

Arista Design Guide Data Center Interconnection With Vxlan

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[In The Break](#) - Fred Moten 2003-04-09

Investigates the connections between jazz, sexual identity, and radical black politics In his controversial essay on white jazz musician Burton Greene, Amiri Baraka asserted that jazz was exclusively an African American art form and explicitly fused the idea of a black aesthetic with radical political traditions of the African diaspora. In the Break is an extended riff on "The Burton Greene Affair," exploring the tangled relationship between black avant-garde in music and literature in the 1950s and 1960s, the emergence of a distinct form of black cultural nationalism, and the complex engagement with and disavowal of homoeroticism that bridges the two. Fred Moten focuses in particular on the brilliant improvisatory jazz of John Coltrane, Ornette Coleman, Albert Ayler, Eric Dolphy, Charles Mingus, and others, arguing that all black performance—culture, politics, sexuality, identity, and blackness itself—is improvisation. For Moten, improvisation provides a unique epistemological standpoint from which to investigate the provocative connections between black aesthetics and Western philosophy. He engages in a strenuous critical analysis of Western philosophy (Heidegger, Kant, Husserl, Wittgenstein, and Derrida) through the prism of radical black thought and culture. As the critical, lyrical, and disruptive performance of the human, Moten's concept of blackness also brings such figures as Frederick Douglass and Karl Marx, Cecil Taylor and Samuel R. Delany, Billie Holiday and William Shakespeare into conversation with each other. Stylistically brilliant and challenging, much like the music he writes about, Moten's wide-ranging discussion embraces a variety of disciplines—semiotics, deconstruction, genre theory, social history, and psychoanalysis—to understand the politicized sexuality, particularly homoeroticism, underpinning black radicalism. In the Break is the inaugural volume in Moten's ambitious intellectual project-to establish an aesthetic genealogy of the black radical tradition

[Foundations of Modern Networking](#) - William Stallings 2015-10-27

Foundations of Modern Networking is a comprehensive, unified survey of modern networking technology and applications for today's professionals, managers, and students. Dr. William Stallings offers clear and well-organized coverage of five key technologies that are transforming networks: Software-Defined Networks (SDN), Network Functions Virtualization (NFV), Quality of Experience (QoE), the Internet of Things (IoT), and cloudbased services. Dr. Stallings reviews current network ecosystems and the challenges they face—from Big Data and mobility to security and complexity. Next, he offers complete, self-contained coverage of each new set of technologies: how they work, how they are architected, and how they can be applied to solve real problems. Dr. Stallings presents a chapter-length analysis of emerging security issues in modern networks. He concludes with an up-to date discussion of networking careers, including important recent changes in roles and skill requirements. Coverage: Elements of the modern networking ecosystem: technologies, architecture, services, and applications Evolving requirements of current network environments SDN: concepts, rationale, applications, and standards across data, control, and application planes OpenFlow, OpenDaylight, and other key SDN technologies Network functions virtualization: concepts, technology, applications, and software defined infrastructure Ensuring customer Quality of Experience (QoE) with interactive video and multimedia network traffic Cloud networking: services, deployment models, architecture, and linkages to SDN and NFV IoT and fog computing in depth: key components of IoT-enabled devices, model architectures, and example implementations Securing SDN, NFV, cloud, and IoT environments Career preparation and ongoing education for tomorrow's networking careers Key Features: Strong coverage of unifying principles and practical techniques More than a hundred figures that clarify key concepts Web support at williamstallings.com/Network/ QR codes throughout, linking to the website and other resources Keyword/acronym lists, recommended readings, and glossary Margin note definitions of key

words throughout the text

[Ethernet Switches](#) - Charles E. Spurgeon 2013

"An introduction to network design with switches"--Cover.

[Software-Defined Networking \(SDN\) with OpenStack](#) - Sriram Subramanian 2016-10-28

Leverage the best SDN technologies for your OpenStack-based cloud infrastructure About This Book Learn how to leverage critical SDN technologies for OpenStack Networking APIs via plugins and drivers Champion the skills of achieving complete SDN with OpenStack with specific use cases and capabilities only covered in this title Discover exactly how you could implement cost-effective OpenStack SDN integration for your organization Who This Book Is For Administrators, and cloud operators who would like to implement Software Defined Networking on OpenStack clouds. Some prior experience of network infrastructure and networking concepts is assumed. What You Will Learn Understand how OVS is used for Overlay networks Get familiar with SDN Controllers with Architectural details and functionalities Create core ODL services and understand how OpenDaylight integrates with OpenStack to provide SDN capabilities Understand OpenContrail architecture and how it supports key SDN functionality such as Service Function Chaining (SFC) along with OpenStack Explore Open Network Operating System (ONOS) - a carrier grade SDN platform embraced by the biggest telecom service providers Learn about upcoming SDN technologies in OpenStack such as Dragonflow and OVN In Detail Networking is one the pillars of OpenStack and OpenStack Networking are designed to support programmability and Software-Defined Networks. OpenStack Networking has been evolving from simple APIs and functionality in Quantum to more complex capabilities in Neutron. Armed with the basic knowledge, this book will help the readers to explore popular SDN technologies, namely, OpenDaylight (ODL), OpenContrail, Open Network Operating System (ONOS) and Open Virtual Network (OVN). The first couple of chapters will provide an overview of OpenStack Networking and SDN in general. Thereafter a set of chapters are devoted to OpenDaylight (ODL), OpenContrail and their integration with OpenStack Networking. The book then introduces you to Open Network Operating System (ONOS) which is fast becoming a carrier grade SDN platform. We will conclude the book with overview of upcoming SDN projects within OpenStack namely OVN and Dragonflow. By the end of the book, the readers will be familiar with SDN technologies and know how they can be leveraged in an OpenStack based cloud. Style and approach A hands-on practical tutorial through use cases and examples for Software Defined Networking with OpenStack.

[Continuous Delivery](#) - Jez Humble 2010-07-27

Winner of the 2011 Jolt Excellence Award! Getting software released to users is often a painful, risky, and time-consuming process. This groundbreaking new book sets out the principles and technical practices that enable rapid, incremental delivery of high quality, valuable new functionality to users. Through automation of the build, deployment, and testing process, and improved collaboration between developers, testers, and operations, delivery teams can get changes released in a matter of hours— sometimes even minutes—no matter what the size of a project or the complexity of its code base. Jez Humble and David Farley begin by presenting the foundations of a rapid, reliable, low-risk delivery process. Next, they introduce the "deployment pipeline," an automated process for managing all changes, from check-in to release. Finally, they discuss the "ecosystem" needed to support continuous delivery, from infrastructure, data and configuration management to governance. The authors introduce state-of-the-art techniques, including automated infrastructure management and data migration, and the use of virtualization. For each, they review key issues, identify best practices, and demonstrate how to mitigate risks. Coverage includes • Automating all facets of building, integrating, testing, and deploying software •

Implementing deployment pipelines at team and organizational levels • Improving collaboration between developers, testers, and operations • Developing features incrementally on large and distributed teams • Implementing an effective configuration management strategy • Automating acceptance testing, from analysis to implementation • Testing capacity and other non-functional requirements • Implementing continuous deployment and zero-downtime releases • Managing infrastructure, data, components and dependencies • Navigating risk management, compliance, and auditing Whether you're a developer, systems administrator, tester, or manager, this book will help your organization move from idea to release faster than ever—so you can deliver value to your business rapidly and reliably.

Virtual Routing in the Cloud - Arvind Durai 2016-04-25

The Cisco expert guide to planning, deploying, and operating virtual routing with the CSR 1000V Cloud Services Router Virtual routing and the Cisco Cloud Services Router (CSR 1000V) are key enablers of today's revolutionary shift to elastic cloud applications and low-cost virtualized networking. Now, there's an authoritative, complete guide to building real solutions with the Cisco CSR 1000V platform. Three leading experts cover every essential building block, present key use cases and configuration examples, illuminate design and deployment scenarios, and show how the CSR 1000V platform and APIs can enable state-of-the-art software-defined networks (SDN). Drawing on extensive early adopter experience, they illuminate crucial OS and hypervisor details, help you overcome migration challenges, and offer practical guidance for monitoring and operations. This guide is an essential resource for all technical professionals planning or deploying data center and enterprise cloud services, and for all cloud network operators utilizing the Cisco CSR 1000V or future Cisco virtual routing platforms. · Review the fundamentals of cloud virtualization, multitenant data-center design, and software-defined networking · Understand the Cisco CSR 1000V's role, features, and infrastructure requirements · Compare server hypervisor technologies for managing VM hardware with CSR 1000V deployments · Understand CSR 1000V software architecture, control and data-plane design, licensing requirements, and packet flow · Walk through common virtual router scenarios and configurations, including multiple cloud and data center examples · Integrate CSR 1000V into the OpenStack SDN framework, and use its APIs to solve specific problems · Master a best-practice workflow for deploying the CSR 1000V · Use the Cisco management tools to automate, orchestrate, and troubleshoot virtualized routing Category: Networking/Cloud Computing Covers: Cloud Services Router This book is part of the Networking Technology Series from Cisco Press, which offers networking professionals valuable information for constructing efficient networks, understanding new technologies, and building successful careers

Empowering Dialogues Within - Kate Cohen-Posey 2008-07-21

Immersed with wisdom, *Empowering Dialogues Within* is a unique client workbook filled with narratives, case vignettes, and exercises, providing mental health professionals with a broad-based toolkit to help clients become more self-aware. It is filled with instructive case examples and practical advice for building clients' confidence, wisdom, and sense of wellness and a foundation for lifelong strength and growth.

Inventing the Cloud Century - Marcus Oppitz 2017-08-03

This book combines the three dimensions of technology, society and economy to explore the advent of today's cloud ecosystems as successors to older service ecosystems based on networks. Further, it describes the shifting of services to the cloud as a long-term trend that is still progressing rapidly. The book adopts a comprehensive perspective on the key success factors for the technology - compelling business models and ecosystems including private, public and national organizations. The authors explore the evolution of service ecosystems, describe the similarities and differences, and analyze the way they have created and changed industries. Lastly, based on the current status of cloud computing and related technologies like virtualization, the internet of things, fog computing, big data and analytics, cognitive computing and blockchain, the authors provide a revealing outlook on the possibilities of future technologies, the future of the internet, and the potential impacts on business and society.

SDN and NFV Security - Rahamatullah Khondoker 2018-01-29

This book provides security analyses of several Software Defined Networking (SDN) and Network Functions Virtualization (NFV) applications using Microsoft's threat modeling framework STRIDE. Before deploying new technologies in the production environment, their security aspects must be considered. Software Defined Networking (SDN) and Network Functions Virtualization (NFV) are two new

technologies used to increase e.g. the manageability, security and flexibility of enterprise/production/cloud IT environments. Also featuring a wealth of diagrams to help illustrate the concepts discussed, the book is ideally suited as a guide for all IT security professionals, engineers, and researchers who need IT security recommendations on deploying SDN and NFV technologies.

Cyberbullying Across the Globe - Raúl Navarro 2015-11-24

This book provides a much-needed analysis of the current research in the global epidemic of electronic bullying. Scholars and professionals from the Americas, Europe, and Asia offer data, insights, and solutions, acknowledging both the social psychology and technological contexts underlying cyberbullying phenomena. Contributors address questions that are just beginning to emerge as well as longstanding issues concerning family and gender dynamics, and provide evidence-based prevention and intervention strategies for school and home. The global nature of the book reflects not only the scope and severity of cyberbullying, but also the tenacity of efforts to control and eradicate the problem. Included in the coverage: • Gender issues and cyberbullying in children and adolescents: from gender differences to gender identity measures. • Family relationships and cyberbullying. • Examining the incremental impact of cyberbullying on outcomes over and above traditional bullying in North America. • A review of cyberbullying and education issues in Latin America. • Cyberbullying prevention from child and youth literature. • Cyberbullying and restorative justice.

Cyberbullying across the Globe is an essential resource for researchers, graduate students, and other professionals in child and school psychology, public health, social work and counseling, educational policy, and family advocacy.

Principles and Practices of Interconnection Networks - William James Dally 2004-03-06

One of the greatest challenges faced by designers of digital systems is optimizing the communication and interconnection between system components. Interconnection networks offer an attractive and economical solution to this communication crisis and are fast becoming pervasive in digital systems. Current trends suggest that this communication bottleneck will be even more problematic when designing future generations of machines. Consequently, the anatomy of an interconnection network router and science of interconnection network design will only grow in importance in the coming years. This book offers a detailed and comprehensive presentation of the basic principles of interconnection network design, clearly illustrating them with numerous examples, chapter exercises, and case studies. It incorporates hardware-level descriptions of concepts, allowing a designer to see all the steps of the process from abstract design to concrete implementation. Case studies throughout the book draw on extensive author experience in designing interconnection networks over a period of more than twenty years, providing real world examples of what works, and what doesn't. Tightly couples concepts with implementation costs to facilitate a deeper understanding of the tradeoffs in the design of a practical network. A set of examples and exercises in every chapter help the reader to fully understand all the implications of every design decision.

Hyperconverged Infrastructure Data Centers - Sam Halabi 2019-01-18

Improve Manageability, Flexibility, Scalability, and Control with Hyperconverged Infrastructure Hyperconverged infrastructure (HCI) combines storage, compute, and networking in one unified system, managed locally or from the cloud. With HCI, you can leverage the cloud's simplicity, flexibility, and scalability without losing control or compromising your ability to scale. In *Hyperconverged Infrastructure Data Centers*, best-selling author Sam Halabi demystifies HCI technology, outlines its use cases, and compares solutions from a vendor-neutral perspective. He guides you through evaluation, planning, implementation, and management, helping you decide where HCI makes sense, and how to migrate legacy data centers without disrupting production systems. The author brings together all the HCI knowledge technical professionals and IT managers need, whether their background is in storage, compute, virtualization, switching/routing, automation, or public cloud platforms. He explores leading solutions including the Cisco HyperFlex platform, VMware vSAN, Nutanix Enterprise Cloud, Cisco Application-Centric Infrastructure (ACI), VMware's NSX, the open source OpenStack and Open vSwitch (OVS) / Open Virtual Network (OVN), and Cisco CloudCenter for multicloud management. As you explore discussions of automation, policy management, and other key HCI capabilities, you'll discover powerful new opportunities to improve

control, security, agility, and performance. Understand and overcome key limits of traditional data center designs Discover improvements made possible by advances in compute, bus interconnect, virtualization, and software-defined storage Simplify rollouts, management, and integration with converged infrastructure (CI) based on the Cisco Unified Computing System (UCS) Explore HCI functionality, advanced capabilities, and benefits Evaluate key HCI applications, including DevOps, virtual desktops, ROBO, edge computing, Tier 1 enterprise applications, backup, and disaster recovery Simplify application deployment and policy setting by implementing a new model for provisioning, deployment, and management Plan, integrate, deploy, provision, manage, and optimize the Cisco HyperFlex hyperconverged infrastructure platform Assess alternatives such as VMware vSAN, Nutanix, open source OpenStack, and OVS/OVN, and compare architectural differences with HyperFlex Compare Cisco ACI (Application-Centric Infrastructure) and VMware NSX approaches to network automation, policies, and security This book is part of the Networking Technology Series from Cisco Press, which offers networking professionals valuable information for constructing efficient networks, understanding new technologies, and building successful careers.

Deploying ACI - Frank Dagenhardt 2018-02-28

Use ACI fabrics to drive unprecedented value from your data center environment With the Cisco Application Centric Infrastructure (ACI) software-defined networking platform, you can achieve dramatic improvements in data center performance, redundancy, security, visibility, efficiency, and agility. In *Deploying ACI*, three leading Cisco experts introduce this breakthrough platform, and walk network professionals through all facets of design, deployment, and operation. The authors demonstrate how ACI changes data center networking, security, and management; and offer multiple field-proven configurations. *Deploying ACI* is organized to follow the key decision points associated with implementing data center network fabrics. After a practical introduction to ACI concepts and design, the authors show how to bring your fabric online, integrate virtualization and external connections, and efficiently manage your ACI network. You'll master new techniques for improving visibility, control, and availability; managing multitenancy; and seamlessly inserting service devices into application data flows. The authors conclude with expert advice for troubleshooting and automation, helping you deliver data center services with unprecedented efficiency. Understand the problems ACI solves, and how it solves them Design your ACI fabric, build it, and interface with devices to bring it to life Integrate virtualization technologies with your ACI fabric Perform networking within an ACI fabric (and understand how ACI changes data center networking) Connect external networks and devices at Layer 2/Layer 3 levels Coherently manage unified ACI networks with tenants and application policies Migrate to granular policies based on applications and their functions Establish multitenancy, and evolve networking, security, and services to support it Integrate L4-7 services: device types, design scenarios, and implementation Use multisite designs to meet rigorous requirements for redundancy and business continuity Troubleshoot and monitor ACI fabrics Improve operational efficiency through automation and programmability

Sustainability and Visitor Management in Tourist Historic Cities - Rubén Camilo Lois González 2020-08-25

This Special Issue on 'Sustainability and Visitor Management in Tourist Historic Cities' explores new trends and methods that contribute to sustainable practices for tourism planning and management in historic cities. Thanks to the differentiated approaches adopted by the authors, the Special Issue reflects on the environmental, physical, cultural, and social effects that tourism activity provokes in tourist historic cities. Considering the present debate on tourism in historic cities, there is a special focus on resident perceptions and the social problems and conflicts associated with various tourist activities that have emerged in recent years. New methodologies and sources to measure tourism impacts are also addressed in this book, especially the use of big data technology, another relevant topic. Papers include one literature review and six case studies in the historic cities of Seville and Toledo (Spain), Venice and Matera (Italy), and Porto (Portugal) and Popayán (Colombia). This Special Issue provides practical tools and policy recommendations to measure tourism impacts and promote sustainable management in tourist historic cities.

Who Decides the Budget? - Mark Hallerberg 2009

The budget is the main tool used to allocate scarce public resources, and it is in the context of the budget process that politicians must make

trade-offs between policy priorities. This book describes the budget practices, both formal and informal, in 10 countries of Latin America and explains fiscal results in terms of four features.

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

Emerging Market Economies and Financial Globalization -

Leonardo E. Stanley 2018-03-15

In the past, foreign shocks arrived to national economies mainly through trade channels, and transmissions of such shocks took time to come into effect. However, after capital globalization, shocks spread to markets almost immediately. Despite the increasing macroeconomic dangers that the situation generated at emerging markets in the South, nobody at the North was ready to acknowledge the pro-cyclicality of the financial system and the inner weakness of "decontrolled" financial innovations because they were enjoying from the "great moderation." Monetary policy was primarily centered on price stability objectives, without considering the mounting credit and asset price booms being generated by market liquidity and the problems generated by this glut. Mainstream economists, in turn, were not majorly attracted in integrating financial factors in their models. External pressures on emerging market economies (EMEs) were not eliminated after 2008, but even increased as international capital flows augmented in relevance thereafter. Initially economic authorities accurately responded to the challenge, but unconventional monetary policies in the US began to create important spillovers in EMEs. Furthermore, in contrast to a previous surge in liquidity, funds were now transmitted to EMEs throughout the bond market. The perspective of an increase in US interest rates by the FED is generating a reversal of expectations and a sudden flight to quality. Emerging countries' currencies began to experience higher volatility levels, and depreciation movements against a newly strong US dollar are also increasingly observed. Consequently, there are increasing doubts that the "unexpected" favorable outcome observed in most EMEs at the aftermath of the Global Financial Crisis (GFC) would remain.

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

HPE ATP - Hybrid IT Solutions V2 - HPE Press 2019-11-26

The Ecological Thought - Timothy Morton 2012-04-02

In this passionate, lucid, and surprising book, Timothy Morton argues that all forms of life are connected in a vast, entangling mesh. This interconnectedness penetrates all dimensions of life. No being,

construct, or object can exist independently from the ecological entanglement, Morton contends, nor does “Nature” exist as an entity separate from the uglier or more synthetic elements of life.

The Fast-Track Guide to VXLAN BGP EVPN Fabrics - Rene Cardona
2021-05-19

Master the day-to-day administration and maintenance procedures for existing VXLAN fabrics. In this book you'll discuss common issues and troubleshooting steps to help you keep your environment in stable operation. The Fast-Track Guide to VXLAN BGP EVPN Fabrics is a guide for network engineers and architects who can't spend too much time learning everything about VXLAN. It has been created with the end goal of providing you with a straightforward approach to understand, implement, administer, and maintain VXLAN BGP EVPN-based data center networks. Using this book, you will understand Virtual Extensible LAN (VXLAN) as a technology that combines network virtualization and service provider class network attributes to solve the performance and scalability limitations in a three-tier design. You will learn to combine multiple links and provide equal-cost multipathing to effortlessly scale speed requirements without being worried about potential loops. You will learn VXLAN BGP EVPN configuration procedures with graphical step-by-step examples. You will be introduced to foundational concepts in VXLAN without the need to go over hundreds of documentation pages. This book is a clear and precise guide to implementing a spine and leaf architecture running with VXLAN. It explains how to perform day-to-day maintenance and administration tasks after implementing your first VXLAN fabric. It also explains how to integrate external devices such as firewalls, routers, and load balancers to VXLAN; how to leverage your VXLAN fabric; and how to create multiple tenant networks to secure your critical infrastructure. What You Will Learn Discover the advantages of a VXLAN spine and leaf fabric over a traditional three-tier network design Work with the BGP L2VPN EVPN control plane VXLAN Examine the purpose of underlay and overlay in VXLAN Use multitenancy and tenant anycast gateways Connect your VXLAN fabric to external networks Who This Book Is For Senior network engineers, solutions architects, and data center engineers.

Advances on Mechanics, Design Engineering and Manufacturing II - Francisco Cavas-Martínez 2019-04-27

This book contains the papers presented at the International Joint Conference on Mechanics, Design Engineering and Advanced Manufacturing (JCM 2018), held on 20-22 June 2018 in Cartagena, Spain. It reports on cutting-edge topics in product design and manufacturing, such as industrial methods for integrated product and process design; innovative design; and computer-aided design. Further topics covered include virtual simulation and reverse engineering; additive manufacturing; product manufacturing; engineering methods in medicine and education; representation techniques; and nautical, aeronautics and aerospace design and modeling. The book is divided into six main sections, reflecting the focus and primary themes of the conference. The contributions presented here will not only provide researchers, engineers and experts in a range of industrial engineering subfields with extensive information to support their daily work; they are also intended to stimulate new research directions, advanced applications of the methods discussed, and future interdisciplinary collaborations.

Day One Data Center Fundamentals - Colin Wrightson 2016-04-15

Mobile Technologies and Applications for the Internet of Things - Michael E. Auer 2019

This book discusses and assesses the latest trends in the interactive mobile field, and presents the outcomes of the 12th International Conference on Interactive Mobile Communication Technologies and Learning (IMCL2018), which was held in Hamilton, Canada on October 11 and 12, 2018. Today, interactive mobile technologies are at the core of many - if not all - fields of society. Not only does the younger generation of students expect a mobile working and learning environment, but also the new ideas, technologies and solutions coming out practically every day are further strengthening this trend. Since its inception in 2006, the conference has been devoted to highlighting new approaches in interactive mobile technologies with a focus on learning. The IMCL conferences have since established themselves as a valuable forum for exchanging and discussing new research results and relevant trends, as well as practical experience and best-practice examples. This book contains papers in the fields of: Interactive Collaborative Mobile Learning Environments Mobile Health Care Training Game-based Learning Design of Internet of Things (IoT) Devices and Applications

Assessment and Quality in Mobile Learning. Its potential readership includes policymakers, educators and researchers in pedagogy and learning theory, schoolteachers, the learning industry, further education lecturers, etc.

Mastering Python Networking - Eric Chou 2018-08-29

Master the art of using Python for a diverse range of network engineering tasks Key Features Explore the power of Python libraries to tackle difficult network problems efficiently and effectively Use Python for network device automation, DevOps, and software-defined networking Become an expert in implementing advanced network-related tasks with Python Book Description Networks in your infrastructure set the foundation for how your application can be deployed, maintained, and serviced. Python is the ideal language for network engineers to explore tools that were previously available to systems engineers and application developers. In this second edition of Mastering Python Networking, you'll embark on a Python-based journey to transition from traditional network engineers to network developers ready for the next-generation of networks. This book begins by reviewing the basics of Python and teaches you how Python can interact with both legacy and API-enabled network devices. As you make your way through the chapters, you will then learn to leverage high-level Python packages and frameworks to perform network engineering tasks for automation, monitoring, management, and enhanced security. In the concluding chapters, you will use Jenkins for continuous network integration as well as testing tools to verify your network. By the end of this book, you will be able to perform all networking tasks with ease using Python. What you will learn Use Python libraries to interact with your network Integrate Ansible 2.5 using Python to control Cisco, Juniper, and Arista eAPI network devices Leverage existing frameworks to construct high-level APIs Learn how to build virtual networks in the AWS Cloud Understand how Jenkins can be used to automatically deploy changes in your network Use PyTest and Unittest for Test-Driven Network Development Who this book is for Mastering Python Networking is for network engineers and programmers who want to use Python for networking. Basic familiarity with Python programming and networking-related concepts such as Transmission Control Protocol/Internet Protocol (TCP/IP) will be useful.

SDN and NFV Simplified - Jim Doherty 2016-02-24

A Visual Guide to Understanding Software Defined Networks and Network Function Virtualization The simple, visual, at-a-glance guide to SDN and NFV: Core concepts, business drivers, key technologies, and more! SDN (Software Defined Networks) and NFV (Network Function Virtualization) are today's hottest areas of networking. Many executives, investors, sales professionals, and marketers need a solid working understanding of these technologies, but most books on the subject are written specifically for network engineers and other technical experts. SDN and NFV Simplified fills that gap, offering highly visual, “at-a-glance” explanations of SDN, NFV, and their underlying virtualizations. Built around an illustrated, story-telling approach, this answers the questions: Why does this technology matter? How does it work? Where is it used? What problems does it solve? Through easy, whiteboard-style infographics, you'll learn: how virtualization enables SDN and NFV; how datacenters are virtualized through clouds; how networks can also be virtualized; and how to maximize security, visibility, and Quality of Experience in tomorrow's fully-virtualized environments. Step by step, you'll discover why SDN and NFV technologies are completely redefining both enterprise and carrier networks, and driving the most dramatic technology migration since IP networking. That's not all: You'll learn all you need to help lead this transformation. Learn how virtualization establishes the foundation for SDN and NFV Review the benefits of VMs, the role of hypervisors, and the management of virtual resources Discover how cloud technologies enable datacenter virtualization Understand the roles of networking gear in virtualized datacenters See VMWare VMotion and VXLAN at work in the virtualized datacenter Understand multitenancy and the challenges of “communal living” Learn how core network functions and appliances can be virtualized Ensure performance and scalability in virtualized networks Compare modern approaches to network virtualization, including OpenFlow, VMWare Nicera, Cisco Insieme, and OpenStack Walk through the business case for SDN, NFV, and the Cloud Discover how the Software Defined Network (SDN) solves problems previously left unaddressed Understand SDN controllers—and who's fighting to control your network Use SDN and NFV to improve integration and say goodbye to “truck rolls” Enforce security, avoid data leakage, and protect assets through encryption Provide for effective monitoring and consistent Quality of Experience

(QoE) Learn how SDN and NFV will affect you—and what's next
[FOA Reference Guide to Fiber Optics](#) - Jim Hayes 2009-09-04

Updated February 2014 This book is an guide to the design and installation of outside plant fiber optic cabling networks. It was written as a reference book for instructors and students in classes aimed at FOA CFOT and CFOS/O OSP specialist certification as well as a reference for anyone working in the field. This book offers expansive coverage on the components and processes of fiber optics as used in all outside plant applications and installation practices. Underground, buried, aerial and submarine/underwater installations are covered in detail as is specialized testing for extreme long distance networks. Fiber to the home is given special treatment in an appendix where these new generation networks are described in detail. Complete OSP curriculum materials are available from FOA.

Arista Warrior - Gary A. Donahue 2012-10-04

Though Arista Networks is a relative newcomer in the data center and cloud networking markets, the company has already had considerable success. In this book, renowned consultant and technical author Gary Donahue (Network Warrior) provides an in-depth, objective guide to Arista's lineup of hardware, and explains why its network switches and Extensible Operating System (EOS) are so effective. Anyone with a CCNA or equivalent knowledge will benefit from this book, especially entrenched administrators, engineers, or architects tasked with building an Arista network. Is Arista right for your data center? Pick up this guide and find out. Topic highlights include: SysDB: the EOS system database that holds state, statuses, and variables Multichassis Link Aggregation (MLAG): for linking a port-channel to multiple switches instead of just one Latency Analyzer (LANZ): the interface-buffer troubleshooting tool with a reporting granularity of one millisecond VM Tracer: for adding, changing, and removing VLANs without human interaction Zero-Touch Provisioning (ZTP): for remote switch configuration Hardware advantages: including merchant silicon, low-latency networking, and power consumption Gotchas: issues with Arista switches or systems

Sustainable Development and Renovation in Architecture, Urbanism and Engineering - Pilar Mercader-Moyano 2017-03-17

This book provides an overview of the environmental problems that arise from construction activity, focusing on refurbishment as an alternative to the current crisis in the construction sector, as well as on measures designed to minimize the effects on the environment. Furthermore, it offers professionals insights into alternative eco-efficient solutions using new materials to minimize environmental impacts and offers solutions that they can incorporate into their own designs and buildings. It also demonstrates best practices in the cooperation between various universities in Andalusia in Spain and Latin America and many public and private companies and organizations. This book serves as a valuable reference resource for professionals and researchers and provides an overview on the status of investigations to find solutions to improve sustainable development in terms of materials, systems, facilities, neighborhoods, buildings, and awareness of the society involved.

Coordinating the Internet - Fredrik Lindeberg 2019-12-10

Många självklarheter i vårt digitala samhälle är beroende av Internet för att fungera. Allt från smarta dörrar för hemtjänster, till självscanningsapparaterna på ICA, till nyare bilar, moderna tillverkningsrobotar, telefoner och affärssystem. Den här licentiatavhandlingen reder ut vad Internet är, hur det styrs och vad det har för praktiska konsekvenser. Tidigare forskning finns bland annat inom telekommunikation där Internet liknas vid andra telekommunikationstjänster, så som kabel-TV eller mobiltelefoni, och inom digitalisering både inom management och informationssystem där Internet i det närmaste tas för givet som teknisk infrastruktur. Här tar jag en ansats där jag förklarar Internet ur ett kombinerat tekniskt och organisatoriskt perspektiv. Studien är principiellt uppdelad i tre delar. Den första delen fokuserar på att begreppsmässigt hitta ett sätt att diskutera Internet utan att essentiella aspekter faller bort, såsom styrningen eller konsekvenser av den tekniska designen. Jag landar i att Internet är både ett tekniskt och ett organisatoriskt fenomen. Tekniskt i bemärkelsen att det handlar om digital paketbaserad kommunikation (dvs att olika paket kan ta olika väg och att det inte finns ett beroende på en viss specifik väg, eller "krets"), vilket kan särskiljas från exempelvis kretskopplad kommunikation (dvs en specifik väg från sändare till mottagare) eller rent analog kommunikation. I denna tekniska dimension är Internet förhållandevis likt klassisk telekommunikation såsom kabel-TV och mobiltelefoni, och förlitar sig på best-effort paketbaserad kommunikation. I den andra dimensionen, styrning och organisation, är Internet ett explicit bottom-up fenomen som styrs med andra principer

och ideal än klassisk telekommunikation. Till sin utformning är denna minsta möjliga koordination som krävs för att möjliggöra koordinering av de tekniska unika identifierare som behövs för att Internet ska fungera (dvs idag DNS- och BGP-flororna av protokoll för användning av namn och nummer på Internet). Båda dimensionerna, de organisatoriska och tekniska, följer samma designprinciper, och generellt är det meningsfullt att se Internet som en ekologi av aktörer snarare än en organisation i strikt teoretiska termer (exempelvis finns ingen tydlig övergripande strategi, organisationsnummer eller löneutbetalare). Det är dessa designprinciper, som ligger väl i linje med systemarkitektursprinciper för datorsystem, som är orsaken till Internets lager-design där man (generellt) inte ska bry sig om vad som händer på andra lager än sitt eget (beskrivet som "separation of concerns" eller i dubbel negation "high cohesion" i texten) samt att ha en minimalistisk ansats till koordinering och enbart koordinera eller skapa beroenden mellan enheter (både tekniskt och organisatoriskt) när det verkligen behövs (beskrivet som "minimum coordination" eller "low coupling" i texten). Den andra delen fokuserar på hur Internet kan socialt påverkas eller förändras till något annat, eller till något med en annan funktion sett som en styrd organisation. Jag använder begreppet social robusthet, som motpol till teknisk robusthet som i hur man tekniskt kan förstöra Internet, för att diskutera dessa aspekter. Slutsatserna här mynnar ut i att Internets explicita bottom-up och problemsuppdelnings-design gör det märkbart svårt för någon att medvetet påverka Internet för att ändra dess beskaffenhet, och dessutom visar jag att även om man praktiskt lyckas ta över de formellt beslutande råden (exempelvis ICANNs och IETFs styrelser) så finns det inga formella eller praktiska hinder för att bara ignorera dem (dvs switching costs för just ICANN eller IETF är låga, om än tekniskt omständligt med att konfigurera om rötter och routing-tabeller, och betydligt enklare än att gå från IPv4 till IPv6 då utrustning kan behöva ersättas och därmed en betydligt högre switching cost). Med andra ord, det är enklare att byta ut Internets koordinerare än att byta ut Internet mot något som fungerar annorlunda. Däremot är den rådande politiska världsordningen ett hot mot Internet, eftersom den regelstyrda och koordinerade världsordningen inte längre är lika självklar som den varit tidigare. Den tredje och sista studien fokuserar på nätneutralitet, dvs rätten nätverksoperatörer har att fånga värde i andra dimensioner än trafikmängd, som en praktiskt effekt av hur Internet styrs och fungerar. Det primära praktiska bidraget är att nätneutralitet inte får ses som enbart en reglerings och lagstiftningsfråga utan det är mer relevant att prata om i termer av nätneutralitet i praktiken. I den bemärkelsen är lagstiftningens vara eller inte vara mindre intressant än praktisk nätneutralitets vara eller inte vara och en tyngdpunktsförskjutning i den offentliga debatten hade fört diskussionen närmare hur Internet fungerar. Sammanfattningsvis ger Internets designprinciper att marknadskrafter, och ej direkt reglering, ska möjliggöra nätneutralitet. För att förtydliga, tanken är att det ska finnas konkurrens inom de flesta nivåer eller lager, och att det är av vikt att det finns konkurrens rakt igenom så att en kundvilja för paketneutralitet på tjänstenivå även påverkar nätägar- och infrastrukturnivå, så att det är användarnas efterfrågan som leder till nätneutralitet (om den användarviljan finns). Dock kan det mycket väl vara så att man som användare inte är intresserad av nätneutralitet och då ska tjänsteleverantörer, nätägare och infrastrukturoperatörer inte heller tvingas vara neutrala genom lagstiftning då det går stick i stäv med designprinciperna. Inte heller ska en grups vilja kring nätneutralitet påverka andras möjligheter att välja. Genomgående identifierar jag två kolliderande världsbilder, den distribuerade regelstyrda och koordinerade ordningen i sitt perspektiv med sina förkämpar, och den mer integrerande och suveräna världsordningen med sitt perspektiv och sina förkämpar. Rent praktiskt uppfyller Internet en önskad funktion i den tidigare men ej i den senare, då Internet designmässigt är byggt för att tillåta snarare än kontrollera och bestämma. Exempelvis finns det inte inbyggda (tekniska) mekanismer i Internet för att till exempel möjliggöra statlig övervakning eller kontroll av material som finns tillgängligt, och då ligger det mer i statens intresse att ha kontrollerade telekommunikationstjänster, såsom kabel-TV, mobiltelefoni och liknande lösningar där man inte helt enkelt kan lägga på ett "extra lager" för att uppnå kryptering, anonymitet eller tillgång till andra tjänster. I texten använder jag perspektiven tillsammans med teknologi, marknader och byråkrati för att fånga upp dynamiken och strömningarna i Internet-ekologin och jämför med tekniska samhällsförändringar, som exempelvis järnvägsnät, postverk och finansiella marknader. Jag konstaterar att Internet har varit styrt av teknologiskt baserade värderingar, till skillnad från de andra exemplen som i huvudsak har utformats av dynamiken

mellan byråkrati och marknad. I denna mån förelår jag att teknologi kan användas som strömning och motperspektiv till den klassiska uppställningen med byråkrati och marknad för att beskriva fenomen i digitaliseringens tidsålder. Avhandlingen sätter även pågående trender i ett bredare perspektiv mot både organisation och teknik, och trycker på vikten av att förstå delarna var för sig och tillsammans för att på ett rikare sätt måla upp helheten. The modern society is to a large extent Internet-dependent. Today we rely on the Internet to handle communication for smart doors, self-scanning convenience stores, connected cars, production robots, telephones and ERP-systems. The purpose of this thesis is to unbundle the Internet, its technology, its coordination, and practical and theoretical consequences. Earlier research has, in telecommunications, focused on the Internet as one of many potential telecommunications services, such as cellphones or cable-TV, and the management and information systems field has by and large treated the Internet as black-boxable infrastructure. This thesis explains the Internet from the combined perspectives of technology and coordination. This text contains three empirical studies. The first is focused on conceptualizing and discussing the Internet in a meaningful way using both technology and coordination frameworks. I unceremoniously conclude that the Internet is both a technological and a coordination phenomenon and neither of these aspects can be ignored. The Internet is technological in that it concerns digital packet switched digital communication (as opposed to circuit switched) or purely analog communications. The technological dimension of the Internet is similar in its constituency to classical telecommunications networks, and has best-effort mechanisms for packet delivery. In the other dimension, coordination, the Internet is an explicit bottom-up phenomenon minimally coordinated (or governed) by other ideals than classical telecommunications networks and systems. At its core this least necessary coordination concerns technical unique identifiers necessary for inter-network communication (in practice today manifested as naming with the DNS protocol suite, and numbering with the BGP protocol suite). Both dimensions follow similar design characteristics; the design of the technical Internet is similar to the design of the coordination of the Internet. These design principles, which are well aligned with software design principles, is the cause of the Internet's layered design ("separation of concerns" in practice) and minimal view of coordination (the "least coordinated Internet"). In general terms it is fruitful to view the Internet and involved actors as an ecology, rather than one organization or entity in need of governance or control. The second study looks at the social resilience of the Internet. That is, is it possible through social means to change what the Internet is or can be viewed as. I use social resilience as a counterpart to technical resilience, i.e. resilience to technical interference. In essence, the bottom-up and separations of concerns design of the coordination aspect of the Internet minimizes possible influence of actors intent on mission disruption. I also practically show that even a take-over of the central councils have little effect the constituency of the Internet, since these councils are not invested with formal powers of enforcement. This thesis suggests that the cost of switching from ICANN and IETF to another set of organizations is quite low due to the nature of the coordination of the Internet, compared to for example, switching all equipment to IPv6 capable equipment. However, the current political situation is a threat to the current Internet regime, since an international and rule-based world order is no longer on all states' agendas. The final empirical study focus on the practical and theoretical implications of the Internet on the case of net neutrality. The primary contribution is that de facto and de jure net neutrality differ in practice, and as such de facto net neutrality deserves more attention. Also, I suggest that any regulation, either for or against net neutrality, is problematic, since such regulation would interfere with the inherent coordination mechanisms of the Internet. As such regulation should focus on providing the necessary markets for Internet function given the coordination and design of the Internet. As a net neutrality example, net neutral Internet access options should exist as part of a natural service offering if wanted by customers, not due to direct regulation. Throughout the thesis I identify two colliding world orders, both in terms of digital communication networks and terms of organizing society in general: the rule-based and coordinating order with its champions, and the integrated or sovereign order with its champions. In practical terms, the Internet can be considered a want in the former (the distributed perspective), but not the later (the integrative perspective), since the Internet lacks inherent (technical) controls for surveillance and content control which are necessary in a world order where borders are important. Regardless of if that importance stems

from state oversight or intellectual property rights legislation. I use these perspectives together with technology, markets and bureaucracy to catch the dynamics of the Internet ecology. I then compare these dynamics with other technological and societal phenomena, such as railway networks, postal services and financial markets. And conclude that the Internet (as conceptualized in this thesis) can best be explained by technological values, in opposite to the other examples which can best be explained by the dynamics of markets and bureaucracies without any real influence of the values of technology. As such, I suggest that the classical frame of markets and bureaucracy can fruitfully be expanded with technology to better explain the Internet and similar digitization phenomena. This thesis puts current trends in a broader perspective based on technology and organization, where the two perspectives together better can draw the full picture in a rich fashion.

IBM and Cisco: Together for a World Class Data Center - Jon Tate 2013-07-31

This IBM® Redbooks® publication is an IBM and Cisco collaboration that articulates how IBM and Cisco can bring the benefits of their respective companies to the modern data center. It documents the architectures, solutions, and benefits that can be achieved by implementing a data center based on IBM server, storage, and integrated systems, with the broader Cisco network. We describe how to design a state-of-the art data center and networking infrastructure combining Cisco and IBM solutions. The objective is to provide a reference guide for customers looking to build an infrastructure that is optimized for virtualization, is highly available, is interoperable, and is efficient in terms of power and space consumption. It will explain the technologies used to build the infrastructure, provide use cases, and give guidance on deployments.

The Pleasure of Finding Things Out - Richard P. Feynman 2005-04-06

This collection from scientist and Nobel Peace Prize winner highlights the achievements of a man whose career reshaped the world's understanding of quantum electrodynamics. The Pleasure of Finding Things Out is a magnificent treasury of the best short works of Richard P. Feynman-from interviews and speeches to lectures and printed articles. A sweeping, wide-ranging collection, it presents an intimate and fascinating view of a life in science-a life like no other. From his ruminations on science in our culture to his Nobel Prize acceptance speech, this book will fascinate anyone interested in the world of ideas.

Data Center Networks - Yang Liu 2013-09-26

This SpringerBrief presents a survey of data center network designs and topologies and compares several properties in order to highlight their advantages and disadvantages. The brief also explores several routing protocols designed for these topologies and compares the basic algorithms to establish connections, the techniques used to gain better performance, and the mechanisms for fault-tolerance. Readers will be equipped to understand how current research on data center networks enables the design of future architectures that can improve performance and dependability of data centers. This concise brief is designed for researchers and practitioners working on data center networks, comparative topologies, fault tolerance routing, and data center management systems. The context provided and information on future directions will also prove valuable for students interested in these topics.

Intellectual Property on the Internet - World Intellectual Property Organization 2002

Report addresses the far-reaching impact that digital technologies-- the Internet in particular-- have had on intellectual property (IP) and the international IP system.

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

Cloud Essentials - Susan L. Cook 2013-05-02

CompTIA-Authorized courseware for the Cloud Essentials Exam

(CLO-001) What better way to get up to speed on cloud computing than with this new book in the popular Sybex Essentials series? Cloud Essentials covers the basics of cloud computing and its place in the modern enterprise. Explore public and private clouds; contrast the "as a service" models for PaaS, SaaS, IaaS, or XaaS platforms; plan security; and more. In addition, the book covers the exam objectives for the both the CompTIA Cloud Essentials (Exam CLO-001) exam and the EXIN Cloud Computing Foundation (EX0-116) certification exams and includes suggested exercises and review questions to reinforce your learning. Gets you up to speed on the hottest trend in IT--cloud computing Prepares IT professionals and those new to the cloud for and cover all of the CompTIA Cloud Essentials and EXIN Cloud Computing Foundation exam objectives Serves as CompTIA Authorized courseware for the exam Examines various models for cloud computing implementation, including public and private clouds Contrasts "as a service" models for platform (PaaS), software (SaaS), infrastructure (IaaS), and other technologies (XaaS) Identifies strategies for implementation on tight budgets and goes into planning security and service management Get a through grounding in cloud basics and prepare for your cloud certification exam with Cloud Essentials.

Arista Warrior - Gary A. Donahue 2019-06-28

Arista Networks has become a key player when it comes to software-driven cloud networking solutions for large data center storage and computing environments. In this updated edition of Arista Warrior, renowned consultant and technical author Gary Donahue Network Arista Networks has become a key player when it comes to software-driven cloud networking solutions for large data center, storage, and computing environments, and with their continued expansion and growth since the first edition was released, this book is a welcome update. In this updated edition of Arista Warrior, renowned trainer, consultant, and technical

author Gary A. Donahue (Network Warrior) provides an in-depth, objective guide to Arista's products explains why its network switches, software products, and Extensible Operating System (EOS) are so effective. Anyone with a CCNA or equivalent knowledge will benefit from this book, especially entrenched administrators, engineers, or architects tasked with building an Arista network. Is Arista right for your network? Pick up this in-depth guide and find out. In addition to the topics covered in the first edition, this book also includes: Configuration Management: Config sessions, config replace, etc. CloudVision: Arista's management, workload orchestration, workflow automation, configuration, and telemetry tool VXLAN: Layer-2 overlay networking FlexRoute: Two million routes in hardware Tap Aggregation: Make your switch or blade into a Tap Aggregation device Advanced Mirroring: Mirror to a port-channel or even the CPU Network Design: A quick overview of the Arista recommended network designs vEOS: Arista's Extensible Operating System in a VM with step-by-step instructions cEOS: Arista's EOS in a container with examples eAPI: Arista's fabulous extended Application Programmable Interface

Understanding Media - Marshall McLuhan 2016-09-04

When first published, Marshall McLuhan's Understanding Media made history with its radical view of the effects of electronic communications upon man and life in the twentieth century.

Cyber-security of SCADA and Other Industrial Control Systems - Edward J. M. Colbert 2016-08-23

This book provides a comprehensive overview of the fundamental security of Industrial Control Systems (ICSs), including Supervisory Control and Data Acquisition (SCADA) systems and touching on cyber-physical systems in general. Careful attention is given to providing the reader with clear and comprehensive background and reference material for each topic pertinent to ICS security. This book offers answers to such questions as: Which specific operating and security issues may lead to a loss of efficiency and operation? What methods can be used to monitor and protect my system? How can I design my system to reduce threats? This book offers chapters on ICS cyber threats, attacks, metrics, risk, situational awareness, intrusion detection, and security testing, providing an advantageous reference set for current system owners who wish to securely configure and operate their ICSs. This book is appropriate for non-specialists as well. Tutorial information is provided in two initial chapters and in the beginnings of other chapters as needed. The book concludes with advanced topics on ICS governance, responses to attacks on ICS, and future security of the Internet of Things.

Wireless Networking Technology - Steve Rackley 2007

Today's wireless communications engineer needs to understand both wireless networking technologies & radio frequency (RF) principles to maximise the performance of the networks that they implement. This book provides a guide to wireless networking technologies & RF propagation methods, enabling the engineer to effectively solve problems.