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OpenStack Cloud Application Development - Scott Adkins 2015-11-17
Leverage the power of OpenStack to develop scalable applications with no vendor lock-in OpenStack Cloud Application Development is a fast-paced, professional book for OpenStack developers, delivering comprehensive guidance without wasting time on development fundamentals. Written by experts in the OpenStack community from Infoblox, Gigaspaces, GoDaddy, and Comcast, this book shows you how to work effectively and efficiently within the OpenStack platform to develop large, scalable applications without worrying about underlying hardware. Follow along with an OpenStack build that illustrates how and where each technology comes into play, as you learn expert tips and best practices that make your product stronger. Coverage includes OpenStack service primitives, networking within the OpenStack Ecosystem, deployment of Virtualized Network Functions for Enterprises, containers, data protection, and much more. If you need to get on board quickly, this professional book is your ideal roadmap to OpenStack development. Understand all aspects of OpenStack technologies Follow an example build to drill down into critical elements Learn the OpenStack best practices and insider tips Leverage the full capability of IaaS at a professional pace OpenStack is supported by dozens of major technology companies, compatible with Amazon Web Services, and can be used alongside or on top of VMWare vSphere and other similar technologies. It frees developers from the confines of hardware and vendor lock-in while providing a reliable, fast, and easy platform for developing scalable cloud applications. OpenStack Cloud Application Development is an expert-led guide to getting the most out of OpenStack, designed specifically for the professional developer.

Handbook of Research on Telecommunications Planning and Management for Business - Lee, In 2009-03-31
"This book provides original, in-depth, and innovative articles on telecommunications policy, management, and business applications"--Provided by publisher.

Communicate to Influence: How to Inspire Your Audience to Action - Ben Decker 2015-03-27
"The gold standard for communication training programs." —USA Today Business communication sucks. At each meeting and presentation, we are inundated with information, leaving us thirsting for inspiration. Sure, we will check off an action item because we have to . . . but what if we were actually inspired to do something? What if we were so moved that we wanted to do it? Leaders must earn the license to lead. Not by expertise, authority, or title alone, but by influence. In Communicate to Influence, you will learn the secrets of the Decker Method—a framework that has been perfected over the past 36 years. Ben and Kelly Decker add fresh insights to these proven principles so that you can ignite change and inspire action. Discover: The Five White Lies of Communicating: learn which barriers prevent you from getting better The

Communicator's Roadmap: use a tool to visually chart what type of communication experience you create The Behaviors of Trust: align what you say with how you say it to better connect with your audience The Decker Grid: shift your message from self-centered, all about me content to relevant, audience-centered content that drives action You are called to communicate well. Not only on the main stage, under bright lights, but every time you speak with your colleagues, your clients, and other stakeholders. It's time to learn how. Stop informing. Start inspiring. BEN DECKER & KELLY DECKER are the leading experts in the field of business communication. They consult on messaging, cultivate executive presence among the leadership of Fortune 500companies and startups alike, and regularly deliver keynotes to large audiences. Together, they run Decker Communications, a global firm that trains and coaches tens of thousands of executives a year. Ben and Kelly live in the San Francisco Bay Area, where they constantly test and refine communication techniques with their most demanding audience, their three boys.

Fundamentals of Cloud Computing - Dr. Arun Singh Chouhan, Bipin Pandey , Vishwas Srivastava 2020-01-01
Cloud Computing makes it possible for end-users to make better use of equipment and technologies used in Information Technology and software industries so that they can make use of the resources they want and pay only for them. The Internet-based computing system can be characterized by many remote servers that allow shared data processing companies, centralized information storage, and online access to services or resources. The term 'cloud computing' is relatively recent. But, since 1996, when Hotmail and other web-based emails became more common, we have not been aware of the internet.

DevNet Associate DEVASC 200-901 Official Certification Guide - Chris Jackson 2020-05-25
DevNet Associate DEVASC 200-901 Official Certification Guide is Cisco's official, comprehensive self-study resource for Cisco's DEVASC 200-901 exam: your pathway to the DevNet Associate Certification demonstrating your knowledge of application development and automation on Cisco platforms. Written by Cisco experts based on Cisco's own internal training, it clearly explains the value of each technique, presents realistic use cases, introduces solution components, illuminates their inner workings, and shows how to execute on what you've learned in practice. Designed for all Cisco DevNet Associate candidates, it covers every DEVASC 200-901 objective concisely and logically, with extensive teaching features designed to promote retention and understanding. You'll find: Pre-chapter quizzes to assess knowledge upfront and focus your study more efficiently Foundation topics sections that explain concepts and configurations, and link theory to practice Key topics sections calling attention to every figure, table, and list you must know Exam Preparation sections with additional chapter review features Final preparation chapter providing tools and a complete final study plan A customizable practice test library This guide offers comprehensive, up-to-date coverage of all DEVASC 200-901 topics related to: Software development and design Understanding and using APIs Cisco platforms and development Application deployment and security Infrastructure and automation Network fundamentals

Security+ Guide to Network Security Fundamentals - Mark Ciampa 2012-07-27
Reflecting the latest trends and developments from the information security field, best-selling Security+ Guide to Network Security Fundamentals, Fourth Edition, provides a complete introduction to practical network and computer security and maps to the CompTIA Security+ SY0-301 Certification Exam. The text covers the fundamentals of network security, including compliance and operational security; threats and vulnerabilities; application, data, and host security; access control and identity management; and cryptography. The updated edition includes new topics, such as psychological approaches to social engineering attacks, Web application attacks, penetration testing, data loss prevention, cloud computing security, and application programming development security. The new edition features activities that link to the Information Security Community Site, which offers video lectures, podcats, discussion boards, additional hands-on activities and more to provide a wealth of resources and up-to-the minute information.

Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The Definitive Guide to AWS Infrastructure Automation - Bradley Campbell 2019-12-06
Discover the pillars of AWS infrastructure automation, starting with API-driven infrastructure concepts and its immediate benefits such as increased agility, automation of the infrastructure life cycle, and flexibility in experimenting with new architectures. With this base established, the book discusses infrastructure-as-code concepts in a general form, establishing principled outcomes such as security and reproducibility. Inescapably, we delve into how these concepts enable and underpin the DevOps movement. The Definitive Guide to AWS Infrastructure Automation begins by discussing services and tools that enable infrastructure-as-code solutions; first stop: AWS's CloudFormation service. You'll then cover the ever-expanding ecosystem of tooling emerging in this space, including CloudFormation wrappers such as Troposphere and orchestrators such as Sceptre, to completely independent third-party tools such as Terraform and Pulumi. As a bonus, you'll also work with AWS' newly-released CDK (Cloud Development Kit). You'll then look at how to implement modular, robust, and extensible solutions across a few examples -- in the process building out each solution with several different tools to compare and contrast the strengths and weaknesses of each. By the end of the journey, you will have gained a wide knowledge of both the AWS-provided and third-party ecosystem of infrastructure-as-code/provisioning tools, and the strengths and weaknesses of each. You'll possess a mental framework for how to craft an infrastructure-as-code solution to solve future problems based on examples discussed throughout the book. You'll also have a demonstrable understanding of the hands-on operation of each tool, situational appropriateness of each tool, and how to leverage the tool day to day. What You Will Learn Discover the technological and organizational benefits to infrastructure-as-code solutions Examine the overall landscape of infrastructure-as-code tooling and solutions available to consumers of AWS services See the strengths and weaknesses of these tools relative to one another as examined through hands-on implementation of several solutions Gain hands-on experience, best practices, and tips and tricks learned through several years' real-world experience delivering solutions using these very tools in a wide variety of scenarios Engineer solid solutions that leave room for new requirements and changes without requiring needless refactoring Who This Book Is For DevOps engineers, cloud engineers and architects focused on the AWS ecosystem, software engineers/developers working within the AWS ecosystem, and engineering leaders looking for best practices.

InfoWorld - 2005-06-06
InfoWorld is targeted to Senior IT professionals. Content is segmented into Channels and Topic Centers. InfoWorld also celebrates people, companies, and projects.

Hands-On Linux Administration on Azure - Kamesh Ganesan 2020-02-20
Develop a solid understanding of cloud computing, Linux virtual machine, container virtualization, and other fundamental concepts to create and manage your Linux workload in Azure Key FeaturesDeploy and manage virtual machines in the Azure environmentExplore open source tools to integrate automation and orchestrationImplement Linux features to create and manage containersBook Description Thanks to its flexibility in delivering scalable cloud solutions, Microsoft Azure is a suitable platform for managing all your workloads. You can use it to implement Linux virtual machines and containers, and to create applications in open source languages with open APIs. This Linux administration book first takes you through the fundamentals of Linux and Azure to prepare you for the more advanced Linux features in later chapters. With the help of real-world examples, you'll learn how to deploy virtual machines (VMs) in Azure, expand their capabilities, and manage them efficiently. You will manage containers and use them to run applications reliably, and in the concluding chapter, you'll explore troubleshooting techniques using a variety of open source tools. By the end of this book, you'll be proficient in administering Linux on Azure and

leveraging the tools required for deployment. What you will learnGrasp the fundamentals of virtualization and cloud computingUnderstand file hierarchy and mount new filesystemsMaintain the life cycle of your application in Azure Kubernetes ServiceManage resources with the Azure CLI and PowerShellManage users, groups, and filesystem permissionsUse Azure Resource Manager to redeploy virtual machinesImplement configuration management to configure a VM correctlyBuild a container using DockerWho this book is for If you are a Linux administrator or a Microsoft professional looking to deploy and manage your workload in Azure, this book is for you. Although not necessary, knowledge of Linux and Azure will assist with understanding core concepts.

High Availability IT Services - Terry Critchley 2014-12-17
This book starts with the basic premise that a service is comprised of the 3Ps-products, processes, and people. Moreover, these entities and their sub-entities interlink to support the services that end users require to run and support a business. This widens the scope of any availability design far beyond hardware and software. It also increases t
IBM PowerVC Version 2.0 Introduction and Configuration - Scott Vetter 2021-05-26
IBM® Power Virtualization Center (IBM® PowerVCTM) is an advanced enterprise virtualization management offering for IBM Power Systems. This IBM Redbooks® publication introduces IBM PowerVC and helps you understand its functions, planning, installation, and setup. It also shows how IBM PowerVC can integrate with systems management tools such as Ansible or Terraform and that it also integrates well into a OpenShift container environment. IBM PowerVC Version 2.0.0 supports both large and small deployments, either by managing IBM PowerVM® that is controlled by the Hardware Management Console (HMC), or by IBM PowerVM NovaLink. With this capability, IBM PowerVC can manage IBM AIX®, IBM i, and Linux workloads that run on IBM POWER® hardware. IBM PowerVC is available as a Standard Edition, or as a Private Cloud Edition. IBM PowerVC includes the following features and benefits: Virtual image capture, import, export, deployment, and management

Policy-based virtual machine (VM) placement to improve server usage Snapshots and cloning of VMs or volumes for backup or testing purposes Support of advanced storage capabilities such as IBM SVC vdisk mirroring of IBM Global Mirror Management of real-time optimization and VM resilience to increase productivity VM Mobility with placement policies to reduce the burden on IT staff in a simple-to-install and easy-to-use graphical user interface (GUI) Automated Simplified Remote Restart for improved availability of VMs ifor when a host is down Role-based security policies to ensure a secure environment for common tasks The ability to enable an administrator to enable Dynamic Resource Optimization on a schedule IBM PowerVC Private Cloud Edition includes all of the IBM PowerVC Standard Edition features and enhancements: A self-service portal that allows the provisioning of new VMs without direct system administrator intervention. There is an option for policy approvals for the requests that are received from the self-service portal. Pre-built deploy templates that are set up by the cloud administrator that simplify the deployment of VMs by the cloud user. Cloud management policies that simplify management of cloud deployments. Metering data that can be used for chargeback. This publication is for experienced users of IBM PowerVM and other virtualization solutions who want to understand and implement the next generation of enterprise virtualization management for Power Systems. Unless stated otherwise, the content of this publication refers to IBM PowerVC Version 2.0.0.

Computer Science and Convergence - James (Jong Hyuk) Park 2011-12-07
Computer Science and Convergence is proceedings of the 3rd FTRA International Conference on Computer Science and its Applications (CSA-11) and The 2011 FTRA World Convergence Conference (FTRA WCC 2011). The topics of CSA and WCC cover the current hot topics satisfying the world-wide ever-changing needs. CSA-11 will be the most comprehensive conference focused on the various aspects of advances in computer science and its applications and will provide an opportunity for academic and industry professionals to discuss the latest issues and progress in the area of CSA. In addition, the conference will publish high

quality papers which are closely related to the various theories and practical applications in CSA. Furthermore, we expect that the conference and its publications will be a trigger for further related research and technology improvements in this important subject. The main scope of CSA-11 is as follows: - Mobile and ubiquitous computing - Dependable, reliable and autonomic computing - Security and trust management - Multimedia systems and services - Networking and communications - Database and data mining - Game and software engineering - Grid, cloud and scalable computing - Embedded system and software - Artificial intelligence - Distributed and parallel algorithms - Web and internet computing - IT policy and business management WCC-11 is a major conference for scientists, engineers, and practitioners throughout the world to present the latest research, results, ideas, developments and applications in all areas of convergence technologies. The main scope of WCC-11 is as follows: - Cryptography and Security for Converged environments - Wireless sensor network for Converged environments - Multimedia for Converged environments - Advanced Vehicular Communications Technology for Converged environments - Human centric computing, P2P, Grid and Cloud computing for Converged environments - U-Healthcare for Converged environments - Strategic Security Management for Industrial Technology - Advances in Artificial Intelligence and Surveillance Systems

Cisco Asa Firewall Fundamentals - Harris Andrea 2014-04-08 Covers the most important and common configuration scenarios and features which will put you on track to start implementing ASA firewalls right away.

Advanced Platform Development with Kubernetes - Craig Johnston 2020-10-05 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 container-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, CICD 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.

Introduction to IP Address Management - Timothy Rooney 2011-02-09

A step-by-step guide to managing critical technologies of today's converged services IP networks Effective IP Address Management (IPAM) has become crucial to maintaining high-performing IP services such as data, video, and voice over IP. This book provides a concise introduction to the three core IPAM networking technologies—IPv4 and IPv6 addressing, Dynamic Host Configuration Protocol (DHCP), and Domain Name System (DNS)—as well as IPAM practice and techniques needed to manage them cohesively. The book begins with a basic overview of IP networking, including a discussion of protocol layering, addressing, and routing. After a review of the IPAM technologies, the book introduces the major components, motivation, benefits, and basic approaches of IPAM. Emphasizing the necessity of a disciplined "network management" approach to IPAM, the subsequent chapters enable you to: Understand IPAM practices, including managing your IP address inventory and tracking of address transactions (such as allocation and splitting address space, discovering network occupancy, and managing faults and performance) Weigh the costs and justifications for properly implementing an IPAM strategy Use various approaches to automating IPAM functions through workflow Learn about IPv4-IPv6 co-existence technologies and approaches Assess security issues with DHCP network-access control approaches and DNS vulnerabilities and mitigation including DNSSEC Evaluate the business case for IPAM, which includes derivation of the business case cost basis, identification of savings when using an IP address management system, associated costs, and finally net results Introduction to IP Address Management concludes with a business case example, providing a real-world financial perspective of the costs and benefits of implementing an IP address management solution. No other book covers all these subjects cohesively from a network management perspective, which makes this volume imperative for manager-level networking professionals who need a broad understanding of both the technical and business aspects of IPAM. In addition, technologists interested in IP networking and address management will find this book valuable. To obtain a free copy of the IPAM Configuration Guide please send an email to:

ieeeproposals@wiley.com

Smart Grid and Internet of Things - 2021
This volume, SGIoT 2020, constitutes the refereed proceedings of the 4th EAI International Conference on Smart Grid and Internet of Things, SGIoT 2020, held in TaiChung, Taiwan, in December 2020. The IoT-driven smart grid is currently a hot area of research boosted by the global need to improve electricity access, economic growth of emerging countries, and the worldwide power plant capacity additions. The 40 papers presented were reviewed and selected from 159 submissions and present broad range of topics in wireless sensor, vehicular ad hoc networks, security, blockchain, and deep learning.

Research in Attacks, Intrusions, and Defenses - Michael Bailey 2018-09-06
This book constitutes the refereed proceedings of the 21st International Symposium on Research in Attacks, Intrusions, and Defenses, RAID 2018, held in Heraklion, Crete, Greece, in September 2018. The 32 revised full papers were carefully reviewed and selected from 145 submissions. They are organized in the following topical sections: attacks; intrusion detection and prevention; DDoS attacks; passwords, accounts, and users; machine learning for computer security; hardware-assisted security; software security; malware; IoT/CPS security; security measurements; and defenses.

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Information and Communication Technology for Intelligent Systems - Tomonobu Senjyu 2021-10-30
This book gathers papers addressing state-of-the-art research in all areas of information and communication technologies and their applications in intelligent computing, cloud storage, data mining and software analysis. It presents the outcomes of the Fourth International Conference on Information and Communication Technology for Intelligent Systems, which was held in Ahmedabad, India. Divided into two volumes, the book discusses the fundamentals of various data analysis techniques and algorithms, making it a valuable resource for researchers and

practitioners alike.

Learning CoreDNS - John Belamaric 2019-08-30
Until recently, learning CoreDNS required reading the code or combing through the skimpy documentation on the website. No longer. With this practical book, developers and operators working with Docker or Linux containers will learn how to use this standard DNS server with Kubernetes. John Belamaric, senior staff software engineer at Google, and Cricket Liu, chief DNS architect at Infoblox, show you how to configure CoreDNS using real-world configuration examples to achieve specific purposes. You'll learn the basics of DNS, including how it functions as a location broker in container environments and how it ties into Kubernetes. Dive into DNS theory: the DNS namespace, domain names, domains, and zones Learn how to configure your CoreDNS server Manage and serve basic and advanced zone data with CoreDNS Configure CoreDNS service discovery with etcd and Kubernetes Learn one of the most common use cases for CoreDNS: the integration with Kubernetes Manipulate queries and responses as they flow through the plug-in chain Monitor and troubleshoot the availability and performance of your DNS service Build custom versions of CoreDNS and write your own plug-ins
Dns & Bind (covers Bind 9) - PAUL. ALBITZ 2015

Extraterrestrial Altruism - Douglas A. Vakoch 2013-09-14
Extraterrestrial Altruism examines a basic assumption of the Search for Extraterrestrial Intelligence (SETI): that extraterrestrials will be transmitting messages to us for our benefit. This question of whether extraterrestrials will be altruistic has become increasingly important in recent years as SETI scientists have begun contemplating transmissions from Earth to make contact. Technological civilizations that transmit signals for the benefit of others, but with no immediate gain for themselves, certainly seem to be altruistic. But does this make biological sense? Should we expect altruism to evolve throughout the cosmos, or is this only wishful thinking? Is it dangerous to send messages to other worlds, as Stephen Hawking has suggested, or might humankind benefit from an exchange with intelligence elsewhere in the galaxy? Would extraterrestrial societies be based on different ethical principles, or would we see commonalities with Earthly notions of morality? Extraterrestrial Altruism explores these and related questions about the motivations of civilizations beyond Earth, providing new insights that are critical for SETI. Chapters are authored by leading scholars from diverse disciplines—anthropology, astronomy, biology, chemistry, computer science, cosmology, engineering, history of science, law, philosophy, psychology, public policy, and sociology. The book is carefully edited by Douglas Vakoch, Director of Interstellar Message Composition at the SETI Institute and professor of clinical psychology at the California Institute of Integral Studies. The Foreword is by Frank Drake. This interdisciplinary book will benefit everybody trying to understand whether evolution and ethics are unique to Earth, or whether they are built into the fabric of the universe.

Building Data Centers with VXLAN BGP EVPN - David Jansen 2017-04-04
The complete guide to building and managing next-generation data center network fabrics with VXLAN and BGP EVPN This is the only comprehensive guide and deployment reference for building flexible data center network fabrics with VXLAN and BGP EVPN technologies. Writing for experienced network professionals, three leading Cisco experts address everything from standards and protocols to functions, configurations, and operations. The authors first explain why and how data center fabrics are evolving, and introduce Cisco's fabric journey. Next, they review key switch roles, essential data center network fabric terminology, and core concepts such as network attributes, control plane details, and the associated data plane encapsulation. Building on this foundation, they provide a deep dive into fabric semantics, efficient creation and addressing of the underlay, multi-tenancy, control and data plane interaction, forwarding flows, external interconnectivity, and service appliance deployments. You'll find detailed tutorials, descriptions, and packet flows that can easily be adapted to accommodate customized deployments. This guide concludes with a full section on fabric management, introducing multiple opportunities to

simplify, automate, and orchestrate data center network fabrics. Learn how changing data center requirements have driven the evolution to overlays, evolved control planes, and VXLAN BGP EVPN spine-leaf fabrics Discover why VXLAN BGP EVPN fabrics are so scalable, resilient, and elastic Implement enhanced unicast and multicast forwarding of tenant traffic over the VXLAN BGP EVPN fabric Build fabric underlays to efficiently transport uni- and multi-destination traffic Connect the fabric externally via Layer 3 (VRF-Lite, LISP, MPLS L3VPN) and Layer 2 (VPC) Choose your most appropriate Multi-POD, multifabric, and Data Center Interconnect (DCI) options Integrate Layer 4-7 services into the fabric, including load balancers and firewalls Manage fabrics with POAP-based day-0 provisioning, incremental day 0.5 configuration, overlay day-1 configuration, or day-2 operations

Software Defined Networks - Paul Goransson 2016-10-25
Software Defined Networks: A Comprehensive Approach, Second Edition provides in-depth coverage of the technologies collectively known as Software Defined Networking (SDN). The book shows how to explain to business decision-makers the benefits and risks in shifting parts of a network to the SDN model, when to integrate SDN technologies in a network, and how to develop or acquire SDN applications. In addition, the book emphasizes the parts of the technology that encourage opening up the network, providing treatment for alternative approaches to SDN that expand the definition of SDN as networking vendors adopt traits of SDN to their existing solutions. Since the first edition was published, the SDN market has matured, and is being gradually integrated and morphed into something more compatible with mainstream networking vendors. This book reflects these changes, with coverage of the OpenDaylight controller and its support for multiple southbound protocols, the Inclusion of NETCONF in discussions on controllers and devices, expanded coverage of NFV, and updated coverage of the latest approved version (1.5.1) of the OpenFlow specification. Contains expanded coverage of controllers Includes a new chapter on NETCONF and SDN Presents expanded coverage of SDN in optical networks Provides support materials for use in computer networking courses

DNS and BIND on IPv6 - Cricket Liu 2011-05-09
If you're preparing to roll out IPv6 on your network, this concise book provides the essentials you need to support this protocol with DNS. You'll learn how DNS was extended to accommodate IPv6 addresses, and how you can configure a BIND name server to run on the network. This book also features methods for troubleshooting problems with IPv6 forward- and reverse-mapping, and techniques for helping islands of IPv6 clients communicate with IPv4 resources. Topics include: DNS and IPv6—Learn the structure and representation of IPv6 addresses, and the syntaxes of AAAA and PTR records in the ip6.arpa IPv6 reverse-mapping zone BIND on IPv6—Use IPv6 addresses and networks in ACLs, and register and delegate to IPv6-speaking name servers Resolver Configuration—Configure popular stub resolvers (Linux/Unix, MacOS X, and Windows) to query IPv6-speaking name servers DNS64—Learn about the transition technology that allows clients with IPv6-only network stacks to communicate with IPv4 servers Troubleshooting—Use the nslookup and dig troubleshooting tools to look up the IPv6 addresses of a domain name, or reverse-map an IPv6 address to a domain name

Powering a Learning Society During an Age of Disruption - Sungsup Ra 2021
This open access book presents contemporary perspectives on the role of a learning society from the lens of leading practitioners, experts from universities, governments, and industry leaders. The think pieces argue for a learning society as a major driver of change with far-reaching influence on learning to serve the needs of economies and societies. The book is a testimonial to the importance of learning communities. It highlights the pivotal role that can be played by non-traditional actors such as city and urban planners, citizens, transport professionals, and technology companies. This collection seeks to contribute to the discourse on strengthening the fabric of a learning society crucial for future economic and social development, particularly in the aftermath of the coronavirus disease.

IPv6 Address Planning - Tom Coffeen 2014-11-08
If you're ready to join the move to IPv6, this comprehensive guide gets

you started by showing you how to create an effective IPv6 address plan. In three example-driven sections—preparation, design, and maintenance—you'll learn principles and best practices for designing, deploying, and maintaining an address plan far beyond what's possible with IPv4 networks. During the course of the book, you'll walk through the process of building a sample address plan for a fictional company. Enterprise IT network architects, engineers, and administrators will see firsthand how IPv6 provides opportunities for creating an operationally efficient plan that's scalable, flexible, extensible, manageable, and durable. Explore IPv6 addressing basics, including representation, structure, and types Manage risks and costs by using a three-phase approach for deploying IPv6 Dig into IPv6 subnetting methods and learn how they differ from IPv4 Determine the appropriate size and type of the IPv6 allocation you require Apply current network management tools to IPv6 Use IPv6 renumbering methods that enable greater network scale and easier integration Implement policies and practices to keep IPv6 addresses reachable

Migrating Applications to IPv6 - Dan York 2011-06-10
If IPv6 is to be adopted on a large scale, the applications running on desktop systems, laptops, and even mobile devices need to work just as well with this protocol as they do with IPv4. This concise book takes you beyond the network layer and helps you explore the issues you need to address if you are to successfully migrate your apps to IPv6. It's ideal for application developers, system/network architects, product managers, and others involved in moving your network to IPv6. Explore changes you need to make in your application's user interface Make sure your application is retrieving correct information from DNS Evaluate your app's ability to store and process both IPv6 and IPv4 addresses Determine if your app exposes or consumes APIs where there are IP address format dependencies Work with the network layer to ensure the transport of messages to and from your app Incorporate IPv6 testing into your plans, and use the correct IPv6 addresses in your documentation
Cloud Computing - Rajiv Chopra 2017-03-30
This overview of cloud computing in a "self-teaching" format, contains state-of-the art chapters with tips and insights about cloud computing, its architecture, applications, information on security and privacy, and numerous case studies. It includes questions for discussion and "Cloud Computing Lab Experiments" to help in mastering its complex services and technologies. Recent research shows that cloud computing will be worth billions of dollars in new investments. Organizations are flocking to the cloud services to benefit from the elasticity, self-services, resource abundance, ubiquity, responsiveness, and cost efficiencies that it offers. Many government and private universities have already migrated to the cloud. The next wave in computing technology—expected to usher in a new era—will be based on cloud computing. Features: * Explores the basic advancements in the field of cloud computing * Offers a practical, self-teaching approach with numerous case studies and lab experiments on installation, evaluation, security, and more * Includes material on ESXi, MS AZURE, Eucalyptus, and more.

Hands-On Guide to AgileOps - Navin Sabharwal 2021-12-11
Discover the best practices for transforming cloud and infrastructure operations by using Agile, Scrum, Kanban, Scrumban and Spotify models. This book will help you gain an in-depth understanding of these processes so that you can apply them to your own work. The book begins by offering an overview of current processes and methods used in IT Operations using ITIL and IT4IT. The Authors provide a background of the Agile, Scrum, Kanban, SaFe, Scrumban, and Spotify models used in software development. You'll then gain in-depth guidance and best practices to implement Agile in the Operations world. You'll see how Agile, Site Reliability Engineering and DevOps work in tandem to provide the foundation for modern day infrastructure and cloud operations. The book also offers a comparison of various agile processes and their suitability to the infrastructure and cloud operations world. After completing this is hands-on guide, you'll know how to adopt Agile, DevOps and SRE and select the most suitable processes for your organization to achieve higher reliability, agility and lower costs while running cloud and infrastructure operations. What You Will Learn Understand how cloud computing and microservices architecture are

changing operations dynamics Understand ITIL, IT4IT, and Lean Learn how Site Reliability Engineering, Agile and DevOps work in tandem Leverage Agile, Scrum, Kanban, Scrumban, and Spotify models to run cloud operations Use Site Reliability techniques along with Agile and DevOps Study the different agile frameworks (Spotify, SAFe, LeSS, DAD, Nexus), their purpose, benefits and implementation approaches. Learn a step-by-step process to identify and implement these frameworks in your organization Who This Book is For Infrastructure architects, DevOps architects, Agile practitioners, DevSecOps Experts, Product Managers/Scrum Masters, DevOps Engineers.

Practical IPv6 for Windows Administrators - Edward Horley 2014-02-28
Practical IPv6 for Windows Administrators is a handy guide to implementing IPv6 in a Microsoft Windows environment. This is the book you need if you are a Microsoft Windows Administrator confronted with IPv6 and in need of a quick resource to get up and going. The book covers the current state of IPv6 and its support in Microsoft Windows. It provides best-practices and other guidance toward successful implementation. This book is especially written with the goal of translating your current expertise in IPv4 into the new realm of IPv6. Special attention is given to dual-stack configurations, helping you to run IPv4 and IPv6 side-by-side and support both protocol versions during a transition period. Practical IPv6 for Windows Administrators is also a fast reference you can look at to get something done quickly. It covers IPv6 addressing, management of IPv6 from Powershell, Advanced Firewall configuration, and use of IPv6 in Hyper-V and virtual networking environments. You'll find practical examples showing how IPv6 integrates with all the standard tools you use for IPv4 today, tools like DNS and DHCP. You'll also find insider knowledge on IPv6 that can help avert stumbling points on the road to deployment. Provides a quick path from IPv4 expertise to IPv6 implementation Gives best-practices specific to Windows on IPv6 and dual stack networks Is chock full of practical examples showing how to manage IPv6 on Windows
Official Gazette of the United States Patent and Trademark Office - 2007

T Bytes Hybrid Cloud Infrastructure - ITShades.com 2021-01-05
This document brings together a set of latest data points and publicly available information relevant for Hybrid Cloud Infrastructure Industry. We are very excited to share this content and believe that readers will benefit from this periodic publication immensely.
Risks and Security of Internet and Systems - Nora Cuppens 2018-02-24
This book constitutes the revised selected papers from the 12th International Conference on Risk and Security of Internet and Systems, CRISIS 2017, held in Dinard, France, in September 2017.The 12 full papers and 5 short papers presented in this volume were carefully reviewed and selected from 42 submissions. They cover diverse research themes, ranging from classic topics, such as vulnerability analysis and classification; apps security; access control and filtering; cloud security; cyber-insurance and cyber threat intelligence; human-centric security and trust; and risk analysis.
ERS Information - 2000

Maritime Supply Chains - Thierry Vanelslander 2020-03-24
Maritime Supply Chains breaks the maritime chain into components, consistently relating them to the overall integrated supply chain. The book not only analyzes and provides solutions to frequently encountered problems and key operational issues, it also applies cutting-edge scientific techniques on the maritime supply chain. Sections consider shipping, ports and terminals, hinterland and the issues that intersect different parts of the chain. Readers will find discussions of the various actors at play and how they relate to the overall function of the supply chain. Finally, the book offers solutions to the most pressing problems, thus providing a unique, well-balanced account. Provides a comprehensive and integrative account of the maritime supply chain, from shipping, to port, to hinterland Cuts through the maritime supply chain to offer a transversal picture on how the chain functions Applies rigorous analytical techniques to give solutions to the most frequent and pressing challenges facing maritime supply chains Considers advances,

such as blockchain, that are set to transform maritime supply chains

The Deal - 2005-04

Federal Criminal Practice - Barry Boss 2019-11-01
This new edition of Federal Criminal Practice includes new and updated text and case law throughout the book. The highlights include expanded coverage of: Pretrial Release How to raise a constitutional challenge to the residual clause Removal Proceedings New Form: Waiver of Rights (Out of District Cases) (for use in waiver of identity hearings) Grand Jury Proceedings, specifically Custodian of Records issues Custodian's assertion of Fifth Amendment privilege Authentication and admissibility issues How to respond to the government's offer to provide a declaration that the custodian may sign in lieu of testifying Pretrial Discovery Whether district courts can issue sanctions for violation of discovery obligations not specifically imposed by Rule 16 Timing of disclosure of information that is both Jencks and Brady material An individual's expectation of privacy in the record of his physical movements, as captured through cell-site location information Guilty Plea Agreements and Plea Bargaining Substance and practical impact of the Sessions Memo (including a copy of the Memo) Enforceability of a broad swath of waivers commonly contained in standard form plea agreements and whether these waivers violate public policy Scope and enforceability of waivers of appeal – circuit by circuit review Sentencing Appellate court's discretion to vacate a sentence when the lower court miscalculated the Guidelines range Grounds for variation from the Guidelines under 18 U.S.C. §3553(a): In economic crime cases, when a significant enhancement based on monetary loss may overstate the seriousness of the crime; or When defendant faces a mandatory minimum for a separate offense that will require the court to impose a steep sentence Practical impact of the amendment to the commentary to §3E1.1 of the Guidelines, stating that "a defendant who makes a non-frivolous challenge to relevant conduct is not precluded for consideration for a reduction" under acceptance of responsibility. Career Offender Guidelines; the evolving definition of a "crime of violence" under the Armed Career Criminal Act; and how to challenge a "crime of violence" determination, depending on whether the instant offense was committed before or after 8/1/16 Modification or reduction: Conditions allowing for compassionate release

IPv6 Security - Scott Hogg 2008-12-11
IPv6 Security Protection measures for the next Internet Protocol As the world's networks migrate to the IPv6 protocol, networking professionals need a clearer understanding of the security risks, threats, and challenges this transition presents. In IPv6 Security, two of the world's leading Internet security practitioners review each potential security issue introduced by IPv6 networking and present today's best solutions. IPv6 Security offers guidance for avoiding security problems prior to widespread IPv6 deployment. The book covers every component of today's networks, identifying specific security deficiencies that occur within IPv6 environments and demonstrating how to combat them. The authors describe best practices for identifying and resolving weaknesses as you maintain a dual stack network. Then they describe the security mechanisms you need to implement as you migrate to an IPv6-only network. The authors survey the techniques hackers might use to try to breach your network, such as IPv6 network reconnaissance, address spoofing, traffic interception, denial of service, and tunnel injection. The authors also turn to Cisco® products and protection mechanisms. You learn how to use Cisco IOS® and ASA firewalls and ACLs to selectively filter IPv6 traffic. You also learn about securing hosts with Cisco Security Agent 6.0 and about securing a network with IOS routers and switches. Multiple examples are explained for Windows, Linux, FreeBSD, and Solaris hosts. The authors offer detailed examples that are consistent with today's best practices and easy to adapt to virtually any IPv6 environment. Scott Hogg, CCIE® No. 5133, is Director of Advanced Technology Services at Global Technology Resources, Inc. (GTRI). He is responsible for setting the company's technical direction and helping it create service offerings for emerging technologies such as IPv6. He is the Chair of the Rocky Mountain IPv6 Task Force. Eric Vyncke, Cisco Distinguished System Engineer, consults on security issues throughout

Europe. He has 20 years' experience in security and teaches security seminars as a guest professor at universities throughout Belgium. He also participates in the Internet Engineering Task Force (IETF) and has helped several organizations deploy IPv6 securely. Understand why IPv6 is already a latent threat in your IPv4-only network Plan ahead to avoid IPv6 security problems before widespread deployment Identify known areas of weakness in IPv6 security and the current state of attack tools and hacker skills Understand each high-level approach to securing IPv6 and learn when to use each Protect service provider networks, perimeters, LANs, and host/server connections Harden IPv6 network devices against attack Utilize IPsec in IPv6 environments Secure mobile IPv6 networks Secure transition mechanisms in use during the migration from IPv4 to IPv6 Monitor IPv6 security Understand the security implications of the IPv6 protocol, including issues related to ICMPv6 and the IPv6 header structure Protect your network against large-scale threats by using perimeter filtering techniques and service provider—focused security practices Understand the vulnerabilities that exist on IPv6 access networks and learn solutions for mitigating each This security book is part of the Cisco Press® Networking Technology Series. Security titles from Cisco Press help networking professionals secure critical data and resources, prevent and mitigate network attacks, and build end-to-end self-defending networks. Category: Networking: Security Covers: IPv6 Security

IBM PowerVC Version 1.3.2 Introduction and Configuration - Scott Vetter 2017-06-12

IBM® Power Virtualization Center (IBM® PowerVCTM) is an advanced, enterprise virtualization management offering for IBM Power SystemsTM. This IBM Redbooks® publication introduces IBM PowerVC and helps you understand its functions, planning, installation, and setup. IBM PowerVC Version 1.3.2 supports both large and small deployments, either by managing IBM PowerVM® that is controlled by the Hardware Management Console (HMC) by IBM PowerVM NovaLink, or by managing PowerKVM directly. With this capability, IBM PowerVC can manage IBM AIX®, IBM i, and Linux workloads that run on IBM POWER® hardware. IBM PowerVC is available as a Standard Edition, or as a Cloud PowerVC Manager edition. IBM PowerVC includes the following features and benefits: Virtual image capture, deployment, and management Policy-based virtual machine (VM) placement to improve use Management of real-time optimization and VM resilience to increase productivity VM Mobility with placement policies to reduce the burden on IT staff in a simple-to-install and easy-to-use graphical user interface (GUI) Role-based security policies to ensure a secure environment for common tasks The ability to enable an administrator to enable Dynamic Resource Optimization on a schedule IBM Cloud PowerVC Manager includes all of the IBM PowerVC Standard Edition features and adds: A Self-service portal that allows the provisioning of new VMs without direct system administrator intervention. There is an option for policy approvals for the requests that are received from the self-service portal. Pre-built deploy templates that are set up by the cloud administrator that simplify the deployment of VMs by the cloud user. Cloud management policies that simplify management of cloud deployments. Metering data that can be used for chargeback. This publication is for experienced users of IBM PowerVM and other virtualization solutions who want to understand and implement the next generation of enterprise virtualization management for Power Systems. Unless stated otherwise, the content of this publication refers to IBM PowerVC Version 1.3.2.