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Networking centers on the IP packet forwarding process and how to make Cisco routers perform IP routing The book begins with two units that review and expand your knowledge of prerequisite topics including all layers of the TCP IP model with emphasis on LANs WANs IP and TCP Units 3 through 8 take you to a much deeper and practical knowledge of IP addressing and routing two topics that truly need to be understood together These same lessons examine how to implement various IP features in Cisco routers building skills that matter in the real world Finally the last two units focus on LAN and WAN technologies and their roles in how routers and hosts use LANs and WANs to forward IP packets IP Networking takes you from a broad and basic knowledge of IP addressing and routing to a solid skill level with how hosts switches and routers collectively deliver IP packets in modern corporate networks helping prepare you for a variety of entry level network administration and support positions such as network administrator network technician network specialist information technology specialist and local area network LAN or wide area network WAN administrator After reading this book you will have gained the skills required to set up and maintain network transport services with appropriate address schema and desired protocols You will master the basic skills needed to handle the hardware and IOS features of Cisco routers and switches and perform network administration tasks using such components Coverage includes The TCP IP and OSI networking models LAN and WAN fundamentals Fundamentals of IP addressing and routing Fundamentals of TCP IP transport applications and security IP subnetting VLSM and route summarization Cisco router operation and configuration IP routing static and connected routes RIPv2 EIGRP and OSPF concepts and configuration IP version 6 Ethernet LANs and virtual LANs Point to point WANs and Frame Relay Network troubleshooting pearsonITcertification com www certskills com

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computer networks This Computer Networking book is designed for everyone who is willing to learn about all of the great stuff the Internet has to offer You ll learn all the basics stuff you need to know about computer networking from this book You ll become extremely familiar with terms like UTP Ethernet MAC IP TCP UDP etc It doesn't matter if you are in charge of a small or a large network at home or at an office you will learn how to set everything up and how to keep it working It's the guide to computer networking for every beginner This book is made out of 8 chapters that will teach you step by step how to be successful at computer networking Here's what it will teach you among other things What networks are and how they are functioning What you need to set up a network What is Ethernet and how a MAC address works How to configure an IP address on Windows 7 to 10 Everything about IP addresses and ports TCP or UDP Different network applications Cisco IOS and CLI Get this book NOW and you will not only discover new things you didn't know about computer networking you will also get the chance to practice correctly the setting up and the maintenance of a network Tags Computer Networking Networking Computer Networks Cisco Networking OSI Model Computer Networks

Computer Networking Jason Callaway, 2021-10-08 If you are a student or a professional looking for more tech knowledge and skills or if you are simply curious about the fascinating world of computer networking and its powerful applications in our everyday life then this is the book for you Revised and expanded edition In Computer Networking Jason Callaway has condensed everything you need to pass your next exam or take a professional certification in a simple and clear way starting from the basics you will learn both the theoretical and the practical elements of networking even if you are a complete beginner His intuitive yet rigorous approach will speed up your learning allowing you to master the key fundamentals of wireless technologies and network systems and providing powerful insights on cybersecurity as well as all of the most dangerous hacking techniques that could exploit your entire IT infrastructure in a millisecond Here is a tiny fraction of what you will find A complete explanation of the different network systems and their components The OSI reference model Computer Network Communication systems and their applications Internet Ethernet and wireless technology How a router works The precise definition of IP address with step by step instructions to configure it All the secrets to the little known process of IP subnetting How to configure a VLAN An introduction to Cisco System and the CCNA certification Computer networks vulnerabilities and the basics of cybersecurity How to use Kali Linux for hacking and penetration testing Different types of hacking attacks How to crack any computer and any network system accessing all the data you want Becoming a professional networking engineer is now easier than ever As you can easily understand unlike all the other guides on the same topic that give you just the basics to get started here the author has left nothing out Even if you need time and practice to be considered an expert reading this powerful 2 book collection will give you a broad picture of the networking ecosystem and you will have an essential resource for your entire professional career If you are ready to start the fascinating journey to discover this world then click the BUY button and get your copy Computer Networking for Beginners Ramon

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with network fundamentals and technology When the first computers were built during the Second World War they were expensive and isolated However after about twenty years as their prices gradually decreased the first experiments began to connect computers together At the time sharing them over a long distance was an interesting idea Computers and the Internet have changed this world and our lifestyle forever We just need to touch a small button and within a fraction of a second we can make a call send a file or video message The major factor that lies behind this advanced technology is none other than computer network That's why it's important to know how it works Networking for Beginners covers the following topics Networking Basics This chapter considers the needs of a real beginner in computer networking and covers the following crucial topics definition of computer networking types of computer networks network topologies and network architecture Network Hardware A comprehensive discussion on different network components that include routers hubs switches etc Network Cabling This chapter discusses the different cabling standards include coaxial fiber optic cable and twisted pair copper cable Wireless Networking Fundamental technicalities of wireless technology that is of great significance to the entire computer networking discipline This chapter offers important information on how to enjoy the benefits of Wi Fi technology and how to set up and configure a computer for wireless connectivity IP Addressing This chapter pays great attention to the basics of IP addressing and the different number systems binary decimal and hexadecimal IP Subnetting Introduction to concepts of subnetting Network Protocols Various protocols of the TCP IP suite Internet Essentials Different terminologies regarding the Internet the worldwide web and history of the Internet Virtualization in cloud computing Concept of virtualization its relevance in computer networking and an examination of cloud services Network Troubleshooting This chapter considers troubleshooting as a top management function NETWORKING FOR BEGINNERS is an easy to read book for anyone hungry for computer networking knowledge The language used is simple and even the very technical terms that pop from time to time have been explained in a way that is easy to understand Computer **Networking for Beginners** Jason Callaway, 2020-03-06 If you are a student or a professional looking for more tech knowledge and skills or if you are simply curious about the fascinating world of computer networking and its powerful applications in our everyday life then this is the book for you In Computer Networking for Beginners Jason Callaway has condensed all the knowledge you need to pass your next exam or take a professional certification in a simple and clear way starting from the basics you will learn both the theoretical and the practical elements of networking becoming proficient with network technology regardless of your previous experience Learning how computers connect is not necessarily intended only for professionals Wireless technology is all around us when we surf the web use social networks or chat with friends and colleagues we instantaneously send millions of information from one device to another Anyone should be more aware of how this world works especially in order to understand and avoid the potential negative impacts on our work and our privacy of the several security issues that could unexpectedly come out Here is a tiny fraction of what you will find A complete

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