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100 105  
Network  
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**Become familiar  
with ICND1  
(100-105) exam  
objectives, and learn  
how to get ready for  
the exam About This  
Book A step by step**

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**guide that will build  
you skills from basic  
concepts to  
completely  
understanding  
network  
communication  
Comprehensive  
coverage to help you  
implement the  
knowledge you've  
gained in real-world  
scenarios Take**

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**practice questions  
and mock tests to  
check how prepared  
you are for the  
CCENT exam Who  
This Book Is For If  
you are a Network  
Administrator,  
Network Technician,  
Networking  
professional, or  
would simply like to  
prepare for your**

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**CCENT  
certification, then  
this book is for you.**

**Some basic  
understanding of  
networks and how  
they work would be  
helpful. Sufficient  
information will be  
provided to those  
new to this field.**

**What You Will  
Learn Get to grips**

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with the computer  
network concepts  
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**Understand  
computer network  
components and  
learn to create a  
computer network  
Understand  
switching and learn  
how to configure a  
switch Understand  
routing and learn  
how to configure a**

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router Understand  
Simulator

**network services and  
the maintenance  
process Learn how to  
troubleshoot  
networking issues  
Become familiar  
with, and learn how  
to prepare for, the  
ICND1 100-105  
exam In Detail  
CCENT is the entry-  
level certification for**

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**those looking to venture into the networking world. This guide will help you stay up-to date with your networking skills. This book starts with the basics and will take you through everything essential to pass the certification exam. It**

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extensively covers  
IPv4 and IPv6

addressing, IP data  
networks, switching  
and routing, network  
security, and much  
more--all in some  
detail. This guide  
will provide real-  
world examples with  
a bunch of hands-on  
labs to give you  
immense expertise in



**networking tasks,  
with a practical  
approach. Each  
chapter consists of  
practice questions to  
help you take up a  
challenge from what  
you have procured.  
This book ends with  
mock tests with  
several examples to  
help you confidently**

**pass the certification.**

**This Certification Guide consists of everything you need to know in order to pass the ICND 1 100-105 Exam, thus obtaining a CCENT certification.**

**However, practicing with real switches and routers or a switch or router**

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**simulator will help  
you succeed. Style  
and approach This  
book is for everyone!  
It will help beginners  
who are taking their  
first steps into the  
world of computer  
networks. At the  
same time, this book  
can be used by  
intermediate and  
advanced network**

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**administrators to  
recap computer  
network conce ...**

**Become familiar  
with ICND1**

**(100-105) exam  
objectives, and learn  
how to get ready for  
the exam Key**

**Features A step by  
step guide that will  
build you skills from  
basic concepts to**

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completely  
understanding  
network

communication

Comprehensive

coverage to help you

implement the

knowledge you've

gained in real-world

scenarios Take

practice questions

and mock tests to

check how prepared

check how prepared

**you are for the  
CCENT exam Book  
Description CCENT  
is the entry-level  
certification for  
those looking to  
venture into the  
networking world.  
This guide will help  
you stay up-to date  
with your  
networking skills.  
This book starts with**

**the basics and will take you through everything essential to pass the certification exam. It extensively covers IPv4 and IPv6 addressing, IP data networks, switching and routing, network security, and much more—all in some detail. This guide**

**will provide real-world examples with a bunch of hands-on labs to give you immense expertise in important networking tasks, with a practical approach. Each chapter consists of practice questions to help you take up a challenge from what**



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**you have procured.  
This book ends with  
mock tests with  
several examples to  
help you confidently  
pass the certification.  
This Certification  
Guide consists of  
everything you need  
to know in order to  
pass the ICND 1  
100-105 Exam, thus  
obtaining a CCENT**

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certification.  
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**However, practicing with real switches and routers or a switch or router simulator will help you succeed. What you will learn Get to grips with the computer network concepts Understand computer network components and**

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**learn to create a  
computer network  
Understand  
switching and learn  
how to configure a  
switch Understand  
routing and learn  
how to configure a  
router Understand  
network services and  
the maintenance  
process Learn how to  
troubleshoot**

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networking issues  
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**Become familiar  
with, and learn how  
to prepare for, the  
ICND1 100-105  
exam Who this book  
is for If you are a  
Network  
Administrator,  
Network Technician,  
Networking  
professional, or  
would simply like to**

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**prepare for your  
CCENT**

**certification, then  
this book is for you.**

**Some basic  
understanding of  
networks and how  
they work would be  
helpful. Sufficient  
information will be  
provided to those  
new to this field.**

**CCNA Routing and**

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**Switching 200-125  
Official Cert Guide**

**Library, Academic  
Edition is a  
comprehensive  
textbook and study  
package that  
provides you with an  
introduction to  
foundational  
networking concepts  
and hands-on  
application. The two**

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books contained in  
this package,  
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**CCENT/CCNA  
ICND1 100-105  
Official Cert Guide,  
Academic Edition  
and CCNA Routing  
and Switching  
ICND2 200-105  
Official Cert Guide,  
Academic Edition,  
present you with a  
detailed overview of**

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network  
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**configuration and  
troubleshooting. Best-  
selling author and  
expert instructor  
Wendell Odom  
shares study hints  
and test-taking tips,  
helping you identify  
areas of weakness  
and improve both  
your conceptual  
knowledge and**



**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 need to spend on each section ·**

**Chapter-ending and part-ending exercises, which help you drill on key concepts you must know thoroughly · Troubleshooting sections, which help you master the complex scenarios you will face on the exam · The powerful Pearson IT**

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well-reviewed, exam-  
realistic questions,  
customization  
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performance reports**

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CCNA ICND1 and  
ICND2 Network  
Simulator Lite**

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**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 hands-  
on config labs  
developed by the  
author · Online  
interactive practice**

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**exercises that help  
you hone your  
knowledge · More  
than 2 hours of video  
mentoring from the  
author · A final  
preparation chapter,  
which guides you  
through tools and  
resources to help you  
craft your review  
and test-taking  
strategies · Study**

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**plan suggestions and  
templates to help you  
organize and  
optimize your study  
time Well regarded  
for its level of detail,  
study plans,  
assessment features,  
challenging review  
questions and  
exercises, video  
instruction, and  
hands-on labs, these**

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**official study guides  
help you master the  
concepts and  
techniques that  
ensure your exam  
success. These  
official study guides  
help you master all  
the topics on the  
CCNA exams,  
including ·  
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fundamentals ·**

**Implementing basic  
Ethernet LANs ·**

**Ethernet LANs:  
design, VLANs, and  
troubleshooting ·**

**IPv4 addressing and  
subnetting ·**

**Implementing IPv4 ·**

**IPv4 design and  
troubleshooting ·**

**IPv4 services: ACLs,  
NAT, and QoS · IPv4**

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· Network**

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questions, Network  
Simulator Lite**

**software, online  
practice exercises,**

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and more than 2  
hours of video  
training.

Prepare for the new  
CCNA exams with  
this Todd Lammle  
study guide Cisco  
author, speaker, and  
trainer Todd  
Lammle is  
considered the  
authority on all  
things networking,

**and his books have  
sold almost a million  
copies worldwide.**

**This all-purpose  
CCNA study guide  
methodically covers  
all the objectives of  
the ICND1 (100-101)  
and ICND2  
(200-101) exams as  
well as providing  
additional insight for  
those taking CCNA**

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**Composite (200-120) exam. It thoroughly examines operation of IP data networks, LAN switching technologies, IP addressing (IPv4/IPv6), IP routing technologies, IP services, network device security, troubleshooting, and WAN technologies.**

**Valuable study tools such as a companion test engine that includes hundreds of sample questions, a pre-assessment test, and multiple practice exams. Plus, you'll also get access to hundreds of electronic flashcards, author files, and a network simulator.**

**CCNA candidates  
may choose to take  
either the  
ICND1(100-101) and  
ICND2 (200-101)  
exams or the CCNA  
Composite exam  
(200-120); this study  
guide covers the full  
objectives of all three**  
**Written by  
bestselling Sybex  
study guide author**

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**Todd Lammle, an  
acknowledged  
authority on all  
things Cisco Covers  
essential Cisco  
networking topics  
such as operating an  
IP data network, IP  
addressing,  
switching and  
routing technologies,  
troubleshooting,  
network device**

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**security, and much more Includes a comprehensive set of study tools including practice exams, electronic flashcards, comprehensive glossary of key terms, videos, and a network simulator that can be used with the book's hands-on labs Bonus Content:**



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**Access to over 40  
MicroNugget videos  
from CBT Nuggets  
CCNA Routing and  
Switching Study  
Guide prepares you  
for CCNA  
certification success.  
CCNA Routing and  
Switching 200-125  
CCENT Cisco  
Certified Entry  
Networking**

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**Technician Study  
Guide**

**CCNA 200-301**

**Official Cert Guide,  
Volume 2**

**CCENT ICND1**

**100-105 Exam Cram**

**A Day-By-Day**

**Review Guide for the**

**ICND1/CCENT**

**(100-105), ICND2**

**(200-105), and**

**CCNA (200-125)**

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**Certification Exams**  
**CCENT/CCNA**  
**ICND1 100-105**  
**Official Cert Guide,**  
**Academic Edition**

Organizations are increasingly transitioning to IPv6, the next generation protocol for defining how devices of all

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kinds  
Simulator

communicate over networks. Now fully updated, IPv6 Fundamentals offers a thorough, friendly, and easy-to-understand introduction to the knowledge and skills you need to deploy and operate IPv6

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networks. Leading  
networking  
instructor Rick  
Graziani explains  
all the basics  
simply and clearly,  
step-by-step,  
providing all the  
details you'll need  
to succeed. You'll  
learn why IPv6 is  
necessary, how it  
was created, how

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it works, and how it has become the protocol of choice in environments ranging from cloud to mobile and IoT. Graziani thoroughly introduces IPv6 addressing, configuration options, and routing protocols,

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including EIGRP  
for IPv6, and  
OSPFv3

(traditional configuration and with address families). Building on this coverage, he then includes more in-depth information involving these protocols and

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processes. This edition contains a completely revamped discussion of deploying IPv6 in your network, including IPv6/IPv4 integration, dynamic address allocation, and understanding IPv6 from the



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perspective of the network and host. You'll also find improved coverage of key topics such as Stateless Address Autoconfiguration (SLAAC), DHCPv6, and the advantages of the solicited node multicast address.

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Throughout,  
Graziani presents  
command syntax  
for Cisco IOS,  
Windows, Linux,  
and Mac OS, as  
well as many  
examples,  
diagrams,  
configuration tips,  
and updated links  
to white papers  
and official RFCs

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for even deeper understanding. Learn how IPv6 supports modern networks encompassing the cloud, mobile, IoT, and gaming devices Compare IPv6 with IPv4 to see what has changed and what hasn't Understand

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and represent IPv6  
addresses for

unicast, multicast,  
and anycast  
environments

Master all facets of  
dynamic IPv6

address allocation  
with SLAAC,

stateless DHCPv6,  
and stateful

DHCPv6

Understand all the

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features of  
deploying IPv6  
addresses in the  
network including  
temporary  
addresses and the  
privacy extension  
Improve  
operations by  
leveraging major  
enhancements  
built into ICMPv6  
and ICMPv6

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Neighbor  
Discovery Protocol  
Configure IPv6  
addressing and  
Access Control  
Lists using a  
common topology  
Implement routing  
of IPv6 packets via  
static routing,  
EIGRP for IPv6,  
and OSPFv3 Walk  
step-by-step

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through deploying IPv6 in existing networks, and coexisting with or transitioning from IPv4

"Best-selling author, expert instructor, and double CCIE Kevin Wallace walks you through the full range of topics on

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the CCENT ICND1  
100-105 exam,  
including  
fundamentals of  
networking, LAN  
switching, IP  
routing, network  
services, and  
network  
management. This  
unique product  
contains multiple  
types of video



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Simulator  
presentations,  
including live  
instructor  
whiteboarding,  
real-world  
demonstrations,  
animations of  
network activity,  
dynamic KeyNote  
presentations,  
doodle videos, and  
hands-on router  
and switch CLI

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configuration and  
troubleshooting in  
real lab

environments,  
enabling you to  
learn both the  
concepts and the  
hands-on  
application.

CCENT ICND1  
100-105 Exam Prep  
LiveLessons  
provides more

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than 8 hours of video training detailing common exam traps, pitfalls, and difficulties on the Cisco CCENT ICND1 100-105 exam. This title is focused on giving you the tools you need to pass the exam. Features

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include  
background  
information on the  
exam, a deep dive  
into common  
mistakes and  
misunderstanding  
s people make  
when taking the  
exam, and an  
exam walkthrough  
with sample  
questions so you

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can see firsthand  
the types of  
questions you'll  
encounter in the  
testing  
facility."--Resource  
description page.  
This is the eBook  
of the printed book  
and may not  
include any media,  
website access  
codes, or print

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simulator  
supplements that  
may come

packaged with the  
bound book.

CCENT ICND1 100  
-105 Exam Cram is  
the perfect study  
guide to help you  
pass the 100-105  
ICND1 exam,  
providing  
coverage and  
practice questions

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for every exam topic. The book contains an extensive set of preparation tools, including topic overviews, exam alerts, Cram Savers, Cram Quizzes, chapter-ending review questions, author notes and tips, and

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an extensive glossary. The book also contains the extremely useful Cram Sheet tear-out: a collection of essential facts in an easy to review format.

Complementing all these great study tools is the powerful Pearson



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Test Prep practice test software, complete with hundreds of exam-realistic practice questions. This assessment software offers you a wealth of customization options and reporting features, allowing you to

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test your  
knowledge in  
study mode,  
practice exam  
mode, or flash  
card mode. Covers  
the critical  
information you'll  
need to know to  
score higher on  
your CCENT exam!  
Compare and  
contrast

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networking models

including OSI and

TCP/IP Compare

and contrast

various

networking

technologies and

architectures

Apply

troubleshooting

methodologies

Master subnetting

in IPv4 Understand

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important details  
of IPv6 Describe

and verify key  
switching topics  
Configure Layer 2  
switches,  
including Port  
Security Configure  
and verify Inter-  
VLAN routing  
Configure and  
verify routing  
Configure and

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verify key  
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infrastructure  
services including  
DNS, DHCP,  
DHCP, NTP, and  
NAT Configure and  
verify  
infrastructure  
maintenance  
Configure Cisco  
device hardening  
Troubleshoot  
networks using

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key IOS tools

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 objective of providing assessment,

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review, and practice to help ensure you are fully prepared for your certification exam. These official study guides help you master all the topics on the CCNA exams, including: \*

Networking

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fundamentals \*  
Implementing  
basic Ethernet  
LANs \* Ethernet  
LANs: design,  
VLANs, and  
troubleshooting \*  
IPv4 addressing  
and subnetting \*  
Implementing IPv4  
\* IPv4 design and  
troubleshooting \*  
IPv4 services:



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ACLs, NAT, and  
QoS \* IPv4 routing  
protocols and  
routing \* Wide area  
networks \* IPv6 \*  
Network  
management, SDN,  
and cloud  
computing CCNA  
Routing and  
Switching 200-125  
Official Cert Guide  
and Network

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is a comprehensive review and hands-on practice package for the CCNA exam. This value-priced bundle combines the best-selling CCNA study guides with a powerful network

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simulator,  
providing you with  
the tools you need  
to master all the  
exam topics and  
develop real-world  
hands-on  
configuration and  
troubleshooting  
skills. The three  
products in this  
package present  
complete reviews

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and a more  
challenging and  
realistic

preparation  
experience. In the  
books,

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Official Cert Guide  
and CCNA R&S

ICND2 200-105

Official Cert Guide,  
bestselling author

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105 Network  
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  
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 \* Chapter-

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ending and part-  
ending exercises,  
which help you  
drill on key  
concepts you must  
know thoroughly \*  
Troubleshooting  
sections, which  
help you master  
the complex  
scenarios you will  
face on the exam \*

The powerful

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Pearson Test Prep  
practice test  
software, complete  
with hundreds of  
well-reviewed,  
exam-realistic  
questions,  
customization  
options, and  
detailed  
performance  
reports \* Links to a  
series of hands-on



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config labs  
developed by the  
author \* Online,  
interactive practice  
exercises that help  
you enhance your  
knowledge \* More  
than 2 hours of  
video mentoring  
from the author \* A  
final preparation  
chapter, which  
guides you

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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 CCNA

Routing and

Switching 200-125

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105 Network Simulator  
Network Simulator software enables you to practice your networking skills with more than 400 structured labs designed to help you learn by doing, the most effective method of learning.

Experience

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realistic network  
device response

as you perform

each lab, which

include detailed

instructions,

topology

diagrams, critical-

thinking

questions, hints,

and answers.

Working through

the labs, you will

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quickly become proficient with all the common Cisco IOS version 15 router and switch commands on the CCNA exam.

Unlike other simulators on the market, the lab scenarios included in the CCNA R&S 200-125 Network

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Simulator are far more complex, challenging you to learn how to perform real-world network configuration and troubleshooting tasks. Well-regarded for its level of detail, study plans, assessment

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features,  
challenging review  
questions and  
exercises, video  
instruction, and  
hands-on labs,  
these study tools  
help you master  
the concepts and  
techniques that  
ensure your exam  
success. The book  
DVDs contain

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more than 600  
unique practice  
exam questions,  
online practice  
exercises, and  
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of video training.  
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105 Network  
Pearson Test Prep  
Simulator  
online system  
requirements:  
Browsers: Chrome  
version 40 and  
above; Firefox  
version 35 and  
above; Safari  
version 7; Internet  
Explorer 10 or 11;  
Microsoft Ed?  
Opera. Devices:  
desktop and

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### 105 Network Simulator

laptop computers,  
tablets running on  
Android and iOS,  
smartphones with  
a minimum screen  
size of 4.7".

Internet access  
required. Pearson  
Test Prep offline  
system

requirements:

Windows 10,

Windows 8.1,

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Windows 7, or  
Vista (SP2),  
Microsoft .NET  
Framework 4.5  
Client; Pentium-  
class 1 GHz  
processor (or  
equivalent); 512  
MB RAM; 650 MB  
disk space plus 50  
MB for each  
downloaded  
practice exam;

# Online Library

## Ccent Icnd1 100

105 Network Simulator  
access to the Internet to register and download exam databases. Network Simulator system

requirements:

Windows system requirements

(minimum): \*

Windows 10 (32/64-bit),

Windows 8.1

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105 Network Simulator  
(32/64-bit), or  
Windows 7

(32/64-bit) \* 1  
gigahertz (GHz) or  
faster 32-bit (x86)  
or 64-bit (x64)  
processor \* 1 GB  
RAM (32-bit) or 2  
GB RAM (64-bit) \*  
16 GB available  
hard disk space  
(32-bit) or 20 GB  
(64-bit) \* DirectX 9

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105 Network  
Simulator  
graphics device  
with WDDM 1.0 or  
higher driver \*

Adobe Acrobat  
Reader version 8  
and above Mac  
system

requirements  
(minimum): \*

macOS 10.12,  
10.11, or 10.10 \*

Intel core Duo 1.83  
GHz \* 512 MB RAM

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(1 GB  
recommended) \*  
1.5 GB hard disk  
space \* 32-bit  
color depth at  
1024x768  
resolution \* Adobe  
Acrobat Reader  
version 8 and  
above

CCNA 200-301  
Official Cert Guide  
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CCENT ICND1

Study Guide

The ultimate guide  
to passing the  
N10-007 exam

CCENT/CCNA

ICND1 Official

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A Straightforward  
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concepts and hands-on  
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and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. This complete study package includes A study routine proven to help you retain knowledge Chapter-ending summaries that provide a quick review of key topics Tons of

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review exercises,  
including memory  
tables, command  
summaries, key term  
definitions, mind  
mapping exercises,  
review questions, and  
more, which test your  
understanding and  
reinforce your  
knowledge

Troubleshooting  
sections, which help you  
master complex, real-

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by the author Online  
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enhance your  
knowledge More than  
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mentoring from the  
author A final  
preparation chapter that  
guides you through tools  
and resources to help  
you craft your review

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and test-taking  
strategies Study plan

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



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helps you master the concepts and techniques that ensure your success. This official study guide helps you master all the topics on the CCENT/CCNA ICND1 exam, including

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- Implementing basic Ethernet LANs ·
- Ethernet LANs: design, VLANs, and

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addressing and  
subnetting ·

Implementing IPv4 ·

IPv4 design and

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services: ACLs and

NAT · IPv6 · Network

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exam questions, ICND1

Network Simulator Lite

software, online practice

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Training and Network  
Simulator Software

Pearson IT Certification  
Practice Test minimum  
system requirements:

Windows 10, Windows  
8.1, Windows 7, or  
Vista (SP2), Microsoft  
.NET Framework 4.5

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Client; Pentium-class 1 GHz processor (or equivalent); 512 MB RAM; 650 MB disk space plus 50 MB for each downloaded practice exam; access to the Internet to register and download exam databases In addition to the wealth of updated content, this new edition includes a series of free hands-on exercises to

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help you master several real-world configuration and troubleshooting activities. These exercises can be performed on the CCENT/CCNA ICND1 100-105 Network Simulator Lite software included for free on the DVD or companion web page that accompanies this book. This software, which simulates the

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experience of working on actual Cisco routers and switches, contains the following 24 free lab exercises, covering all the topics in Part II, the first hands-on configuration section of the book: 1. Configuring Hostnames 2. Configuring Local Usernames 3. Configuring Switch IP Settings 4. Interface

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Settings I 5. Interface  
Settings II 6. Interface  
Settings III 7. Interface  
Status I 8. Interface  
Status II 9. Interface  
Status III 10. Interface  
Status IV 11. Setting  
Switch Passwords 12.  
Switch CLI  
Configuration Process I  
13. Switch CLI  
Configuration Process II  
14. Switch CLI Exec  
Mode 15. Switch

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Forwarding I 16. Switch  
IP Address 17. Switch  
IP Connectivity I 18.  
Switch Security I 19.  
Switch Security II 20.  
Switch Security III 21.  
Switch Security IV 22.  
Switch Security  
Configuration Scenario  
23. Switch Interfaces  
and Forwarding  
Configuration Scenario  
24. Port Security  
Troubleshooting



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Scenario If you are interested in exploring more hands-on labs and practicing configuration and troubleshooting with more router and switch commands, see the special 50% discount offer in the coupon code included in the sleeve in the back of this book. Windows system requirements (minimum): · Windows

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10 (32/64-bit), Windows  
8.1 (32/64-bit), or  
Windows 7 (32/64-bit) ·  
1 gigahertz (GHz) or  
faster 32-bit (x86) or  
64-bit (x64) processor ·  
1 GB RAM (32-bit) or 2  
GB RAM (64-bit) · 16  
GB available hard disk  
space (32-bit) or 20 GB  
(64-bit) · DirectX 9  
graphics device with  
WDDM 1.0 or higher  
driver · Adobe Acrobat

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Reader version 8 and  
above Mac system  
requirements  
(minimum) · OS X  
10.11, 10.10, 10.9, or  
10.8 · Intel core Duo  
1.83 GHz · 512 MB  
RAM (1 GB  
recommended) · 1.5 GB  
hard disk space · 32-bit  
color depth at 1024x768  
resolution · Adobe  
Acrobat Reader version  
8 and above

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Guide presents you with an organized test-preparation routine through the use of proven series elements and techniques. "Do I Know This Already?" quizzes open each chapter and enable you to decide how much time you need to spend on each section. Exam topic lists make referencing easy.

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Chapter-ending Exam  
Preparation Tasks help  
you drill on key  
concepts you must know  
thoroughly. Master  
Cisco CCENT/CCNA  
ICND1 100-105 exam  
topics Assess your  
knowledge with chapter-  
opening quizzes Review  
key concepts with exam  
preparation tasks  
Practice with realistic  
exam questions on the

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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-selling  
author and expert  
instructor Wendell  
Odom shares  
preparation hints and  
test-taking tips, helping

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you identify areas of weakness and improve both your conceptual knowledge and 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 need to spend on each section Chapter-



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ending and part-ending exercises, which help you drill on key concepts you must know thoroughly

Troubleshooting sections, which help you master the complex scenarios you will face on the exam The powerful Pearson IT Certification Practice Test software, complete with hundreds of well-

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video mentoring from  
the author A final  
preparation chapter,  
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resources to help you  
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test-taking strategies  
Study plan suggestions  
and templates to help  
you organize and  
optimize your study  
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Cisco has announced  
big changes to its  
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As of February 24,  
2020, all current  
certifications will be  
retired, and Cisco will  
begin offering new

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certification programs.

The good news is if you're working toward any current CCNA certification, keep going. You have until February 24, 2020 to complete your current CCNA. If you already have CCENT/ICND1 certification and would like to earn CCNA, you have until February 23, 2020 to complete your

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CCNA certification in the current program.

Likewise, if you're thinking of completing the current

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IP data networks,  
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technologies, IPv4 and  
IPV6 addressing,

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security, and more.

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there's still time to improve. The ICND2 is the final exam for the CCNA certification.

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sample questions and  
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an entry level routing and switching certification recognized by IT professionals world-wide. Possessing a CCENT tells potential employers you have the knowledge and ability to install, operate, and troubleshoot small enterprise and branch networks. The Cisco ICND1 100-105 exam, also known as the

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Networking Devices  
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Part 1 exam, is the test you must pass to obtain the CCENT. This course gets you ready for the ICND1 100-105 test. It covers in detail each of the five topics you will be tested on, including: Network fundamentals, LAN switching fundamentals, routing fundamentals,

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infrastructure services,  
and infrastructure  
maintenance. Take this  
course, pass the test,  
receive your CCENT,  
and get your career  
moving! Prepare  
yourself to pass the  
Cisco ICND1 100-105  
exam required for  
CCENT certification  
Learn to describe  
network fundamentals,  
build a LAN, and

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manage network  
security Become adept  
at configuring Cisco  
routers and switches  
Understand Layer 3  
routing tables and how  
to configure a routed  
network Learn about  
inter-VLANs, static  
routes, RIPv2, DNS,  
DHCP, NAT, NTP, and  
access control lists  
Discover how to  
configure, operate, and

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maintain network infrastructure Learn to verify and troubleshoot network protocols and network operations John Pickard has been training network engineers for over 16 years. He's an associate professor at East Carolina University's College of Engineering and Technology, a Cisco Certified Network



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Academy Instructor, and an SME for the Cisco Networking Academy curriculum development team. He's earned numerous networking certifications (CCNP, IPv6 Forum Certified Gold Trainer, etc.) and holds a PhD in Technology Management from Indiana State University and an MBA in

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CCENT ICND1  
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CCENT/CCNA: ICND1  
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***This book has  
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***knowing the  
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longer enough  
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minute exam  
you are now hit  
with several  
'live'; network***

**issues to either  
configure or  
troubleshoot. It  
is estimated  
that over 80% of  
exam failures  
are due to  
missing vital  
marks on the  
practical  
element which  
counts heavily**

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**towards your  
final score.**

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skill and speed  
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***through the  
CCNA and  
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Cisco engineers  
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are covered**

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Trunking-  
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RIP, EIGRP,  
EIGRP for IPv6,  
OSPF and  
OSPFv3- Router  
and switch  
security- SNMP-**

***HSRP- GRE- and  
many more You  
cover  
configuration  
and  
troubleshooting  
as well as  
important 'need  
to know'  
commands for  
the exam and  
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several bonus  
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configurations  
against ours. As  
your confidence  
quickly grows  
you will find  
your speed and  
understanding  
vastly improves  
making your  
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for your  
certification  
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Assess your***

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organized test-  
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the use of  
proven series  
elements and  
techniques. “Do  
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**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**

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**Preparation  
Tasks help you  
drill on key  
concepts you  
must know  
thoroughly.  
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succeed on the  
exam the first  
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**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  
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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***

***· Chapter-  
ending and part-  
ending***

***exercises, which  
help you drill on  
key concepts***

***you must know  
thoroughly ·***

***Troubleshooting  
sections, which***

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***help you master  
the complex  
scenarios you  
will face on the  
exam · A final  
preparation  
chapter, which  
guides you  
through tools  
and resources  
to help you craft  
your review and***

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Study plan  
suggestions and  
templates to  
help you  
organize and  
optimize your  
study time Well  
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level of detail,  
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features,  
challenging  
review  
questions and  
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hands-on labs,  
this official  
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helps you  
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**There are few IT**

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rewarding as  
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a career in  
networking,  
then you'll  
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*Status I 4. Interface*

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*Configuring Switch IP*

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*Settings 8. Switch IP  
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.  
Interface Settings II 16.  
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*17. Switch Forwarding*

*I 18. Switch Security I*

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*Volume 2 1. ACL I 2.*

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*Analysis I 8. Named  
ACL I 9. Named ACL  
II 10. Named ACL III  
11. Standard ACL  
Configuration Scenario  
12. Extended ACL I  
Configuration Scenario  
13. Extended ACL II  
Configuration Scenario  
CCNA Network  
Simulator Lite System  
Requirements:*

*Windows system*  
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*requirements*  
Simulator

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(32/64-bit), or  
Windows 7 (32/64 bit),  
1 gigahertz (GHz) or  
faster 32-bit (x86) or  
64-bit (x64) processor,  
1 GB RAM (32-bit) or  
2 GB RAM (64-bit), 16  
GB available hard disk  
space (32-bit) or 20*

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*GB (64-bit), DirectX 9  
graphics device with*

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1.83 GHz, 512 MB  
RAM (1 GB  
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Certified Entry  
Networking  
Technician exam.

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105 Network  
Simulator

Written by  
networking expert  
Todd Lammle, this  
study guide provides  
everything you need  
to pass the CCENT  
with flying colors.  
100% coverage of  
the all exam  
objectives includes  
detailed discussion  
on IP data networks,  
IPv4 and IPv6



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addressing, switching and routing, network security, and much more. Todd draws on 30 years of experience to give you practical examples and real-world insights that go way beyond exam prep, and plenty of hands-on labs help

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you gain experience with important tasks.

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questions and over  
100 flashcards  
provide quick  
review. The CCENT  
is the entry-level  
certification for those  
looking to break into  
the networking field.  
As a part of the  
CCNA certification  
process, the exam is  
comprehensive—and  
a comprehensive

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study guide is essential. This study guide helps you develop the skills and knowledge you need to be confident on exam day.

Review all CCENT exam objectives  
Access online study tools and practice ICND1 exams Get hands-on experience

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Simulator  
with dozens of labs  
Master switching

and routing,  
troubleshooting,  
security, and more

Don't bother parsing  
technical references  
or trying to figure it  
out yourself. This  
book allows you to  
learn and review with  
networking's leading  
authority, with clear

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explanations,  
practical instruction,  
and real-world  
insight. When you're  
ready for the next  
step in your career,  
the CCENT Study  
Guide, 3rd Edition  
gets you on track to  
succeed on the  
CCENT exam.

Trust the best-selling  
Official Cert Guide

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series from Cisco Press to help you learn, prepare, and practice for exam success. They are built with the objective of providing assessment, review, and practice to help ensure you are fully prepared for your certification exam.

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This book, combined with CCNA 200-301 Official Cert Guide, Volume 1, 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



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preparation tasks

This is 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 Cert  
Guide, Volume 2

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presents you with an organized test preparation routine through the use of proven series elements and techniques. “Do I Know This Already?” quizzes open each chapter and enable you to decide how much time you need to spend on each

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section. Exam topic lists make

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Chapter-ending

Exam Preparation

Tasks help you drill

on key concepts you

must know

thoroughly. CCNA

200-301 Official Cert

Guide, Volume 2

from Cisco Press

enables you to

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succeed on the exam the first time and is the only self-study resource approved by Cisco. Best-selling author Wendell Odom shares preparation hints and test-taking tips, helping you identify areas of weakness and improve both your

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conceptual  
knowledge and  
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

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need to spend on  
each section .

Chapter-ending Key  
Topic tables, which  
help you drill on key  
concepts you must  
know thoroughly .

The powerful  
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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  
exercises that help  
you hone your hands-  
on skills with the

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command-line interface for routers and switches · Links to a series of hands-on config labs developed by the author · Online interactive practice exercises that help you enhance your knowledge · More than 50 minutes of video mentoring from



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the author · An online interactive Flash Cards application to help you drill on Key Terms by chapter · A final preparation chapter, which guides you through tools and resources to help you craft your review and test-taking strategies · Study plan

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suggestions and  
templates to 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

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official 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 all the exam

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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 automation  
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Companion Website:  
The companion

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website contains  
CCNA Network  
Simulator Lite  
software, practice  
exercises, 50  
minutes of video  
training, and other  
study resources. See  
the Where Are the  
Companion Files on  
the last page of your  
eBook file for  
instructions on how

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to access. In addition to the wealth of content, this new edition 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

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the CCENT ICND1

100-105 exam,  
including  
fundamentals of  
networking, LAN  
switching, IP routing,  
network services,  
and network  
management. This  
unique product  
contains multiple  
types of video  
presentations,



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including live  
instructor

whiteboarding, real-  
world

demonstrations,  
animations of

network activity,  
dynamic KeyNote

presentations,

doodle videos, and

hands-on router and  
switch CLI

configuration and

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troubleshooting in  
real lab  
Simulator

environments,  
enabling you to learn  
both the concepts  
and the hands-on ap  
plication."--Resource  
description page.

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ICND1 OCG Aca

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100-101 Flash  
Cards and Exam  
Practice Pack  
CCNA Routing and  
Switching 200-125  
Official Cert Guide  
Library  
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Simulator is a  
single-user  
software  
package. It  
helps users  
develop and  
enhance hands-  
on

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Simulator

configuration  
and troublesho  
oting skills  
without the  
investment in  
expensive lab  
hardware. This  
state of the  
art simulation  
software  
allows users  
to practice

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their  
networking  
skills with  
250 structured  
labs designed  
to reinforce  
CCENT exam  
topics,  
including  
router and  
switch  
navigation and

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105 Network  
Simulation  
administration  
, LAN

switching, IP  
addressing,  
routing, WANs,  
VLANs and  
trunking, IP  
routing  
protocols,  
scaling IP,  
and troublesho  
oting. Users

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will  
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experience  
realistic  
network device  
response as  
they work  
through each  
of the labs  
developed by  
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author and  
expert



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instructor  
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Wendell Odom.

The software  
comes complete  
with 250  
structured  
labs,  
including  
skill building  
configuration  
exercises,  
configuration

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scenarios,  
complex troubleshoot-  
ing  
scenarios, and  
subnetting  
exercises. All  
the labs are  
developed with  
the objective  
of gaining the  
hands-on  
skills

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necessary to successfully answer the simulation and scenario-based questions on the actual CCENT exam. Each lab includes detailed instructions,

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topology  
diagrams, full  
answers and  
complete  
explanations.  
"

"Best-selling  
author, expert  
instructor,  
and double  
CCIE Kevin  
Wallace walks

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you through  
the full range  
of topics on  
the CCENT  
ICND1 100-105  
exam,  
including  
fundamentals  
of networking,  
LAN switching,  
IP routing,  
network

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multiple types  
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including live  
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real-world dem  
onstrations,  
animations of  
network  
activity,  
dynamic  
KeyNote  
presentations,  
doodle videos,  
and hands-on  
router and  
switch CLI

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configuration  
and troublesho  
oting in real  
lab  
environments,  
enabling you  
to learn both  
the concepts  
and the hands-  
on  
application.  
Best-selling



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Wallace walks

you through  
the full range

of topics on  
the CCNA

Routing and  
Switching

ICND2 200-105

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exam,  
Simulator

including LAN switching, IP routing, Wide Area Networks (WAN), network services, securing network devices, and network management.

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This unique product contains multiple types of video presentations, including live instructor whiteboarding, real-world demonstrations, animations of

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network  
activity,  
dynamic  
KeyNote  
presentations,  
doodle videos,  
and hands-on  
router and  
switch CLI  
configuration  
and troublesho  
oting in real

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lab  
Simulator

environments,  
enabling you  
to learn both  
the concepts  
and the hands-  
on application  
."--Resource  
description  
page.

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ICND1 100-105  
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100-105  
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Simulator,  
Academic  
Edition  
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hands-on  
skills  
Simulator

enhancement  
tool that  
helps students  
gain the real-  
world  
configuration  
and troublesho  
oting skills  
they need to  
succeed on the

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ICND1 exam and  
to land a job  
as a network  
engineer. The  
290+ labs in  
this product  
cover the full  
range of Cisco  
CCENT ICND1  
100-105 exam  
configuration



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These best-selling labs help bridge the gap between conceptual knowledge and real-world application by providing comp

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etency-based,  
interactive,  
online, 24x7  
training. The  
labs simulate  
real-world  
networking  
hardware that  
you configure  
and  
troubleshoot  
using the

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Cisco Command  
Line Interface  
(CLI). Working  
through the  
labs, you will  
quickly become  
proficient  
with all the  
common Cisco  
IOS version 15  
router and  
switch

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commands on  
the CCENT  
ICND1 exam.

The open  
command  
environment  
allows you to  
explore  
configurations  
beyond the lab  
steps.

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build upon the  
same great  
platform  
benefits and  
flexibility  
that have  
become  
synonymous  
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Students can

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feel safe  
working in  
this virtual  
environment  
resolving real-  
world  
networking  
problems. You  
can plan your  
studies using  
Study Planner  
and view

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detailed  
performance  
reports to  
verify your  
work.

Prepare for  
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ICND1 100-101  
exam success  
with this  
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100-101 Exam  
Cram, Second  
Edition is the  
perfect study  
guide to help  
you pass the  
Cisco ICND1



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100-101 exam,  
providing  
coverage and  
practice  
questions for  
every exam  
topic. The  
book contains  
an extensive  
set of  
preparation  
tools such as

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exam objective  
mapping; a self-assessment  
section that  
helps you  
evaluate your  
motivations  
and exam  
readiness;  
concise, easy-  
to-read exam  
topic

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overviews;  
Exam Alerts  
that highlight  
key concepts;  
bullet lists  
and summaries  
for easy  
review; Cram  
Savers, Cram  
Quizzes, and  
chapter-ending  
practice

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questions that help you assess your knowledge and test your understanding; Notes that indicate areas of concern or specialty training; Tips to help you

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build a better foundation of knowledge; and an extensive glossary of terms and acronyms. The book also contains the extremely useful Cram Sheet that

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represents a collection of the most difficult-to-remember facts and numbers you should memorize before taking the test. Covers the critical

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information  
you'll need to  
know to score  
higher on your  
Cisco CCENT  
ICND1 100-101  
exam! .

Identify the  
protocols that  
operate at  
specific OSI  
layers . Learn

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the details of  
custom

subnetting  
with IPv4 .

Understand and  
implement IPv6

· Connect,  
configure, and  
manage Cisco  
routers and  
switches · Set  
up security



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for routers  
and switches .

Create VLANs  
and set up swi  
tch-to-switch  
trunk links .

Configure,  
verify, and  
troubleshoot  
OSPFv2 and  
OSPFv3 .

Anticipate the

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actions a  
router will  
take .  
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Understand and  
use CDP for  
neighbor  
discovery .  
Learn the  
detailed  
learning and  
forwarding  
process of

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both routers and switches .

Filter traffic from one network to another with access control lists (ACLs) .  
Deploy Network Address Translation (NAT) and IOS

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router DHCP  
services .  
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Troubleshoot  
many types of  
network  
problems Mike  
Valentine has  
been in the IT  
field for 16  
years,  
focusing on  
network design

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and implementa  
tion. He is a

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Certified  
Systems  
Instructor  
(#31461) and  
specializes in  
Cisco Unified  
Communications  
instruction as  
well as CCNA

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and CCNP  
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courses. His  
accessible,  
humorous, and  
effective  
teaching style  
has  
demystified  
Cisco for  
hundreds of  
students since  
he began

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teaching in  
2002. Keith  
Barker, CCIE  
No. 6783 R/S &  
Security, is a  
27-year  
veteran of the  
networking  
industry. He  
currently  
works at CBT  
Nuggets. His

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past  
experience  
includes EDS,  
Blue Cross,  
Paramount  
Pictures, and  
KnowledgeNET,  
and he has  
delivered CCIE-  
level training  
for several  
years.



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IPv6  
Simulator  
Fundamentals

CCNA Routing  
and Switching  
200-125  
Official Cert  
Guide and  
Network  
Simulator  
Library  
Ccent/Ccna

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100-105 Icnd1  
Simulator  
Course Notes

Exam 100-105,  
Exam 200-105,  
Exam 200-125  
Learn computer  
network  
essentials and  
enhance your  
networking  
skills by  
obtaining the

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CCENT  
Simulator

certification

Here are all the  
CCNA-level Routing  
and Switching  
commands you need  
in one condensed,  
portable resource.

The CCNA Routing  
and Switching  
Portable Command  
Guide, Third Edition,

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is filled with valuable, easy-to-access information and is portable enough for use whether you ' re in the server room or the equipment closet. The guide summarizes all CCNA certification-level Cisco IOS® Software commands,

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keywords, command arguments, and associated prompts, providing you with tips and examples of how to apply the commands to real-world scenarios.

Configuration examples throughout the book provide you with a better

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understanding of how these commands are used in simple network designs. This book has been completely updated to cover topics in the ICND1 100-101, ICND2 200-101, and CCNA 200-120 exams. Use this quick reference resource to

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help you memorize  
commands and  
concepts as you work  
to pass the CCNA  
Routing and  
Switching  
certification exam.

The book is  
organized into these  
parts: • Part I  
TCP/IP v4 • Part II  
Introduction to Cisco

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Devices • Part III  
Configuring a Router  
• Part IV Routing  
• Part V Switching  
• Part VI Layer 3  
Redundancy • Part  
VII IPv6 • Part VIII  
Network  
Administration and  
Troubleshooting •  
Part IX Managing IP  
Services • Part X



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WANs • Part XI

Network Security

Quick, offline access  
to all CCNA Routing  
and Switching  
commands for  
research and  
solutions Logical how-  
to topic groupings for  
a one-stop resource  
Great for review  
before CCNA

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Routing and  
Switching

certification exams

Compact size makes  
it easy to carry with  
you, wherever you go

“ Create Your Own  
Journal ” section  
with blank, lined  
pages allows you to  
personalize the book  
for your needs

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“ What Do You  
Want to Do? ” chart  
inside back cover  
helps you to quickly  
reference specific  
tasks

800x600 Trust the  
best-selling Official  
Cert Guide series  
from Cisco Press to  
help you learn,  
prepare, and practice

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for exam success.

They are built with the objective of providing assessment, review, and practice to help ensure you are fully prepared for your certification exam.

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Academic Edition is a comprehensive textbook and study package that provides you with an introduction to foundational networking concepts and hands-on application. Best-selling author and expert instructor

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Wendell Odom  
shares study hints and  
test-taking tips,  
helping you identify  
areas of weakness and  
improve both your  
conceptual  
knowledge and hands-  
on skills. This  
complete study  
package includes A  
study routine proven

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to help you retain  
knowledge Chapter-  
ending summaries  
that provide a quick  
review of key topics  
Tons of review  
exercises, including  
memory tables,  
command  
summaries, key term  
definitions, mind  
mapping exercises,

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review questions, and more, which test your understanding and reinforce your knowledge

Troubleshooting sections, which help you master complex, real-world scenarios

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reviewed, exam-  
realistic questions,  
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options, linking of all

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Lite software,  
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exercises that help  
you hone your hands-

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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 practice  
exercises that help  
you enhance your  
knowledge More  
than 90 minutes of

Online Library  
Ccent Icnd1 100  
105 Network  
Simulator

video mentoring  
from the author A  
final preparation  
chapter that 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

Online Library  
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optimize your study  
time Well regarded  
for its 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

Online Library  
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Simulator

concepts and  
techniques that  
ensure your success.

This official study  
guide helps you  
master all the topics  
on the

**CCENT/CCNA  
ICND1 exam,**  
including .

**Networking  
fundamentals .**

Online Library

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Implementing basic  
Ethernet LANs .

Ethernet LANs:  
design, VLANs, and  
troubleshooting .

IPv4 addressing and  
subnetting .

Implementing IPv4 .

IPv4 design and  
troubleshooting .

IPv4 services: ACLs  
and NAT . IPv6 .

Online Library  
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105 Network Simulator  
Network device management The  
DVD contains more than 500 unique practice exam questions, ICND1 Network Simulator Lite software, online practice exercises, and 90 minutes of video training.  
Includes Exclusive



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105 Network  
Simulator  
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and Network

Simulator Software

Pearson IT

Certification Practice

Test minimum

system requirements:

Windows 10,

Windows 8.1,

Windows 7, or Vista

(SP2), Microsoft

Online Library  
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105 Network  
Simulator  
.NET Framework 4.5  
Client; Pentium-class  
1 GHz processor (or  
equivalent); 512 MB  
RAM; 650 MB disk  
space plus 50 MB for  
each downloaded  
practice exam; access  
to the Internet to  
register and  
download exam  
databases In addition

# Online Library Ccent Icnd1 100

105 Network Simulator  
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 activities. These exercises can be performed on the

Online Library  
Ccent Icnd1 100

105 Network  
Simulator  
CCENT/CCNA  
ICND1 100-105

Network Simulator

Lite software

included for free on  
the DVD or

companion web page  
that accompanies this  
book. This software,  
which simulates the  
experience of  
working on actual

Online Library  
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Simulator

Cisco routers and switches, contains the following 24 free lab exercises, covering all the topics in Part II, the first hands-on configuration section of the book: 1.

Configuring

Hostnames 2.

Configuring Local

Username 3.

Online Library

Ccent Icnd1 100

105 Network

Simulator  
Configuring Switch  
IP Settings 4.

Interface Settings I 5.

Interface Settings II 6.

Interface Settings III

7. Interface Status I 8.

Interface Status II 9.

Interface Status III 10.

Interface Status IV 11.

Setting Switch

Passwords 12. Switch

CLI Configuration

Online Library  
Ccent Icnd1 100

105 Network Simulator  
Process I 13. Switch  
CLI Configuration  
Process II 14. Switch  
CLI Exec Mode 15.  
Switch Forwarding I  
16. Switch IP Address  
17. Switch IP  
Connectivity I 18.  
Switch Security I 19.  
Switch Security II 20.  
Switch Security III 21.  
Switch Security IV

Online Library  
Ccent Icnd1 100  
105 Network  
22. Switch Security  
Configuration  
Simulator

Scenario 23. Switch  
Interfaces and  
Forwarding  
Configuration  
Scenario 24. Port  
Security  
Troubleshooting  
Scenario If you are  
interested in  
exploring more



Online Library  
Ccent Icnd1 100

105 Network  
Simulator  
hands-on labs and  
practicing  
configuration and  
troubleshooting with  
more router and  
switch commands,  
see the special 50%  
discount offer in the  
coupon code  
included in the sleeve  
in the back of this  
book. Windows

Online Library  
Ccent Icnd1 100  
105 Network  
Simulator  
system requirements  
(minimum): .  
Windows 10  
(32/64-bit),  
Windows 8.1  
(32/64-bit), or  
Windows 7  
(32/64-bit) . 1  
gigahertz (GHz) or  
faster 32-bit (x86) or  
64-bit (x64)  
processor . 1 GB

Online Library  
Ccent Icnd1 100

105 Network Simulator  
RAM (32-bit) or 2 GB RAM (64-bit) .  
16 GB available hard disk space (32-bit) or 20 GB (64-bit) .  
DirectX 9 graphics device with WDDM 1.0 or higher driver .  
Adobe Acrobat Reader version 8 and above  
Mac system requirements

Online Library  
Ccent Icnd1 100

105 Network Simulator  
(minimum) . OS X  
10.11, 10.10, 10.9, or  
10.8 . Intel core Duo  
1.83 GHz . 512 MB  
RAM (1 GB  
recommended) . 1.5  
GB hard disk space .  
32-bit color depth at  
1024x768 resolution .  
Adobe Acrobat  
Reader version 8 and  
above Normal 0 false

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105 Network Simulator  
false false EN-US X-  
NONE X-NONE Mi  
crosoftInternetExplor  
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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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Ccent Icnd1 100

105 Network Simulator  
objective of providing  
assessment, review,  
and practice to help  
ensure you are fully  
prepared for your  
certification exam.

CCENT/CCNA

ICND1 100-105

Official Cert Guide  
presents you with an  
organized test-  
preparation routine

Online Library  
Ccent Icnd1 100  
105 Network  
Simulator

through the use of proven series elements and techniques. "Do I Know This Already?" quizzes open each chapter and enable you to decide how much time you need to spend on each section. Exam topic lists make referencing

# Online Library

## Ccent Icnd1 100

105 Network Simulator  
easy. Chapter-ending  
Exam Preparation

Tasks help you drill  
on key concepts you  
must know

thoroughly. The

### CCENT ICND1

### 100-105 Network

Simulator is a single-  
user software

package. It helps

users develop and



Online Library  
Ccent Icnd1 100  
105 Network  
Simulator

enhance hands-on configuration and troubleshooting skills without the investment in expensive lab hardware. This state of the art simulation software allows users to practice their networking skills with 250 structured labs

# Online Library

## Ccent Icnd1 100

105 Network Simulator  
designed to reinforce CCENT exam topics, including router and switch navigation and administration, LAN switching, IP addressing, routing, WANs, VLANs and trunking, IP routing protocols, scaling IP, and troubleshooting. An official, self-paced

# Online Library

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105 Network Simulator

test exam covers the objectives of the new CCNA INTRO exam in a modular format and provides customizable test banks, score and history reporting, review questions, scenario-based exercises, and network simulation

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Ccent Icnd1 100  
105 Network  
Simulator

software on the  
companion CD-  
ROM. Original.  
(Intermediate)

CCENT ICND1  
100-101 Exam Cram  
Cisco Networking  
Essentials  
CCENT ICND1  
100-105  
CCNA ICND2 Study  
Guide

Online Library  
Ccent Icnd1 100  
105 Network  
Exam 100-105, Exam  
200-105, and Exam  
200-125  
ICND1 100-105  
Certification Guide

Ccent Icnd1  
100-105  
Network  
Simulator,  
Pearson  
Ucertify  
Academic

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Ccent Icnd1 100  
105. Network  
Edition  
Simulator  
Student Access  
CardPearson It  
Certification  
Fully aligned  
with the  
latest  
versions of  
the exams,  
this book  
contains 1500  
questions

# Online Library Ccent Icnd1 100

105. Network  
Simulator  
tailored to  
the exam

domains and  
helps you  
focus your  
study time and  
remove  
uncertainties  
so you can  
face the exam  
with  
confidence. --

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105 Network  
Simulator

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



# Online Library Ccent Icnd1 100

## 105. Network Simulator

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

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Ccent Icnd1 100  
105 Network  
200-301 exam  
Simulator

topics .

Assess your  
knowledge with  
chapter-  
opening  
quizzes .

Review key  
concepts with  
exam  
preparation  
tasks .

Online Library  
Ccent Icnd1 100

105 Network  
Simulator

Practice with  
realistic exam  
questions in  
the practice  
test software  
This is the  
eBook edition  
of the CCNA  
200-301

Official Cert  
Guide, Volume  
1. This eBook,

Online Library  
Ccent Icnd1 100  
105 Network  
Simulator  
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

Online Library  
Ccent Icnd1 100  
105 Network  
practice exams  
that comes

with the print  
edition. CCNA  
200-301  
Official Cert  
Guide , Volume  
1 presents you  
with an  
organized test-  
preparation  
routine using

Online Library  
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105 Network  
Simulator

proven series  
elements and  
techniques.

“Do I Know  
This Already?”  
quizzes open  
each chapter  
and enable you  
to decide how  
much time you  
need to spend  
on each

# Online Library

## Ccent Icnd1 100

105 Network  
Simulator

section. Exam

topic lists

make

referencing

easy. Chapter-

ending Exam

Preparation

Tasks help you

drill on key

concepts you

must know

thoroughly.

Online Library  
Ccent Icnd1 100

105 Network  
Simulator  
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  
approved by



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Cisco. Best-  
selling author  
and expert  
instructor  
Wendell Odom  
shares  
preparation  
hints and test-  
taking tips,  
helping you  
identify areas  
of weakness

# Online Library Ccent Icnd1 100

105 Network  
and improve  
Simulator  
both your

conceptual  
knowledge and  
hands-on  
skills. This  
complete study  
package  
includes . A t  
est-  
preparation  
routine proven

# Online Library

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105 Network  
to help you  
pass the exams  
Simulator

· Do I Know  
This Already?  
quizzes, which  
enable you to  
decide how  
much time you  
need to spend  
on each  
section .

Chapter-ending

Online Library  
Ccent Icnd1 100

105 Network  
and part-  
Simulator  
ending

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

Online Library  
Ccent Icnd1 100  
105 Network  
complete with  
hundreds of  
well-reviewed,  
exam-realistic  
questions,  
customization  
options, and  
detailed  
performance  
reports . A  
free copy of  
the CCNA

Online Library  
Ccent Icnd1 100  
105 Network  
200-301 Volume  
1 Network  
Simulator Lite  
software,  
complete with  
meaningful lab  
exercises that  
help you hone  
your hands-on  
skills with  
the command-  
line interface

Online Library  
Ccent Icnd1 100  
105 Network  
Simulator

for routers  
and switches .

Links to a  
series of  
hands-on  
config labs  
developed by  
the author .

Online,  
interactive  
practice  
exercises that

# Online Library

## Ccent Icnd1 100

### 105 Network Simulator

help you hone  
your knowledge

· More than 90  
minutes of  
video

mentoring from  
the author · A  
final

preparation  
chapter, which  
guides you  
through tools



Online Library  
Ccent Icnd1 100  
105 Network  
and resources  
to help you  
craft your  
review and  
test-taking  
strategies .  
Study plan  
suggestions  
and templates  
to help you  
organize and  
optimize your

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Ccent Icnd1 100  
105 Network  
Simulator

study time  
Well regarded  
for its level  
of detail,  
study plans,  
assessment  
features,  
challenging  
review  
questions and  
exercises,  
video

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105 Network  
Simulator  
instruction,  
and hands-on

labs, this  
official study  
guide helps  
you master the  
concepts and  
techniques  
that ensure  
your exam  
success. The  
CCNA 200-301

Online Library  
Ccent Icnd1 100  
105 Network  
Official Cert  
Simulator  
Guide, Volume  
1, combined  
with CCNA  
200-301  
Official Cert  
Guide, Volume  
2, walk you  
through all  
the exam  
topics found  
in the Cisco

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Ccent Icnd1 100  
105 Network  
200-301 exam.  
Simulator

Topics covered  
in Volume 1

include: .

Networking

fundamentals .

Implementing

Ethernet LANs

. Implementing

VLANs and STP

. IPv4

addressing .

# Online Library

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105 Network  
Simulator

IPv4 routing .

OSPF · IPv6 .

Wireless LANs

Companion

Website: The

companion

website

contains the

CCNA Network

Simulator Lite

software,

online

Online Library  
Ccent Icnd1 100  
105 Network  
practice  
Simulator

exercises,  
study  
resources, and  
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video  
training. In  
addition to  
the wealth of  
updated  
content, this  
new edition

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### 105 Network Simulator

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



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105 Network  
exercises can  
be performed  
on the CCNA  
200-301  
Network  
Simulator  
Lite, Volume 1  
software  
included for  
free on the  
companion  
website that

Online Library  
Ccent Icnd1 100  
105 Network  
Simulator

accompanies  
this book.

This software,  
which

simulates the  
experience of  
working on  
actual Cisco  
routers and  
switches,

contains the  
following 21

Online Library  
Ccent Icnd1 100  
105 Network  
free lab  
Simulator

exercises,  
covering  
topics in Part  
II and Part  
III, the first  
hands-on  
configuration  
sections of  
the book: 1.  
Configuring  
Local

Online Library  
Ccent Icnd1 100

105 Network  
Simulator

    Usernames 2.  
    Configuring  
    Hostnames 3.  
    Interface  
    Status I 4.  
    Interface  
    Status II 5.  
    Interface  
    Status III 6.  
    Interface  
    Status IV 7.  
    Configuring

# Online Library

## Ccent Icnd1 100

### 105. Network Simulator

Switch IP  
Settings 8.

Switch IP  
Address 9.

Switch IP  
Connectivity I

10. Switch CLI  
Configuration

Process I 11.

Switch CLI  
Configuration

Process II 12.

# Online Library

## Ccent Icnd1 100

### 105. Network Switch CLI Simulator

Exec Mode 13.

Setting Switch

Passwords 14.

Interface

Settings I 15.

Interface

Settings II

16. Interface

Settings III

17. Switch

Forwarding I

Online Library  
Ccent Icnd1 100  
105 Network  
Simulator

18. Switch

Security I 19.

Switch

Interfaces and

Forwarding

Configuration

Scenario 20.

Configuring

VLANs

Configuration

Scenario 21.

VLAN Troublesh

Online Library  
Ccent Icnd1 100  
105 Network  
Routing Pearson  
Simulator  
Test Prep

online system  
requirements:

Browsers:

Chrome version  
73 and above;

Safari version  
12 and above;

Microsoft Edge  
44 and above

Devices:



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105 Network  
Desktop and  
Simulator  
laptop

computers,  
tablets  
running on  
Android v8.0  
and iOS v13,  
smartphones  
with a minimum  
screen size of  
4.7". Internet  
access

Online Library  
Ccent Icnd1 100  
105 Network  
required  
Simulator

Pearson Test

Prep offline  
system

requirements:

Windows 10,

Windows 8.1;

Microsoft .NET

Framework 4.5

Client;

Pentium-class

1 GHz

Online Library  
Ccent Icnd1 100

105 Network  
Simulator  
processor (or  
equivalent);

512 MB RAM;

650 MB disk

space plus 50

MB for each

downloaded

practice exam;

access to the

Internet to

register and

download exam

Online Library  
Ccent Icnd1 100  
105 Network  
databases  
Simulator

An engaging  
approach for  
anyone  
beginning a  
career in  
networking As  
the world  
leader of  
networking  
products and  
services,

Online Library  
Ccent Icnd1 100  
105 Network  
Cisco products  
Simulator  
are constantly  
growing in  
demand. Yet,  
few books are  
aimed at those  
who are  
beginning a  
career in  
IT--until now.  
Cisco  
Networking

Online Library  
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105 Network  
Essentials  
Simulator

provides a  
solid  
foundation on  
the Cisco  
networking  
products and  
services with  
thorough  
coverage of  
fundamental  
networking

Online Library  
Ccent Icnd1 100  
105 Network  
concepts.  
Simulator

Author Troy  
McMillan

applies his  
years of  
classroom  
instruction to  
effectively  
present high-  
level topics  
in easy-to-  
understand

Online Library  
Ccent Icnd1 100  
105 Network  
terms for  
Simulator  
beginners.

With this  
indispensable  
full-color  
resource,  
you'll quickly  
learn the  
concepts,  
processes, and  
skills that  
are essential



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## Ccent Icnd1 100

105 Network  
to administer  
Cisco routers  
and switches.

Begins with a  
clear

breakdown of  
what you can  
expect to

learn in each  
chapter,

followed by a  
straightforwar

Chapter 10: Configuring  
Cisco Routers for  
IPv6

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Simulator

d discussion  
of concepts on  
core topics  
Includes  
suggested labs  
and review  
questions at  
the conclusion  
of each  
chapter, which  
encourage you  
to reinforce

# Online Library Ccent Icnd1 100

105 Network  
and measure  
Simulator  
your

understanding  
of the topics  
discussed  
Serves as an  
ideal starting  
point for  
learning Cisco  
networking  
products and  
services If

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105 Network  
you are  
Simulator

interested in  
a career in IT  
but have  
little or no  
knowledge of  
networking and  
are new to  
Cisco  
networking  
products, then  
this book is

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105 Network  
for you.  
Simulator

CCNA Routing  
and Switching  
(ICND1  
100-105, ICND2  
200-105, and  
CCNA 200-125) .  
Exam 100-105  
(ICND1 Exam  
640-822)  
Ccent Icnd1  
100-105

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Network  
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Cisco has announced big changes to its certification program. As of February 24, 2020, all current certifications will be retired, and Cisco will begin offering new certification

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programs. The good news is if you're working toward any current CCNA certification, keep going. You have until February 24, 2020 to complete your current CCNA. This means if you already have CCENT/ICND1

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105. Network  
Simulator

certification and  
would like to earn  
CCNA, you have  
until February 23,  
2020 to complete  
your CCNA  
certification in the  
current program.  
Likewise, if you're  
thinking of  
completing the  
current



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CCENT/ICND1,  
ICND2, or CCNA

Routing and  
Switching

certification, you can  
still complete them  
between now and  
February 23, 2020.

Tight, focused  
CCNA review  
covering all three  
exams The CCNA

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Routing and  
Switching Complete  
Review Guide offers  
clear, concise review  
for Exams 100-105,  
200-105, and  
200-125. Written by  
best-selling  
certification author  
and Cisco guru Todd  
Lammle, this guide  
is your ideal

Online Library  
Ccent Icnd1 100  
105 Network  
resource for quick  
review and

reinforcement of key  
topic areas. This  
second edition has  
been updated to  
align with the latest  
versions of the  
exams, and works  
alongside the Sybex  
CCNA Routing and  
Switching Complete

Online Library  
Ccent Icnd1 100

105 Network  
Simulator  
Study Guide, 2nd  
Edition. Coverage

includes LAN  
switching  
technologies, IP  
routing, IP services,  
IPv4 and IPv6  
addressing, network  
device security,  
WAN technologies,  
and troubleshooting—  
providing 100%

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105 Network  
Simulator

coverage of all objectives for the CCNA ICND1, ICND2, and Composite exams. The Sybex online learning environment gives you access to additional study tools, including practice exams and

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flashcards to give  
you additional  
review before exam  
day. Prepare  
thoroughly for the  
ICND1, ICND2, and  
the CCNA  
Composite exams  
Master all objective  
domains, mapped  
directly to the exams  
Clarify complex

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105 Network Simulator  
topics with guidance  
from the leading  
Cisco expert Access  
practice exams,  
electronic flashcards,  
and more Each  
chapter focuses on a  
specific exam  
domain, so you can  
read from beginning  
to end or just skip  
what you know and

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get right to the information you need. This Review Guide is designed to work hand-in-hand with any learning tool, or use it as a stand-alone review to gauge your level of understanding. The CCNA Routing and Switching



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Complete Review  
Guide, 2nd Edition  
gives you the  
confidence you need  
to succeed on exam  
day.

&>CCENT/CCNA  
ICND1 100-101  
Official Cert Guide,  
Academic Edition is  
a comprehensive  
textbook and study

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105 Network  
package for a  
Simulator  
beginner-level

networking course.

This book has been  
completely revised  
to align to Cisco's  
new CCENT

100-101 ICND1

exam. Material is  
presented in a

concise manner,

focusing on

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increasing student's retention and recall of exam topics. The book is printed in four color, allowing students to benefit from carefully crafted figures that utilize color to convey concepts. Students will organize their study

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Simulator

through the use of  
the consistent

features in these  
chapters, including:

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

theory and concepts,  
and with linking the  
theory to the  
meaning of the  
configuration  
commands. • Key  
Topics — Inside the  
Foundation Topics  
sections, every  
figure, table, or list  
that should  
absolutely be

understood and remembered for the exam is noted with the words “Key Topic” in the margin. This tool allows the reader to quickly review the most important details in each chapter. • Chapter-ending Summaries —

These bulleted lists provide a quick and concise review of the key topics covered in each chapter. • Chapter-ending Review Questions — Each chapter provides a set of multiple choice questions that help student's test

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

Chapter-ending  
Exercises — Each  
chapter concludes  
with a series of  
exercises designed to  
help students  
increase their



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retention of the  
chapter content

including key term reviews, key topic tables, command review exercises, and memory table exercises. • Part

Reviews — This new edition includes a new part review feature that helps

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students consolidate their knowledge of concepts presented across multiple chapters. A new mind mapping exercise helps students build strong mental maps of concepts. A new exam bank of part review questions

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helps students test themselves with scenario-based questions that span multiple topics. In addition to these powerful chapter learning, review, and practice features, this book also contains several other features that

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make it a truly  
effective and

comprehensive study  
package, including:

- A Getting Started chapter at the beginning of the book offer terrific advice for how to use the book features and build an effective study plan.

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- The DVD contains over 90 minutes of video mentoring from the author on challenging topics such as CLI navigation, router configuration, switch basics, VLANs, and subnetting.
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software, providing students with the opportunity to practice their hands-on command line interface skills with Cisco routers and switches. The 13 labs included for

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product cover a  
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practice questions. •

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Chapter helps students review for final exams and prepare to take the official Cisco CCNA exams, if they want to achieve that certification. • A Study Plan Template is included on the DVD to help

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students organize  
their study time. The  
1 hour 14 minute  
presentation found at  
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