Manual

level of detail,
study plans,
assessment
features,
challenging review
questions and
exercises, video
instruction, and
hands-on labs, this
official study
guide helps you
master the
concepts and

Online Library

Networking

Basics Ccna 1

Companion Guide

Manual

techniques that ensure your exam success. The

CCNA 200-301

Official Cert

Guide, Volume 1,

combined with

CCNA 200-301

Official Cert

Guide, Volume 2,

walk you through

all the exam

topics found in the

Online Library

Networking

Basics Ccna 1

Companion Guide

Manual

Cisco 200-301
exam. Topics
covered in Volume

1 include: .

Networking

fundamentals .

Implementing

Ethernet LANs .

Implementing

VLANs and STP

. IPv4

addressing .

IPv4 routing .

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Networking

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Manual

OSPF · IPv6 ·

Wireless LANs

Companion

Website: The

companion

website contains

the CCNA

Network

Simulator Lite

software, online

practice

exercises, study

resources, and 90

Online Library

Networking

Basics Ccna 1

Companion Guide

Manual

minutes of video training. In addition to the wealth of updated content, this new edition includes a series of free hands-on exercises to help you master several real-world configuration and troubleshooting

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Manual

activities. These exercises can be performed on the CCNA 200-301 Network Simulator Lite, Volume 1 software included for free on the companion website that accompanies this book. This

Online Library

Networking

Basics Ccna 1

Companion Guide

Manual

software, which simulates the experience of working on actual Cisco routers and switches, contains the following 21 free lab exercises, covering topics in Part II and Part III, the first hands-on configuration sections of the

Online Library

Networking

Basics Ccna 1

book: 1.

Configuring Local

Username 2.

Configuring

Hostnames 3.

Interface Status I

4. Interface Status

II 5. Interface

Status III 6.

Interface Status

IV 7. Configuring

Switch IP Settings

8. Switch IP

Online Library

Networking

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Manual

Address 9. Switch
IP Connectivity I

10. Switch CLI

Configuration

Process I 11.

Switch CLI

Configuration

Process II 12.

Switch CLI Exec

Mode 13. Setting

Switch Passwords

14. Interface

Settings I 15.

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Networking

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Manual

Interface Settings

II 16. Interface

Settings III 17.

Switch

Forwarding I 18.

Switch Security I

19. Switch

Interfaces and

Forwarding

Configuration

Scenario 20.

Configuring

VLANs

Online Library

Networking

Basics Ccna 1

Configuration

Companion Guide

Manual

Scenario 21.

VLAN

Troubleshooting

Pearson Test

Prep online

system

requirements:

Browsers:

Chrome version

73 and above;

Safari version 12

and above;

Online Library

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Manual

Microsoft Edge 44
and above

Devices: Desktop
and laptop
computers, tablets
running on
Android v8.0 and
iOS v13,
smartphones with
a minimum screen
size of 4.7".

Internet access
required Pearson

Online Library

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Test Prep offline
system

requirements:

Windows 10,

Windows 8.1;

Microsoft .NET

Framework 4.5

Client; Pentium-

class 1 GHz

processor (or

equivalent); 512

MB RAM; 650 MB

disk space plus 50

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MB for each
downloaded
practice exam;
access to the
Internet to
register and
download exam
databases

Network Security

1 and 2

Companion Guide

Networking

Basics: Ccna 1

Online Library

Networking

Basics Ccna 1

Companion Guide

Companion Guide

Manual
Networks v6

Companion Guide

Network

Fundamentals

Scaling Networks

Companion Guide

Scaling

Networks v6

Companion

Guide is the

Online Library

Networking

Basics Ccna 1

Companion Guide

Manual

***official
supplemental
textbook for
the Scaling
Networks v6
course in the
Cisco
Networking
Academy CCNA
Routing and
Switching
curriculum.***

Online Library

Networking

Basics Ccna 1

**The Companion
Guide is**

**designed as a
portable desk
reference to
use anytime,
anywhere to
reinforce the
material from
the course and
organize your
time. The**

Online Library

Networking

Basics Ccna 1

Companion Guide

Manual

book's features help you focus on important concepts to succeed in this course: . Chapter objectives—Review core concepts by answering the focus

Online Library

Networking

Basics Ccna 1

Companion Guide

Manual

**questions
listed at the
beginning of
each chapter.**

**· Key
terms—Refer to
the lists of
networking
vocabulary
introduced and
highlighted in
context in**

Online Library

Networking

Basics Ccna 1

Companion Guide

Manual

each chapter.

• Glossary—Consult the

comprehensive

Glossary with

more than 250

terms. •

Summary of

Activities and

Labs—Maximize

your study

time with this

Online Library

Networking

Basics Ccna 1

Companion Guide

Manual

complete list

of all

associated

practice

exercises at

the end of

each chapter.

• Check Your U

nderstanding–E

valuate your

readiness with

the end-of-

Online Library

Networking

Basics Ccna 1

Companion Guide

Manual

***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***

Online Library

Networking

Basics Ccna 1

Companion Guide

Manual

***this icon to
study the
steps you need
to learn to
perform
certain tasks.
Interactive Ac
tivities—Reinf
orce your
understanding
of topics with
dozens of***

Online Library

Networking

Basics Ccna 1

*exercises from
the online
course*

*identified
throughout the
book with this
icon.*

*Videos—Watch
the videos
embedded
within the
online course.*

Online Library

Networking

Basics Ccna 1

Companion Guide

Manual

***Packet Tracer
Activities—Explore and
visualize
networking
concepts using
Packet Tracer
exercises
interspersed
throughout the
chapters and
provided in***

Online Library

Networking

Basics Ccna 1

the
Companion Guide
Manual

***the
accompanying
Labs & Study
Guide book.***

***Hands-on
Labs—Work
through all
the course
labs and
additional
Class
Activities***

Online Library

Networking

Basics Ccna 1

Companion Guide

Manual

***that are
included in
the course and
published in
the separate
Labs & Study
Guide.***

***The completely
revised and
only
authorized
Labs and Study***

Online Library

Networking

Basics Ccna 1

Guide for the

Companion Guide

Manual

Networking

Academy

Program CCNA 1

curriculum A

portable

classroom

resource that

supports the

topics in the

CCNA 1

Online Library

Networking

Basics Ccna 1

Companion Guide

Manual

***curriculum
aligning 1:1
with course
modules***

***Includes all
the labs in
the online
curriculum as
well as
additional ins
tructor-
created***

Online Library

Networking

Basics Ccna 1

Companion Guide

Manual

***challenge labs
for extended
learning and
classroom
exercises***

***Written by
leading
Academy
instructor
Shawn***

***McReynolds,
who bring a***

Online Library

Networking

Basics Ccna 1

Companion Guide

Manual

***fresh voice to
the course
material The
all-new Labs
and Study
Guide titles
combine the
best of the
former Lab
Companions and
Engineering
Journal and***

Online Library

Networking

Basics Ccna 1

*Workbooks with
new features
to improve the*

student's

hands-on

skills and

reinforce the

topics for

each CCNA

course.

Networking

Basics CCNA 1

Online Library

Networking

Basics Ccna 1

Labs and Study

Guide is a

Manual

complete

collection of

the lab

exercises

specifically

written for

the CCNA 1

course in the

Cisco

Networking

Online Library
Networking
Basics Ccna 1
**Academy
Program,
Companion Guide
Manual**

*designed to
give students
hands-on
experience in
a particular
concept or
technology.
Each lab
contains an
introductory*

Online Library

Networking

Basics Ccna 1

overview, a preparation/tools required

section, explanations of commands, and step-by-step

instructions to reinforce the concepts introduced in

Online Library

Networking

Basics Ccna 1

Companion Guide

Manual

***the online
course and
covered in the
Companion
Guide. NEW:
Challenge labs
written by
Academy
instructors,
tested in
their
classrooms***

Online Library

Networking

Basics Ccna 1

Companion Guide
Manual

will be included as additional or alternative labs. The Study Guide section is designed to provide additional exercises and activities to

Online Library

Networking

Basics Ccna 1

Companion Guide

Manual

***reinforce
students'
understanding
of the course
topics,
preparing them
for the course
assessments.***

***As a study
guide it will
also continue
to provide***

Online Library

Networking

Basics Ccna 1

**ample writing
opportunities
to guide**

**students into
the habit of
keeping notes
on networking
topics.**

**The only
authorized
Companion
Guide for the**

Online Library

Networking

Basics Ccna 1

Cisco

Networking

Academy

Program The

Network

Security 1 and

2 Companion

Guide is

designed as a

portable desk

reference to

be used with

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Networking

Basics Ccna 1

version 2.0 of

the Cisco®

Networking

Academy®

Program

curriculum.

The author

reinforces the

material in

the two

courses to

help you to

Online Library

Networking

Basics Ccna 1

Companion Guide

Manual

***focus on
important
concepts and
to organize
your study
time for
exams. This
book covers
the overall
security
process based
on security***

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Manual

***policy design
and
management,
with an
emphasis on
security
technologies,
products, and
solutions. The
book also
focuses on
security***

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Networking

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Manual

***appliance and
secure router
design,
installation,
configuration,
and
maintenance.***

***The first
section of
this book
covers authent
ication,***

Online Library

Networking

Basics Ccna 1

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Manual

***authorization,
and accounting
(AAA)***

***implementation
using routers
and security
appliances and
securing the
network at
both Layer 2
and Layer 3 of
the OSI***

Online Library

Networking

Basics Ccna 1

Companion Guide

Manual

***reference
model. The
second section
of this book
covers
intrusion
prevention
system (IPS)
implementation
using routers
and security
appliances and***

Online Library

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Basics Ccna 1

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Manual

***virtual
private
network (VPN)
implementation
using routers
and security
appliances.
New and
improved
features help
you study and
succeed in***

Online Library

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Basics Ccna 1

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Manual

this course:

Chapter

objectives

Review core

concepts by

answering the

questions at

the beginning

of each

chapter. Key

terms Note the

networking

Online Library

Networking

Basics Ccna 1

Companion Guide

Manual

***vocabulary to
be introduced
and refer to
the
highlighted
terms in
context in
that chapter.
Scenarios and
setup
sequences
Visualize real-***

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Basics Ccna 1

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Manual

life situations with details about the problem and the solution. Chapter Summaries Review a synopsis of the chapter as a study aid.

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Companion Guide

Manual

Glossary

Consult the

all-new

glossary with

more than 85

terms. Check

Your

Understanding

questions and

answer key

Evaluate your

readiness to

Online Library

Networking

Basics Ccna 1

Companion Guide

Manual

***move to the
next chapter
with the
updated end-of-
chapter
questions. The
answer
appendix
explains each
answer. Lab
References
Stop when you***

Online Library

Networking

Basics Ccna 1

Companion Guide
Manual

**see this icon
and perform
the related
labs in the
online
curriculum.**

**Companion CD-
ROM The CD-ROM
includes:**

**Interactive
Media Elements
More than 95**

Online Library

Networking

Basics Ccna 1

Companion Guide

Manual

***activities
that visually
demonstrate
some of the
topics in the
course***

***Additional
Resources***

***Command
reference and
materials to
enhance your***

Online Library

Networking

Basics Ccna 1

*experience
with the
curriculum*

All key CCNA

commands at

your

fingertips

Quick

reference for

CCNA exam

study

customized for

Online Library

Networking

Basics Ccna 1

***the Cisco
Networking
Academy***

***classroom Long-
term reference
guide for the
workplace and
after passing
the exam***

***Examples of
how to use the
commands are***

Online Library

Networking

Basics Ccna 1

Companion Guide

Manual

***listed for
additional
help This
"CCNA Command
Quick
Reference"
contains all
of the
commands that
are taught in
the Cisco
Networking***

Online Library

Networking

Basics Ccna 1

Academy
Companion Guide
Manual

**Program CCNA
curriculum,
with examples
on how to
apply them to
a real-world
situation.**

**This book is
not meant to
replace any
teaching**

Online Library

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Basics Ccna 1

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Manual

**materials but
rather serve
as a**

**supplementary
guide to the
course**

**curriculum. As
a quick**

**reference, it
will provide**

students and

professionals

Online Library

Networking

Basics Ccna 1

**easy access to
the proper use
of all the**

**commands that
are presented
to them within
the CCNA**

**curriculum and
exam. The book
will cover
CCNA semesters
2-4 (as the**

Online Library

Networking

Basics Ccna 1

Companion Guide

Manual

***first semester
does not
introduce any
commands.)***

***This edition
is based on
the current
version 3.1 of
the
curriculum. The
book will
parallel the***

Online Library

Networking

Basics Ccna 1

Companion Guide

Manual

***flow of topics
and structure
of the online
curriculum; as
commands are
taught in the
curriculum,
they will be
presented in
the Quick
Reference,
showing the***

following:

A.) The command itself, along with keywords and optional sub-commands

B.) Where it can be used (showing the prompt to give a frame of reference). Throug

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***hout the book
there will be
Configuration
Examples given
to the reader,
which will
summarize the
previous group
of commands
visually by
having a
diagram of a***

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***network with
command
outputs,
showing all of
the commands
needed to
create that
network,
showing what
commands to
use, where to
use them, and***

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***a summary of
why we are
using the
commands. This
allows the
student to see
all of the
commands in
one location,
instead of
having to flip
through a bunch***

Online Library

Networking

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***of different
pages. Scott
Empson is an
instructor in
the Department
of Telecommuni-
cations at the
Northern
Alberta
Institute of
Technology in
Edmonton,***

Online Library

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***Alberta,
Canada. He
teaches Cisco
Routing,
Switching, and
Network Design
courses to
students at
the post-
secondary
level. He
possesses***

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**three
undergraduate
degrees: A
Bachelor of
Arts, with a
Major in
English; a
Bachelor of
Education,
again with a
Major in Engli
sh/Language**

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***Arts; and a
Bachelor of
Applied
Information
Systems
Technology,
with a Major
in Network
Management.
His industry
certifications
are CCNP,***

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**CCDA, CCAI,
Companion Guide
and Network+.**

***After this
project he
plans on
attending the
University of
Alberta to
complete his
Masters Degree
in Science in
Internetworkin***

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g

Network Basics

Lab Manual

WAN

Technologies

CCNA 4

Companion

Guide

Introduction

to Networks

Companion

Guide

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Companion Guide

Manual

TOP-DOWN NET DES _c3

Introduction to Networks v6 Companion Guide

*Enterprise
Networking,
Security, and
Automation (CCNA
v7) Companion
Guide is
designed as a*

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*portable desk
reference to use
anytime,
anywhere to
reinforce the
material from
the Enterprise
Networking,
Security, and
Automation
course and
organize your
time. The book's
features help*

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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 -

Online Library

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Refer to the lists of networking vocabulary introduced and highlighted in context in each chapter.

Glossary -

Consult the comprehensive Glossary with more than 250 terms. Summary

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Networking
Basics Ccna 1
Companion Guide
Manual

*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
Understanding –
Evaluate your*

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*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*

Online Library

Networking

Basics Ccna 1

Companion Guide

Manual

*the steps you
need to learn to
perform certain
tasks.*

*Interactive
Activities -
Reinforce your
understanding of
topics with
dozens of
exercises from
the online
course
identified*

Online Library

Networking

Basics Ccna 1

Companion Guide

Manual. Packet

Tracer

Activities -

Explore and

visualize

networking

concepts using

Packet Tracer

exercises

interspersed

throughout the

chapters and

Online Library

Networking

Basics Ccna 1

*provided in the
accompanying*

Labs & Study

Guide book.

Videos - Watch

the videos

embedded within

the online

course. Hands-on

Labs - Work

through all the

course labs and

additional Class

Activities that

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Manual

are included in the course and published in the separate Labs & Study Guide.

Part of the Cisco Networking Academy Series from Cisco Press, books in this series support and complement the Cisco Networking

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Networking
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Academy
Companion Guide
Manual

*Network Basics
Companion Guide
is the official
supplemental
textbook for the
Network Basics
course in the
Cisco®
Networking
Academy® CCNA®
Routing and
Switching*

Online Library

Networking

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curriculum.

Using a top-down

OSI model

approach, the

course

introduces the

architecture,

structure,

functions,

components, and

models of the

Internet and

computer

networks. The

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Networking

Basics Ccna 1

Companion Guide

Manual
principles of IP
addressing and
fundamentals of
Ethernet

*concepts, media,
and operations
are introduced
to provide a
foundation for
the curriculum.
By the end of
the course, you
will be able to
build simple*

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Manual

LANs, perform basic configurations for routers and switches, and implement IP addressing schemes. The Companion Guide is designed as a portable desk reference to use anytime, anywhere to

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Companion Guide

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reinforce the material from the 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

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focus questions listed at the beginning of each chapter.

Key Terms—Refer to the lists of networking vocabulary introduced and highlighted in context in each chapter.

Glossary—Consult the

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*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*

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

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Companion Guide

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

Interactive Acti
vities—Reinforce
your
understanding of
topics with more
than 50
different

Online Library

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*exercises from
the online
course*

*identified
throughout the
book with this
icon.*

*Videos—Watch the
videos embedded
within the
online course.*

*Packet Tracer Ac
tivities—Explore
and visualize*

Online Library
Networking
Basics Ccna 1
networking
Companion Guide
Manual
concepts using
Packet Tracer
exercises
interspersed
throughout the
chapters. Hands-
on Labs—Work
through all 68
course labs and
Class Activities
that are
included in the
course and

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published in the
Companion Guide
Manual.

*Trust the best-
selling Official
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series from
Cisco Press to
help you learn,
prepare, and
practice for
exam success.
They are built
with the*

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objective of providing assessment, review, and practice to help ensure you are fully prepared for your certification exam. This book, combined with CCNA 200-301 Official Cert Guide, Volume 1,
Page 132/353

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covers all the exam topics on the CCNA 200-301 exam. · Master Cisco CCNA 200-301 exam topics · Assess your knowledge with chapter-opening quizzes · Review key concepts with exam preparation tasks This is

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the eBook

edition of CCNA

200-301 Official

Cert Guide,

Volume 2. This

eBook does not

include access

to the Pearson

Test Prep

practice exams

that comes with

the print

edition. CCNA

200-301 Official

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Networking
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Volume 2
Companion Guide

Manual
presents you
with an
organized test
preparation
routine through
the use of
proven series
elements and
techniques. “Do
I Know This
Already?”

quizzes open

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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

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must know

thoroughly. CCNA

200-301 Official

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enables you to

succeed on the

exam the first

time and is the

only self-study

resource

approved by

Cisco. Best-

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selling author

Wendell Odom

shares

preparation

hints and test-

taking tips,

helping you

identify areas

of weakness and

improve both

your conceptual

knowledge and

hands-on skills.

This complete

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*study package
includes . A
test-preparation
routine proven
to help you pass
the exams . Do I
Know This
Already?*

*quizzes, which
enable you to
decide how much
time you need to
spend on each
section .*

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*Chapter-ending
Key Topic
tables, which
help you drill
on key concepts
you must know
thoroughly . The
powerful Pearson
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Practice Test
software,
complete with
hundreds of well-
reviewed, exam-*

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realistic
questions,
customization
options, and
detailed
performance
reports . A free
copy of the CCNA
200-301 Network
Simulator,
Volume 2 Lite
software,
complete with
meaningful lab

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exercises that help you hone your hands-on skills with the command-line interface for routers and switches . Links to a series of hands-on config labs developed by the author .

Online interactive

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practice

exercises that

help you enhance

your knowledge .

More than 50

minutes of video

mentoring from

the author . An

online

interactive

Flash Cards

application to

help you drill

on Key Terms by

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*chapter . A
final
preparation
chapter, which
guides you
through tools
and resources to
help you craft
your review and
test-taking
strategies .
Study plan
suggestions and
templates to*

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help you
organize and
optimize your
study time Well
regarded for its
level of detail,
study plans,
assessment
features, hands-
on labs, and
challenging
review questions
and exercises,
this official

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study guide

helps you master

the concepts and

techniques that

ensure your exam

success. CCNA

200-301 Official

Cert Guide,

Volume 2,

combined with

CCNA 200-301

Official Cert

Guide, Volume 1,

walk you through

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*all the exam
topics found in
the Cisco*

200-301 exam.

*Topics covered
in Volume 2*

*include . IP
access control
lists . Security*

*services . IP
services .*

*Network
architecture .*

Network

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automation

Companion Guide

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Companion

Website: The

companion

website contains

CCNA Network

Simulator Lite

software,

practice

exercises, 50

minutes of video

training, and

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Companion Guide
Manual

*other study
resources. See
the Where Are
the Companion
Files on the
last page of
your eBook file
for instructions
on how to
access. In
addition to the
wealth of
content, this
new edition*

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includes a series of free hands-on exercises to help you master several real-world configuration activities.

These exercises can be performed on the CCNA 200-301 Network Simulator Lite,

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Volume 2
software
included for
free on the
companion
website that
accompanies this
book.

Introduction to
Networks (CCNA
v7) Companion
Guide is
designed as a
portable desk

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reference to use
Companion Guide
anytime,

Manual
anywhere to

reinforce the

material from

the Introduction

to Networks

course and

organize your

time. The book's

features help

you focus on

important

concepts to

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Companion Guide

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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

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Networking
Basics Ccna 1
vocabulary
Companion Guide
Manual

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

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*study time with
this complete
list of all
associated
practice
exercises at the
end of each
chapter. Check
Your
Understanding -
Evaluate your
readiness with
the end-of-
chapter*

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Basics Ccna 1

Companion Guide

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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

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tasks.

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Manual
Activities -

Reinforce your
understanding of
topics with
dozens of
exercises from
the online
course

identified
throughout the
book with this
icon. Videos -

Online Library

Networking

Basics Ccna 1

Watch the videos
embedded within

the online

course. Packet

Tracer

Activities -

Explore and

visualize

networking

concepts using

Packet Tracer.

There are 40

exercises

interspersed

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throughout 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

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Dummies

Network Basics

Companion Guide

CCNA 1 Labs and

Study Guide

Engineers'

Handbook of

Routing,

Page 160/353

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Basics Ccna 1
Switching, and
Security with
Companion Guide
IOS, NX-OS, and
ASA

*Scaling Networks
v6 Companion
Guide*

*Contributions by Rick
Graziani and Bob
Vachon.*

*This book "is the
official supplemental
textbook for v3.3.1.1*

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*of the CCNA 2 course
Companion Guide*

*Manual
Networking Academy*

Program. The authors

have completely

rewritten the

'Companion guide' to

provide a fresh,

complementary

perspective on the

online course content.

The book covers all the

topics in the course and

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*then goes on to provide
additional examples*

and alternative

approaches to

individual topics all to

aid the learning process

and lock in your

understanding of basic

networking concepts

and technologies." --

back cover.

Note - this version is

for instructor led

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*classroom use only. If
you are looking for the
Companion Guide
Manual*

*self study version the
ISBN for that is*

978-0-7897-5088-0.

*Cisco CCNA Routing
and Switching 200-120
Network*

*Simulator helps students
in the classroom*

*develop and improve
hands-on*

configuration and

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*troubleshooting skills
without the investment
in expensive lab*

*hardware. This state-
of-the-art, interactive
simulation software
enables you to practice
your networking skills
with almost 400
structured labs
designed to help you
learn by doing, the
most effective method*

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*of learning. Topics
covered include router
and switch navigation
and administration,*

Ethernet LAN switches,

VLANs and trunking,

Spanning Tree Protocol

(STP), IPv4 and IPv6

addressing and

subnetting, subnet

design, VLSM, route

summarization, IPv4

Access Control Lists

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*(ACL), Network
Companion Guide
Address Translation*

*(NAT), DHCP, HSRP,
Manual
GLBP, router on a stick
(ROAS), operating*

*Cisco routers, IPv4 and
IPv6 routing, OSPF
configuration and
troubleshooting,*

*EIGRP configuration
and troubleshooting,*

*Frame Relay, network
management, SNMP,*

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IOS licensing, and
Companion Guide

Manual

troubleshooting.

Experience realistic

network device

responses as you

perform each lab,

which include detailed

instructions, topology

diagrams, critical-

thinking questions,

hints, and answers.

Working through the

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labs, you will quickly become proficient with all the common Cisco IOS version 15 router and switch commands on the CCNA Routing and Switching exam. Choose from almost 400 labs organized by lab type or by topic. Track your progress with the lab status indicator, and use the

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new search feature to search for commands and keywords. Review lab objectives and step-by-step instructions within each lab, opening hints and tips sections that help you when you get stuck.

Record your observations on device performance in interactive tables. Enter

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answers to critical

thinking questions and

get instant feedback to

verify your work.

Access performance

reports in this easy-to-

navigate grade history

screen, which store all

your attempts on each

lab. View device

configuration details,

lab question

performance, time to

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complete each lab, and

CLI activity for each

device in every lab.

Export lab results to

PDF files for easy

sharing. Unlike other

simulators on the

market, the lab

scenarios included in

the Cisco CCNA

Routing and Switching

200-120 Network

Simulator are far more

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*complex, challenging
you to learn how to
perform real-world*

network configuration

and troubleshooting

tasks. Note - this

version is for

classroom use. The

ISBN for the version

for personal study is

978-0-7897-5088-0.

Objectives The purpose

of Top-Down Network

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*Design, Third Edition,
Companion Guide
Manual*

*is to help you design
networks that meet a
customer's business and
technical goals.*

*Whether your customer
is another department
within your own
company or an
external client, this
book provides you with
tested processes and
tools to help you*

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understand traffic flow, protocol behavior, and internetworking technologies. After completing this book, you will be equipped to design enterprise networks that meet a customer's requirements for functionality, capacity, performance,

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*availability, scalability,
affordability, security,
and manageability.*

*Audience This book is
for you if you are an
internetworking
professional
responsible for
designing and
maintaining medium-
to large-sized enterprise
networks. If you are a
network engineer,*

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*architect, or technician
Companion Guide
Manual*

*who has a working
knowledge of network
protocols and*

*technologies, this book
will provide you with
practical advice on*

*applying your
knowledge to*

internetwork design.

*This book also includes
useful information for
consultants, systems*

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Manual

engineers, and sales engineers who design corporate networks for clients. In the 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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Manual

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 and information technology disciplines. Students who have taken one or two courses in

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*networking theory will
find Top-Down*

Network Design, Third

Edition, an

approachable

introduction to the

engineering 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 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 bandwidth-hungry

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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 securely collaborate with coworkers, friends, and family. Networks

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*today support voice,
video, high-definition
TV, desktop sharing,*

*virtual meetings, online
training, virtual reality,*

*and applications 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*

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Companion Guide
Manual

networks, the need to teach a 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 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-Down Network Design also has updated material on the following topics:

- ¿ Network redundancy*
- ¿ Modularity in network designs*
- ¿ The*

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Cisco SAFE security

reference architecture

¿ The Rapid Spanning

Tree Protocol (RSTP) ¿

Internet Protocol

version 6 (IPv6) ¿

Ethernet scalability

options, including

10-Gbps Ethernet and

Metro Ethernet ¿

Network design and

management tools

Networking for Home

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and Small Businesses,
Companion Guide
CCNA Discovery
Manual
Learning Guide
CCNA 1 Companion
Guide
CCNA 200-301
Official Cert Guide,
Volume 1
Connecting Networks
Companion Guide
Routers and Routing
Basics

"This course

Page 187/353

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Manual

discusses the
WAN
technologies
and network
services
required by
converged
applications in
a complex
network. The
course allows
you to
understand the

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selection

Companion Guide

criteria of

Manual
network devices

and WAN

technologies to

meet network

requirements.

You will learn

how to

configure and

troubleshoot

network devices

and resolve

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Manual

common issues
with data link
protocols. You
will also
develop the
knowledge and
skills needed
to implement
IPSec and
virtual private
network (VPN)
operations in a
complex

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network."--Back
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cover.

IT Essentials

v7 Companion

Guide supports

the Cisco

Networking

Academy IT

Essentials

version 7

course. The

course is

designed for

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students who
want to pursue
careers in IT
and learn how
computers work,
how to assemble
computers, and
how to safely
and securely
troubleshoot

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hardware and
software

issues. The

features of the
Companion Guide

are designed to
help you study

and succeed in

this course: .

Chapter objecti
ves-Review core

concepts by

answering the

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focus questions
listed at the
beginning of
each chapter. .
Key terms—Refer
to the updated
lists of
networking
vocabulary
introduced, and
turn to the
highlighted
terms in

Online Library

Networking

Basics Ccna 1

context.

Companion Guide

Manual

Course section
numbering-Follo

w along with

the course

heading numbers

to easily jump

online to

complete labs,

activities, and

quizzes

referred to

within the

Online Library
Networking
Basics Ccna 1
Companion Guide
Manual

**text . • Check
Your
Understanding
Questions and
Answer
Key-Evaluate
your readiness
with the
updated end-of-
chapter
questions that
match the style
of questions**

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you see on the
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Manual
online course

quizzes. This
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Businesses CCNA

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Allan Reid •

Jim Lorenz

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Businesses,

CCNA Discovery

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version 4. The course, the first of four in the new curriculum, teaches networking concepts by applying them to a type of network you may encounter in a

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home or small office. The Learning Guide, written and edited by instructors, is designed as a portable desk reference to use anytime, anywhere to reinforce the material from

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the course and
organize your
time. In

addition, the
book includes
expanded

coverage of
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features help
you focus on
important

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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

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networking
Companion Guide

Manual

vocabulary
introduced and
highlighted in
context in each
chapter. The
Glossary

defines each
key term.

Summary of
Activities and
Labs—Maximize
your study time

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with this
complete list

of all

associated

exercises at

the end of each

chapter. Check

Your Understand

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your readiness

with the end-of-

chapter

questions that

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

Challenge

Questions and A
ctivities—Apply
a deeper
understanding

Online Library

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Companion Guide

Manual

of the concepts
with these
challenging end-
of-chapter
questions and
activities. The
answer key
explains each
answer. Hands-
on Labs-Master
the practical,
hands-on skills
of the course

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by performing
all the tasks
in the course
labs and
additional
challenge labs
included in
Part II of the
Learning Guide.
Allan Reid is
the curriculum
lead for CCNA
and a CCNA and

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**instructor at
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College CATC in

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To-Look for
this icon to
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you need to
learn to
perform certain
tasks.

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ivities-Reinfor
ce your
understanding
of topics with
more than 50

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exercises from
the online
course
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through-out the
book with this
icon. The files
for these
activities are
on the
accompanying CD-
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Tracer

Activities-

Explore and

visualize

networking

concepts using

Packet Tracer

exercises

interspersed

throughout some

chapters. The

files for these

activities are

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on the

accompanying CD-

ROM. Packet

Tracer v4.1

software

developed by

Cisco is

available

separately.

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Labs-Work

through all 26

course labs and

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3 additional challenge labs included in Part II of the book. The labs are an integral part of the CCNA Discovery curriculum, so you can review the core text and the lab material to

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prepare for all
your exams.

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instructions
within the
ebook on how to
get access to
the files from
the CD-ROM that
accompanies
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ROM includes

Interactive

Activities

Packet Tracer

Activity files

IT Career

Information

Taking Notes

Lifelong

Learning OSI

Model Overview

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or practical:
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extracted
directly, word-
for-word, from
the online
course so you
can highlight
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points and take
notes in the
"Your Chapter
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advantage of
the images
embedded within
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course
interface and
reminds you to
do the labs,
interactive

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activities,
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activities,
watch videos,
and take the
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quizzes. The
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economical,
paper-based
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help you

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emphasizes real-
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application, while

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opportunities for
you to gain the
skills needed to
successfully
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duties, and
responsibilities of
an associate-level
security analyst
working in a
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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. ·

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terms. · Summary of Activities and Labs—Maximize

your study time with this complete

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list of all associated practice exercises at the end of each chapter. • Check Your Understanding—Evaluate your readiness with the end-of-chapter questions that match the style of questions you see in the online

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course quizzes.

The answer key

explains each

answer. How

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icon to study the

steps you need to

learn to perform

certain tasks.

Interactive Activiti

es—Reinforce your

understanding of

topics with dozens

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of exercises from
the online course
identified

throughout the
book with this
icon. Packet
Tracer

Activities—Explore
and visualize
networking
concepts using
Packet Tracer.

There are

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exercises interspersed throughout the chapters and provided in the accompanying Lab Manual book.

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and complex
problem-solving
skills by
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labs and activities
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the architecture, structure, functions, components, and models of the Internet and computer networks. The principles of IP addressing and fundamentals of Ethernet concepts, media, and

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operations are introduced to provide a foundation for the curriculum. By the end of the course, you will be able to build simple LANs, perform basic configurations for routers and switches, and implement IP

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vocabulary introduced and highlighted in context in each chapter.

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with this complete
list of all

associated

practice exercises

at the end of each

chapter. Check

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g—Evaluate your

readiness with the

end-ofchapter

questions that

match the style of

questions you see

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in the online
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Manual
course quizzes.

The answer key
explains each
answer.

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Operations

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Wireless CCNA

Exploration Labs

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Allan Johnson LAN

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and Study Guide is

designed to help

you learn about and

apply your

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knowledge of the LAN switching and wireless topics from Version 4 of the Cisco® Networking Academy® CCNA® Exploration curriculum. Each chapter contains a Study Guide section and a Labs and Activities section. Study Guide The dozens of exercises

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***in this book help
you learn the
concepts and
configurations
crucial to your
success as a CCNA
exam candidate.
Each chapter is
slightly different and
includes matching,
multiple-choice, fill-
in-the-blank, and
open-ended
questions designed***

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Strength

troubleshooting

skills Boost

configuration skills

Reinforce concepts

Research topics

Packet Tracer

Activities—This icon

identifies exercises

interspersed

throughout the

Study Guide section

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where you can practice or visualize a specific task using Packet Tracer, a powerful network simulation program developed by Cisco. Labs and Activities The Labs and Activities sections begin with a Command Reference table and include all the online

curriculum labs to ensure that you have mastered the practical skills needed to succeed in this course.

Hands-On

Labs—This icon identifies the hands-on labs created for each chapter. Work through all the Basic, Challenge, and

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Troubleshooting labs as provided to gain a deep understanding of CCNA knowledge and skills to ultimately succeed on the CCNA Certification Exam. Packet Tracer Companion—This icon identifies the companion activities that correspond to

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each hands-on lab.

You use Packet

Tracer to complete a

simulation of the

hands-on lab.

Packet Tracer Skills

Integration

Challenge—Each

chapter concludes

with a culminating

activity called the

Packet Tracer Skills

Integration

Challenge. These

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challenging activities require you to pull together several skills learned from the chapter—as well as previous chapters and courses—to successfully complete one comprehensive exercise. Allan Johnson works full time developing

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**curriculum for Cisco
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Academy. Allan also

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Wireless, CCNA

Exploration

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ISBN-13:

978-158713-207-0

Companion CD-ROM

The CD-ROM

provides all the

Packet Tracer

Activity, Packet

Tracer Companion,

and Packet Tracer

Challenge files that

are referenced

throughout the book

as indicated by the

icons. These files

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***work with Packet
Tracer v4.1
software, which is
available through
the Academy***

Connection website.

***Ask your instructor
for access to the
Packet Tracer***

***software. This book
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***wide variety of
career paths rely on
the network--so it's
important to
understand what the
network can do, how
it operates, and how
to protect it. This is
a great course for
developers, data
scientists,
cybersecurity
specialists, and
other professionals***

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***looking to broaden
their networking
domain knowledge.
It's also an excellent
launching point for
students pursuing a
wide range of career
pathways--from
cybersecurity to
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development to
business and more.
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structure, functions, components, and models of the Internet and computer networks. The principles of IP addressing and fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum.

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***anytime, anywhere
to reinforce the
material from the
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 introduced and highlighted in context in each chapter.

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Summary of

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**Activities and
Labs—Maximize your**

study time with this

complete list of all

associated practice

**exercises at the end
of each chapter.**

**Check Your Underst
anding—Evaluate**

your readiness with

the end-of-chapter

questions that

match the style of

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quizzes. The answer
key explains each
answer. Related***

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certain tasks.

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your understanding

of topics with more

than 50 different

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identified

throughout the book

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videos embedded

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**course. Packet
Tracer**

**Activities—Explore
and visualize
networking
concepts using
Packet Tracer
exercises
interspersed
throughout the
chapters. Hands-on
Labs—Work through
all 66 course labs
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model approach, the

course introduces the

architecture,

structure, functions,

components, and

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*models of the
Internet and
computer networks.*

*The principles of IP
addressing and
fundamentals of
Ethernet concepts,
media, and
operations are
introduced to provide
a foundation for the
curriculum. By the
end of the course,
you will be able to*

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*build simple LANs,
perform basic
configurations for
routers and switches,
and implement IP
addressing schemes.
The Companion
Guide is designed as
a portable desk
reference to use
anytime, anywhere to
reinforce the material
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introduced and highlighted in context in each chapter.

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Summary of Activities and Labs—Maximize your study time with this complete list of all associated practice exercises at the end of each

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chapter. Check Your Understanding—Evaluate your readiness with the end-ofchapter 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

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perform certain tasks.

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icon. Videos—Watch

the videos embedded

within the online

course. Packet Tracer

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Activities—Explore and visualize networking concepts using Packet Tracer exercises

interspersed

throughout the

chapters. Hands-on

Labs—Work through

all 68 course labs and

Class Activities that

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Switching curriculum.

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help you focus on

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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 introduced and highlighted in context in each chapter. ·

Glossary—Consult

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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
Understanding—Eval
uate your readiness
with the end-*

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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 understanding*

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*of topics with dozens
of exercises from the
online course
identified throughout
the book with this
icon. · Packet Tracer
Activities—Explore
and visualize
networking concepts
using Packet Tracer
exercises
interspersed
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Activities that are

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reference for the

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in the Networking
Academy

Accessing the WAN
CCNA Exploration
Labs and Study Guide
John Rullan Accessing
the WAN, CCNA
Exploration Labs and
Study Guide is
designed to support
your learning the
technologies and
network services
required by

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converged
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applications as
taught in Version 4 of
the Cisco®
Networking
Academy® CCNA®
Exploration
curriculum. Each
chapter contains a
Study Guide section
and a Labs and
Activities section.
Study Guide The
dozens of exercises

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in this book help you learn the concepts and configurations crucial to your success as a CCNA exam candidate.

Each chapter is slightly different and includes multiple-choice, fill-in-the-blank, and open-ended questions designed to help you Review vocabulary

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Strengthen
troubleshooting skills

Boost configuration
skills Reinforce

concepts Research
topics Labs and

Activities The Labs
and Activities

sections include all
the online curriculum

labs plus some
additional activities

to ensure that you
have mastered the

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*practical skills
needed to succeed in*

this course. Hands-

On Labs-This icon

identifies the hands-

on labs created for

each chapter. Work

through all the Basic,

Challenge, and

Troubleshooting labs

to gain a deep

understanding of the

CCNA knowledge and

skills needed to

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Certification Exam.

Packet Tracer

Activities-This icon identifies exercises created by the author for you to challenge yourself on specific tasks using Packet Tracer, a powerful network simulation program developed by Cisco. Packet

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*Tracer Companion-
This icon identifies
the companion
activities that
correspond to each
hands-on lab. You'll
use the Packet Tracer
to complete a
simulation of the
hands-on lab. Packet
Tracer Skills
Integration Challenge-
Each chapter
concludes with a*

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Tracer Skills

Integration

Challenge. These challenging activities require you to combine several skills learned from the chapter-as well as previous chapters and courses-to successfully complete one

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comprehensive
exercise. John Rullan

Manual
has been a Cisco

Instructor since 1998.

He teaches CCNA,

CCNP® , and network

security courses to

students and

teachers throughout

the New York City

Department of

Education system.

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ISBN-13:

978-158713-205-6

Companion CD-ROM

The CD-ROM provides

all the Packet Tracer

Activity, Packet

Tracer Companion,

and Packet Tracer

Challenge files that

are referenced

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throughout the book as indicated by the icons. These files work with Packet Tracer software v4.1, which is available through the Academy Connection website. Ask your instructor for access to the Packet Tracer software. This book is part of the Cisco Networking Academy

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Series support and
complement the
Cisco Networking
Academy curriculum.

*Top-Down Network
Design*

*Introduction to
Networks Course
Booklet (Ccnv7)*

*Cisco Ccna Routing
and Switching*

200-120 Network

Page 301/353

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Simulator
Companion Guide
Routing and
Switching Essentials
v6 Companion Guide
LAN Switching and
Wireless

**This book is a
concise one-stop desk
reference and
synopsis of basic
knowledge and skills
for Cisco
certification prep.**

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For beginning and experienced network engineers tasked with building LAN, WAN, and data center connections, this book lays out clear directions for installing, configuring, and troubleshooting networks with Cisco devices. The full

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range of certification topics is covered, including all aspects of IOS, NX-OS, and ASA software. The emphasis throughout is on solving the real-world challenges engineers face in configuring network devices, rather than on exhaustive descriptions of

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hardware features.

This practical desk

companion doubles

as a comprehensive

overview of the basic

knowledge and skills

needed by CCENT,

CCNA, and CCNP

exam takers. It

distills a

comprehensive

library of cheat

sheets, lab

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configurations, and advanced commands that the authors assembled as senior network engineers for the benefit of junior engineers they train, mentor on the job, and prepare for Cisco certification exams. Prior familiarity with Cisco routing and

switching is desirable but not necessary, as

Chris Carthern, Dr.

Will Wilson, Noel

Rivera, and Richard

Bedwell start their

book with a review of

the basics of

configuring routers

and switches. All the

more advanced

chapters have labs

and exercises to

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**reinforce the
concepts learned.**

**This book
differentiates itself
from other Cisco
books on the market
by approaching
network security
from a hacker's
perspective. Not only
does it provide
network security
recommendations**

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**but it teaches you
how to use black-hat
tools such as**

**oclHashcat, Loki,
Burp Suite, Scapy,
Metasploit, and Kali**

**to actually test the
security concepts**

**learned. Readers of
Cisco Networks will**

**learn How to
configure Cisco
switches, routers,**

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and data center devices in typical corporate network architectures The skills and knowledge needed to pass Cisco CCENT, CCNA, and CCNP certification exams How to set up and configure at-home labs using virtual machines and lab exercises in the

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**advanced Cisco
commands How to
implement networks
of Cisco devices
supporting WAN,
LAN, and data
center configurations
How to implement
secure network
configurations and
configure the Cisco
ASA firewall How to**

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**use black-hat tools
and network
penetration**

**techniques to test the
security of your
network**

**Routing Protocols
and Concepts CCNA
Exploration**

**Companion Guide
Routing Protocols
and Concepts,**

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Companion Guide is
the official
Manual

supplemental

textbook for the

Routing Protocols

and Concepts course

in the Cisco

Networking

Academy® CCNA®

Exploration

curriculum version

4. This course

describes the

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**architecture,
components, and
operation of routers,
and explains the
principles of routing
and the primary
routing protocols.**

**The Companion
Guide, written and
edited by
Networking
Academy
instructors, is**

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designed as a portable desk reference to use anytime, anywhere. The book's features reinforce the material in the course to help you focus on important concepts and organize your study time for exams. New and improved

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features help you study and 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 updated lists of networking vocabulary

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introduced and turn to the highlighted terms in context in each chapter.

Glossary—Consult the comprehensive glossary with more than 150 terms.

Check Your Understanding questions and answer key—Evaluate your readiness with

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**the updated end-of-
chapter questions
that match the style
of questions you see
on the online course
quizzes. The answer
key explains each
answer. Challenge
questions and
activities—Strive to
ace more challenging
review questions and
activities designed to**

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prepare you for the complex styles of questions you might see on the CCNA exam. The answer key explains each answer. Rick Graziani has been a computer science and networking instructor at Cabrillo College since 1994.

Allan Johnson works

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**full time developing
curriculum for Cisco
Networking**

Academy. Allan also

is a part-time

instructor at Del

Mar College in

Corpus Christi,

Texas. How To–Look

for this icon to study

the steps you need to

learn to perform

certain tasks. Packet

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**Tracer Activities–
Explore networking
concepts in activities
interspersed
throughout some
chapters using
Packet Tracer v4.1
developed by Cisco®.
The files for these
activities are on the
accompanying CD-
ROM. Also available
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ROM **See

instructions within

Page 322/353

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**the ebook on how to
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from the CD-ROM
that accompanies
this print book.****

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provides many useful
tools and
information to
support your
education: Packet
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exercise files v4.1 A**

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booklet**

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the chapter**

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Career Information
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this is the study
guide you need!
Seven minibooks
cover all the concepts
and topics on which
you'll be tested,
covering the latest
version of the exam.**

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Each part of the exam is covered thoroughly in its own section, so you can readily find the information you want to study. Plenty of review questions help you prepare, and the companion CD-ROM includes the highly rated Dummies Test

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**Engine so you can
test your progress
with questions based
on exam content.**

**The Cisco Certified
Network Associate
(CCNA) is the entry-
level certification for
network**

**professionals Seven
minibooks in this
guide cover Secure
Device Manager,**

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**Virtual Private
Networks, IPv6, 2960**

Switches, Cisco

Network Assistant,

Advanced EIGRP

and OSPF, and

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Wireless Networks

Covers the latest

version of the exam,

including the new

voice, security and

wireless components

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added in 2008

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questions to help you

prepare Includes

more security and

troubleshooting

information CD-

ROM includes the

popular Dummies

Test Engine, an

exclusive, fully

customizable test-

prep software

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**package that features
twice as many
sample questions as
the previous version
CCNA Certification
All-In-One For
Dummies is the
preparation guide
you need to earn
your CCNA
certification. Note:
CD-ROM/DVD and
other supplementary**

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included as part of
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course in the Cisco®
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the architecture,**

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components, and operations of routers and switches in a large and complex network. You will learn how to configure routers and switches for advanced functionality. By the end of this course, you will be able to configure and

troubleshoot routers and switches and resolve common issues with OSPF, EIGRP, STP, and VTP in both IPv4 and IPv6 networks. You will also develop the knowledge and skills needed to implement DHCP and DNS operations in a network. The

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to reinforce the

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course and organize

your time. The

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you focus on

important concepts

to succeed in this

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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 introduced and highlighted in context in each

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chapter.

Glossary--Consult

the comprehensive

Glossary with over

180 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

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Manual ISBN-13:

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Interactive

**Activities--Reinforce
your understanding
of topics with all the
different exercises
from the online
course identified
throughout the book
with this icon.**

Videos--Watch the

Page 339/353

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Manual

**videos embedded
within the online
course. Packet**

Tracer

**Activities--Explore
and visualize**

**networking concepts
using Packet Tracer
exercises**

interspersed

throughout the

chapters. Hands-on

Labs--Work through

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and Class Activities
that are included in
the course and
published in the
separate Lab
Manual.**

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approach to networking. The Companion Guide, written and edited by Networking Academy instructors, is designed as a portable desk reference to use anytime, anywhere. The book's features reinforce the material in the course to help you focus on

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important concepts
and organize your
study time for exams.

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core concepts by
answering the focus
questions listed at the
beginning of each
chapter. Key

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terms—Refer to the updated lists of networking

vocabulary introduced and highlighted in context in each chapter.

Glossary—Consult the comprehensive glossary with more than 250 terms. Check Your Understanding questions and answer

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key—Evaluate your readiness with the updated end-of-chapter questions that match the style of questions you see on the online course quizzes. The answer key explains each answer. Challenge questions and activities—Strive to ace more challenging

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review questions and activities designed 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.

Packet Tracer

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Activities– Explore networking concepts in activities interspersed throughout some chapters using Packet Tracer v4.1 developed by Cisco. The files for these activities are on the accompanying CD-ROM. Also available for the Network Fundamentals Course

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accompanies this print
book.** The CD-

ROM provides many
useful tools and
information to support
your education:

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exercise files v4.1

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