

## Network Fundamentals, CCNA Exploration Companion Guide

Mark A. Dye • Rick McDonald • Antoon W. Ruff

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*Network Fundamentals, CCNA Exploration Companion Guide* Mark Dye, Richard McDonald, Antoon Rufi, 2007-10-29

Network Fundamentals CCNA Exploration Companion Guide is the official supplemental textbook for the Network Fundamentals course in the Cisco Networking Academy CCNA Exploration curriculum version 4. The course, the first of four in the new curriculum, is based on a top-down approach to networking. The Companion Guide, written and edited by Networking Academy instructors, is designed as a portable desk reference to use anytime anywhere. The book's features reinforce the material in the course to help you focus on important concepts and organize your study time for exams. New and improved features help you study and succeed in this course:

- Chapter objectives: Review core concepts by answering the focus questions listed at the beginning of each chapter.
- Key terms: Refer to the updated lists of networking vocabulary introduced and highlighted in context in each chapter.
- Glossary: Consult the comprehensive glossary with more than 250 terms.
- Check Your Understanding questions and answer key: Evaluate your readiness with the updated end-of-chapter questions that match the style of questions you see on the online course quizzes. The answer key explains each answer.
- Challenge questions and activities: Strive to ace more challenging review questions and activities designed to prepare you for the complex styles of questions you might see on the CCNA exam. The answer key explains each answer.
- How To: Look for this icon to study the steps you need to learn to perform certain tasks.
- Packet Tracer Activities: Explore networking concepts in activities interspersed throughout some chapters using Packet Tracer v4.1 developed by Cisco. The files for these activities are on the accompanying CD-ROM.

Also available for the Network Fundamentals Course: Network Fundamentals CCNA Exploration Labs and Study Guide ISBN 10 1 58713 203 6 ISBN 13 978 1 58713 203 2 Companion CD-ROM. See instructions within the ebook on how to get access to the files from the CD-ROM that accompanies this print book. The CD-ROM provides many useful tools and information to support your education: Packet Tracer Activity exercise files v4.1, VLSM Subnetting Chart, Structured Cabling Exploration Supplement, Taking Notes (a .txt file of the chapter objectives), A Guide to Using a Networker's Journal, booklet, IT Career Information, Tips on Lifelong Learning in Networking. This book is part of the Cisco Networking Academy Series from Cisco Press. The products in this series support and complement the Cisco Networking Academy online curriculum.

**Network Fundamentals. Ccna Exploration Companion Guide. Per Gli Ist. Tecnici E Professionali. Con CD-ROM** Mark A. Dye, Rick McDonald, Antoon W. Rufi, 2007-10-01. The all new and only authorized textbook for the new Cisco Networking Academy Program CCNA Exploration Network Fundamentals curriculum.

**Network Fundamentals** Mark A. Dye, The course, the first of four in the new curriculum, is based on a top-down approach to networking. The Companion Guide, written and edited by Networking Academy instructors, is designed as a portable desk reference to use anytime anywhere. The book's features reinforce the material in the course to help you focus on important concepts and organize your study time for exams. Page 4 of cover

**Network Fundamentals** Antoon W. Rufi, 2008. Network

Fundamentals is a complete collection of the exercises specifically written for the CCNA Exploration course in the Cisco Networking Academy Program. The book is designed to give students practice exercises and hands-on labs to study the course concepts in depth. IT Essentials Cisco Networking Academy, 2010-10-13 IT Essentials PC Hardware and Software Companion Guide Fourth Edition supports the Cisco Networking Academy IT Essentials PC Hardware and Software version 4.1 course. The course provides an introduction to computer components, laptops and portable devices, wireless connectivity, security and safety, environmental concerns, and diagnostic tools. As a CompTIA Authorized Quality Curriculum, the course helps you prepare for the CompTIA A certification. The fundamentals part of the course covered in Chapters 1-10 helps you prepare for the CompTIA A Essentials exam 220 701. You learn the fundamentals of computer technology, networking, and security, and validate the communication skills and professionalism required of all entry-level IT professionals. The advanced part of the course covered in Chapters 11-16 helps you prepare for the CompTIA A Practical Application exam 220 702, providing more of a hands-on orientation and scenarios in which troubleshooting and tools must be applied to resolve problems. Students must pass both exams to earn the CompTIA A certification. The features of the Companion Guide are designed to help you study and succeed in this course: n Chapter objectives: Review core concepts by answering the focus questions listed at the beginning of each chapter. n Key terms: Refer to the updated lists of networking vocabulary introduced and turn to the highlighted terms in context. n Check Your Understanding Questions and Answer Key: Evaluate your readiness with the updated end-of-chapter questions that match the style of questions you see on the online course quizzes. Virtual Desktop, Virtual Laptop, and Packet Tracer Activities on the CD that accompanies this book are virtual learning tools to help you develop critical thinking and complex problem-solving skills. New for this edition, Cisco Packet Tracer simulation-based learning activities promote the exploration of networking and network security concepts and allow you to experiment with network behavior. All the Labs Worksheets and Class Discussion Exercises from the course are available in the separate book IT Essentials PC Hardware and Software Lab Manual Fourth Edition. More than 120 activities emphasize the practical application of skills and procedures needed for hardware and software installations, upgrades, and troubleshooting systems. IT Essentials PC Hardware and Software Lab Manual Fourth Edition ISBN 10 1 58713 262 1 ISBN 13 978 1 58713 262 9. Related Title: IT Essentials PC Hardware and Software Course Booklet Version 4.1 ISBN 10 1 58713 261 3 ISBN 13 978 1 58713 261 2. Companion CD-ROM: The CD-ROM contains all of the Virtual Desktop Activities, Virtual Laptop Activities, and Packet Tracer Activities referenced throughout the book. Designed and developed by the Cisco Networking Academy, these standalone tools supplement classroom learning by providing hands-on experience where real equipment is limited. Note: the Packet Tracer software is not included with this CD. Ask your instructor for access to Packet Tracer. Routing Protocols Companion Guide Cisco Networking Academy, 2014-02-03. Routing Protocols Companion Guide is the official supplemental textbook for the Routing Protocols course in the Cisco Networking Academy CCNA Routing and Switching curriculum. This

course describes the architecture components and operations of routers and explains the principles of routing and routing protocols You learn how to configure a router for basic and advanced functionality By the end of this course you will be able to configure and troubleshoot routers and resolve common issues with RIPv1 RIPv2 EIGRP and OSPF in both IPv4 and IPv6 networks The Companion Guide is designed as a portable desk reference to use anytime anywhere to reinforce the material from the course and organize your time The book s features help you focus on important concepts to succeed in this course Chapter objectives Review core concepts by answering the focus questions listed at the beginning of each chapter Key terms Refer to the lists of networking vocabulary introduced and highlighted in context in each chapter Glossary Consult the comprehensive Glossary with more than 150 terms Summary of Activities and Labs Maximize your study time with this complete list of all associated practice exercises at the end of each chapter Check Your Understanding Evaluate your readiness with the end of chapter questions that match the style of questions you see in the online course quizzes The answer key explains each answer How To Look for this icon to study the steps you need to learn to perform certain tasks Interactive Activities Reinforce your understanding of topics by doing all the exercises from the online course identified throughout the book with this icon Videos Watch the videos embedded within the online course Packet Tracer Activities Explore and visualize networking concepts using Packet Tracer exercises interspersed throughout the chapters Hands on Labs Work through all the course labs and Class Activities that are included in the course and published in the separate Lab Manual

The British National Bibliography Arthur James Wells,2009      **Accessing the WAN** John Rullan,2008 The completely revised and only authorized Labs and Study Guide for the Cisco Networking Academy CCNA Accessing the WAN course A portable classroom resource that supports the topics in the CCNA Accessing the WAN curriculum aligning 1 1 with course modules Includes all the labs in the online curriculum as well as additional instructor created challenge labs and exercises for extended learning and classroom exercises Accessing the WAN CCNA Exploration Labs and Study Guide is a complete collection of the lab exercises specifically written for the CCNA Accessing the WAN course from the Cisco Networking Academy designed to give students hands on experience in a particular concept or technology Each lab contains an introductory overview a preparation tools required section explanations of commands and step by step instructions to reinforce the concepts introduced in the online course and covered in the Companion Guide Also included are challenge labs written by Academy instructors tested in their classrooms will be included as additional or alternative labs The Study Guide section is designed to provide additional exercises and activities to reinforce students understanding of the course topics preparing them for the course assessments As a study guide it also continues to provide ample writing opportunities to guide students into the habit of keeping notes on networking topics      *Routing Protocols and Concepts, CCNA Exploration Companion Guide* Rick Graziani,Allan Johnson,2007-12-06 Routing Protocols and Concepts CCNA Exploration Companion Guide Routing Protocols and Concepts CCNA Exploration Companion Guide is the official supplemental textbook for the

Routing Protocols and Concepts course in the Cisco Networking Academy CCNA Exploration curriculum version 4 This course describes the architecture components and operation of routers and explains the principles of routing and the primary routing protocols The Companion Guide written and edited by Networking Academy instructors is designed as a portable desk reference to use anytime anywhere The book s features reinforce the material in the course to help you focus on important concepts and organize your study time for exams New and improved features help you study and succeed in this course Chapter objectives Review core concepts by answering the focus questions listed at the beginning of each chapter Key terms Refer to the updated lists of networking vocabulary introduced and turn to the highlighted terms in context in each chapter Glossary Consult the comprehensive glossary with more than 150 terms Check Your Understanding questions and answer key Evaluate your readiness with the updated end of chapter questions that match the style of questions you see on the online course quizzes The answer key explains each answer Challenge questions and activities Strive to ace more challenging review questions and activities designed to prepare you for the complex styles of questions you might see on the CCNA exam The answer key explains each answer Rick Graziani has been a computer science and networking instructor at Cabrillo College since 1994 Allan Johnson works full time developing curriculum for Cisco Networking Academy Allan also is a part time instructor at Del Mar College in Corpus Christi Texas How To Look for this icon to study the steps you need to learn to perform certain tasks Packet Tracer Activities Explore networking concepts in activities interspersed throughout some chapters using Packet Tracer v4 1 developed by Cisco The files for these activities are on the accompanying CD ROM Also available for the Routing Protocols and Concepts Course Routing Protocols and Concepts CCNA Exploration Labs and Study Guide ISBN 10 1 58713 204 4 ISBN 13 978 1 58713 204 9 Companion CD ROM See instructions within the ebook on how to get access to the files from the CD ROM that accompanies this print book The CD ROM provides many useful tools and information to support your education Packet Tracer Activity exercise files v4 1 A Guide to Using a Networker s Journal booklet Taking Notes a txt file of the chapter objectives More IT Career Information Tips on Lifelong Learning in Networking This book is part of the Cisco Networking Academy Series from Cisco Press The products in this series support and complement the Cisco Networking Academy online curriculum

**LAN Switching and Wireless** Wayne Lewis, 2012 LAN Switching and Wireless CCNA Exploration Companion Guide is the official supplemental textbook for the LAN Switching and Wireless course in the Cisco Networking Academy CCNA Exploration curriculum version 4 This course provides a comprehensive approach to learning the technologies and protocols needed to design and implement a converged switched network The Companion Guide written and edited by a Networking Academy instructor is designed as a portable desk reference to use anytime anywhere The book s features reinforce the material in the course to help you focus on important concepts and organize your study time for exams New and improved features help you study and succeed in this course Chapter objectives Review core concepts by answering the questions listed at the beginning of each chapter Key terms Refer

to the updated lists of networking vocabulary introduced and turn to the highlighted terms in context in each chapter  
Glossary Consult the all new comprehensive glossary with more than 190 terms Check Your Understanding questions and answer key Evaluate your readiness with the updated end of chapter questions that match the style of questions you see on the online course quizzes The answer key explains each answer Challenge questions and activities Strive to ace more challenging review questions and activities designed to prepare you for the complex styles of questions you might see on the CCNA exam The answer key explains each answer Wayne Lewis is the Cisco Academy Manager for the Pacific Center for Advanced Technology Training PCATT based at Honolulu Community College How To Look for this icon to study the steps that you need to learn to perform certain tasks Packet Tracer Activities Explore networking concepts in activities interspersed throughout some chapters using Packet Tracer v4.1 developed by Cisco The files for these activities are on the accompanying CD ROM Also available for the LAN Switching and Wireless course LAN Switching and Wireless CCNA Exploration Labs and Study Guide ISBN 13 9781 58713 202 5 Companion CD ROM The CD ROM provides many useful tools and information to support your education Packet Tracer Activity exercise files A Guide to Using a Networker's Journal booklet Taking Notes A txt file of the chapter objectives More IT Career Information Tips on Lifelong Learning in Networking

**Accessing the WAN, CCNA Exploration Companion Guide** Bob Vachon, Rick Graziani, 2008-04-28 Accessing the WAN CCNA Exploration Companion Guide Bob Vachon Rick Graziani Accessing the WAN CCNA Exploration Companion Guide is the official supplemental textbook for the Accessing the WAN course in the Cisco Networking Academy CCNA Exploration curriculum version 4 This course discusses the WAN technologies and network services required by converged applications in enterprise networks The Companion Guide written and edited by Networking Academy instructors is designed as a portable desk reference to use anytime anywhere The book's features reinforce the material in the course to help you focus on important concepts and organize your study time for exams New and improved features help you study and succeed in this course Chapter objectives Review core concepts by answering the focus questions listed at the beginning of each chapter Key terms Refer to the updated lists of networking vocabulary introduced and turn to the highlighted terms in context in each chapter Glossary Consult the all new comprehensive glossary with more than 250 terms Check Your Understanding questions and answer key Evaluate your readiness with the updated end of chapter questions that match the style of questions you see on the online course quizzes The answer key explains each answer Challenge questions and activities Strive to ace more challenging review questions and activities designed to prepare you for the complex styles of questions you might see on the CCNA exam The answer key explains each answer Bob Vachon is the coordinator of the Computer Systems Technology program and teaches networking infrastructure courses at Cambrian College in Sudbury Ontario Canada Bob has worked and taught in the computer networking and information technology field for 25 years and is a scholar graduate of Cambrian College Rick Graziani teaches computer science and computer networking courses at Cabrillo

College in Aptos California Rick has worked and taught in the computer networking and information technology field for 30 years

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

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

**Accessing the WAN CCNA Exploration Labs and Study Guide** ISBN 10 1 58713 201 X ISBN 13 978 1 58713 201 8 Companion CD ROM. See instructions within the ebook on how to get access to the files from the CD ROM that accompanies this print book. The CD ROM provides many useful tools and information to support your education.

**Packet Tracer Activity exercise files**

**A Guide to Using a Networker's Journal** booklet

**Taking Notes** A txt file of the chapter objectives

**More IT Career Information**

**Tips on Lifelong Learning in Networking**

This book is part of the Cisco Networking Academy Series from Cisco Press. The products in this series support and complement the Cisco Networking Academy online curriculum.

*Network Basics Companion Guide* Cisco Networking Academy, 2013-10-28

*Network Basics Companion Guide* is the official supplemental textbook for the Network Basics course in the Cisco Networking Academy CCNA Routing and Switching curriculum. Using a top down OSI model approach, the course introduces the architecture, structure, functions, components, and models of the Internet and computer networks. The principles of IP addressing and fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum. By the end of the course, you will be able to build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes. The Companion Guide is designed as a portable desk reference to use anytime anywhere to reinforce the material from the course and organize your time. The book's features help you focus on important concepts to succeed in this course:

- Chapter Objectives** Review core concepts by answering the focus questions listed at the beginning of each chapter.
- Key Terms** Refer to the lists of networking vocabulary introduced and highlighted in context in each chapter.
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- Summary of Activities and Labs** Maximize your study time with this complete list of all associated practice exercises at the end of each chapter.
- Check Your Understanding** Evaluate your readiness with the end of chapter questions that match the style of questions you see in the online course quizzes. The answer key explains each answer.
- How To Look for this icon to study the steps you need to learn to perform certain tasks**

**Interactive Activities** Reinforce your understanding of topics with more than 50 different exercises from the online course identified throughout the book with this icon.

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

**Packet Tracer Activities** Explore and visualize networking concepts using Packet Tracer exercises interspersed throughout the chapters.

**Hands on Labs** Work through all 68 course labs and Class Activities that are included in the course and published in the separate Lab Manual.

**CCNA Exploration Course Booklet** Cisco Networking Academy, 2010. The Cisco CCNA Exploration curriculum provides a comprehensive overview of networking from fundamentals to advanced applications and services. This course emphasizes theoretical concepts and



practical application giving students hands on skills for designing installing operating and maintaining real world networks Networking Fundamentals is the first course in the CCNA Exploration curriculum While extensive online study resources and comprehensive textbooks are available many students and instructors have requested a low cost printed resource that can be used to study in places where Internet access may not be available This booklet is that resource Drawn directly from the online curriculum it covers every skill and competency This booklet enables students to study offline highlight key points and take handwritten notes All topics are correlated directly to online web pages helping students easily switch between offline and online content Gives CCNA Exploration students an inexpensive study resource that can be read wherever Internet access isn't available Handy printed format lets students easily highlight and make notes Page correlations link directly to the online curriculum Covers the latest version of CCNA Exploration Networking Fundamentals the first course in the CCNA Exploration curriculum CCNA Exploration Course Booklet, 2010 **Introduction to Networks v6 Companion Guide** Cisco Networking Academy, 2016-12-10 This is the eBook of the printed book and may not include any media website access codes or print supplements that may come packaged with the bound book Introduction to Networks Companion Guide v6 is the official supplemental textbook for the Introduction to Networks course in the Cisco Networking Academy CCNA Routing and Switching curriculum The course introduces the architecture structure functions components and models of the Internet and computer networks The principles of IP addressing and fundamentals of Ethernet concepts media and operations are introduced to provide a foundation for the curriculum By the end of the course you will be able to build simple LANs perform basic configurations for routers and switches and implement IP addressing schemes The Companion Guide is designed as a portable desk reference to use anytime anywhere to reinforce the material from the course and organize your time The book's features help you focus on important concepts to succeed in this course Chapter Objectives Review core concepts by answering the focus questions listed at the beginning of each chapter Key Terms Refer to the lists of networking vocabulary introduced and highlighted in context in each chapter Glossary Consult the comprehensive Glossary with more than 250 terms Summary of Activities and Labs Maximize your study time with this complete list of all associated practice exercises at the end of each chapter Check Your Understanding Evaluate your readiness with the end of chapter questions that match the style of questions you see in the online course quizzes The answer key explains each answer **Routers and Routing Basics** Wendell Odom, Rick McDonald, 2006 CD ROM includes additional topics of interest interactive media activities and Packet Tracer v3.2 *CCNA Cybersecurity Operations Companion Guide* Allan Johnson, Cisco Networking Academy, 2018-06-17 CCNA Cybersecurity Operations Companion Guide is the official supplemental textbook for the Cisco Networking Academy CCNA Cybersecurity Operations course The course emphasizes real world practical application while providing opportunities for you to gain the skills needed to successfully handle the tasks duties and responsibilities of an associate level security analyst working in a security operations center SOC The Companion Guide is designed as a portable

desk reference to use anytime anywhere to reinforce the material from the course and organize your time The book s features help you focus on important concepts to succeed in this course Chapter Objectives Review core concepts by answering the focus questions listed at the beginning of each chapter Key Terms Refer to the lists of networking vocabulary introduced and highlighted in context in each chapter Glossary Consult the comprehensive Glossary with more than 360 terms Summary of Activities and Labs Maximize your study time with this complete list of all associated practice exercises at the end of each chapter Check Your Understanding Evaluate your readiness with the end of chapter questions that match the style of questions you see in the online course quizzes The answer key explains each answer How To Look for this icon to study the steps you need to learn to perform certain tasks Interactive Activities Reinforce your understanding of topics with dozens of exercises from the online course identified throughout the book with this icon Packet Tracer Activities Explore and visualize networking concepts using Packet Tracer There are exercises interspersed throughout the chapters and provided in the accompanying Lab Manual book Videos Watch the videos embedded within the online course Hands on Labs Develop critical thinking and complex problem solving skills by completing the labs and activities included in the course and published in the separate Lab Manual

**Routing Protocols and Concepts** Allan Johnson, 2008-01 The completely revised and only authorized Labs and Study Guide for the Cisco Networking Academy Program CCNA 2 Exploration curriculum

*LAN Switching and Wireless* Allan Johnson, 2008 LAN Switching and Wireless CCNA Exploration Labs and Study Guide Allan Johnson LAN Switching and Wireless CCNA Exploration Labs and Study Guide is designed to help you learn about and apply your knowledge of the LAN switching and wireless topics from Version 4 of the Cisco Networking Academy CCNA Exploration curriculum Each chapter contains a Study Guide section and a Labs and Activities section Study Guide The dozens of exercises in this book help you learn the concepts and configurations crucial to your success as a CCNA exam candidate Each chapter is slightly different and includes matching multiple choice fill in the blank and open ended questions designed to help you Review vocabulary Strengthen troubleshooting skills Boost configuration skills Reinforce concepts Research topics Packet Tracer Activities This icon identifies exercises interspersed throughout the Study Guide section where you can practice or visualize a specific task using Packet Tracer a powerful network simulation program developed by Cisco Labs and Activities The Labs and Activities sections begin with a Command Reference table and include all the online curriculum labs to ensure that you have mastered the practical skills needed to succeed in this course Hands On Labs This icon identifies the hands on labs created for each chapter Work through all the Basic Challenge and Troubleshooting labs as provided to gain a deep understanding of CCNA knowledge and skills to ultimately succeed on the CCNA Certification Exam Packet Tracer Companion This icon identifies the companion activities that correspond to each hands on lab You use Packet Tracer to complete a simulation of the hands on lab Packet Tracer Skills Integration Challenge Each chapter concludes with a culminating activity called the Packet Tracer Skills Integration Challenge These challenging activities require you to pull

together several skills learned from the chapter as well as previous chapters and courses to successfully complete one comprehensive exercise Allan Johnson works full time developing curriculum for Cisco Networking Academy Allan also is a part time instructor at Del Mar College in Corpus Christi Texas Use this book with LAN Switching and Wireless CCNA Exploration Companion Guide ISBN 10 1 58713 207 9 ISBN 13 978 158713 207 0 Companion CD ROM The CD ROM provides all the Packet Tracer Activity Packet Tracer Companion and Packet Tracer Challenge files that are referenced throughout the book as indicated by the icons These files work with Packet Tracer v4 1 software which is available through the Academy Connection website Ask your instructor for access to the Packet Tracer software This book is part of the Cisco Networking Academy Series from Cisco Press Books in this series support and complement the Cisco Networking Academy curriculum

Connecting Networks Companion Guide Cisco Networking Academy, 2014-04-02 Connecting Networks Companion Guide is the official supplemental textbook for the Connecting Networks course in the Cisco Networking Academy CCNA Routing and Switching curriculum This course discusses the WAN technologies and network services required by converged applications in a complex network The course allows you to understand the selection criteria of network devices and WAN technologies to meet network requirements You will learn how to configure and troubleshoot network devices and resolve common issues with data link protocols You will also develop the knowledge and skills needed to implement IPSec and virtual private network VPN operations in a complex network The Companion Guide is designed as a portable desk reference to use anytime anywhere to reinforce the material from the course and organize your time The book's features help you focus on important concepts to succeed in this course Chapter objectives Review core concepts by answering the focus questions listed at the beginning of each chapter Key terms Refer to the lists of networking vocabulary introduced and highlighted in context in each chapter Glossary Consult the comprehensive Glossary with 195 terms Summary of Activities and Labs Maximize your study time with this complete list of all associated practice exercises at the end of each chapter Check Your Understanding Evaluate your readiness with the end of chapter questions that match the style of questions you see in the online course quizzes The answer key explains each answer How To Look for this icon to study the steps you need to learn to perform certain tasks Interactive Activities Reinforce your understanding of topics with all the different exercises from the online course identified throughout the book with this icon Videos Watch the videos embedded within the online course Packet Tracer Activities Explore and visualize networking concepts using Packet Tracer exercises interspersed throughout the chapters Hands on Labs Work through all the course labs and Class Activities that are included in the course and published in the separate Lab Manual

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### **Network Fundamentals Ccna Exploration Companion Guide Teacher Introduction**

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