By James Long Storage Networking Protocol Fundamentals

From The Beatles' patronage of his 1968 debut album to his Grammy awards for Hourglass, James Taylor has remained a universally acclaimed songwriter of effortless eloquence and power. In this major biography, the late Timothy White explores the myths and reality behind the personal journey of legendary singer. White examines the roots of Taylor's anguish, and his recurring problems with heroin and alcohol. There is an epic family history, an exploration of the stories behind Fire And Rain, and a frank account of the artist's time spent at Apple Records and Warner Brothers. With contributions from Paul McCartney, Carly Simon, Sting, the Taylor family and many other key figures, this edition is destined to become the definitive biography of the troubled hero. There is also an epilogue concerning the memorial concerts arranged by Taylor for the late author White, as well as an extensive discography and bibliography.

“Hollywood Eden brings the lost humanity of the record business vividly back to life ... [Selvin’s] style is blunt, unpretentious and brisk; he knows how to move things along entertainingly ... Songs about surfboards and convertibles had turned quaint, but in this book, their coolness is restored.” — New York Times From surf music to hot-rod records to the sunny pop of the Beach Boys, Jan & Dean, the Byrds, and the Mama’s & the Papa’s, Hollywood Eden captures the fresh blossom of a young generation who came together in the epic spring of the 1960s to invent the myth of the California Paradise. Central to the story is a group of sun-kissed teens from the University High School class of 1959 — a class that included Jan & Dean, Nancy Sinatra, and future members of the Beach Boys — who came of age in Los Angeles at the dawn of a new golden era when anything seemed possible. These were the people who invented the idea of modern California for the rest of the world. But their own private struggles belied the paradise portrayed in their music. What began as a light-hearted frolic under sunny skies ended up crashing down to earth just a few short but action-packed years later as, one by one, each met their destinies head-on. A rock ’n’ roll opera loaded with violence, deceit, intrigue, low comedy, and high drama, Hollywood Eden tells the story of a group of young artists and musicians who bumped heads, crashed cars, and ultimately flew too close to the sun.

Overview: Building on the successful top-down approach of previous editions, the Sixth Edition of Computer Networking continues with an early emphasis on application-layer paradigms and application programming interfaces, encouraging a hands-on experience with protocols and networking concepts. With this edition, Kurose and Ross have revised and modernized treatment of some key chapters to integrate the most current and relevant networking technologies. Networking today involves much more than standards specifying message formats and protocol behaviors-and it is far more interesting. Professors Kurose and Ross focus on describing emerging principles in a lively and engaging manner and then illustrate these principles with examples drawn from Internet architecture.

Assuming no previous experience of the subject, this user-friendly, step-by-step guide will enable readers to gain an understanding of wireless networking basics.

"This book is a message from autistic people to their parents, friends, teachers, coworkers and doctors showing what life is like on the spectrum. It's also my love letter to autistic people. For too long, we have been forced to navigate a world where all the road signs are written in another language." With a reporter's eye and an insider's perspective, Eric Garcia shows what it's like to be autistic across America. Garcia began writing about autism because he was frustrated by the media's coverage of it; the myths that the disorder is caused by vaccines, the narrow portrayals of autistic people as white men working in Silicon Valley. His own life as an autistic person didn't look anything like that. He is Latino, a graduate of the University of North Carolina, and works as a journalist covering politics in Washington D.C. Garcia realized he needed to put into writing what so many autistic people have been saying for years; autism is a part of their identity, they don't need to be fixed. In We're Not Broken, Garcia uses his own life as a springboard to discuss the social and policy gaps that exist in supporting those on the spectrum. From education to healthcare, he explores how autistic people wrestle with systems that were not built with them in mind. At the same time, he shares the experiences of all types of autistic people, from those with higher support needs, to autistic people of color, to those in the LGBTQ community. In doing so, Garcia gives his community a platform to articulate their own needs, rather than having others speak for them, which has been the standard for far too long.

World-renowned economist Klaus Schwab, Founder and Executive Chairman of the World Economic Forum, explains that we have an opportunity to shape the fourth industrial revolution, which will fundamentally alter how we live and work. Schwab argues that this revolution is different in scale, scope and complexity from any that have come before. Characterized by a range of new technologies that are fusing the physical, digital and biological worlds, the developments are affecting all disciplines, economies, industries and governments, and even challenging ideas about what it means to be human. Artificial intelligence is already all around us, from supercomputers, drones and virtual assistants to 3D printing, DNA sequencing, smart thermostats, wearable sensors and microchips smaller than a grain of sand. But this is just the beginning: nanomaterials 200 times stronger than steel and a million times thinner than a strand of hair and the first transplant of a 3D printed liver are already in development. Imagine "smart factories" in which global systems of manufacturing are coordinated virtually, or implantable mobile phones made of biosynthetic materials. The fourth industrial revolution, says Schwab, is more significant, and its ramifications more profound, than in any prior period of human history. He outlines the key technologies driving this revolution and discusses the major impacts expected on government, business, civil society and individuals. Schwab also offers bold ideas on how to harness these changes and shape a better future--one in which technology empowers people rather than replaces them; progress serves society rather than disrupts it; and in which innovators respect moral and ethical boundaries rather than

cross them. We all have the opportunity to contribute to developing new frameworks that advance progress.

No matter where we are, disaster and hardship can strike. Hidden Harvest brings mountain wisdom of past generations into the present with the practical science of long term food storage.Readers of all income levels, even those of limited means or no means can begin using this information today without buying fancy equipment or anything at all. Part how-to book, part reference book and part story telling, Hidden Harvest is meant to be read from beginning to end and then kept handy on the shelf for routine consultation. Make your own survival food, eat healthy through any disaster and be able to share with friends and loved ones. All popular methods are discussed and probably many that are new to you.Replete with informative tables, formulas and curious (often adorable) hand-drawn illustrations, Hidden Harvests is a book intended to offer you many years of enjoyment, health and joy no matter what your circumstances. You will become a food storage and handling expert with practical and beneficial knowledge.Available as an ebook on Amazon.

Network Storage: Tools and Technologies for Storing Your Company’s Data explains the changes occurring in storage, what they mean, and how to negotiate the minefields of conflicting technologies that litter the storage arena, all in an effort to help IT managers create a solid foundation for coming decades. The book begins with an overview of the current state of storage and its evolution from the network perspective, looking closely at the different protocols and connection schemes and how they differentiate in use case and operational behavior. The book explores the software changes that are motivating this evolution, ranging from data management, to in-stream processing and storage in virtual systems, and changes in the decades-old OS stack. It explores Software-Defined Storage as a way to construct storage networks, the impact of Big Data, high-performance computing, and the cloud on storage networking. As networks and data integrity are intertwined, the book looks at how data is split up and moved to the various appliances holding that dataset and its impact. Because data security is often neglected, users will find a comprehensive discussion on security issues that offers remedies that can be applied. The book concludes with a look at technologies on the horizon that will impact storage and its networks, such as NVDIMMs, The Hybrid Memory Cube, VSANs, and NAND Killers. Puts all the new developments in storage networking in a clear perspective for near-term and long-term planning Offers a complete overview of storage networking, serving as a go-to resource for creating a coherent implementation plan Provides the details needed to understand the area, and clears a path through the confusion and hype that surrounds such a radical revolution of the industry

Appropriate for a first course on computer networking, this textbook describes the architecture and function of the application, transport, network, and link layers of the internet protocol stack, then examines audio and video networking applications, the underpinnings of encryption and network security, and the key issues of network management. Th

Can blockchain solve your biggest business problem? While the world is transfixed by bitcoin mania, your competitors are tuning out the noise and making strategic bets on blockchain. Your rivals are effortlessly tracking every last link in their supply chains. They're making bureaucratic paper trails obsolete while keeping their customers' data safer and discovering new ways to use this next foundational technology to sustain their competitive advantage. What should you be doing with blockchain now to ensure that your business is poised for success? "Blockchain: The Insights You Need from Harvard Business Review" brings you today's most essential thinking on blockchain, explains how to get the right initiatives started at your company, and prepares you to seize the opportunity of the coming blockchain wave. Business is changing. Will you adapt or be left behind? Get up to speed and deepen your understanding of the topics that are shaping your company's future with the Insights You Need from Harvard Business Review series. Featuring HBR's smartest thinking on fast-moving issues--blockchain, cybersecurity, AI, and more--each book provides the foundational introduction and practical case studies your organization needs to compete today and collects the best research, interviews, and analysis to get it ready for tomorrow. You can't afford to ignore how these issues will transform the landscape of business and society. The Insights You Need series will help you grasp these critical ideas--and prepare you and your company for the future.

"This easy to use guide will help you navigate your way to becoming proficient with the Microsoft Office suite of programs."--Page [4] of cover.

Wield the power of OpenStack Neutron networking to bring network infrastructure and capabilities to your cloud About This Book This completely up-to-date edition will show you how to deploy a cloud on OpenStack using community-driven processes. It includes rich examples that will help you understand complex networking topics with ease Understand every aspect of designing, creating, customizing, and maintaining the core network foundation of an OpenStack cloud using OpenStack Neutron all in one book Written by best-selling author James Denton, who has more than 15 years of experience in system administration and networking. James has experience of deploying, operating, and maintaining OpenStack clouds and has worked with top enterprises and organizations Who This Book Is For If you are an OpenStack-based cloud operator and administrator who is new to Neutron networking and wants to build your very own OpenStack cloud, then this book is for you. Prior networking experience and a physical server and network infrastructure is recommended to follow along with concepts demonstrated in the book. What You Will Learn Architect and install the latest release of OpenStack on Ubuntu Linux 14.04 LTS Review the components of OpenStack networking, including plugins, agents, and services, and learn how they work together to coordinate network operations Build a virtual switching infrastructure using reference architectures based on ML2 + Open vSwitch or ML2 + LinuxBridge Create networks, subnets, and routers that connect virtual machine instances to the network Deploy highly available routers using DVR or VRRP-based methods Scale your application with haproxy and Load Balancing as-a-Service Implement port and router-level security using Security Groups and Firewall as-a-Service Provide connectivity to tenant networks with Virtual Private Networking as-a-Service (VPNaaS) Find out how to manage OpenStack networking resources using CLI and GUI-driven methods In Detail OpenStack Neutron is an OpenStack component that provides

networking as a service for other OpenStack services to architect networks and create virtual machines through its API. This API lets you define network connectivity in order to leverage network capabilities to cloud deployments. Through this practical book, you will build a strong foundational knowledge of Neutron, and will architect and build an OpenStack cloud using advanced networking features. We start with an introduction to OpenStack Neutron and its various components, including virtual switching, routing, FWaaS, VPNaaS, and LBaaS. You'll also get hands-on by installing OpenStack and Neutron and its components, and use agents and plugins to orchestrate network connectivity and build a virtual switching infrastructure. Moving on, you'll get to grips with the HA routing capabilities utilizing VRRP and distributed virtual routers in Neutron. You'll also discover load balancing fundamentals, including the difference between nodes, pools, pool members, and virtual IPs. You'll discover the purpose of security groups and learn how to apply the security concept to your cloud/tenant/instance. Finally, you'll configure virtual private networks that will allow you to avoid the use of SNAT and floating IPs when connecting to remote networks. Style and approach This easy-to-follow guide on networking in OpenStack follows a step-by-step process to installing OpenStack and configuring the base networking components. Each major networking component has a dedicated chapter that will build on your experience gained from prior chapters.

For more than 20 years, Network World has been the premier provider of information, intelligence and insight for network and IT executives responsible for the digital nervous systems of large organizations. Readers are responsible for designing, implementing and managing the voice, data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce.

A GOOD MORNING AMERICA BOOK CLUB PICK “Chandler Baker, queen of the feminist thriller, has delivered once again! The Husbands is a poignant exploration of what it would take for women to have it all." —Sally Hepworth, bestselling author of The Good Sister To what lengths will a woman go for a little more help from her husband? Nora Spangler is a successful attorney but when it comes to domestic life, she packs the lunches, schedules the doctor appointments, knows where the extra paper towel rolls are, and designs and orders the holiday cards. Her husband works hard, too... but why does it seem like she is always working so much harder? When the Spanglers go house hunting in Dynasty Ranch, an exclusive suburban neighborhood, Nora meets a group of high-powered women—a tech CEO, a neurosurgeon, an award-winning therapist, a bestselling author—with enviably supportive husbands. When she agrees to help with a resident’s wrongful death case, she is pulled into the lives of the women there. She finds the air is different in Dynasty Ranch. The women aren’t hanging on by a thread. But as the case unravels, Nora uncovers a plot that may explain the secret to having-it-all. One that’s worth killing for. Calling to mind a Stepford Wives gender-swap, New York Times bestselling author of Whisper Network Chandler Baker's The Husbands imagines a world where the burden of the “second shift” is equally shared—and what it may take to get there. “Utterly engrossing and thoroughly timely, The Husbands is both a gripping, well-crafted mystery and an insightful critique of motherhood and marriage in the modern age--working mothers everywhere will feel seen in the best possible way.” —Kimberly McCreight, New York Times bestselling author of A Good Marriage

"Network Storage: Tools and Technologies for Storing Your Company s Data" explains the changes occurring in storage, what they mean, and how to negotiate the minefields of conflicting technologies that litter the storage arena, all in an effort to help IT managers create a solid foundation for coming decades. The book begins with an overview of the current state of storage and its evolution from the network perspective, looking closely at the different protocols and connection schemes and how they differentiate in use case and operational behavior. The book explores the software changes that are motivating this evolution, ranging from data management, to in-stream processing and storage in virtual systems, and changes in the decades-old OS stack. It explores Software-Defined Storage as a way to construct storage networks, the impact of Big Data, high-performance computing, and the cloud on storage networking. As networks and data integrity are intertwined, the book looks at how data is split up and moved to the various appliances holding that dataset and its impact. Because data security is often neglected, users will find a comprehensive discussion on security issues that offers remedies that can be applied. The book concludes with a look at technologies on the horizon that will impact storage and its networks, such as NVDIMMs, The Hybrid Memory Cube, VSANs, and NAND Killers. Puts all the new developments in storage networking in a clear perspective for near-term and long-term planningOffers a complete overview of storage networking, serving as a go-to resource for creating a coherent implementation planProvides the details needed to understand the area, and clears a path through the confusion and hype that surrounds such a radical revolution of the industry"

Features vendor-neutral coverage applicable to any storage network Includes a special case-study section citing real-world applications and examples The first vendor-neutral volume to cover storage network performance tuning and optimization Exacting performance monitoring and analysis maximizes the efficiency and cost-effectiveness of existing storage networks Meets the needs of network administrators, storage engineers, and IT professionals faced with shrinking budgets and growing data storage demands

Storage virtualization has come of age, offering IT professionals powerful new ways to simplify infrastructure, streamline management, improve utilization, and reduce costs. Now, the author of the best-selling storage books IP SANs and Designing Storage Area Networks presents an up-to-the-minute, vendor-neutral overview of storage virtualization in all its forms.

This book provides eloquent support for the idea that spontaneous neuron activity, far from being mere noise, is actually the source of our cognitive abilities. In a sequence of "cycles," György Buzsáki guides the reader from the physics of oscillations through neuronal assembly organization to complex cognitive processing and memory storage. His clear, fluid writing-accessible to any reader with some scientific knowledge-is supplemented by extensive footnotes and references that make it just as gratifying and instructive a read for the specialist. The coherent view of a single author who has been at the forefront of research in this exciting field, this volume is essential reading for anyone interested in our rapidly evolving understanding of the brain.

Guide to TCP/IP: IPv6 and IPv4 introduces students to the concepts, terminology, protocols, and services that the Transmission Control Protocol/Internet Protocol (TCP/IP) suite uses to make the Internet

work. This text stimulates hands-on skills development by not only describing TCP/IP capabilities, but also by encouraging students to interact with protocols. It provides the troubleshooting knowledge and tools that network administrators and analysts need to keep their systems running smoothly. Guide to TCP/IP covers topics ranging from traffic analysis and characterization, to error detection, security analysis and more. Both IPv6 and IPv4 are covered in detail. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.
Kubernetes has become an essential part of the daily work for most system, network, and cluster administrators today. But to work effectively together on a production-scale Kubernetes system, they must be able to speak the same language. This book provides a clear guide to the layers of complexity and abstraction that come with running a Kubernetes network. Authors James Strong and Vallery Lancey bring you up to speed on the intricacies that Kubernetes has to offer for large container deployments. If you're to be effective in troubleshooting and maintaining a production cluster, you need to be well versed in the abstraction provided at each layer. This practical book shows you how. Learn the Kubernetes networking model Choose the best interface for your clusters from the CNCF Container Network Interface project Explore the networking and Linux primitives that power Kubernetes Quickly troubleshoot networking issues and prevent downtime Examine cloud networking and Kubernetes using the three major providers: Amazon Web Services, Google Cloud, and Microsoft Azure Learn the pros and cons of various network tools--and how to select the best ones for your stack
A comparative analysis of Ethernet, TCP/IP, and Fibre Channel in the context of SCSI Introduces network administrators to the requirements of storage protocols Explains the operation of network protocols to storage administrators Compares and contrasts the functionality of Ethernet, TCP/IP, and Fibre Channel Documents the details of the major protocol suites, explains how they operate, and identifies common misunderstandings References the original standards and specifications so you can get a complete understanding of each protocol Helps you understand the implications of network design choices Discusses advanced network functionality such as QoS, security, management, and protocol analysis Corporations increasingly depend on computer and communication technologies to remain competitive in the global economy. Customer relationship management, enterprise resource planning, and e-mail are a few of the many applications that generate new data every day. Effectively storing, managing, and accessing that data is a primary business challenge in the information age. Storage networking is a crucial component of the solution to meet that challenge. Written for both storage administrators who need to learn more about networking and network administrators who need to learn more about storage, Storage Networking Protocol Fundamentals is a concise introduction to storage networking protocols. The book picks up where Storage Networking Fundamentals left off by focusing on the networking protocols that underlie modern open systems: block-oriented storage networks. The first part of the book introduces you to the field of storage networking and the Open Systems Interconnection (OSI) reference model. The second part compares networked storage technologies, including iSCSI (Small Computer Systems Interface over IP) and Fibre Channel. It also examines in detail each of the major protocol suites layer-by-layer within the OSI reference model. The third part discusses advanced functionalities of these technologies, such as quality of service (QoS), load-balancing functions, security, management, and protocol analysis. You can read this book cover to cover or use it as a reference, directly accessing the particular topics of interest to you. “Storage networking is a critical concept for today’s businesses, and this book provides a unique and helpful way to better understand it. Storage networking is also continuously evolving, and as such this book may be seen as an introduction to the information technology infrastructures of the future.” —from the foreword by Claudio DeSanti, vice-chairman of the ANSI INCITS T11 Technical Committee
Electricity transmission and distribution (T&D) networks carry electricity from generation sites to demand sites. With the increasing penetration of decentralised and renewable energy systems, in particular variable power sources such as wind turbines, and the rise in demand-side technologies, the importance of innovative products has never been greater. Eco-design approaches and standards in this field are aimed at improving the performance as well as the overall sustainability of T&D network equipment. This multidisciplinary reference provides coverage of developments and lessons-learned in the fields of eco-design of innovation from product-specific issues to system approaches, including case studies featuring problem-solving methodologies applicable to electricity transmission and distribution networks. Discusses key environmental issues and methodologies for eco-design, and applies this to development of equipment for electricity transmission and distribution. Provides analysis of using and assessing advanced equipment for wind energy systems. Includes reviews of the energy infrastructure for demand-side management in the US and Scandinavia.
Traditionally, networking has had little or no basis in analysis or architectural development, with designers relying on technologies they are most familiar with or being influenced by vendors or consultants. However, the landscape of networking has changed so that network services have now become one of the most important factors to the success of many third generation networks. It has become an important feature of the designer's job to define the problems that exist in his network, choose and analyze several optimization parameters during the analysis process, and then prioritize and evaluate these parameters in the architecture and design of the system. Network Analysis, Architecture, and Design, Third Edition, uses a systems methodology approach to teaching these concepts, which views the network (and the environment it impacts) as part of the larger system, looking at interactions and dependencies between the network and its users, applications, and devices. This approach matches the new business climate where customers drive the development of new services and the book discusses how networks can be architected and designed to provide many different types of services to customers. With a number of examples, analogies, instructor tips, and exercises, this book works through the processes of analysis, architecture, and design step by step, giving designers a solid resource for making good design decisions. With examples, guidelines, and general principles McCabe illuminates how a network begins as a concept, is built with addressing protocol, routing, and management, and harmonizes with the interconnected technology around it. Other topics covered in the book are learning to recognize problems in initial design, analyzing optimization parameters, and then prioritizing these parameters and incorporating them into the architecture and design of the system. This is an essential book for any professional that will be designing or working with a network on a routine basis. Substantially updated design content includes ad hoc networks, GMPLS, IPv6, and mobile networking Written by an expert in the field that has designed several large-scale networks for government agencies, universities, and corporations Incorporates real-life ideas and experiences of many expert designers along with case studies and end-of-chapter exercises
Microsoft Azure Essentials from Microsoft Press is a series of free ebooks designed to help you advance your technical skills with Microsoft Azure. The first ebook in the series, Microsoft Azure Essentials: Fundamentals of Azure, introduces developers and IT professionals to the wide range of capabilities in Azure. The authors - both Microsoft MVPs in Azure - present both conceptual and how-to content for key areas, including: Azure Websites and Azure Cloud Services Azure Virtual Machines Azure Storage Azure Virtual Networks Databases Azure Active Directory Management tools Business scenarios Watch Microsoft Press’s blog and Twitter (@MicrosoftPress) to learn about other free ebooks in the “Microsoft Azure Essentials” series.
#1 NEW YORK TIMES BESTSELLER SELECTION OF THE REESE WITHERSPOON BOOK CLUB A HIGHLY ANTICIPATED, BEST BOOK OF SUMMER SELECTED BY * VOGUE * USA TODAY * ENTERTAINMENT WEEKLY * CNN * TOWN & COUNTRY * PARADE * BUSTLE * AND MORE! A “gripping” (Entertainment Weekly) mystery about a woman who thinks she’s found the love of her life—until he disappears. Before Owen Michaels disappears, he smuggles a note to his beloved wife of one year: Protect her. Despite her confusion and fear, Hannah Hall knows exactly to whom the note refers—Owen’s sixteen-year-old daughter, Bailey. Bailey, who lost her mother tragically as a child. Bailey, who wants absolutely nothing to do with her new stepmother. As Hannah’s increasingly desperate calls to Owen go unanswered, as the FBI arrests Owen’s boss, as a US marshal and federal agents arrive at her Sausalito home unannounced, Hannah quickly realizes her husband isn’t who he said he

was. And that Bailey just may hold the key to figuring out Owen’s true identity—and why he really disappeared. Hannah and Bailey set out to discover the truth. But as they start putting together the pieces of Owen’s past, they soon realize they’re also building a new future—one neither of them could have anticipated. With its breakneck pacing, dizzying plot twists, and evocative family drama, The Last Thing He Told Me is a riveting mystery, certain to shock you with its final, heartbreaking turn.

“A big-hearted story that’s as sweet as it is awesome.” —R.J. Palacio, author of Wonder “An honest, emotionally rich take on disability, family, and growing up.” —Kirkus Reviews (starred review) In the tradition of Wonder and Out of My Mind, this big-hearted middle grade debut tells the story of an irrepressible girl with cerebral palsy whose life takes an unexpected turn when she moves to a new town. Ellie’s a girl who tells it like it is. That surprises some people, who see a kid in a wheelchair and think she’s going to be all sunshine and cuddles. The thing is, Ellie has big dreams: She might be eating Stouffer’s for dinner, but one day she’s going to be a professional baker. If she’s not writing fan letters to her favorite celebrity chefs, she’s practicing recipes on her well-meaning, if overworked, mother. But when Ellie and her mom move so they can help take care of her ailing grandpa, Ellie has to start all over again in a new town at a new school. Except she’s not just the new kid—she’s the new kid in the wheelchair who lives in the trailer park on the wrong side of town. It all feels like one challenge too many, until Ellie starts to make her first-ever friends. Now she just has to convince her mom that this town might just be the best thing that ever happened to them!

There's a reason everyone says "it's not what you know, it's who you know." If you're striving to reach ambitious goals, it's impossible without the right relationships. So how do you reverse-engineer relationships with the exact people you want to know? Through his podcast B2B Growth and his company Sweet Fish Media, James Carbary has pioneered a concept called content-based networking--a new approach to building your professional network. Instead of relying on chance encounters and random in-person events, content-based networking allows you to connect with anyone, at any time, and from anywhere in the world. In Content-Based Networking, you'll learn a proven three-part framework to consistently connect with potential customers, investors, referral partners, industry influencers, and anyone in between. Using this framework, you'll develop thought leadership in your industry, while simultaneously creating meaningful relationships with the exact people that can help you reach your goals and dreams.

Computer Networks: A Systems Approach, Fifth Edition, explores the key principles of computer networking, with examples drawn from the real world of network and protocol design. Using the Internet as the primary example, this best-selling and classic textbook explains various protocols and networking technologies. The systems-oriented approach encourages students to think about how individual network components fit into a larger, complex system of interactions. This book has a completely updated content with expanded coverage of the topics of utmost importance to networking professionals and students, including P2P, wireless, network security, and network applications such as e-mail and the Web, IP telephony and video streaming, and peer-to-peer file sharing. There is now increased focus on application layer issues where innovative and exciting research and design is currently the center of attention. Other topics include network design and architecture; the ways users can connect to a network; the concepts of switching, routing, and internetworking; end-to-end protocols; congestion control and resource allocation; and end-to-end data. Each chapter includes a problem statement, which introduces issues to be examined; shaded sidebars that elaborate on a topic or introduce a related advanced topic; What’s Next? discussions that deal with emerging issues in research, the commercial world, or society; and exercises. This book is written for graduate or upper-division undergraduate classes in computer networking. It will also be useful for industry professionals retraining for network-related assignments, as well as for network practitioners seeking to understand the workings of network protocols and the big picture of networking. Completely updated content with expanded coverage of the topics of utmost importance to networking professionals and students, including P2P, wireless, security, and applications Increased focus on application layer issues where innovative and exciting research and design is currently the center of attention Free downloadable network simulation software and lab experiments manual available

Discover the basics of virtual networking in OpenStack to implement various cloud network architectures Key Features Learn the difference between Open vSwitch and Linux bridge switching technologies Connect virtual machine instances to virtual networks, subnets, and ports Implement virtual load balancers, firewalls, and routers in your network Book Description OpenStack Networking is a pluggable, scalable, and API-driven system to manage physical and virtual networking resources in an OpenStack-based cloud. Like other core OpenStack components, OpenStack Networking can be used by administrators and users to increase the value and maximize the use of existing datacenter resources. This third edition of Learning OpenStack Networking walks you through the installation of OpenStack and provides you with a foundation that can be used to build a scalable and production-ready OpenStack cloud. In the initial chapters, you will review the physical network requirements and architectures necessary for an OpenStack environment that provide core cloud functionality. Then, you’ll move through the installation of the new release of OpenStack using packages from the Ubuntu repository. An overview of Neutron networking foundational concepts, including networks, subnets, and ports will segue into advanced topics such as security groups, distributed virtual routers, virtual load balancers, and VLAN tagging within instances. By the end of this book, you will have built a network infrastructure for your cloud using OpenStack Neutron. What you will learn Get familiar with Neutron constructs, including agents and plugins Build foundational Neutron resources to provide connectivity to instances Work with legacy Neutron routers and troubleshoot traffic through them Explore high-availability routing capabilities utilizing Virtual Router Redundancy Protocol (VRRP) Create and manage load balancers and associated components Manage security groups as a method of securing traffic to and from instances Who this book is for If you are an OpenStack-based cloud operator and administrator who is new to Neutron networking and wants to build your very own OpenStack cloud, then this book is for you.Prior networking experience and a physical server and network infrastructure is recommended to follow along with concepts demonstrated in the book.

Networking Made Easy is designed to take your overall networking skills from a beginner to the next level. Get a top-level understanding without a complex education. This easy to use guide will help you navigate your way to becoming proficient with network fundamentals and technology. Chapter 1 - What is a Network? Chapter 2 - Networking hardware Chapter 3 - Network Cabling Chapter 4 - Wireless Networking Chapter 5 - IP Addressing Chapter 6 - Protocols Chapter 7 - The Internet Chapter 8 - Windows Networking Chapter 9- Virtualization & Cloud Computing Chapter 10 - Network Troubleshooting About the Author James Bernstein has been working with various companies in the IT field since 2000, managing technologies such as SAN and NAS storage, VMware, backups, Windows Servers, Active Directory, DNS, DHCP, Networking, Microsoft Office, Exchange, and more. He has obtained certifications from Microsoft, VMware, CompTIA, ShoreTel, and SNIA, and continues to strive to learn new technologies to further his knowledge on a variety of subjects. He is also the founder of the website OnlineComputerTips.com, which offers its readers valuable information on topics such as Windows, networking, hardware, software, and troubleshooting. Jim writes much of the content himself and adds new content on a regular basis. The site was started in 2005 and is still going strong today.

'Supply Chain Management' illustrates the key drivers of good supply chain management in order to help students understand what creates a competitive advantage. It also provides strong coverage of analytic skills so that students can gauge the effectiveness of the techniques described.

A Cookbook full of practical and applicable recipes that will enable you to use the full capabilities of OpenStack like never before.This book is aimed at system administrators and technical architects moving from a virtualized environment to cloud environments with familiarity of cloud computing platforms. Knowledge of virtualization and managing linux environments is expected.

* Master the material for the CompTIA Network+ exam * Test your knowledge with assessment questions, scenario problems, and labs * Practice on state-of-the-art test-preparation software The only guide you need for Network+ exam success... You're holding in your hands the most comprehensive and effective guide available for the CompTIA Network+ exam. A crack team of networking experts delivers incisive, crystal-clear explanations of every Network+ topic, highlighting exam-critical concepts and offering hands-on tips that can help you in your real-world networking career. Throughout, they provide pre-tests, exam-style assessment questions, scenario problems, and labs - everything you need to master the material and pass the exam. Inside, you'll find complete coverage of Network+ exam objectives * Get the scoop on network topologies and technologies, media standards, and network components * Master the ins and outs of MAC addresses, the OSI model, and common protocols such as TCP/IP, FTP, SMTP, and TFTP * Get a handle on TCP/UDP port functionality and services such as DHCP, DNS, WINS, and SNMP * Delve into IP addressing, public and private networks, WANs, remote access, and security protocols * Find out how to implement VLANs, network-attached storage, fault tolerance, disaster recovery, firewalls, and proxy servers * Get up to speed on network support, from client/server network configuration to troubleshooting wiring, networks, and remote connectivity Test-Prep Software on CD-ROM * Customizable test engine with hundreds of sample questions * Searchable e-version of the book * Observer demo version

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Do you have a real relationship with God, or do you just have a religion? Do you know God, or do you just know about God? In How Big Is Your God? Paul Coutinho, SJ, challenges us to grow stronger and deeper in our faith and in our relationship with God—a God whose love knows no bounds. To help us on our way, Coutinho introduces us to people in various world religions—from Hindu friends to Buddhist teachers to St. Ignatius of Loyola—who have shaped his spiritual life and made possible his deep, personal relationship with God.

The Fourth Edition of the industry-acclaimed OpenStack Cloud Computing Cookbook, from four recognized experts, updated to the latest OpenStack build including Cinder, Nova, and Neutron. Key Features Over 100 recipes created by a team of OpenStack experts Updated to work with the latest OpenStack builds, with recipes covering the installation and use of OpenStack with Ansible It covers topics such as Keystone, Glance, Neutron, Nova, Cinder, and more, plus recipes for OpenStack storage, networking, and orchestrating workloads Test drive OpenStack using the accompanying Vagrant environment Book Description This is the fourth edition of the industry-acclaimed OpenStack Cloud Computing Cookbook, created by four recognized OpenStack experts. It has now been updated to work with the latest OpenStack builds, using tools and processes based on their collective and vast OpenStack experience. OpenStack Open Source Cloud software is one of the most used cloud infrastructures to support a wide variety of use cases, from software development to big data analysis. It is developed by a thriving community of individual developers from around the globe and backed by most of the leading players in the cloud space today. We make it simple to implement, massively scalable, and able to store a large pool of data and networking resources. OpenStack has a strong ecosystem that helps you provision your cloud storage needs. Add OpenStack's enterprise features to reduce the cost of your business. This book will begin by showing you the steps to build up an OpenStack private cloud environment using Ansible. You'll then discover the uses of cloud services such as the identity service, image service, and compute service. You'll dive into Neutron, the OpenStack Networking service, and get your hands dirty with configuring networks, routers, load balancers, and more. You'll then gather more expert knowledge on OpenStack cloud computing by managing your cloud's security and migration. After that, we delve into OpenStack Object storage and you'll see how to manage servers and work with objects, cluster, and storage functionalities. Finally, you will learn about OpenStack dashboard, Ansible, Keystone, and other interesting topics. What you will learn Understand, install, configure, and manage a complete OpenStack Cloud platform using OpenStack-Ansible Configure networks, routers, load balancers, and more with Neutron Use Keystone to setup domains, roles, groups and user access Learn how to use Swift and setup container access control lists Gain hands-on experience and familiarity with Horizon, the OpenStack Dashboard user interface Automate complete solutions with our recipes on Heat, the OpenStack Orchestration service as well as using Ansible to orchestrate application workloads Follow practical advice and examples to run OpenStack in production Who this book is for This book is written for cloud system engineers, system administrators, and technical architects who are moving from a virtualized environment to cloud environments. This book assumes that you are familiar with cloud computing platforms, and have knowledge of virtualization, networking, and managing Linux environments.