

Edge Virtual Bridging With Veb And Vepa leee 802

As organizations drive to transform and virtualize their IT infrastructures to reduce costs, and manage risk, networking is pivotal to success. Optimizing network performance, availability, adaptability, security, and cost is essential to achieving the maximum benefit from your infrastructure. In this IBM® Redbooks® publication, we address these requirements: Expertise to plan and design networks with holistic consideration of servers, storage, application performance, and manageability Networking solutions that enable investment protection with performance and cost options that match your environment Technology and expertise to design and implement and manage network security and resiliency Robust network management software for integrated, simplified management that lowers operating costs of complex networks IBM and Brocade have entered into an agreement to provide expanded network technology choices with the new IBM b-type Ethernet Switches and Routers, to provide an integrated end-to-end resiliency and security framework. Combined with the IBM vast data center design experience and the Brocade networking expertise, this portfolio represents the ideal convergence of strength and intelligence. For organizations striving to transform and virtualize their IT infrastructure, such a combination can help you reduce costs, manage risks, and prepare for the future. This book is meant to be used along with "IBM b-type Data Center Networking: Product Introduction and Initial Setup," SG24-7785.

The IBM® Distributed Virtual Switch 5000V (DVS 5000V) is a software-based network switching solution that is designed for use with the virtualized network resources in a VMware enhanced data center. It works with VMware vSphere and ESXi 5.0 and beyond to provide an IBM Networking OS management plane and advanced Layer 2 features in the control and data planes. It provides a large-scale, secure, and dynamic integrated virtual and physical environment for efficient virtual machine (VM) networking that is aware of server virtualization events, such as VMotion and Distributed Resource Scheduler (DRS). The DVS 5000V interoperates with any 802.1Qbg compliant physical switch to enable switching of local VM traffic in the hypervisor or in the upstream physical switch. Network administrators who are familiar with IBM System Networking switches can manage the DVS 5000V just like IBM physical switches by using advanced networking, troubleshooting, and management features to make the virtual switch more visible and easier to manage. This IBM Redbooks® publication helps the network and system administrator install, tailor, and quickly configure the IBM Distributed Virtual Switch 5000V (DVS 5000V) for a new or existing virtualization computing environment. It provides several practical applications of the numerous features of the DVS 5000V, including a step-by-step guide to deploying, configuring, maintaining, and troubleshooting the device. Administrators who are already familiar with the CLI interface of IBM System Networking switches will be comfortable with the DVS 5000V. Regardless of whether the reader has previous experience with IBM System Networking, this publication is designed to help you get the DVS 5000V functional quickly, and provide a conceptual explanation of how the DVS 5000V works in tandem with VMware.

The Knowledge Solution. Stop Searching, Stand Out and Pay Off. The #1 ALL ENCOMPASSING Guide to E-Services. An Important Message for ANYONE who wants to learn about E-Services Quickly and Easily... ""Here's Your Chance To Skip The Struggle and Master E-Services, With the Least Amount of Effort, In 2 Days Or Less..."" The concept of E-service (short for electronic service), represents one prominent application of utilizing the use of Information and communication technologies (ICTs) in different areas. However, providing an exact definition of e-service is hard to come by as researchers have been using different definitions to describe e-service. Despite these different definitions, it can be argued that they all agree about the role of technology in facilitating the delivery of services which make them more of electronic services. Get the edge, learn EVERYTHING you need to know about E-Services, and ace any discussion, proposal and implementation with the ultimate book - guaranteed to give you the education that you need, faster than you ever dreamed possible! The information in this book can show you how to be an expert in the field of E-Services. Are you looking to learn more about E-Services? You're about to discover the most spectacular gold mine of E-Services materials ever created, this book is a unique collection to help you become a master of E-Services. This book is your ultimate resource for E-Services. Here you will find the most up-to-date information, analysis, background and everything you need to know. In easy to read chapters, with extensive references and links to get you to know all there is to know about E-Services right away. A quick look inside: E-Services, Access to knowledge movement, Alphagov, Code for America, De-Mail, E-Government, EGovernment in Europe, Government Accountability Office, International Conference on Theory and Practice of Electronic Governance, International Open Government Data Conference, LinkedGov, Local eGovernment, MyEnvironment, Open Data in Canada, Open Data in the United Kingdom, Open government, Open Philanthropy, Open-source political campaign, PolicyPitch, Reset San Francisco, SeeClickFix, Whole of Government Accounts, Digital divide, Broadband Commission for Digital Development, Center to Bridge the Digital Divide, Commonwealth Computer Navigator's Certificate, Community technology center, Computer Clubhouse, Computer literacy, Declaration of Helsinki (Information Technology), Digital Britain, Digital citizen, Digital Divide Network, Digital literacy, Digital Writing and Research Lab, E-Inclusion, E-readiness, European Computer Driving Licence, Get online week, Global digital divide, Information society, Infostate, International Telecommunication Union, Knowledge divide, Knowledge gap hypothesis, One Laptop per Child, Palmas International, Public Media Corps, San Francisco Digital Inclusion Strategy, School of the Future (Sao Paulo - Brasil), UK Online Centres, UNESCO, World Summit on the Information Society, World Wide Telecom Web ...and Much, Much More! This book explains in-depth the real drivers and workings of E-Services. It reduces the risk of your technology, time and resources investment decisions by enabling you to compare your understanding of E-Services with the objectivity of experienced professionals - Grab your copy now, while you still can. Gets visual learners up to speed on the newest enhancements in Photoshop Photoshop is constantly evolving, and the newest version offers great new tools for photographers. This popular guide gets visual learners up to speed quickly; previous editions have sold more than 150,000 copies. With colorful screen shots illustrating the step-by-step instructions, this book is perfect for Photoshop newcomers and for visual learners who are upgrading from an earlier version. It covers setting up the software, importing images from the camera, using all the tools, creating an online gallery, and more. Covers the most important features of Photoshop CS6, including importing photos from a digital camera, retouching and repairing damaged photos, enhancing digital images, and adding custom 3-Deffects Explains how to edit images for the web, create an online photogallery, and incorporate graphics into desktop publishing programs Explores color management, using palettes, compositing, using layers, applying gradients, setting type, and working with filters Features step-by-step instructions and full-color illustrations designed for those who learn best when they see how things are done Teach Yourself VISUALLY Photoshop CS6 gets visual learners ready to take advantage of everything the newest version has to offer.

Welcome to Digital Gold. At first glance this book will appear as a personal story, and the story of starting new business - but most importantly it's a story about taking risks and following dreams. It's about the psychology of success just as much as the real-world process. This book is the story of how I left the comfort zone of my old life at a comfortable, enjoyable job to strike out on my own and launch a successful franchise business. Some people are satisfied moving through life with a good job and a reliable salary - perhaps they want more occasionally, but they aren't willing to take the risks necessary to go beyond the comfort and apparent security of employment. There are others - a much more rare type of person - who will never be satisfied working for someone else, no matter how much money, respect and status the job may bring. In the pages of this book you will find my own personal story of success in life and in business. You will learn the practical, pragmatic process I went through to find the perfect business model and how I grew my internet franchise from a small operation into a service solution with dozens of clients. You will learn who provided the most positive influences on my path to success, and who tried to hold me back - and how I dealt with obstacles and negative influences, both from outside and within myself. But above all else, I would like

you to take away from this book the importance of action and execution when it comes to pursuing your own dream of success. There are times in any success person's life where they have to go against conventional wisdom, make an unpopular decision, and take a big risk. It's a bridge that always needs to be crossed - real success, and the real happiness and freedom it can offer, never come easy. I hope that you enjoy the story in this book, learn from it, feel inspired by it, and ultimately take your destiny into your own hands as a result.

Research, build, deploy, and support e-business strategies and solutions Identify and deploy customer-care, e-commerce, and e-learning Internet solutions Master Web-appropriate application design Recommend appropriate supply-chain management processes Choose among prevailing models for development, sourcing, and applications integration Conduct a needs assessment to determine project schedules and metrics Make build-or-buy decisions confidently for overall business success Manage and support critical application performance, including systems monitoring, version control, software distribution, and application functionality Monitor and control remote workstation and server resources in a distributed network The worldwide leader in networking for the Internet, Cisco Systems(r) has used the Internet to transform and integrate its core processes and culture. The results have been dramatic: 90 percent of customer orders taken online, over 82 percent of support calls resolved over the Internet, increased customer satisfaction, and a financial benefit of almost \$1.7 billion in FY 2001. Cisco Internet Applications and Solutions Self-Study Guide is a helpful preparatory tool for the Applications Essentials and Solutions exams, two of the three exams required to achieve the Cisco Internet Solutions Specialist focused designation. As businesses today accelerate their interest in Web-based customer care, e-commerce, e-learning, and other online solutions, they have a pressing need for professionals who can bridge the gap between applications and network operations. After using Cisco Internet Applications and Solutions Self-Study Guide to understand best practices, appropriate models, and proven approaches to Web-based application design, you will be well equipped to create and support a functionally rich applications infrastructure. By taking you step-by-step through application design, development, deployment, and management, this book enables you to lead the way for companies poised at the cutting edge of e-business initiatives. Optimize your study time with review questions at the close of each chapter that assess your knowledge of the material. Walk through practical scenarios with "Applied Solutions" sections, provided within each chapter. Review real-world applications of book concepts with an entire chapter of case studies. Finally, test your e-business savvy with two practice exams, which together offer more than 150 questions and a complete opportunity to ensure overall comprehension. This book supplements training and hands-on knowledge required to obtain and retain the knowledge vital for passing the Applications Essentials and Solutions exams, as required to achieve the Cisco Internet Solutions Specialist focused certification. Cisco Internet Applications and Solutions Self-Study Guide is part of a recommended study program from Cisco Systems that can include simulation and hands-on training from authorized Cisco Learning Partners and self-study and exam preparation guides from Cisco Press. To find out more about instructor-led, e-learning, and hands-on instruction offered by authorized Cisco Learning Partners worldwide, please visit: www.cisco.com/go/training.

From idea to online, your key to great-looking Web sites Your one-stop guide to building a user-friendly site with professional flair Whether you're building a site to keep in touch with others, sell products, or promote a cause, you want to make sure yours stands out in the crowd. This handy reference shows you how to design an accessible site, create graphics and navigation menus, build forms, insert sound and video, and keep your visitors coming back for more. Discover how to Plan, maintain, and promote a Web site Design with users in mind Work with HTML and CSS Optimize graphic elements for the Web Build your site with e-commerce functionality

Several prominent public voices have advanced the hypothesis that networked communications erode the value of privacy in favor of a transparent connected existence. Especially younger generations are often described as prone to live "open digital lives". This hypothesis has raised considerable controversy, polarizing the reaction of its critics as well as of its partisans. But how likely is the "end of privacy"? Under which conditions might this scenario come to be? What are the business and policy implications? How to ethically assess risks and opportunities? To shed light on the co-evolution and mutual dependencies of networked structures and individual and collective strategies towards privacy, this book innovatively uses cutting-edge methods in computational social sciences to study the formation and maintenance of online social networks. The findings confound common arguments and clearly indicate that Internet and social media do not necessarily entail the end of privacy. Publicity is not "the new norm": quite to the contrary, the book makes the case that privacy is a resilient social force, resulting from a set of interconnected behaviors of Internet users.

This book provides readers with an overview of Cloud Computing, starting with historical background on mainframe computers and early networking protocols, leading to current concerns such as hardware and systems security, performance, emerging areas of IoT, Edge Computing etc. Readers will benefit from the in-depth discussion of cloud computing usage and the underlying architectures. The authors explain carefully the "why's and how's" of Cloud Computing, so engineers will find this book an invaluable source of information to the topic. This second edition includes new material on Cloud Computing Security, Threat Vectors and Trust Models, as well as best practices for a using dynamic cloud infrastructure, and cloud operations management. Several new examples and analysis of cloud security have been added, including edge computing with IoT devices.

To meet today's complex and ever-changing business demands, you need a solid foundation of compute, storage, networking, and software resources. This system must be simple to deploy, and be able to quickly and automatically adapt to changing conditions. You also need to be able to take advantage of broad expertise and proven guidelines in systems management, applications, hardware maintenance, and more. The IBM® PureFlex® System combines no-compromise system designs along with built-in expertise and integrates them into complete, optimized solutions. At the heart of PureFlex System is the IBM Flex System® Enterprise Chassis. This fully integrated infrastructure platform supports a mix of compute, storage, and networking resources to meet the demands of your applications. The solution is easily scalable with the addition of another chassis with the required nodes. With the IBM Flex System Manager®, multiple chassis can be monitored from a single panel. The 14 node, 10U chassis delivers high-speed performance complete with integrated servers, storage, and networking. This flexible chassis is simple to deploy now, and to scale to meet your needs in the future. This IBM Redbooks® publication describes IBM PureFlex System and IBM Flex System available from IBM. It highlights the technology and features of the chassis, compute nodes, management features, and connectivity options. Guidance is provided about every major component, and about networking and storage connectivity. This book is intended for customers, IBM Business Partners, and IBM employees who want to know the details about the new family of products. It assumes that you have a basic understanding of blade server concepts and general IT knowledge. Make cool stuff. If you're a designer or artist without a lot of programming experience, this book will teach you to work with 2D and 3D graphics, sound, physical interaction, and electronic circuitry to create all sorts of interesting and compelling experiences -- online and off. Programming Interactivity explains programming and electrical engineering basics, and introduces three freely available tools created specifically for artists and designers: Processing, a Java-based programming language and environment for building projects on the desktop, Web, or mobile phones Arduino, a system that integrates a microcomputer prototyping board, IDE, and programming language for creating your own hardware and controls OpenFrameworks, a coding framework simplified for designers and artists, using the powerful C++ programming language BTW, you don't have to wait until you finish the book to actually make something. You'll get working code samples you can use right away, along with the background and technical

information you need to design, program, build, and troubleshoot your own projects. The cutting edge design techniques and discussions with leading artists and designers will give you the tools and inspiration to let your imagination take flight.

Network virtualization at your fingertips Key Features Over 70 practical recipes created by two VCIX-NV certified NSX experts Explore best practices to deploy, operate, and upgrade VMware NSX for vSphere Leverage NSX REST API using various tools from Python in VMware vRealize Orchestrator Book Description This book begins with a brief introduction to VMware's NSX for vSphere Network Virtualization solutions and how to deploy and configure NSX components and features such as Logical Switching, Logical Routing, layer 2 bridging and the Edge Services Gateway. Moving on to security, the book shows you how to enable micro-segmentation through NSX Distributed Firewall and Identity Firewall and how to do service insertion via network and guest introspection. After covering all the feature configurations for single-site deployment, the focus then shifts to multi-site setups using Cross-vCenter NSX. Next, the book covers management, backing up and restoring, upgrading, and monitoring using built-in NSX features such as Flow Monitoring, Traceflow, Application Rule Manager, and Endpoint Monitoring. Towards the end, you will explore how to leverage VMware NSX REST API using various tools from Python to VMware vRealize Orchestrator. What you will learn Understand, install, and configure VMware NSX for vSphere solutions Configure logical switching, routing, and Edge Services Gateway in VMware NSX for vSphere Learn how to plan and upgrade VMware NSX for vSphere Learn how to use built-in monitoring tools such as Flow Monitoring, Traceflow, Application Rule Manager, and Endpoint Monitoring Learn how to leverage the NSX REST API for management and automation using various tools from Python to VMware vRealize Orchestrator Who this book is for If you are a security and network administrator and looking to gain an intermediate level for network and security virtualization, then this book is for you. The reader should have a basic knowledge with VMware NSX.

The HTML and CSS Workshop equips you with the practical knowledge to create modern responsive websites. From mastering simple HTML markup and CSS tags, through to integrating media queries and animations to create a rich, engaging user experience, you'll build your skills with the help of hands-on examples and activities.

Leverage Kubernetes for the rapid adoption of emerging technologies. Kubernetes is the future of enterprise platform development and has become the most popular, and often considered the most robust, container orchestration system available today. This book focuses on platforming technologies that power the Internet of Things, Blockchain, Machine Learning, and the many layers of data and application management supporting them. Advanced Platform Development with Kubernetes takes you through the process of building platforms with these in-demand capabilities. You'll progress through the development of Serverless, CI/CD integration, data processing pipelines, event queues, distributed query engines, modern data warehouses, data lakes, distributed object storage, indexing and analytics, data routing and transformation, query engines, and data science/machine learning environments. You'll also see how to implement and tie together numerous essential and trending technologies including: Kafka, NiFi, Airflow, Hive, Keycloak, Cassandra, MySQL, Zookeeper, Mosquitto, Elasticsearch, Logstash, Kibana, Presto, Mino, OpenFaaS, and Ethereum. The book uses Golang and Python to demonstrate the development integration of custom container and Serverless functions, including interaction with the Kubernetes API. The exercises throughout teach Kubernetes through the lens of platform development, expressing the power and flexibility of Kubernetes with clear and pragmatic examples. Discover why Kubernetes is an excellent choice for any individual or organization looking to embark on developing a successful data and application platform. What You'll Learn Configure and install Kubernetes and k3s on vendor-neutral platforms, including generic virtual machines and bare metal Implement an integrated development toolchain for continuous integration and deployment Use data pipelines with MQTT, NiFi, Logstash, Kafka and Elasticsearch Install a serverless platform with OpenFaaS Explore blockchain network capabilities with Ethereum Support a multi-tenant data science platform and web IDE with JupyterHub, MLflow and Seldon Core Build a hybrid cluster, securely bridging on-premise and cloud-based Kubernetes nodes Who This Book Is For System and software architects, full-stack developers, programmers, and DevOps engineers with some experience building and using containers. This book also targets readers who have started with Kubernetes and need to progress from a basic understanding of the technology and "Hello World" example to more productive, career-building projects.

The Internet didn't kill TV! It has become its best friend. Americans are watching more television than ever before, and we're engaging online at the same time we're tuning in. Social media has created a new and powerful "backchannel", fueling the renaissance of live broadcasts. Mobile and tablet devices allow us to watch and experience television whenever and wherever we want. And "connected TVs" blend web and television content into a unified big screen experience bringing us back into our living rooms. Social TV examines the changing (and complex) television landscape and helps brands navigate its many emerging and exciting marketing and advertising opportunities. Social TV topics include: Leveraging the "second screen" to drive synched and deeper brand engagement Using social ratings analytics tools to find and target lean-forward audiences Aligning brand messaging to content as it travels time-shifted across devices Determining the best strategy to approach marketing via connected TVs Employing addressable TV advertising to maximize content relevancy Testing and learning from the most cutting-edge emerging TV innovations The rise of one technology doesn't always mean the end of another. Discover how this convergence has created new marketing opportunities for your brand.

The Knowledge Solution. Stop Searching, Stand Out and Pay Off. The #1 ALL ENCOMPASSING Guide to Web 3.0. An Important Message for ANYONE who wants to learn about Web 3.0 Quickly and Easily... "Here's Your Chance To Skip The Struggle and Master Web 3.0, With the Least Amount of Effort, In 2 Days Or Less..." The Semantic Web is a "web of data" that facilitates machines to understand the semantics, or meaning, of information on the World Wide Web. It extends the network of hyperlinked human-readable web pages by inserting machine-readable metadata about pages and how they are related to each other, enabling automated agents to access the Web more intelligently and perform tasks on behalf of users. The term was coined by Tim Berners-Lee, the inventor of the World Wide Web and director of the World Wide Web Consortium ("W3C"), which oversees the development of proposed Semantic Web standards. He defines the Semantic Web as "a web of data that can be processed directly and indirectly by machines." Get the edge, learn EVERYTHING you need to know about Web 3.0, and ace any discussion, proposal and implementation with the ultimate book - guaranteed to give you the education that you need, faster than you ever dreamed possible! The information in this book can show you how to be an expert in the field of Web 3.0. Are you looking to learn more about Web 3.0? You're about to discover the most spectacular gold mine of Web 3.0 materials ever created, this book is a unique collection to help you become a master of Web 3.0. This book is your ultimate resource for Web 3.0. Here you will find the most up-to-date information, analysis, background and everything you need to know. In easy to read chapters, with extensive references and links to get you to know all there is to know about Web 3.0 right away. A quick look inside: Semantic

horizons further. Now multi-media pedagogy means not only newer technologies, but also newer, and different education techniques. This book describes psychology innovation currently making educational settings competent and competitive. Student choice rules in education today. The technologically driven environment produces students whose preference is incumbent on electronic research means. Besides using these tools themselves, students thirst for multi-media pedagogy in the classroom online and on campus. It is therefore teachers who close the digital divide between generations in order to educate effectively. Approaches using new technologies and techniques have proven successful internationally with diverse audiences.

Implement Configuration Management Databases that Deliver Rapid ROI and Sustained Business Value Implementing an enterprise-wide Configuration Management Database (CMDB) is one of the most influential actions an IT organization can take to improve service delivery and bridge the gap between technology and the business. With a well-designed CMDB in place, companies are better positioned to manage and optimize IT infrastructure, applications, and services; automate more IT management tasks; and restrain burgeoning costs. Now, there's an objective, vendor-independent guide to making a CMDB work in your organization. The CMDB Imperative presents a start-to-finish implementation methodology that works and describes how the CMDB is shifting to the superior Configuration Management System (CMS). Expert CMDB industry analyst Glenn O'Donnell and leading-edge architect and practitioner Carlos Casanova first review the drivers behind a CMDB and the technical, economic, cultural, and political obstacles to success. Drawing on the experiences of hundreds of organizations, they present indispensable guidance on architecting and customizing CMDB solutions to your specific environment. They'll guide you through planning, implementation, transitioning into production, day-to-day operation and maintenance, and much more. Coverage includes Defining the tasks and activities associated with configuration management Understanding the CMDB's role in ITIL and the relationship between CMDBs and ITIL v3's CMS Building software models that accurately represent each entity in your IT environment Ensuring information accuracy via change management and automated discovery Understanding the state of the CMDB market and selling the CMDB within your organization Creating federated CMDB architectures that successfully balance autonomy with centralized control Planning a deployment strategy that sets appropriate priorities and reflects a realistic view of your organization's maturity Integrating systems and leveraging established and emerging standards Previewing the future of the CMDB/CMS and how it will be impacted by key trends such as virtualization, SOA, mobility, convergence, and "flexi-sourcing"

This SpringerBrief brings order to the wealth of research studies that contribute to shape our understanding of on-line social networks (OSNs) lurking phenomena. This brief also drives the development of computational approaches that can be effectively applied to answer questions related to lurking behaviors, as well as to the engagement of lurkers in OSNs. All large-scale online social networks (OSNs) are characterized by a participation inequality principle, i.e., the crowd of an OSN does not actively contribute, rather it takes on a silent role. Silent users are also referred to as lurkers, since they gain benefit from others' information without significantly giving back to the community. Nevertheless, lurkers acquire knowledge from the OSN, therefore a major goal is to encourage them to more actively participate. Lurking behavior analysis has been long studied in social science and human-computer interaction fields, but it has also matured over the last few years in social network analysis and mining. While the main target audience corresponds to computer, network, and web data scientists, this brief might also help increase the visibility of the topic by bridging different closely related research fields. Practitioners, researchers and students interested in social networks, web search, data mining, computational social science and human-computer interaction will also find this brief useful research material .

Cognitive Hyperconnected Digital Transformation provides an overview of the current Internet of Things (IoT) landscape, ranging from research, innovation and development priorities to enabling technologies in a global context. It is intended as a standalone book in a series that covers the Internet of Things activities of the IERC-Internet of Things European Research Cluster, including both research and technological innovation, validation and deployment. The book builds on the ideas put forward by the European Research Cluster, the IoT European Platform Initiative (IoT-EPI) and the IoT European Large-Scale Pilots Programme, presenting global views and state-of-the-art results regarding the challenges facing IoT research, innovation, development and deployment in the next years. Hyperconnected environments integrating industrial/business/consumer IoT technologies and applications require new IoT open systems architectures integrated with network architecture (a knowledge-centric network for IoT), IoT system design and open, horizontal and interoperable platforms managing things that are digital, automated and connected and that function in real-time with remote access and control based on Internet-enabled tools. The IoT is bridging the physical world with the virtual world by combining augmented reality (AR), virtual reality (VR), machine learning and artificial intelligence (AI) to support the physical-digital integrations in the Internet of mobile things based on sensors/actuators, communication, analytics technologies, cyber-physical systems, software, cognitive systems and IoT platforms with multiple functionalities. These IoT systems have the potential to understand, learn, predict, adapt and operate autonomously. They can change future behaviour, while the combination of extensive parallel processing power, advanced algorithms and data sets feed the cognitive algorithms that allow the IoT systems to develop new services and propose new solutions. IoT technologies are moving into the industrial space and enhancing traditional industrial platforms with solutions that break free of device-, operating system- and protocol-dependency. Secure edge computing solutions replace local networks, web services replace software, and devices with networked programmable logic controllers (NPLCs) based on Internet protocols replace devices that use proprietary protocols. Information captured by edge devices on the factory floor is secure and accessible from any location in real time, opening the communication gateway both vertically (connecting machines across the factory and enabling the instant availability of data to stakeholders within operational silos) and horizontally (with one framework for the entire supply chain, across departments, business units, global factory locations and other markets). End-to-end security and privacy solutions in IoT space require agile, context-aware and scalable components with mechanisms that are both fluid and adaptive. The convergence of IT (information technology) and OT (operational technology) makes security and privacy by default a new important element where security is addressed at the architecture level, across applications and domains, using multi-layered distributed security measures. Blockchain is transforming industry operating models by adding trust to untrusted environments, providing distributed security mechanisms and transparent access to the information in the chain. Digital technology platforms are evolving, with IoT platforms integrating complex info

With over 3 billion of the global population relying on the web for their daily life-style, expert predictions indicate that businesses will drastically change the way they operate with the emergence of Digital Technology, challenging the status quo on a daily basis. "Think Digital - The Ultimate Digital Transformation Guide for Small to Medium Enterprises," is designed to empower start-ups, SMEs and entrepreneurs with tools and techniques to stay ahead in this aggressive industry by bridging the gap between

theoretical advice and practical strategy implementation. This book brings together insights gained through extensive research on digital transformation best practices and the author's decade long experience in digital transformation. This digital transformation guide takes its readers through an enlightening journey unravelling the mysteries of the digital world. The book will teach how to balance all the small parts to work in tandem towards achieving the bigger goals, be it your company culture, investing in employees, processes and technology or using a combination of these to re-shape the ultimate customer experience. Highlighting real-life examples through case-studies from industries as diverse as technology, retail and finance, the book demonstrates how leading companies are using the digital transformation framework to stay cutting-edge and competitive in this age. Explore different topics and perspectives around digital transformation with Logan Nathan and arm your business with strategies that will prepare you for the future.

Build customized themes to make your Moodle courses engaging and interactive About This Book Leverage the power of Moodle 3 to create interactive and engaging themes for your courses Experience and integrate the power of Bootstrap and CSS into your Moodle app Implement your plans with illustrative examples to become a top notch designer Who This Book Is For If you are a Moodle administrator, developer, or designer and wish to enhance your Moodle site to make it visually attractive, then this book is for you. You should be familiar with web design techniques such as HTML and further experience with CSS would be helpful. What You Will Learn Plan a personalized Moodle theme from start to finish Install a Moodle theme in different operating systems and change Moodle's theme settings Add your own customized logo and test your changes in several web browsers Customize the Moodle site to fit in with other elements such as websites and social networks, among others Create a design mock-up using graphics software Design themes that are capable of working with a huge number of different resolutions, screen sizes, screen orientations, and pixel densities Work with code to adjust the theme to users requirements Create new custom icons for your theme In Detail Theming is one of the main features of Moodle, and it can be used to customize your online courses and make them look exactly how you want them to, according to your target audience. If you have been looking for a book that will help you develop Moodle themes that you are proud of, and that your students will enjoy, then this is the book for you. We start off by introducing Moodle 3 and explaining what it is, how it works, and what tools you might need to create a stunning Moodle theme. We then show you how to choose and change the pre-installed Moodle themes in detailed steps, and explain what Moodle themes are and how they work. Next, we show you how to change an existing theme and test the changes that you have made. You can not only plan the customization of theme, but also tailor it using advanced Moodle theming processes; this book is your one-stop guide to creating your own personalized Moodle 3 theme. Style and approach This book acts as a comprehensive guide which helps you to create visually stunning and responsive themes to add that extra edge to your Moodle apps.

If you want to engage, motivate, and retain young workers without driving the veteran workers away, Generation Blend can help you. This timely book explores how generational attitudes toward technology affect issues as diverse as recruitment and retention, employee training, management decision-making, collaboration, knowledge sharing, and work/life balance. Looking to solve the puzzle of productivity across the technology age gap? Start with Generation Blend.

CCNP Enterprise Certification Study Guide: Implementing and Operating Cisco Enterprise Network Core Technologies Exam 350-401 John Wiley & Sons

This book provides up-to-date coverage of LAN technology and LAN standards, and will enhance readers' understanding of computer networks -- for purposes of managing the system, solving users' problems, and planning for future growth related to a company's products and sales. Chapter topics include data communications, topologies and transmission media, protocol architecture, Gigabit Ethernet, 100-Mbps token ring, Fibre Channel, ATM LANs, wireless LANs, concepts of bridges and routers, network management, and structured cabling systems and types. For product development and marketing personnel, and data processing personnel.

The practical and conceptual knowledge you need to attain CCNP Enterprise certification From one of the most trusted study guide publishers comes CCNP Enterprise Certification Study Guide: Exam 350-401. This guide helps you develop practical knowledge and best practices for critical aspects of enterprise infrastructure so you can gain your CCNP Enterprise certification. If you're hoping to attain a broader range of skills and a solid understanding of Cisco technology, this guide will also provide fundamental concepts for learning how to implement and operate Cisco enterprise network core technologies. By focusing on real-world skills, each chapter prepares you with the knowledge you need to excel in your current role and beyond. It covers emerging and industry-specific topics, such as SD-WAN, network design, wireless, and automation. This practical guide also includes lessons on: ? Automation ? Network assurance ? Security ? Enterprise infrastructure ? Dual-stack architecture ? Virtualization In addition to helping you gain enterprise knowledge, this study guide can lead you toward your Cisco specialist certification. When you purchase this guide, you get access to the information you need to prepare yourself for advances in technology and new applications, as well as online study tools such as: ? Bonus practice exams ? Pre-made flashcards ? Glossary of key terms ? Specific focus areas Expand your skillset and take your career to the next level with CCNP Enterprise Certification Study Guide.

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

The Knowledge Solution. Stop Searching, Stand Out and Pay Off. The #1 ALL ENCOMPASSING Guide to F-Commerce. An Important Message for ANYONE who wants to learn about F-Commerce Quickly and Easily... ""Here's Your Chance To Skip The Struggle and Master F-Commerce, With the Least Amount of Effort, In 2 Days Or Less..."" Facebook commerce, f-commerce, and f-comm refer to the buying and selling of goods or services through Facebook, either through Facebook directly or through the Facebook Open Graph. Last year 1.5 million businesses had pages on Facebook that were built using Facebook Markup Language (FBML). This year Facebook deprecated FBML and adopted iframes. Among other things, this allowed developers to gather more information about their Facebook visitors. Get the edge, learn EVERYTHING you need to know about F-Commerce, and ace any discussion, proposal and implementation with the ultimate book - guaranteed to give you the education that you need, faster than you ever dreamed possible! The information in this book can show you how to be an expert in the field of F-Commerce. Are you looking to learn more about F-Commerce? You're about to discover the most spectacular gold mine of F-Commerce materials ever created, this book is a unique collection to help you become a master of F-Commerce. This book is your ultimate resource for F-Commerce. Here you will find the most up-to-date information, analysis, background and everything you need to know. In easy to read chapters, with extensive references and links to get you to know all there is to know about F-Commerce right away. A quick look inside: Social commerce, Facebook, Groupon, LivingSocial, ShopSocially, BuyWithMe, Etsy, StuffBuff, CafePress, Kactoos, Electronic commerce, Social shopping, Social network, Web 2.0, The Cluetrain Manifesto, Enterprise social networking, Followmy.tv, Social networking potential, Assortative mixing, At Home day, Jay Baer, Barabasi-Albert model, Bix.com, Blomap, Bridge (interpersonal), Bring Light, Ronald Stuart Burt, Business and employment co-operative, Business ecosystem, Canal Contemporaneo, CAPA-alpha, Chris Heuer, Cisco Eos, City network, Citysocialising, Colalife, Collaboration graph, Collaborative consumption, Collaborative finance, Commonground (social network), Community recognition, Complex contagion, Consequential strangers, Coolspotters, CUNY Academic Commons, Distributed social network, DJ Tutor, EFactor.com, EgoNet, Entrepreneurial network, Erdo s number, Erdo s-Bacon number, European Women's Management Development, Expatica, Fab (social network), File sharing, First Tuesday (networking forum), Fremont Arts Council, Friend of a friend, Friendship paradox, Galaxy chat, Gender and social capital, Geosocial networking, Giant Global Graph, Gnip, Gnomedex (conference), Keith Hampton, Helping Angels, Hookt, Hub Culture, Information Routing Group, Interlac (APA), Interlock diagram, International Network for Social Network Analysis, iTunes Ping, Jewish geography, Katz centrality, Koofers, Krackhardt E/I Ratio, Ladies who lunch, Lateral communication, Lateral diffusion, Lateral media, Learnhub, Let's Adopt, LinkExpats, Little People of Canada, Lost Zombies, Mahara (software), The Mix Network, Mobikade, Mobile Monday, Mobile social address book, Mobimii, Myzerr, Amber Naslund, Net-Map Toolbox, Nirvino, MOSH, Norwescon, Online learning community, Open Salon, Opie Gets Laid, Organizational network analysis, Penny Arcade Expo, Person-to-person lending, Personal knowledge networking, Personal Network, PicDial, RadCon, List of social network researchers, Rhizome (philosophy)...and Much, Much More! This book explains in-depth the real drivers and workings of F-Commerce. It reduces the risk of your technology, time and resources investment decisions by enabling you to compare your understanding of F-Commerce with the objectivity of experienced professionals - Grab your copy now, while you still can. Memory forensics provides cutting edge technology to help investigate digital attacks Memory forensics is the art of analyzing computer memory (RAM) to solve digital crimes. As a follow-up to the best seller Malware Analyst's Cookbook, experts in the fields of malware, security, and digital forensics bring you a step-by-step guide to memory forensics—now the most sought after skill in the digital forensics and incident response fields. Beginning with introductory concepts and moving toward the advanced, The Art of Memory Forensics: Detecting Malware and Threats in Windows, Linux, and Mac Memory is based on a five day training course that the authors have presented to hundreds of students. It is the only book on the market that focuses exclusively on memory forensics and how to deploy such techniques properly. Discover memory forensics techniques: How volatile memory analysis improves digital investigations Proper investigative steps for detecting stealth malware and advanced threats How to use free, open source tools for conducting thorough memory forensics Ways to acquire memory from suspect systems in a forensically sound manner The next era of malware and security breaches are more sophisticated and targeted, and the volatile memory of a computer is often overlooked or destroyed as part of the incident response process. The Art of Memory Forensics explains the latest technological innovations in digital forensics to help bridge this gap. It covers the most popular and recently released versions of Windows, Linux, and Mac, including both the 32 and 64-bit editions.

XML -- the new standard for creating interactive, cutting-edge Internet content -- promises to be an excellent bridge between differing technologies that are crowding for online attention. XML, which stands for eXtensible Markup Language, combines the dynamic power of SGML with the networking strengths of HTML in one new package that's compatible with a variety of programming languages, Web data formats, and Internet protocols. In short, it's the greatest invention since pizza. Cut to the heart of XML's robust tools and open standards with XML For Dummies Quick Reference, simply the best and most effective one-volume guide to XML. Here, you discover all the tips and tricks you

need to create your own markup language that works any time, anywhere, on the Web. Get fast answers on what you need to know, when you need to know it, with XML For Dummies Quick Reference. Plus, the book's compact, alphabetical design and lay-flat binding make it the perfect desktop companion.

"This is an excellent resource, highly recommended for new and seasoned educators at every level." --Nursing Education Perspectives Health information technology is now the top priority for improving nursing and health care by informing clinical care, interconnecting clinicians, personalizing care, and improving population health at large. This book presents a broad range of cutting-edge teaching technologies and a detailed overview of teaching and learning pedagogical concepts that are relevant across a variety of teaching environments. Helpful to both new and seasoned educators, these "must-know" strategies allow faculty to keep pace with the rapidly changing digital world. The book helps to guide faculty in making thoughtful, informed decisions on how and where to integrate technology into learning environments. A major feature of this book is the Integrated Learning Triangle for Teaching with Technologies, a faculty tool to help determine if and how specific technologies can promote student learning. Other important chapter pedagogy includes best teaching practices, teaching and learning self-assessment tools, useful tips for faculty such as "making teaching easier," and reflective questions and activities for the reader. Key Topics: Using cutting-edge technologies as tools for "active learning," such as automated response systems, clickers, podcasts, blogs, wikis, web-based modules, and more Expanding faculty and student technology skills and information literacy—a critical competency in all nursing programs Using the Internet and digital videos to help bridge the classroom with the clinical setting Reflecting on how technology impacts current communication systems Incorporating simulation into students' clinical learning experiences Promoting self-directed, lifelong learning through health information technology

E-commerce. Some businesses have enjoyed tremendous success, while others that have been in it a while wonder why it's not working as well as they had anticipated. Some businesses think they should be in it, but don't know where to start. Others think all you need is a URL and a Web site and you're in business. E-commerce encompasses all aspects of buying and selling online. That necessitates several Internet technologies, including enterprise resource planning, electronic-procurement and payment transaction processing, Web site design, EDI and XML, networking protocols, and security. E-commerce is where sales and marketing and IT meet. Each group needs to know something about the other's side of the business to do business online successfully. E-Commerce For Dummies helps bridge the gap between technical and sales with: Explanations of both business strategy and technology A comprehensive overview of the diverse areas of e-commerce, including business-to-business (B2B) and business-to-consumer (B2C). Case studies that show real-world examples of what strategies are succeeding and what strategies are failing The authors include Greg Holden, the e-Marketplace columnist for CNET and bestselling author of Starting an Online Business For Dummies, and two prominent analysts from the e-commerce division of IDC, one of the premier technology and business forecasting companies in the world. They provide guidance to help businesses just entering the e-commerce and companies that want to boost their e-commerce sales, including information on: Marketing and competing in Cyberspace Planning your storefront Processing and fulfilling online transactions Dealing with the back office, including managing the supply chain and setting up distribution and fulfillment systems With online sales increasing at a phenomenal rate, established "brick and mortar" firms as well as entrepreneurs are realizing that e-commerce represents a tremendous opportunity. E-Commerce For Dummies helps businesses seize that opportunity and get down to business—online business—fast.

Explore the foundational components of VMware NSX About This Book Install, manage, monitor and configure your NSX deployment. Understand VMware NSX's components and discover best practices to help you manage VMware NSX A step by step guide that will help you elevate your skills in deploying NSX to your environment Who This Book Is For The book is intended for network and system administrators that have hands on experience with VMware vSphere suite of products and would like to learn more about software defined networking and implementation of NSX. The readers are also expected to have basic networking knowledge and aware of basic switching and routing fundamentals. What You Will Learn Understand software-defined networks Deploy and configure VXLAN-enabled logical switches Secure your environment using Distributed Firewall and Data Security Configure third-party services in NSX Manage, configure, and deploy edge gateway services Perform various Edge operations including configuring CA certificates Explore the different monitoring options to check their traffic flow In Detail VMware NSX is a platform for the software-defined data center. It allows complex networking topologies to be deployed programmatically in seconds. SDNs allow ease of deployment, management, and automation in deploying and maintaining new networks while reducing and in some cases completely eliminating the need to deploy traditional networks. The book allows you a thorough understanding of implementing Software defined networks using VMware's NSX. You will come across the best practices for installing and configuring NSX to setup your environment. Then you will get a brief overview of the NSX Core Components NSX's basic architecture. Once you are familiar with everything, you will get to know how to deploy various NSX features. Furthermore, you will understand how to manage and monitor NSX and its associated services and features. In addition to this, you will also explore the best practices for NSX deployments. By the end of the book, you will be able to deploy VMware NSX in your own environment with ease. This book can come handy if you are preparing for VMware NSX certification. Style and approach This is an easy-to-follow guide with tested configuration steps to get you up and running quickly. This book covers the nitty-gritty of installing, configuring, managing, and monitoring VMware NSX.

The present volume provides a comprehensive resource for practitioners and researchers alike—both those new to the field as well as those who already have some experience. The work covers Social Network Analysis theory and methods with a focus on current applications and case studies applied in various domains such as mobile networks, security, machine learning and health. With the increasing popularity of Web 2.0, social media has become a widely used

communication platform. Parallel to this development, Social Network Analysis gained in importance as a research field, while opening up many opportunities in different application domains. Forming a bridge between theory and applications makes this work appealing to both academics and practitioners as well as graduate students.

Discusses such threats as denial of service attacks, viruses, and Web site defacement, covering detection, prevention, and disaster recovery procedures.

Build customized themes to make your Moodle courses engaging and interactive
About This Book* Leverage the power of Moodle 3 to create interactive and engaging themes for your courses* Experience and integrate the power of Bootstrap and CSS into your Moodle app* Implement your plans with illustrative examples to become a top notch designer
Who This Book Is For
If you are a Moodle administrator, developer, or designer and wish to enhance your Moodle site to make it visually attractive, then this book is for you. You should be familiar with the basics of PHP programming, and some familiarity with web design techniques such as HTML and CSS would be helpful.
What you will learn* Plan a Moodle theme from scratch* Install a Moodle theme in different OS and change Moodle's theme settings* Add your own customized logo and test your changes in several web browsers* Customize the Moodle site to fit in with other elements of your website* Create a design mock-up using graphics software* Slice and dice your design mock-up and create your graphic elements* Create themes that you can share with the Moodle community
In Detail
Theming is one of the main features of Moodle, and it can be used to customize your online courses and make them look exactly how you want them to. If you have been looking for a book that will help you develop Moodle Themes that you are proud of, and that your students would enjoy, then this is the book for you.
We start off by introducing Moodle 3, explaining what it is, how it works, and what tools you might need to create a stunning Moodle theme. We then show you how to choose and change pre-installed Moodle theme in detailed steps, and explain what Moodle themes are and how they work. Next we show you how to change an existing theme and test the changes that you have made.
From planning theme creation through to slicing and dicing and more advanced Moodle theming processes, this book is your one-stop guide to creating your own Moodle 3 theme.

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