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VCP-DCV Official Cert Guide - John Davis
2020-06-20

VCP-DCV Official Cert Guide, Fourth Edition
helps you systematically prepare for your VCP-

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DCV 2019 exam by mastering all key exam objectives associated with vSphere v.6.7. Thoroughly updated for VMware's 2019 exam changes, it offers an exceptionally well-organized and efficient test-preparation system based on proven series elements and techniques. Chapter-opening Do I Know This Already? quizzes help you decide how much time you need to spend on each section, exam topic lists make referencing easy, and chapter-ending Exam Preparation Tasks help you drill on the key concepts you must know thoroughly. The companion website contains a powerful Pearson IT Certification Practice Test engine that enables you to focus on individual topic areas or take a complete, timed exam. The assessment engine tracks your performance and provides feedback on a module-by-module basis, laying out a complete assessment of your knowledge to help you focus your study where it is needed most. Leading VMware consultants, trainers, and data center experts John A. Davis, Steve Baca, and

Owen Thomas share preparation hints and test-taking tips, helping you identify areas of weakness and improve conceptual knowledge and hands-on skills. Material is presented concisely, focusing on promoting understanding and retention. Coverage includes: vSphere prerequisites Storage and network infrastructure (physical and virtual) vCenter Server features Clusters and virtual machines VMware product integration High availability solutions Securing vSphere Planning and performing vSphere installations Configuring vSphere (SSO and Virtual Networking) Monitoring resources VM configuration and performance Managing networking, storage, security, clusters, resources, vCenter Server, and VMs Well regarded for its detail, assessment features, comprehensive scenarios, and challenging review questions and exercises, this official study guide helps you master the concepts and techniques that will enable you to succeed on the exam the first time.

Routing Protocols Companion Guide - Cisco Networking Academy 2014

This course describes the architecture, components, and operations of routers, and explains the principles of routing and routing protocols. You learn how to configure a router for basic and advanced functionality. By the end of this course, you will be able to configure and troubleshoot routers and resolve common issues with RIPv1, RIPv2, EIGRP, and OSPF in both IPv4 and IPv6 networks. The Companion Guide is designed as a portable desk reference to use anytime, anywhere to reinforce the material from the course and organise your time. The book's features help you focus on important concepts to succeed in this course: Chapter objectives-Review core concepts by answering the focus questions listed at the beginning of each chapter. Key terms-Refer to the lists of networking vocabulary introduced and highlighted in context in each chapter. Glossary-Consult the comprehensive Glossary with more

than 150 terms. Summary of Activities and Labs-Maximise your study time with this complete list of all associated practice exercises at the end of each chapter. Check Your Understanding-Evaluate your readiness with the end-of-chapter questions that match the style of questions you see in the online course quizzes. The answer key explains each answer. How To-Look for this icon to study the steps you need to learn to perform certain tasks.

Journey Into the World of SASE - Ferdinand Sales 2021-05-06

This book is intended for any professional interested in gaining greater insight into the terms, concepts, and issues related to the ongoing evolution of security and networking. It has been developed for a range of readers: the executive seeking to understand how their business is changing, the IT leader responsible for driving the transition, and the technologist designing and implementing change. Upon conclusion of the book, the reader should have a

better and deeper understanding of: -The state of enterprise technology today - legacy systems and networks, cloud compute and service providers, hybrid operating models-The ongoing evolution to hybrid models, bringing together disparate data center and cloud components under a single policy and security management umbrella.-The individual components that makeup networking and security ecosystems and how they come together to form an intrinsic security solution.-The path to move enterprise networking and security blueprint towards SASE architecture.-How the integration of SD-WAN and SASE will address latency, performance, and global policy-As a team at the forefront of SD-WAN technology, we are uniquely positioned to help IT transform WAN into SASE as we lead the evolution in its implementation and deployment. -Market trends that have contributed to this movement, the challenges that it poses, and its value to both individual users and the broader enterprise. -In the realms

of implementation and deployment, we will cover SASE network flow, design principles and operation practices, the role of Artificial Intelligence and Machine Learning (AIOps/ML) in the SASE platform, and the necessary preparatory steps to ensure effective Day-0 through Day-N operations and management. This technical book has 100+ diagrams to simplify the concept. Get started on your SASE Journey.

Software Defined Wide Area Networks -

Jason Gooley 2020-07-08

This authoritative guidebook combines comprehensive coverage of Cisco SD-WAN with complete official preparation for Cisco's new CCNP Enterprise ENSDWI 300-415 certification exam. Authored by a team of Cisco architects responsible for training both Cisco and partner engineers on SD-WAN solutions, it covers all facets of the product: benefits, use cases, components, workings, configuration, support, and more. Throughout, practical examples

demonstrate Cisco SD-WAN at work in diverse cloud and premises environments, and the authors show how to apply Cisco SD-WAN technologies and tools in their own real-world environments. As Cisco's official ENSDWI 300-415 study guide, this book covers all exam objectives and is organized to simplify and streamline preparation. It also contains an access code for two full practice exams delivered through Pearson's advanced test prep application.

NetAdmin 08/2018 151 - 2018-08-02

ADC IT Docker IT ADC

Автоматизация программируемых сетей -

Скотт Лоу 2022-01-29

Постоянное появление новых протоколов,

технологий, моделей доставки и ужесточение требований к интеллектуальности и гибкости бизнес-процессов сделали сетевую автоматизацию чрезвычайно важной. Это практическое руководство наглядно демонстрирует сетевым инженерам, как использовать широкий спектр технологий и инструментальных средств, в том числе Linux, Python, JSON и XML, для автоматизации систем с помощью написания программного кода. Книга поможет вам упростить выполнение задач, связанных с конфигурированием, управлением и эксплуатацией сетевого оборудования, топологий, сервисов и поддержкой сетевых соединений. Внимательно изучая ее, вы получите основные практические навыки и освоите инструментальные средства, необходимые для сложного перехода к автоматизации сети.

The Inversion Factor - Linda Bernardi
2018-09-11

Why companies need to move away from a “product first” orientation to pursuing innovation based on customer need. In the past, companies found success with a product-first orientation; they made a thing that did a thing. The Inversion Factor explains why the companies of today and tomorrow will have to abandon the product-first orientation. Rather than asking “How do the products we make meet customer needs?” companies should ask “How can technology help us reimagine and fill a need?” Zipcar, for example, instead of developing another vehicle for moving people from point A to point B, reimaged how people interacted with vehicles. Zipcar inverted the traditional car company mission. The authors explain how the introduction of “smart” objects connected by the Internet of Things signals fundamental changes for business. The IoT, where real and digital coexist, is powering new ways to meet human needs. Companies that know this include giants like Amazon, Airbnb,

Uber, Google, Tesla, and Apple, as well as less famous companies like Tile, Visenti, and Augury. The Inversion Factor offers a roadmap for businesses that want to follow in their footsteps. The authors chart the evolution of three IoTs—the Internet of Things (devices connected to the Internet), the Intelligence of Things (devices that host software applications), and the Innovation of Things (devices that become experiences). Finally, they offer a blueprint for businesses making the transition to inversion and interviews with leaders of major companies and game-changing startups.

Software Defined-WAN for the Digital Age -

David W. Wang 2018-10-26

SD-WAN is an advanced networking approach that creates hybrid networks to integrate broadband or other network services into the corporate WAN, not only just handling general business workloads and traffic, but also being capable of maintaining the performance and security of real-time and sensitive applications.

This book posits that Software Defined (SD) WAN is the answer to questions such as what changes can be made to the networking sector? What innovations can make WAN, which plays a vital integrated part of the cloud ecosystem, more cost effective, performance robust, provisioning efficient, and operation intelligent? [Practical Microsoft Azure IaaS](#) - Shijimol Ambi Karthikeyan 2018-07-20

Adopt Azure IaaS and migrate your on-premise infrastructure partially or fully to Azure. This book provides practical solutions by following Microsoft's design and best practice guidelines for building highly available, scalable, and secure solution stacks using Microsoft Azure IaaS. The author starts by giving an overview of Azure IaaS and its components: you'll see the new aspects of Azure Resource Manager, storage in IaaS, and Azure networking. As such, you'll cover design considerations for migration and implementation of infrastructure services, giving you practical skills to apply to your own

projects. The next part of the book takes you through the different components of Azure IaaS that need to be included in a resilient architecture and how to set up a highly available infrastructure in Azure. The author focuses on the tools available for Azure IaaS automated provisioning and the different performance monitoring and fine-tuning options available for the platform. Finally, you'll gain practical skills in Azure security and implementing Azure architectures. After reading Practical Microsoft Azure IaaS, you will have learned how to map the familiar on-premise architecture components to their cloud infrastructure counterparts. This book provides a focused and practical approach to designing solutions to be hosted in Azure IaaS. What You Will Learn Map the key Azure components to familiar concepts in infrastructure, such as virtualization, storage provisioning, switching, and firewalls Implement Azure IaaS deployment architectures Design IaaS environments in line with the Microsoft

recommended best practices for scalability, resiliency, availability, performance, and security Manage the operational aspects of hosted environments, leverage automation, and fine tune for optimal performance Who This Book Is For Infrastructure and solution architects with skills in on-premise infrastructure design who want to up-skill in Azure IaaS.

Learning OpenDaylight - Reza Toghraee
2017-05-29

A practical guide to building programmable networks using OpenDaylight About This Book Learn and understand how SDN controllers operate and integrate with networks; this book's step-by-step tutorials will give you a strong foundation in SDN, NVF, and OpenDayLight. Learn how to map legacy Layer 2/3 networking technologies in the SDN world Add new services and capabilities to your infrastructure and quickly adopt SDN and NFV within your organization with OpenDayLight. Integrate and

manage software-defined networks efficiently in your organization. Build innovative network applications with OpenDayLight and save time and resources. Who This Book Is For This book targets network engineers, network programmers and developers, administrators, and anyone with some level of networking experience who'd like to deploy OpenDayLight effectively. Familiarity with the day-to-day operations of computer networks is expected What You Will Learn Transition from legacy networking to software-defined networking Learn how SDN controllers work and manage a network using southbound and northbound APIs Learn how to deploy the OpenDayLight SDN controller and integrate it with virtual switches Understand the basic design and operation of the OpenDaylight platform Build simple MD-SAL OpenDaylight applications Build applications on top of OpenDayLight to trigger network changes based on different events Integrate OpenStack with OpenDayLight to build a fully managed

network Learn how to build a software-defined datacenter using NFV and service-chaining technologies In Detail OpenDaylight is an open source, software-defined network controller based on standard protocols. It aims to accelerate the adoption of Software-Defined Networking (SDN) and create a solid foundation for Network Functions Virtualization (NFV). SDN is a vast subject; many network engineers find it difficult to get started with using and operating different SDN platforms. This book will give you a practical bridge from SDN theory to the practical, real-world use of SDN in datacenters and by cloud providers. The book will help you understand the features and use cases for SDN, NFV, and OpenDaylight. NFV uses virtualization concepts and techniques to create virtual classes for node functions. Used together, SDN and NFV can elevate the standards of your network architecture; generic hardware-saving costs and the advanced and abstracted software will give you the freedom to

evolve your network in the future without having to invest more in costly equipment. By the end of this book, you will have learned how to design and deploy OpenDaylight networks and integrate them with physical network switches. You will also have mastered basic network programming over the SDN fabric. Style and approach This is a step-by-step tutorial aimed at getting you up-to-speed with OpenDayLight and ready to adopt it for your SDN (Software-Defined Networking) and NFV (Network Functions Virtualization) ecosystem.

Software Defined Internet of Everything -

Gagangeet Singh Aujla 2022-01-14

This book provides comprehensive discussion on key topics related to the usage and deployment of software defined networks (SDN) in Internet of Everything applications like, healthcare systems, data centers, edge/fog computing, vehicular networks, intelligent transportation systems, smart grids, smart cities and more. The authors provide diverse solutions to overcome

challenges of conventional network binding in various Internet of Everything applications where there is need of an adaptive, agile, and flexible network backbone. The book showcases different deployment models, algorithms and implementations related to the usage of SDN in Internet of Everything applications along with the pros and cons of the same. Even more, this book provides deep insights into the architecture of software defined networking specifically about the layered architecture and different network planes, logical interfaces, and programmable operations. The need of network virtualization and the deployment models for network function virtualization is also included with an aim towards the design of interoperable network architectures by researchers in future. Uniquely, the authors find hands on practical implementation, deployment scenarios and use cases for various software defined networking architectures in Internet of Everything applications like healthcare networks, Internet

of Things, intelligent transportation systems, smart grid, underwater acoustic networks and many more. In the end, design and research challenges, open issues, and future research directions are provided in this book for a wide range of readers

International Conference on Multi disciplinary Technologies and challenges in Industry 4.0 - Dr. Prakash s, dr. Silvia liberataullo, dr. Yogesh g s, dr. I manimozhi, prof. Shilpa patil.

Future Access Enablers for Ubiquitous and Intelligent Infrastructures - Dragan Perakovic
2021-06-19

This book constitutes the refereed post-conference proceedings of the 5th International Conference on Future Access Enablers for Ubiquitous and Intelligent Infrastructures, FABULOUS 2021, held in May 2021. Due to COVID-19 pandemic the conference was held virtually. This year's conference topic covers

security of innovative services and infrastructure in traffic, transport and logistic ecosystems. The 30 revised full papers were carefully reviewed and selected from 60 submissions. The papers are organized in thematic sessions on: Internet of things and smart city; smart environment applications; information and communications technology; smart health applications; sustainable communications and computing infrastructures.

Building Cloud and Virtualization Infrastructure

- Mrs Lavanya Selvaraj 2021-09-29

Transform the way you deliver IT resources digitally to connect to people and businesses.

KEY FEATURES ● Extensive demonstration of service and deployment models with related use-cases. ● Includes wide and deep practical scenarios to explore the real cloud platform. ● Broad perspective to manage resources and disaster recovery. ● Infers various security standards and IAM with numerous examples.

DESCRIPTION The book 'Building Cloud and

Virtualization Infrastructure' covers the designing of a private cloud using various components and tools on various platforms such as AWS and OpenNebula. This book includes network virtualization and integrated technologies such as the Internet of Things and how to create web servers/instances on Amazon Web Services and OpenNebula. The readers will gain a better understanding of the concept of resource management, which offers benefits such as cost savings and improved manageability after reading this book. They will also learn disaster recovery, techniques, and tools to support virtualization, as well as the security challenges inherent in cloud platforms, the various IAM roles and their associated security, and various security standards.

WHAT YOU WILL LEARN ● Understand the fundamentals of cloud concepts. ● Explore the knowledge of virtualization through different virtualization tools. ● Understand economic considerations to launch businesses online. ●

Create your private cloud as per business needs.

● Learn to choose the right services to grow rapidly in the market. WHO THIS BOOK IS FOR This book is intended for students, researchers, and anyone interested in learning about designing, configuring, and deploying cloud-based applications. The readers should have a basic understanding of networking concepts, but not necessarily of the cloud. TABLE OF CONTENTS 1. Introduction to Cloud 2. Cloud Service Models 3. Cloud Deployment Models 4. Introduction to Hypervisor 5. Introduction to Virtualization 6. Virtualization on IT Assets 7. Experimental Part: Installation and Configuration 8. Practical Approach and Experiments 9. Resource Management in Cloud 10. Security in Cloud

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

[SD-WAN The Networking Blueprint for Modern Businesses](#) - Rachna Srivastava 2019-02-13

Change is the one true constant in business. More mobile employees, working in diverse locations, on more devices. Businesses are employing new technologies like cloud, virtualization, and rich, real-time applications with demanding bandwidth needs, often as-a-service. These needs put immense pressure on traditional network infrastructure and connectivity, and today's WAN simply cannot meet these growing demands. It's time for a better approach. With SD-WAN, A software-

defined approach that lets you optimize your architecture for the cloud era--for a more agile, flexible business. Learn the basics about SD-WAN and discover why VMware SD-WAN by VeloCloud is the platform of choice for so many organizations. Explore how VMware SD-WAN by VeloCloud is delivering real-world benefits for enterprises like yours. See how your peers are: *Engaging omnichannel retail customers* Delivering better telehealth services to patients anywhere *Taking control over IoT and manufacturing Edition 2 has new content on HealthcarePlus an exciting vision statement on what lies ahead for SD-WAN by Sanjay Uppal, Vice President and General Manager, VeloCloud Business Unit, VMware. Spotlight section on Driving Innovation in Healthcare by Frank Nydam, VP Global Healthcare Alliances, VMware *Software Defined-WAN for the Digital Age* - David W. Wang 2018-10-26 SD-WAN is an advanced networking approach that creates hybrid networks to integrate

broadband or other network services into the corporate WAN, not only just handling general business workloads and traffic, but also being capable of maintaining the performance and security of real-time and sensitive applications. This book posits that Software Defined (SD) WAN is the answer to questions such as what changes can be made to the networking sector? What innovations can make WAN, which plays a vital integrated part of the cloud ecosystem, more cost effective, performance robust, provisioning efficient, and operation intelligent?

VDI Design Guide - Johan Amersfoort 2018-08-04

Is this finally the year of the Virtual Desktop Infrastructure (VDI)? There doesn't seem to be a straight answer to that question. A VDI can be designed to work perfectly in your environment, but could also be a big pain in the butt. This guide will help you design a VMware Horizon VDI, based on the VMware Certified Design Expert (VCDX) methodology. It will help you understand what steps need to be taken to bring

a project to a successful result. It contains examples of real-world design projects, requirements & constraints which will help you make the right decision in a great variety of scenarios. As sizing does matter, you will also be guided through the complete sizing process. Other topics that will be covered: Windows 10, multi-site architectures, NSX, vSAN, profile strategies, application delivery strategies, assessments, monitoring, security, GPUs, and remote protocols.

Network Programmability and Automation - Jason Edelman 2018-02-02

"This practical guide shows network engineers how to use a range of technologies and tools--including Linux, Python, JSON, and XML--to automate their systems through code. [This book] will help you simplify tasks involved in configuring, managing, and operating network equipment, topologies, services, and connectivity."--Page 4 of cover

Accelerators in Silicon Valley: - Peter Ester

2018-01-31

Silicon Valley is the world's most successful innovation region. Apple, Google, Facebook, Instagram, Twitter, WhatsApp, Uber, and Airbnb changed our way of living. Silicon Valley has built a brilliant ecosystem that supports startups. Its entrepreneurial mindset fosters risk-taking, thinking big, and sharing. A fast growing number of accelerators in Silicon Valley help startups by bringing their product to the market, refining their business idea, developing their product, strengthening their team, designing a marketing strategy, getting first customers and traction, raising funds, and coping with the hardships of startup life. In Accelerators in Silicon Valley Peter Ester describes how these 'schools of startup entrepreneurship' operate and empower startups. What can we learn from how Silicon Valley accelerators help startups to become successful companies? This book gives the answer. Accelerators in Silicon Valley is a book

for those who share a fascination for building the new startup economy.

Network Warrior - Gary A. Donahue 2011-05-13
Pick up where certification exams leave off. With this practical, in-depth guide to the entire network infrastructure, you'll learn how to deal with real Cisco networks, rather than the hypothetical situations presented on exams like the CCNA. Network Warrior takes you step by step through the world of routers, switches, firewalls, and other technologies based on the author's extensive field experience. You'll find new content for MPLS, IPv6, VoIP, and wireless in this completely revised second edition, along with examples of Cisco Nexus 5000 and 7000 switches throughout. Topics include: An in-depth view of routers and routing Switching, using Cisco Catalyst and Nexus switches as examples SOHO VoIP and SOHO wireless access point design and configuration Introduction to IPv6 with configuration examples Telecom technologies in the data-networking world,

including T1, DS3, frame relay, and MPLS Security, firewall theory, and configuration, as well as ACL and authentication Quality of Service (QoS), with an emphasis on low-latency queuing (LLQ) IP address allocation, Network Time Protocol (NTP), and device failures
VMware NSX for Disaster Recovery - Day 1 - Brad Christian 2018-04-02

Business Process Management Workshops - Florian Daniel 2019-01-28

This book constitutes revised papers from the eight International Workshops held at the 16th International Conference on Business Process Management, BPM 2018, in Sydney, Australia, in September 2018: BPI 2018: 14th International Workshop on Business Process Intelligence; BPMS2 2018: 11th Workshop on Social and Human Aspects of Business Process Management;- PODS4H 2018: 1st International Workshop on Process-Oriented Data Science for Healthcare; AI4BPM 2018: 1st International

Workshop on Artificial Intelligence for Business Process Management; CCBPM 2018: 1st International Workshop on Emerging Computing Paradigms and Context in Business Process Management; BP-Meet-IoT / PQ 2018: Joint Business Processes Meet the Internet-of-Things and Process Querying Workshop; DeHMiMoP 2018: 1st Declarative/Decision/Hybrid Mining and Modelling for Business Processes Workshop; REBM /EdForum 2018: Joint Requirements Engineering and Business Process Management Workshop and Education Forum The 45 full papers presented in this volume were carefully reviewed and selected from 90 submissions.
iX Kompakt - Cloud fürs Unternehmen - iX-Redaktion 2016-10-04
Was kann die Cloud? Und welche Wege führen dorthin? Das iX kompakt zum Thema „Cloud fürs Unternehmen“ lässt Experten zu Wort kommen, die ihre Erfahrung mit der Technik hinter Cloud-Installationen teilen. Wer nicht selbst eine Cloud aufsetzen möchte, findet Informationen zu

Software as a Service - etwa Office aus der Cloud oder zum Kundenbeziehungsmanagement mit dem Salesforce CRM. Beim Planen einer Nutzung von Cloud-Diensten gilt es außerdem, eigene Aspekte zu beachten: neue Risiken, Datenschutz, Besonderheiten bei der Vertragsgestaltung. Auch hierzu gibt iX kompakt Ratschläge.

Build a Smarter Data Center with Juniper Networks QFabric - Bill White 2012-03-07

In this IBM® Redguide™ document, we highlight the key requirements for a smarter data center network and show how the data center fabric, a new switching architecture, provides the required performance, scalability, and management. We explore Juniper Networks' QFabric, a revolutionary DCN fabric product, and describe how its characteristics and key network innovations provide real business value in rapid service deployment, cost-efficient service delivery, energy efficiency, and business resiliency and security. We examine Juniper's

QFabric design, product software, hardware, and deployment, and illustrate how QFabric can drastically improve your DCN while reducing your business costs. We describe three common QFabric network use cases that highlight fundamental changes in DCN architecture. Use cases are based on our project experiences, specifically optimized application delivery control, secure isolation provisioning of a multi-tenant environment, and support of business continuity. IBM understands that the first step in transforming network infrastructure is developing an enterprise network architecture that considers business and IT environments, security and privacy policies, service priorities, and growth plans. This guide describes how to migrate to a smarter data center using QFabric and also considers organizational aspects of migration. Over decades, IBM has built deep technical expertise and understanding of the evolving demands of network, server, storage, and desktop virtualization. IBM has extensive

design and integration experience in complex DCN infrastructures and cloud computing environments. And IBM has a global pool of skilled networking professionals with in-depth IT and networking infrastructure knowledge and world class project management skills. IBM and Juniper Networks' strong partnership offers leading edge network products and technologies that will help you create and implement this unrivalled DCN design using the information covered in this paper.

Programming and Automating Cisco

Networks - Ryan Tischer 2016-09-09

Improve operations and agility in any data center, campus, LAN, or WAN Today, the best way to stay in control of your network is to address devices programmatically and automate network interactions. In this book, Cisco experts Ryan Tischer and Jason Gooley show you how to do just that. You'll learn how to use programmability and automation to solve business problems, reduce costs, promote agility

and innovation, handle accelerating complexity, and add value in any data center, campus, LAN, or WAN. The authors show you how to create production solutions that run on or interact with Nexus NX-OS-based switches, Cisco ACI, Campus, and WAN technologies. You'll learn how to use advanced Cisco tools together with industry-standard languages and platforms, including Python, JSON, and Linux. The authors demonstrate how to support dynamic application environments, tighten links between apps and infrastructure, and make DevOps work better. This book will be an indispensable resource for network and cloud designers, architects, DevOps engineers, security specialists, and every professional who wants to build or operate high-efficiency networks. Drive more value through programmability and automation, freeing resources for high-value innovation Move beyond error-prone, box-by-box network management Bridge management gaps arising from current operational models Write NX-OS

software to run on, access, or extend your Nexus switch Master Cisco's powerful on-box automation and operation tools Manage complex WANs with NetConf/Yang, ConfD, and Cisco SDN Controller Interact with and enhance Cisco Application Centric Infrastructure (ACI) Build self-service catalogs to accelerate application delivery Find resources for deepening your expertise in network automation

Soft Computing Techniques and Applications - Samarjeet Borah 2020-11-28

Focusing on soft computing techniques and application in various engineering research domains, this book presents the state-of-the-art outcomes from ongoing research works being conducted in various research laboratories and educational institutions. The included research works deal with estimated models and give resolutions to complex real-life issues. In the field of evolutionary computing and other domains of applications, such as, data mining and fuzzy logic, soft computing techniques play

an incomparable role, where it successfully handles contemporary computationally intensive and complex problems that have usually appeared to be inflexible to traditional mathematical methods. Comprising the concepts and applications of soft computing with other emerging research domains, this book cherishes varieties of modern applications in the fields of natural language processing, image processing, biomedical engineering, communication, control systems, circuit design etc.

Connecting Networks v6 Companion Guide - Cisco Networking Academy 2017-09-11

Connecting Networks v6 Companion Guide is the official supplemental textbook for the Connecting Networks version 6 course in the Cisco Networking Academy CCNA Routing and Switching curriculum. The Companion Guide is designed as a portable desk reference to use anytime, anywhere to reinforce the material from the course and organize your time. The book's features help you focus on important

concepts to succeed in this course: Chapter Objectives–Review core concepts by answering the focus questions listed at the beginning of each chapter. Key Terms–Refer to the lists of networking vocabulary introduced and highlighted in context in each chapter. Glossary–Consult the comprehensive Glossary with 347 terms. Summary of Activities and Labs–Maximize your study time with this complete list of all associated practice exercises at the end of each chapter. Check Your Understanding–Evaluate your readiness with the end-of-chapter questions that match the style of questions you see in the online course quizzes. The answer key explains each answer. How To–Look for this icon to study the steps you need to learn to perform certain tasks. Interactive Activities–Reinforce your understanding of topics with dozens of exercises from the online course identified throughout the book with this icon. Packet Tracer Activities–Explore and visualize networking concepts using Packet

Tracer exercises interspersed throughout the chapters and provided in the accompanying Labs & Study Guide book. Videos–Watch the videos embedded within the online course. Hands-on Labs–Work through all the course labs and additional Class Activities that are included in the course and published in the separate Labs & Study Guide.

Software-Defined Wide Area Network Architectures and Technologies - Cheng Sheng
2021-05-05

Starting with problems and challenges faced by enterprise WANs, Software-Defined Wide Area Network Architectures and Technologies provides a detailed description of SD-WAN's background and basic features, as well as the system architecture, operating mechanism, and application scenarios of the SD-WAN solution based on the implementation of Huawei SD-WAN Solution. It also explains key SD-WAN technologies and analyzes real SD-WAN deployment cases, affording readers with design

methods and deployment suggestions for the SD-WAN solution. The information presented in this book is easy to understand and very practical. It enables you to become adept in the SD-WAN solution's implementation and design principles. The book is intended for ICT practitioners, such as network technical support engineers, network administrators, and network planning engineers, to use in studying theory. Furthermore, it serves as reference material for network technology enthusiasts. Authors Cheng Sheng is the Chief Architect of Huawei's SD-WAN Solution. He has nearly 20 years of experience in network product and solution design, as well as extensive expertise in product design and development, network planning and design, and network engineering project implementation. Jie Bai is an Architect of Huawei's SD-WAN Solution. He is well versed in Huawei security products and SD-WAN Solution and has written books such as Huawei Firewall Technology Talk as well as Huawei Anti-DDoS Technology Talk. Qi Sun is a

Senior Information Architect of Huawei, and he is knowledgeable in Huawei SD-WAN Solution, CloudVPN Solution, and Cloud Management Solution. He also participated in the information architecture design and delivery of multiple solutions.

Software Networks - Guy Pujolle 2015-08-31

The goal of this book is to describe new concepts for Internet next generation. This architecture is based on virtual networking using Cloud and datacenters facilities. Main problems concern 1) the placement of virtual resources for opening a new network on the fly, and 2) the urbanisation of virtual resource implemented on physical network equipment. This architecture deals with mechanisms capable of controlling automatically the placement of all virtual resources within the physical network. In this book, we describe how to create and delete virtual networks on the fly. Indeed, the system is able to create any new network with any kind of resource (e.g., virtual switch, virtual routers, virtual LSRs, virtual

optical path, virtual firewall, virtual SIP-based servers, virtual devices, virtual servers, virtual access points, and so on). We will show how this architecture is compatible with new advances in SDN (Software Defined Networking), new high-speed transport protocol like TRILL (Transparent Interconnection of Lots of Links) and LISP (Locator/Identifier Separation Protocol), NGN, IMS, Wi-Fi new generation, and 4G/5G networks. Finally, we introduce the Cloud of security and the virtualisation of secure elements (smartcard) that should definitely transform how to secure the Internet.

Future Access Enablers for Ubiquitous and Intelligent Infrastructures - Dragan Perakovic
2021-06-20

This book constitutes the refereed post-conference proceedings of the 5th International Conference on Future Access Enablers for Ubiquitous and Intelligent Infrastructures, FABULOUS 2021, held in May 2021. Due to COVID-19 pandemic the conference was held

virtually. This year's conference topic covers security of innovative services and infrastructure in traffic, transport and logistic ecosystems. The 30 revised full papers were carefully reviewed and selected from 60 submissions. The papers are organized in thematic sessions on: Internet of things and smart city; smart environment applications; information and communications technology; smart health applications; sustainable communications and computing infrastructures.

Network Programmability and Automation - Jason Edelman 2018-02-02

Like sysadmins before them, network engineers are finding that they cannot do their work manually anymore. As the field faces new protocols, technologies, delivery models, and a pressing need for businesses to be more agile and flexible, network automation is becoming essential. This practical guide shows network engineers how to use a range of technologies and tools—including Linux, Python, JSON, and

XML—to automate their systems through code. Network programming and automation will help you simplify tasks involved in configuring, managing, and operating network equipment, topologies, services, and connectivity. Through the course of the book, you'll learn the basic skills and tools you need to make this critical transition. This book covers: Python programming basics: data types, conditionals, loops, functions, classes, and modules Linux fundamentals to provide the foundation you need on your network automation journey Data formats and models: JSON, XML, YAML, and YANG for networking Jinja templating and its applicability for creating network device configurations The role of application programming interfaces (APIs) in network automation Source control with Git to manage code changes during the automation process How Ansible, Salt, and StackStorm open source automation tools can be used to automate network devices Key tools and technologies

required for a Continuous Integration (CI) pipeline in network operations
Sd-Wan 1 - Matt Berry 2019-08-15

Software Defined Internet of Everything - Gagangeet Singh Aujla 2022-01-13

This book provides comprehensive discussion on key topics related to the usage and deployment of software defined networks (SDN) in Internet of Everything applications like, healthcare systems, data centers, edge/fog computing, vehicular networks, intelligent transportation systems, smart grids, smart cities and more. The authors provide diverse solutions to overcome challenges of conventional network binding in various Internet of Everything applications where there is need of an adaptive, agile, and flexible network backbone. The book showcases different deployment models, algorithms and implementations related to the usage of SDN in Internet of Everything applications along with the pros and cons of the same. Even more, this

book provides deep insights into the architecture of software defined networking specifically about the layered architecture and different network planes, logical interfaces, and programmable operations. The need of network virtualization and the deployment models for network function virtualization is also included with an aim towards the design of interoperable network architectures by researchers in future. Uniquely, the authors find hands on practical implementation, deployment scenarios and use cases for various software defined networking architectures in Internet of Everything applications like healthcare networks, Internet of Things, intelligent transportation systems, smart grid, underwater acoustic networks and many more. In the end, design and research challenges, open issues, and future research directions are provided in this book for a wide range of readers

Soft Computing Techniques and Applications - Samarjeet Borah 2020-11-27

Focusing on soft computing techniques and application in various engineering research domains, this book presents the state-of-the-art outcomes from ongoing research works being conducted in various research laboratories and educational institutions. The included research works deal with estimated models and give resolutions to complex real-life issues. In the field of evolutionary computing and other domains of applications, such as, data mining and fuzzy logic, soft computing techniques play an incomparable role, where it successfully handles contemporary computationally intensive and complex problems that have usually appeared to be inflexible to traditional mathematical methods. Comprising the concepts and applications of soft computing with other emerging research domains, this book cherishes varieties of modern applications in the fields of natural language processing, image processing, biomedical engineering, communication, control systems, circuit design etc.

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

Cisco Intelligent WAN (IWAN) - Brad Edgeworth 2016-11-04

The complete guide to Cisco® IWAN: features, benefits, planning, and deployment Using Cisco Intelligent WAN (IWAN), businesses can deliver an uncompromised experience, security, and reliability to branch offices over any connection. Cisco IWAN simplifies WAN design, improves network responsiveness, and accelerates deployment of new services. Now, there's an authoritative single-source guide to Cisco IWAN:

all you need to understand it, design it, and deploy it for maximum value. In Cisco Intelligent WAN (IWAN), leading Cisco experts cover all key IWAN technologies and components, addressing issues ranging from visibility and provisioning to troubleshooting and optimization. They offer extensive practical guidance on migrating to IWAN from your existing WAN infrastructure. This guide will be indispensable for all experienced network professionals who support WANs, are deploying Cisco IWAN solutions, or use related technologies such as DMVPN or PfR. Deploy Hybrid WAN connectivity to increase WAN capacity and improve application performance Overlay DMVPN on WAN transport to simplify operations, gain transport independence, and improve VPN scalability Secure DMVPN tunnels and IWAN routers Use Application Recognition to support QoS, Performance Routing (PfR), and application visibility Improve application delivery and WAN efficiency via PfR Monitor hub, transit, and

branch sites, traffic classes, and channels Add application-level visibility and per-application monitoring to IWAN routers Overcome latency and bandwidth inefficiencies that limit application performance Use Cisco WAAS to customize each location's optimizations, application accelerations, and virtualization Smoothly integrate Cisco WAAS into branch office network infrastructure Ensure appropriate WAN application responsiveness and experience Improve SaaS application performance with Direct Internet Access (DIA) Perform pre-migration tasks, and prepare your current WAN for IWAN Migrate current point-to-point and multipoint technologies to IWAN

Investigating the Cyber Breach - Joseph Muniz
2018-01-31

Investigating the Cyber Breach The Digital Forensics Guide for the Network Engineer · Understand the realities of cybercrime and today's attacks · Build a digital forensics lab to test tools and methods, and gain expertise · Take

the right actions as soon as you discover a breach · Determine the full scope of an investigation and the role you'll play · Properly collect, document, and preserve evidence and data · Collect and analyze data from PCs, Macs, IoT devices, and other endpoints · Use packet logs, NetFlow, and scanning to build timelines, understand network activity, and collect evidence · Analyze iOS and Android devices, and understand encryption-related obstacles to investigation · Investigate and trace email, and identify fraud or abuse · Use social media to investigate individuals or online identities · Gather, extract, and analyze breach data with Cisco tools and techniques · Walk through common breaches and responses from start to finish · Choose the right tool for each task, and explore alternatives that might also be helpful

The professional's go-to digital forensics resource for countering attacks right now Today, cybersecurity and networking professionals know they can't possibly prevent every breach,

but they can substantially reduce risk by quickly identifying and blocking breaches as they occur. Investigating the Cyber Breach: The Digital Forensics Guide for the Network Engineer is the first comprehensive guide to doing just that. Writing for working professionals, senior cybersecurity experts Joseph Muniz and Aamir Lakhani present up-to-the-minute techniques for hunting attackers, following their movements within networks, halting exfiltration of data and intellectual property, and collecting evidence for investigation and prosecution. You'll learn how to make the most of today's best open source and Cisco tools for cloning, data analytics, network and endpoint breach detection, case management, monitoring, analysis, and more. Unlike digital forensics books focused primarily on post-attack evidence gathering, this one offers complete coverage of tracking threats, improving intelligence, rooting out dormant malware, and responding effectively to breaches underway right now. This book is part of the

Networking Technology: Security Series from Cisco Press®, which offers networking professionals valuable information for constructing efficient networks, understanding new technologies, and building successful careers.

AI as a Service - Peter Elger 2020-09-05

AI as a Service is a practical handbook to building and implementing serverless AI applications, without bogging you down with a lot of theory. Instead, you'll find easy-to-digest instruction and two complete hands-on serverless AI builds in this must-have guide! Summary Companies everywhere are moving everyday business processes over to the cloud, and AI is increasingly being given the reins in these tasks. As this massive digital transformation continues, the combination of serverless computing and AI promises to become the de facto standard for business-to-consumer platform development—and developers who can design, develop, implement, and maintain these

systems will be in high demand! AI as a Service is a practical handbook to building and implementing serverless AI applications, without bogging you down with a lot of theory. Instead, you'll find easy-to-digest instruction and two complete hands-on serverless AI builds in this must-have guide! Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Cloud-based AI services can automate a variety of labor intensive business tasks in areas such as customer service, data analysis, and financial reporting. The secret is taking advantage of pre-built tools like Amazon Rekognition for image analysis or AWS Comprehend for natural language processing. That way, there's no need to build expensive custom software. Artificial Intelligence (AI), a machine's ability to learn and make predictions based on patterns it identifies, is already being leveraged by businesses around the world in areas like targeted product recommendations,

financial forecasting and resource planning, customer service chatbots, healthcare diagnostics, data security, and more. With the exciting combination of serverless computing and AI, software developers now have enormous power to improve their businesses' existing systems and rapidly deploy new AI-enabled platforms. And to get on this fast-moving train, you don't have to invest loads of time and effort in becoming a data scientist or AI expert, thanks to cloud platforms and the readily available off-the-shelf cloud-based AI services! About the book AI as a Service is a fast-paced guide to harnessing the power of cloud-based solutions. You'll learn to build real-world apps—such as chatbots and text-to-speech services—by stitching together cloud components. Work your way from small projects to large data-intensive applications. What's inside - Apply cloud AI services to existing platforms - Design and build scalable data pipelines - Debug and troubleshoot AI services - Start fast with serverless templates

About the reader For software developers familiar with cloud basics. About the author Peter Elger and Eóin Shanaghy are founders and CEO/CTO of fourTheorem, a software solutions company providing expertise on architecture, DevOps, and machine learning. Table of Contents PART 1 - FIRST STEPS 1 A tale of two technologies 2 Building a serverless image recognition system, part 1 3 Building a serverless image recognition system, part 2 PART 2 - TOOLS OF THE TRADE 4 Building and securing a web application the serverless way 5 Adding AI interfaces to a web application 6 How to be effective with AI as a Service 7 Applying AI to existing platforms PART 3 - BRINGING IT ALL TOGETHER 8 Gathering data at scale for real-world AI 9 Extracting value from large data sets with AI

The Role of SDN in Broadband Networks -

Hassan Habibi Gharakheili 2017-01-09

This thesis focuses on the design and use of software defined networking (SDN) in

residential Internet service providers (ISPs), as well as innovative operational models that can be incorporated in broadband ecosystems. Though SDN addresses the challenges for bundled best-effort service provided by broadband operators for users, it does not distinguish between the different types of applications (video streaming, web-browsing, and large file transfers), nor does it cater to the varying needs of different household devices (entertainment tablets, work laptops, or connected appliances). This is a problem for end-users, who want to differentiate between applications and devices; for content providers (CPs), who want to exercise control over streams

of high monetary value; and for Internet service providers (ISPs), who have to accommodate growing traffic volumes without additional revenues. This book develops a series of solution techniques that use SDN to find an optimal balance between the competing requirements of end-users, ISPs, and CPs. In addition to the design and discussions of various architectures, it provides technical details on real-world system implementations and prototypes. As such, it offers a valuable resource for researchers, network architects, network strategists, developers, and all other readers seeking to learn more about the practical value of SDN in future ISP networks.