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Software Engineering and Algorithms in Intelligent Systems - Radek Silhavy 2018-05-16

This book presents new software engineering approaches and methods, discussing real-world problems and exploratory research that describes novel approaches, modern design techniques, hybrid algorithms and empirical methods. This book constitutes part of the refereed proceedings of the Software Engineering and Algorithms in Intelligent Systems Section of the 7th Computer Science On-line Conference 2018 (CSOC 2018), held in April 2018.

Towards New E-Infrastructure and E-Services for Developing Countries - Rafik Zitouni 2021

This book constitutes the thoroughly refereed proceedings of the 12th International Conference on e-Infrastructure and e-Services for Developing Countries, AFRICOMM 2020, held in Ebène City, Mauritius, in December 2020. Due to COVID-19 pandemic the conference was held virtually. The 20 full papers were carefully selected from 90 submissions. The papers are organized in four thematic sections on dynamic spectrum access and mesh networks; wireless sensing and 5G networks; software-defined networking; Internet of Things; e-services and big data; DNS resilience and performance. .

Transportation and Power Grid in Smart Cities - Hussein T. Mouftah 2018-11-28

With the increasing worldwide trend in population migration into urban centers, we are beginning to see the emergence of the kinds of mega-cities which were once the stuff of science fiction. It is clear to most urban planners and developers that accommodating the needs of the tens of millions of inhabitants of those megalopolises in an orderly and uninterrupted manner will require the seamless integration of and real-time monitoring and response services for public utilities and transportation systems. Part speculative look into the future of the world's urban centers, part technical blueprint, this visionary book helps lay the groundwork for the communication networks and services on which tomorrow's "smart cities" will run. Written by a uniquely well-qualified author team, this book provides detailed insights into the technical requirements for the wireless sensor and actuator networks required to make smart cities a reality.

F5 Networks TMOS Administration Study Guide - Philip Jönsson 2018-02-26

From the authors of the best-selling, highly rated F5 Application Delivery Fundamentals Study Guide comes the next book in the series covering the 201 TMOS Administration exam. Whether you're a novice or heavyweight, the book is designed to provide you with everything you need to know and understand in order to pass the exam and become an F5 Certified BIG-IP Administrator at last. All network, protocol and application level subjects and F5 specific topics found in the exam blueprint are covered in full and in detail. The book is useful not only for those planning to achieve the certification but also for administrators working with BIG-IP platforms every day who wish to widen their knowledge or have a reference to hand when necessary. The book contains over 350 diagrams, over 90 test questions and a number of lab exercises to aid and re-enforce understanding and assist in preparing for the exam. A full guide to setting up a virtual lab environment is also included. Download of the PDF file has been disabled. To download the lab

components, please visit <https://www.f5books.eu/building-your-own-lab/>

Журнал сетевых решений / LAN No04/2014 - Открытые системы 2022-05-07

В номере:802.11ac: в ожидании «второй волны»С появлением технологии IEEE 802.11ac беспроводные сети Wi-Fi перешагнули гигабитный барьер. И хотя доля устройств с поддержкой новой технологии стремительно растет, некоторые эксперты рекомендуют дождаться второй волны решений – Wave 2, где преимущества 802.11ac в высокой скорости будут реализованы в полной мере.Инфраструктурное обеспечение беспроводных решений нового поколенияПри всей эффективности и быстродействии беспроводных технологий они не могут обойтись без проводной сети. Если при ее построении будут допущены просчеты, то стремительный рост трафика Wi-Fi может привести к возникновению узких мест в кабельной системе. Появление новых стандартов на беспроводные сети привносит дополнительные сложности.Технологии реализации программно конфигурируемых сетей: Overlay vs OpenFlowТекущий срез российского рынка СККорпоративная мобильность: что и как защищаемСерверы, СХД и флэш-память: архитектура без узких местКуда плывут «облака» операторовНадежность и эффективность в стандартном форматеи многое другое

Proceedings of the XVI International symposium Symorg 2018 - Nevenka Žarkić-Joksimović 2018-06-12

Software-Defined Wide Area Network Architectures and Technologies - Cheng Sheng 2021-05-06

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 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

5G Networks - Anwer Al-Dulaimi 2018-10-02

A reliable and focused treatment of the emergent technology of fifth generation (5G) networks This book provides an understanding of the most recent developments in 5G, from both theoretical and industrial perspectives. It identifies and discusses technical challenges and recent results related to improving capacity and spectral efficiency on the radio interface side, and operations management on the core network side. It covers both existing network technologies and those currently in development in three major areas of 5G: spectrum extension, spatial spectrum utilization, and core network and network topology management. It explores new spectrum opportunities; the capability of radio access technology; and the operation of network infrastructure and heterogeneous QoE provisioning. 5G Networks: Fundamental Requirements, Enabling Technologies, and Operations Management is split into five sections: Physical Layer for 5G Radio Interface Technologies; Radio Access Technology for 5G Networks; 5G Network Interworking and Core Network Advancements; Vertical 5G Applications; and R&D and 5G Standardization. It starts by introducing emerging technologies in 5G software, hardware, and management aspects before moving on to cover waveform design for 5G and beyond; code design for multi-user MIMO; network slicing for 5G networks; machine type communication in the 5G era; provisioning unlicensed LAA interface for smart grid applications; moving toward all-IT 5G end-to-end infrastructure; and more. This valuable resource: Provides a comprehensive reference for all layers of 5G networks Focuses on fundamental issues in an easy language that is understandable by a wide audience Includes both beginner and advanced examples at the end of each section Features sections on major open research challenges 5G Networks: Fundamental Requirements, Enabling Technologies, and Operations Management is an excellent book for graduate students, academic researchers, and industry professionals, involved in 5G technology.

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 Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing - Roger Lee 2016-05-05

This edited book presents scientific results of the 17th IEEE/ACIS International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (SNPD 2016) which was held on May 30 - June 1, 2016 in Shanghai, China. The aim of this conference was to bring together researchers and scientists, businessmen and entrepreneurs, teachers, engineers, computer users, and students to discuss the numerous fields of computer science and to share their experiences and exchange new ideas and information in a meaningful way. Research results about all aspects (theory, applications and tools) of computer and information science, and to discuss the practical challenges encountered along the way and the solutions adopted to solve them.

Advances in Hydroinformatics - Philippe Gourbesville 2022-10-24

This book includes a collection of extended papers based on presentations given during the SIMHYDRO 2021 conference, held in Sophia Antipolis in June 2021 with the support of French Hydrotechnic Society (SHF). It focused on "Models for complex and global water issues—Practices and expectations". The water field is continuously mobilizing models for addressing complex issues and new challenges. Within the context of the climate change, the water issues are exacerbated with the competition among uses. The limited water resources request from the modern societies to review some of the historical paradigms traditionally used and to promote new approaches for a sustainable management. The combined complexity and vulnerability of large urban environments request a deep understanding of water uses and environmental synergy. At the same time, water-related natural hazards are contentiously straightening modern societies that must adapt and implement a more resilient environment. In parallel, in the industrial sector, the search for a high level of efficiency for hydraulic machinery requests to simulate complex processes. Under all these situations, the models currently used represent only partly the physical phenomena involved, the scale of the processes, the hypothesis included within the different numerical tools, etc. The design and the operation of relevant models represent a challenging task for the modeller who is responsible of the knowledge part of a global

system that is dedicated to support the decision makers. The book explores both the limitations and performance of current models and presents the latest developments based on new numerical schemes, high-performance computing, multi-physics and multi-scales methods, and better interaction with field or scale model data. It addresses the interests of practitioners, stakeholders, researchers, and engineers active in this field.

Computer Networks, Big Data and IoT - A.Pasumpon Pandian 2021-06-21

This book presents best selected research papers presented at the International Conference on Computer Networks, Big Data and IoT (ICCB 2020), organized by Vaigai College Engineering, Madurai, Tamil Nadu, India, during 15–16 December 2020. The book covers original papers on computer networks, network protocols and wireless networks, data communication technologies and network security. The book is a valuable resource and reference for researchers, instructors, students, scientists, engineers, managers and industry practitioners in those important areas.

OPNET IoT Simulation - Min Chen 2019-09-17

This is the first book offering an in-depth and comprehensive IoT network simulation, supported by OPNET tool. Furthermore, the book presents the simulations of IoT in general, not limited by OPNET. The authors provide rich OPNET IoT simulation codes, with detailed explanation regarding the functionalities of the model. These codes can facilitate readers' fast implementation, and the shared model can guide readers through developing their own research. This book addresses various versions of Internet of Things (IoT), including human-centric IoT, green IoT, Narrow band IoT, Smart IoT, IoT-Cloud integration. The introduced OPNET IoT simulation provides a comprehensive platform to simulate above-mentioned IoT systems. Besides, this book introduces OPNET semi-physical simulation in detail. Based on this technology, simulated IoT and practical cloud are seamlessly connected with each other. On top of this "IoT-cloud-integration" semi-physical simulation environment, various smart IoT applications can be realized.

Life-Cycle of Engineering Systems: Emphasis on Sustainable Civil Infrastructure - Jaap Bakker 2016-11-18

This volume contains the papers presented at IALCCE2016, the fifth International Symposium on Life-Cycle Civil Engineering (IALCCE2016), to be held in Delft, The Netherlands, October 16-19, 2016. It consists of a book of extended abstracts and a DVD with full papers including the Fazlur R. Khan lecture, keynote lectures, and technical papers from all over the world. All major aspects of life-cycle engineering are addressed, with special focus on structural damage processes, life-cycle design, inspection, monitoring, assessment, maintenance and rehabilitation, life-cycle cost of structures and infrastructures, life-cycle performance of special structures, and life-cycle oriented computational tools. The aim of the editors is to provide a valuable source for anyone interested in life-cycle of civil infrastructure systems, including students, researchers and practitioners from all areas of engineering and industry.

Towards new e-Infrastructure and e-Services for Developing Countries - Rafik Zitouni 2021-03-03

This book constitutes the thoroughly refereed proceedings of the 12th International Conference on e-Infrastructure and e-Services for Developing Countries, AFRICOMM 2020, held in Ebène City, Mauritius, in December 2020. Due to COVID-19 pandemic the conference was held virtually. The 20 full papers were carefully selected from 90 submissions. The papers are organized in four thematic sections on dynamic spectrum access and mesh networks; wireless sensing and 5G networks; software-defined networking; Internet of Things; e-services and big data; DNS resilience and performance.

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

Wireless Communications, Networking and Applications - Qing-An Zeng 2015-10-28

This book is based on a series of conferences on Wireless Communications, Networking and Applications that have been held on December 27-28, 2014 in Shenzhen, China. The meetings themselves were a response to technological developments in the areas of wireless communications, networking and applications and facilitate researchers, engineers and students to share the latest research results and the advanced research methods of the field. The broad variety of disciplines involved in this research and the differences in approaching the basic problems are probably typical of a developing field of interdisciplinary research. However, some main areas of research and development in the emerging areas of wireless communication technology can now be identified. The contributions to this book are mainly selected from the papers of the conference on wireless communications, networking and applications and reflect the main areas of interest: Section 1 - Emerging Topics in Wireless and Mobile Computing and Communications; Section 2 - Internet of Things and Long Term Evolution Engineering; Section 3 - Resource Allocation and Interference Management; Section 4 - Communication Architecture, Algorithms, Modeling and Evaluation; Section 5 - Security, Privacy, and Trust; and Section 6 - Routing, Position Management and Network Topologies.

Security in Network Functions Virtualization - Zonghua Zhang 2017-11-20

The software and networking industry is experiencing a rapid development and deployment of Network Functions Virtualization (NFV) technology, in both enterprise and cloud data center networks. One of the primary reasons for this technological trend is that NFV has the capability to reduce CAPEX and OPEX, whilst increasing networking service efficiency, performance, agility, scalability, and resource utilization. Despite such well-recognized benefits, security remains a major concern of network service providers and seriously impedes the further expansion of NFV. This book is therefore dedicated to investigating and exploring the potential security issues of NFV. It contains three major elements: a thorough overview of the NFV framework and architecture, a comprehensive threat analysis aiming to establish a layer-specific threat taxonomy for NFV enabled networking services, and a series of comparative studies of security best practices in traditional networking scenarios and in NFV, ultimately leading to a set of

recommendations on security countermeasures in NFV. This book is primarily intended for engineers, engineering students and researchers and those with an interest in the field of networks and telecommunications (architectures, protocols, services) in general, and particularly software-defined network (SDN) and network functions virtualization (NFV)-based security services. Extensively studies security issues in NFV Presents a basis or guideline for both academia researchers and industry practitioners to work together to achieve secure and dependable lifecycle management of NFV based network services

Internet Routing Architectures - Bassam Halabi 2000

Intended for organisations needing to build an efficient and reliable enterprise network linked to the Internet, this second edition explains the current Internet architecture and shows how to evaluate service providers dealing with connection issues.

Computer Networks - Piotr Gaj 2015-05-27

This book constitutes the thoroughly refereed proceedings of the 22st International Conference on Computer Networks, CN 2015, held in Brunów, Poland, in June 2015. The 42 revised full papers presented were carefully reviewed and selected from 79 submissions. The papers in these proceedings cover the following topics: computer networks, distributed computer systems, communications and teleinformatics.

Groundwater-Surface Water Interactions - Habil. Jörg Lewandowski 2020-12-10

Recent years have seen a paradigm shift in our understanding of groundwater-surface water interactions: surface water and aquifers were long considered discrete, separate entities; they are now understood as integral components of a surface-subsurface continuum. This book provides an overview of current research advances and innovative approaches in groundwater-surface water interactions. The 20 research articles and 1 communication cover a wide range of thematic scopes, scales, and experimental and modelling methods across different disciplines (hydrology, aquatic ecology, biogeochemistry, and environmental pollution). The book identifies current knowledge gaps and reveals the challenges in establishing standardized measurement, observation, and assessment approaches. It includes current hot topics with environmental and societal relevance such as eutrophication, retention of legacy, and emerging pollutants (e.g., pharmaceuticals and microplastics), urban water interfaces, and climate change impacts. The book demonstrates the relevance of processes at groundwater-surface water interfaces for (1) regional water balances and (2) quality and quantity of drinking water resources. As such, this book represents the long-awaited transfer of the above-mentioned paradigm shift in understanding of groundwater-surface water interactions from science to practice.

MCA Microsoft Certified Associate Azure Network Engineer Study Guide - Puthiyavan Udayakumar 2022-09-15

Prepare to take the NEW Exam AZ-700 with confidence and launch your career as an Azure Network Engineer Not only does MCA Microsoft Certified Associate Azure Network Engineer Study Guide: Exam AZ-700 help you prepare for your certification exam, it takes a deep dive into the role and responsibilities of an Azure Network Engineer, so you can learn what to expect in your new career. You'll also have access to additional online study tools, including hundreds of bonus practice exam questions, electronic flashcards, and a searchable glossary of important terms. Prepare smarter with Sybex's superior interactive online learning environment and test bank. Exam AZ-700, Designing and Implementing Microsoft Azure Networking Solutions, measures your ability to design, implement, manage, secure, and monitor technical tasks such as hybrid networking; core networking infrastructure; routing; networks; and private access to Azure services. With this in-demand certification, you can qualify for jobs as an Azure Network Engineer, where you will work with solution architects, cloud administrators, security engineers, application developers, and DevOps engineers to deliver Azure solutions. This study guide covers 100% of the objectives and all key concepts, including: Design, Implement, and Manage Hybrid Networking Design and Implement Core Networking Infrastructure Design and Implement Routing Secure and Monitor Networks Design and Implement Private Access to Azure Services If you're ready to

become the go-to person for recommending, planning, and implementing Azure networking solutions, you'll need certification with Exam AZ-700. This is your one-stop study guide to feel confident and prepared on test day. Trust the proven Sybex self-study approach to validate your skills and to help you achieve your career goals!

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.

Building the Future Internet through FIRE - Martin Serrano 2022-09-01

The Internet as we know it today is the result of a continuous activity for improving network communications, end user services, computational processes and also information technology infrastructures. The Internet has become a critical infrastructure for the human-being by offering complex networking services and end-user applications that all together have transformed all aspects, mainly economical, of our lives. Recently, with the advent of new paradigms and the progress in wireless technology, sensor networks and information systems and also the inexorable shift towards everything connected paradigm, first as known as the Internet of Things and lately envisioning into the Internet of Everything, a data-driven society has been created. In a data-driven society, productivity, knowledge, and experience are dependent on increasingly open, dynamic, interdependent and complex Internet services. The challenge for the Internet of the Future design is to build robust enabling technologies, implement and deploy adaptive systems, to create business opportunities considering increasing uncertainties and emergent systemic behaviors where humans and machines seamlessly cooperate.

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?

IBM Software Defined Infrastructure for Big Data Analytics Workloads - Dino Quintero 2015-06-29

This IBM® Redbooks® publication documents how IBM Platform Computing, with its IBM Platform Symphony® MapReduce framework, IBM Spectrum Scale (based Upon IBM GPFS™), IBM Platform LSF®, the Advanced Service Controller for Platform Symphony are work together as an infrastructure to manage not just Hadoop-related offerings, but many popular industry offerings such as Apache Spark, Storm, MongoDB, Cassandra, and so on. It describes the different ways to run Hadoop in a big data environment, and demonstrates how IBM Platform Computing solutions, such as Platform Symphony and Platform LSF with its MapReduce Accelerator, can help performance and agility to run Hadoop on distributed workload managers offered by IBM. This information is for technical professionals (consultants, technical support staff, IT architects, and IT specialists) who are responsible for delivering cost-effective cloud services and big data solutions on IBM Power Systems™ to help uncover insights among client's data so they can optimize

product development and business results.

F5 Networks Application Delivery Fundamentals Study Guide - Philip Jönsson 2014-12-14
The only study guide or material you'll need to prepare for the F5 Networks Application Delivery Fundamentals Exam. From the author of the most successful, popular and bestselling F5 technical books available today and the author of the first freely available study guide for this exam. The book's authors have taken great care to ensure all exam topics and fundamental networking areas are covered in full. The OSI Model, the Data Link, Network, Transport and Application Layers, Switching & Routing, F5 Solutions, Load Balancing, Security and Application Delivery Platforms are all covered in depth. No prior knowledge or experience is assumed. There are 13 chapters, 90 diagrams and over 70 test questions to ensure you have everything necessary to prepare for and pass the exam with confidence. Download of the PDF file has been disabled.

Advances in Computer Communications and Networks From Green, Mobile, Pervasive Networking to Big Data Computing - Kewei Sha 2022-09-01
Recent developments in computer communications and networks have enabled the deployment of exciting new areas such as Internet of Things and collaborative big data analysis. The design and implementation of energy efficient future generation communication and networking technologies also require the clever research and development of mobile, pervasive, and large-scale computing technologies. Advances in Computer Communications and Networks: from Green, Mobile, Pervasive Networking to Big Data Computing studies and presents recent advances in communication and networking technologies reflecting the state-of-the-art research achievements in novel communication technology and network optimization. Technical topics discussed in the book include: Data Center Networks Mobile Ad Hoc Networks Multimedia Networks Internet of Things Wireless Spectrum Network Optimization. This book is ideal for personnel in computer communication and networking industries as well as academic staff and collegial, master, Ph.D. students in computer science, computer engineering, electrical engineering and telecommunication systems.

OpenFlow SDN - 2013-09-18
SDN (Software Defined Network) is a new network architecture that separates the control plane from the data plane. OpenFlow is a protocol that enables the control plane to communicate with the data plane. This book provides a comprehensive overview of OpenFlow and SDN. It covers the OpenFlow protocol, SDN architecture, and various applications of SDN. The book also discusses the challenges and opportunities of SDN. * OpenFlow is a key technology for SDN. * SDN is a key technology for the future of networking. * SDN is a key technology for the future of cloud computing. (Open vSwitch Floodlight)

Informatics, Networking and Intelligent Computing - Jiaying Zhang 2015-05-06
This proceedings volume contains selected papers presented at the 2014 International Conference on Informatics, Networking and Intelligent Computing, held in Shenzhen, China. Contributions cover the latest developments and advances in the field of Informatics, Networking and Intelligent Computing.

Communication Technologies for Vehicles - Juan Moreno García-Loygorri 2018-04-27
This book constitutes the proceedings of the 13th International Workshop on Communication Technologies for Vehicles, Nets4Cars/Nets4Trains/Nets4Aircraft 2018, held in Madrid, Spain, in May 2018. The 17 full papers presented together with 2 demo papers in this volume were carefully reviewed and selected from numerous submissions. The volume features contributions in the theory or practice of intelligent transportation systems (ITS) and communication technologies for: - Vehicles on road: e.g. cars, trucks and buses; - Air: e.g. aircraft and unmanned aerial vehicles; and - Rail: e.g. trains, metros and trams.

Data Center Virtualization Fundamentals - Gustavo Alessandro Andrade Santana 2013-06-21
Data Center Virtualization Fundamentals For many IT organizations, today's greatest challenge is to drive more value, efficiency, and utilization from data centers. Virtualization is the best way to meet this challenge. Data Center Virtualization Fundamentals brings together the comprehensive

knowledge Cisco professionals need to apply virtualization throughout their data center environments. Leading data center expert Gustavo A. A. Santana thoroughly explores all components of an end-to-end data center virtualization solution, including networking, storage, servers, operating systems, application optimization, and security. Rather than focusing on a single product or technology, he explores product capabilities as interoperable design tools that can be combined and integrated with other solutions, including VMware vSphere. With the author's guidance, you'll learn how to define and implement highly-efficient architectures for new, expanded, or retrofit data center projects. By doing so, you can deliver agile application provisioning without purchasing unnecessary infrastructure, and establish a strong foundation for new cloud computing and IT-as-a-service initiatives. Throughout, Santana illuminates key theoretical concepts through realistic use cases, real-world designs, illustrative configuration examples, and verification outputs. Appendixes provide valuable reference information, including relevant Cisco data center products and CLI principles for IOS and NX-OS. With this approach, Data Center Virtualization Fundamentals will be an indispensable resource for anyone preparing for the CCNA Data Center, CCNP Data Center, or CCIE Data Center certification exams. Gustavo A. A. Santana, CCIE® No. 8806, is a Cisco Technical Solutions Architect working in enterprise and service provider data center projects that require deep integration across technology areas such as networking, application optimization, storage, and servers. He has more than 15 years of data center experience, and has led and coordinated a team of specialized Cisco engineers in Brazil. He holds two CCIE certifications (Routing & Switching and Storage Networking), and is a VMware Certified Professional (VCP) and SNIA Certified Storage Networking Expert (SCSN-E). A frequent speaker at Cisco and data center industry events, he blogs on data center virtualization at gustavaasantana.net. Learn how virtualization can transform and improve traditional data center network topologies Understand the key characteristics and value of each data center virtualization technology Walk through key decisions, and transform choices into architecture Smoothly migrate existing data centers toward greater virtualization Burst silos that have traditionally made data centers inefficient Master foundational technologies such as VLANs, VRF, and virtual contexts Use virtual PortChannel and FabricPath to overcome the limits of STP Optimize cabling and network management with fabric extender (FEX) virtualized chassis Extend Layer 2 domains to distant data center sites using MPLS and Overlay Transport Virtualization (OTV) Use VSANs to overcome Fibre Channel fabric challenges Improve SAN data protection, environment isolation, and scalability Consolidate I/O through Data Center Bridging and FCoE Use virtualization to radically simplify server environments Create server profiles that streamline "bare metal" server provisioning "Transcend the rack" through virtualized networking based on Nexus 1000V and VM-FEX Leverage opportunities to deploy virtual network services more efficiently Evolve data center virtualization toward full-fledged private clouds -Reviews - "The variety of material that Gustavo covers in this work would appeal to anyone responsible for Data Centers today. His grasp of virtualization technologies and ability to relate it in both technical and non-technical terms makes for compelling reading. This is not your ordinary tech manual. Through use of relatable visual cues, Gustavo provides information that is easily recalled on the subject of virtualization, reaching across Subject Matter Expertise domains. Whether you consider yourself well-versed or a novice on the topic, working in large or small environments, this work will provide a clear understanding of the diverse subject of virtualization." -- Bill Dufresne, CCIE 4375, Distinguished Systems Engineer, Cisco (Americas) ".this book is an essential reference and will be valuable asset for potential candidates pursuing their Cisco Data Center certifications. I am confident that in reading this book, individuals will inevitably gain extensive knowledge and hands-on experience during their certification preparations. If you're looking for a truly comprehensive guide to virtualization, this is the one!" -- Yusuf Bhaiji, Senior Manager, Expert Certifications (CCIE, CCDE, CCAr), Learning@Cisco "When one first looks at those classic Cisco Data Center blueprints, it is very common to become distracted with the overwhelming number of pieces and linkages. By creating a solid theoretical foundation and providing rich sets of

companion examples to illustrate each concept, Gustavo's book brings hope back to IT Professionals from different areas of expertise. Apparently complex topics are demystified and the insertion of products, mechanisms, protocols and technologies in the overall Data Center Architecture is clearly explained, thus enabling you to achieve robust designs and successful deployments. A must read... Definitely!" -- Alexandre M. S. P. Moraes, Consulting Systems Engineer -- Author of "Cisco Firewalls"

The Essential Guide to Telecommunications - Annabel Z. Dodd 2019-03-19

"Annabel Dodd has cogently untangled the wires and switches and technobabble of the telecommunications revolution and explained how the introduction of the word 'digital' into our legislative and regulatory lexicon will affect consumers, companies and society into the next millennium." - United States Senator Edward J. Markey of Massachusetts; Member, U.S. Senate Subcommittee on Communications, Technology, Innovation, and the Internet "Annabel Dodd has a unique knack for explaining complex technologies in understandable ways. This latest revision of her book covers the rapid changes in the fields of broadband, cellular, and streaming technologies; newly developing 5G networks; and the constant changes happening in both wired and wireless networks. This book is a must-read for anyone who wants to understand the rapidly evolving world of telecommunications in the 21st century!" - David Mash, Retired Senior Vice President for Innovation, Strategy, and Technology, Berklee College of Music Completely updated for current trends and technologies, The Essential Guide to Telecommunications, Sixth Edition, is the world's top-selling, accessible guide to the fast-changing global telecommunications industry. Writing in easy-to-understand language, Dodd demystifies today's most significant technologies, standards, architectures, and trends. She introduces leading providers worldwide, explains where they fit in the marketplace, and reveals their key strategies. New topics covered in this edition include: LTE Advanced and 5G wireless, modern security threats and countermeasures, emerging applications, and breakthrough techniques for building more scalable, manageable networks. Gain a practical understanding of modern cellular, Wi-Fi, Internet, cloud, and carrier technologies Discover how key technical, business, and regulatory innovations are changing the industry See how streaming video, social media, cloud computing, smartphones, and the Internet of Things are transforming networks Explore growing concerns about security and privacy, and review modern strategies for detecting and mitigating network breaches Learn how Software Defined Networks (SDN) and Network Function Virtualization (NFV) add intelligence to networks, enabling automation, flexible configurations, and advanced networks Preview cutting-edge, telecom-enabled applications and gear—from mobile payments to drones Whether you're an aspiring network engineer looking for a broad understanding of the industry, or a salesperson, marketer, investor, or customer, this indispensable guide provides everything you need to know about telecommunications right now. This new edition is ideal for both self-study and classroom instruction. Register your product for convenient access to downloads, updates, and/or corrections as they become available.

Machine Intelligence and Data Analytics for Sustainable Future Smart Cities - Uttam Ghosh 2021-05-31

This book presents the latest advances in computational intelligence and data analytics for sustainable future smart cities. It focuses on computational intelligence and data analytics to bring together the smart city and sustainable city endeavors. It also discusses new models, practical solutions and technological advances related to the development and the transformation of cities through machine intelligence and big data models and techniques. This book is helpful for students and researchers as well as practitioners.

Advanced Technologies, Systems, and Applications II - Mirsad Hadžikadić 2018-01-30

This book presents innovative and interdisciplinary applications of advanced technologies. It includes the scientific outcomes of the 9th DAYS OF BHAAAS (Bosnian-Herzegovinian American Academy of Arts and Sciences) held in Banja Vrućica, Teslić, Bosnia and Herzegovina on May 25–28, 2017. This unique book offers a comprehensive, multidisciplinary and interdisciplinary

overview of the latest developments in a broad section of technologies and methodologies, viewed through the prism of applications in computing, networking, information technology, robotics, complex systems, communications, energy, mechanical engineering, economics and medicine, to name just a few.

Communication Technologies for Vehicles - Benoît Hilt 2019-07-17

This book constitutes the proceedings of the 14th International Workshop on Communication Technologies for Vehicles, Nets4Cars/Nets4Trains/Nets4Aircraft 2019, held in Colmar, France, in May 2019. The 9 full papers and 1 short paper in this volume were carefully reviewed and selected from 15 submissions. The volume features contributions in the theory or practice of intelligent transportation systems (ITS) and communication technologies for: - Vehicles on the road: e.g. cars, trucks and buses; - Air: e.g. aircraft and unmanned aerial vehicles; and - Rail: e.g. trains, metros and trams.

Sustainable Hydraulics in the Era of Global Change - Sébastien Ericum 2016-12-01

In an increasingly urbanized world, water systems must be designed and operated according to innovative standards in terms of climate adaptation, resource efficiency, sustainability and resilience. This grand challenge triggers unprecedented questions for hydro-environment research and engineering. Shifts in paradigms are urgently needed in the way we view (circular) water systems, water as a renewable energy (production and storage), risk management of floods, storms, sea level rise and droughts, as well as their consequences on water quality, morphodynamics (e.g., reservoir sedimentation, scour, sustainability of deltas) and the environment. Addressing these issues requires a deep understanding of basic processes in fluid mechanics, heat and mass transfer, surface and groundwater flow, among others.

IEC 61850-Based Smart Substations - Yubo Yuan 2019-06-12

IEC 61850-Based Smart Substations: Principles, Testing, Operation and Maintenance systematically presents principles, testing approaches, and the operation and maintenance technologies of such substations from the perspective of real-world application. The book consists of chapters that cover a review of IEC 61850 based smart substations, substation configuration technology, principles and testing technologies for the smart substation, process bus, substation level, time setting and synchronization, and cybersecurity. It gives detailed information on testing processes and approaches, operation and maintenance technologies, and insights gained through practical experience. As IEC 61850 based smart substations have played a significant role in smart grids, realizing information sharing and device interoperation, this book provides a timely resource on the topics at hand. Contributes to the overall understanding of standard IEC 61850, analyzing principles and features Introduces best practices derived from hundreds of smart substation engineering applications Summarizes current research and insights gained from practical experience in the testing, operation and maintenance of smart substation projects in China Gives systematic and detailed information on testing technology Introduces novel technologies for next-generation substations

MS-700 Managing Microsoft Teams Exam Guide - Peter Rising 2022-05-26

A detailed guide to preparing for the MS-700 exam and earning associate-level Microsoft Teams administrator certification Key Features • Plan and design your Microsoft Teams deployment • Prepare, implement, and manage policies for Microsoft Teams and for apps within Teams • Work with self-assessment questions and a mock exam and take the MS-700 certification exam with confidence Book Description Exam MS-700: Managing Microsoft Teams tests your knowledge and competence in the deployment, management, and monitoring of Microsoft Teams features within the Microsoft 365 platform. This book will teach you how to effectively plan and implement the required services using both the Teams admin centre within Microsoft 365 and Windows PowerShell. Throughout the chapters, you'll learn about all the policies relating to messaging, teams, meetings, and more; get to grips with the settings; and explore configuration options that a Teams administrator would encounter in their day-to-day responsibilities. You'll also discover best practices for rolling out and managing Teams services for users within your Microsoft 365

tenant as you explore each objective in detail. By the end of this Microsoft Teams book, you'll have covered everything you need to pass the MS-700 certification exam and have a handy, on-the-job desktop reference guide. What you will learn

- Plan and configure network settings and licensing for Microsoft Teams
- Plan and configure security, compliance, and governance for Microsoft Teams
- Manage users and configure guest and external access
- Configure and manage Microsoft Teams devices
- Create and manage teams, channels, and core experiences
- Manage Phone System and numbers for Microsoft Teams
- Troubleshoot audio, video, client, and

environment issues

- Practice with a mock exam with answers and explanations

Who this book is for This book is for IT professionals who want to earn the Microsoft 365 Certified: Teams Administrator Associate certification. Familiarity with the principles of administering core features and services within a Microsoft 365 tenant and a basic understanding of Microsoft Teams features are needed. Prior knowledge of other Microsoft 365 workloads such as Security & Compliance will also be beneficial. To maximize the odds of passing the MS-700 exam, use this exam guide's content and practice questions to prepare alongside practicing concepts first-hand when possible.