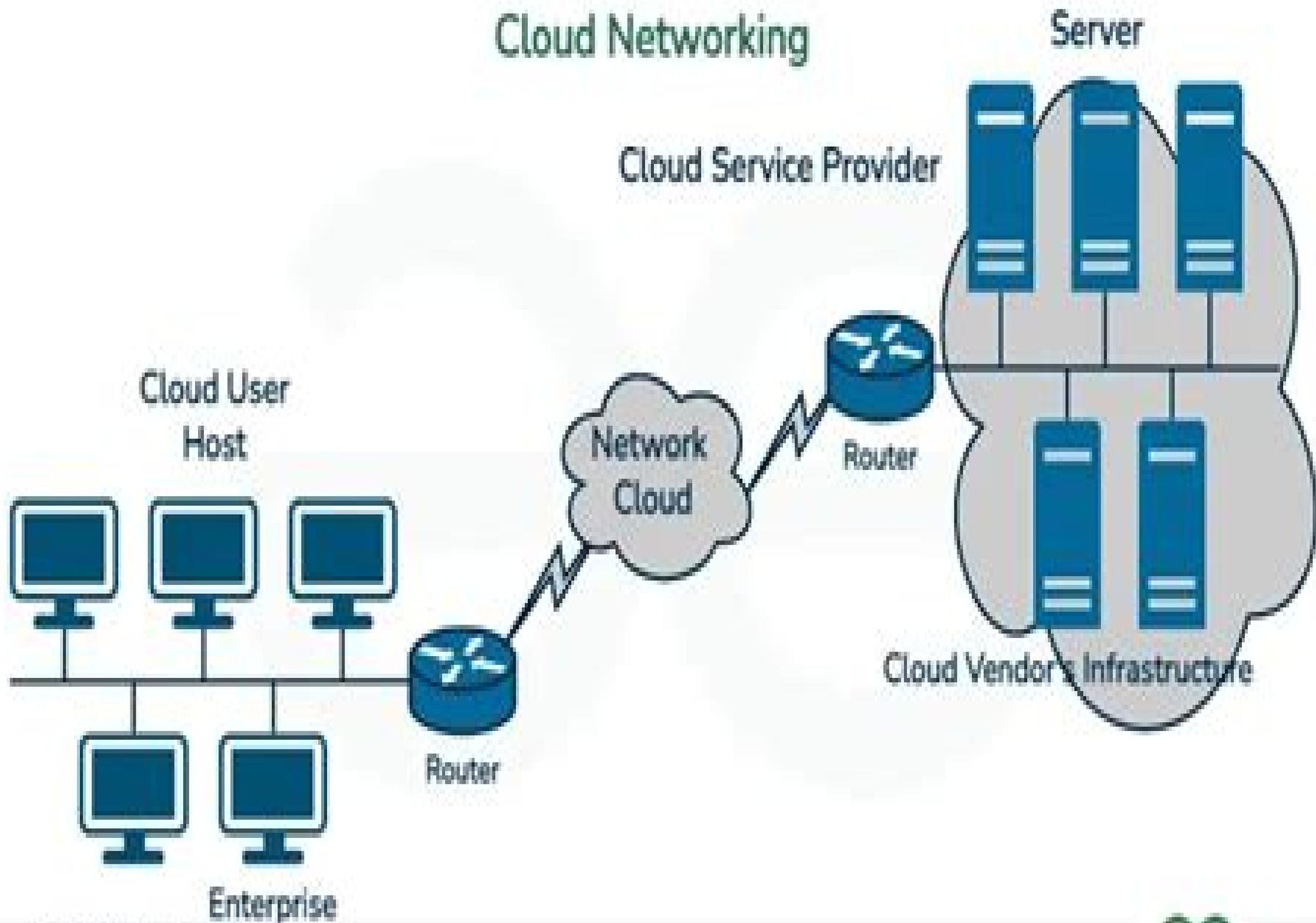


Cloud Networking



Cloud Networking Understanding Cloud Based Data Center Networks

Ting Wang,Bo Li,Mingsong Chen,Shui Yu

Cloud Networking Understanding Cloud Based Data Center Networks:

Cloud Networking Gary Lee,2014-06-09 Cloud Networking Understanding Cloud Based Data Center Networks explains the evolution of established networking technologies into distributed cloud based networks Starting with an overview of cloud technologies the book explains how cloud data center networks leverage distributed systems for network virtualization storage networking and software defined networking The author offers insider perspective to key components that make a cloud network possible such as switch fabric technology and data center networking standards The final chapters look ahead to developments in architectures fabric technology interconnections and more By the end of the book readers will understand core networking technologies and how they re used in a cloud data center Understand existing and emerging networking technologies that combine to form cloud data center networks Explains the evolution of data centers from enterprise to private and public cloud networks Reviews network virtualization standards for multi tenant data center environments Includes cutting edge detail on the latest switch fabric technologies from the networking team in Intel [Cloud Native Data Center Networking](#) Dinesh G. Dutt,2019-11-22 If you want to study build or simply validate your thinking about modern cloud native data center networks this is your book Whether you re pursuing a multitenant private cloud a network for running machine learning or an enterprise data center author Dinesh Dutt takes you through the steps necessary to design a data center that s affordable high capacity easy to manage agile and reliable Ideal for network architects data center operators and network and containerized application developers this book mixes theory with practice to guide you through the architecture and protocols you need to create and operate a robust scalable network infrastructure The book offers a vendor neutral way to look at network design For those interested in open networking this book is chock full of examples using open source software from FRR to Ansible In the context of a cloud native data center you ll examine Clos topology Network disaggregation Network operating system choices Routing protocol choices Container networking Network virtualization and EVPN Network automation **Cloud Data Center Network Architectures and Technologies** Lei Zhang,Le Chen,2021-04-21 Cloud Data Center Network Architectures and Technologies has been written with the support of Huawei s vast technical knowledge and experience in the data center network DCN field as well as its understanding of customer service requirements This book describes in detail the architecture design technical implementation planning and design and deployment suggestions for cloud DCNs based on the service challenges DCNs encounter It starts by describing the overall architecture and technical evolution of DCNs with the aim of helping readers understand the development of DCNs It then proceeds to explain the design and implementation of cloud DCNs including the service model of a single data center DC construction of physical and logical networks of DCs construction of multiple DCNs and security solutions of DCs Next this book dives deep into practices of cloud DCN deployment based on real world cases to help readers better understand how to build cloud DCNs Finally this book introduces DCN openness and some of the hottest forward looking technologies In

summary you can use this book as a reference to help you to build secure reliable efficient and open cloud DCNs It is intended for technical professionals of enterprises research institutes information departments and DCs as well as teachers and students of computer network related majors in colleges and universities Authors Lei Zhang Mr Zhang is the Chief Architect of Huawei s DCN solution He has more than 20 years experience in network product and solution design as well as a wealth of expertise in product design and development network planning and design and network engineering project implementation He has led the design and deployment of more than 10 large scale DCNs for Fortune Global 500 companies worldwide Le Chen Mr Chen is a Huawei DCN Solution Documentation Engineer with eight years experience in developing documents related to DCN products and solutions He has participated in the design and delivery of multiple large scale enterprise DCNs Mr Chen has written many popular technical document series such as DCN Handbook and BGP Topic

Online Counselor Education Carl J. Sheperis,R. J. Davis,2015-12-01 Online Counselor Education A Guide for Students is an all new guide for online students in counselor education programs Students in online environments face a number of challenges that could put them at a disadvantage unless they have a resource to help guide them through some of the confusing aspects of an online environment Such challenges include the lack of understanding surrounding graduate school performance expectations balancing graduate school and life the inability to connect with community members and local field agencies and various other aspects unique to an online environment This text will help students through these challenges and act as an invaluable resource

Cloud Services, Networking, and Management Nelson L. S. da Fonseca,Raouf Boutaba,2015-03-24 Cloud Services Networking and Management provides a comprehensive overview of the cloud infrastructure and services as well as their underlying management mechanisms including data center virtualization and networking cloud security and reliability big data analytics scientific and commercial applications Special features of the book include State of the art content Self contained chapters for readers with specific interests Includes commercial applications on Cloud video services and games

Machine Learning Empowered Intelligent Data Center Networking Ting Wang,Bo Li,Mingsong Chen,Shui Yu,2023-02-21 An Introduction to the Machine Learning Empowered Intelligent Data Center Networking Fundamentals of Machine Learning in Data Center Networks This book reviews the common learning paradigms that are widely used in data centernetworks and offers an introduction to data collection and data processing in data centers Additionally it proposes a multi dimensional and multi perspective solution quality assessment system called REBEL 3S The book offers readers a solid foundation for conducting research in the field of AI assisted data center networks Comprehensive Survey of AI assisted Intelligent Data Center Networks This book comprehensively investigates the peer reviewed literature published in recent years The wide range of machine learning techniques is fully reflected to allow fair comparisons In addition the book provides in depth analysis and enlightening discussions on the effectiveness of AI in DCNs from various perspectives covering flow prediction flow classification load balancing resource management energy

management routing optimization congestion control fault management and network security Provides a Broad Overview with Key Insights This book introduces several novel intelligent networking concepts pioneered by real world industries such as Knowledge Defined Networks Self Driving Networks Intent driven Networks and Intent based Networks Moreover it shares unique insights into the technological evolution of the fusion of artificial intelligence and data center networks together with selected challenges and future research opportunities

Cloud Networking for Big Data Deze Zeng,Lin Gu,Song Guo,2015-12-09 This book introduces two basic big data processing paradigms for batch data and streaming data Representative programming frameworks are also presented as well as software defined networking SDN and network function virtualization NFV technologies as key cloud networking technologies The authors illustrate that SDN and NFV can be applied to benefit the big data processing by proposing a cloud networking framework Based on the framework two case studies examine how to improve the cost efficiency of big data processing Cloud Networking for Big Data targets professionals and researchers working in big data networks wireless communications and information technology Advanced level students studying computer science and electrical engineering will also find this book valuable as a study guide

Deploying and Managing a Cloud Infrastructure Abdul Salam,Zafar Gilani,Salman Ul Haq,2015-01-27 Learn in demand cloud computing skills from industry experts Deploying and Managing a Cloud Infrastructure is an excellent resource for IT professionals seeking to tap into the demand for cloud administrators This book helps prepare candidates for the CompTIA Cloud Certification CV0 001 cloud computing certification exam Designed for IT professionals with 2 3 years of networking experience this certification provides validation of your cloud infrastructure knowledge With over 30 years of combined experience in cloud computing the author team provides the latest expert perspectives on enterprise level mobile computing and covers the most essential topics for building and maintaining cloud based systems including Understanding basic cloud related computing concepts terminology and characteristics Identifying cloud delivery solutions and deploying new infrastructure Managing cloud technologies services and networks Monitoring hardware and software performance Featuring real world examples and interactive exercises Deploying and Managing Cloud Infrastructure delivers practical knowledge you can apply immediately And in addition you also get access to a full set of electronic study tools including Interactive Test Environment Electronic Flashcards Glossary of Key Terms Now is the time to learn the cloud computing skills you need to take that next step in your IT career

AWS Certified Advanced Networking Official Study Guide Sidhartha Chauhan,James Devine,Alan Halachmi,Matt Lehweess,Nick Matthews,Steve Morad,Steve Seymour,2018-03-07 The official study guide for the AWS certification specialty exam The AWS Certified Advanced Networking Official Study Guide Specialty Exam helps to ensure your preparation for the AWS Certified Advanced Networking Specialty Exam Expert review of AWS fundamentals align with the exam objectives and detailed explanations of key exam topics merge with real world scenarios to help you build the robust knowledge base you need to succeed on the exam and in the field as an AWS Certified

Networking specialist Coverage includes the design implementation and deployment of cloud based solutions core AWS services implementation and knowledge of architectural best practices AWS service architecture design and maintenance networking automation and more You also get one year of free access to Sybex s online interactive learning environment and study tools which features flashcards a glossary chapter tests practice exams and a test bank to help you track your progress and gauge your readiness as exam day grows near The AWS credential validates your skills surrounding AWS and hybrid IT network architectures at scale The exam assumes existing competency with advanced networking tasks and assesses your ability to apply deep technical knowledge to the design and implementation of AWS services This book provides comprehensive review and extensive opportunities for practice so you can polish your skills and approach exam day with confidence Study key exam essentials with expert insight Understand how AWS skills translate to real world solutions Test your knowledge with challenging review questions Access online study tools chapter tests practice exams and more Technical expertise in cloud computing using AWS is in high demand and the AWS certification shows employers that you have the knowledge and skills needed to deliver practical forward looking cloud based solutions The AWS Certified Advanced Networking Official Study Guide Specialty Exam helps you learn what you need to take this next big step for your career

Designing Networks and Services for the Cloud Huseni Saboowala, Muhammad Abid, Sudhir Modali, 2013-05-16

Designing Networks and Services for the Cloud Delivering business grade cloud applications and services A rapid easy to understand approach to delivering a secure resilient easy to manage SLA driven cloud experience Designing Networks and Services for the Cloud helps you understand the design and architecture of networks and network services that enable the delivery of business grade cloud services Drawing on more than 40 years of experience in network and cloud design validation and deployment the authors demonstrate how networks spanning from the Enterprise branch HQ and the service provider Next Generation Networks NGN to the data center fabric play a key role in addressing the primary inhibitors to cloud adoption security performance and management complexity The authors first review how virtualized infrastructure lays the foundation for the delivery of cloud services before delving into a primer on clouds including the management of cloud services Next they explore key factors that inhibit enterprises from moving their core workloads to the cloud and how advanced networks and network services can help businesses migrate to the cloud with confidence You ll find an in depth look at data center networks including virtualization aware networks virtual network services and service overlays The elements of security in this virtual fluid environment are discussed along with techniques for optimizing and accelerating the service delivery The book dives deeply into cloud aware service provider NGNs and their role in flexibly connecting distributed cloud resources ensuring the security of provider and tenant resources and enabling the optimal placement of cloud services The role of Enterprise networks as a critical control point for securely and cost effectively connecting to high performance cloud services is explored in detail before various parts of the network finally come together in the definition

and delivery of end to end cloud SLAs At the end of the journey you preview the exciting future of clouds and network services along with the major upcoming trends If you are a technical professional or manager who must design implement or operate cloud or NGN solutions in enterprise or service provider environments this guide will be an indispensable resource Understand how virtualized data center infrastructure lays the groundwork for cloud based services Move from distributed virtualization to IT as a service via automated self service portals Classify cloud services and deployment models and understand the actors in the cloud ecosystem Review the elements requirements challenges and opportunities associated with network services in the cloud Optimize data centers via network segmentation virtualization aware networks virtual network services and service overlays Systematically secure cloud services Optimize service and application performance Plan and implement NGN infrastructure to support and accelerate cloud services Successfully connect enterprises to the cloud Define and deliver on end to end cloud SLAs Preview the future of cloud and network services

Cloud Computing
Venkata Josyula, Malcolm Orr, Greg Page, 2012 The complete guide to provisioning and managing cloud based Infrastructure as a Service IaaS data center solutions Cloud computing will revolutionize the way IT resources are deployed configured and managed for years to come Service providers and customers each stand to realize tremendous value from this paradigm shift if they can take advantage of it Cloud Computing brings together the realistic start to finish guidance they need to plan implement and manage cloud solution architectures for tomorrow s virtualized data centers It introduces cloud newcomers to essential concepts and offers experienced operations professionals detailed guidance on delivering Infrastructure as a Service IaaS Platform as a Service PaaS and Software as a Service SaaS This book s replicable solutions and fully tested best practices will help enterprises service providers consultants and Cisco partners meet the challenge of provisioning end to end cloud infrastructures Drawing on extensive experience working with leading cloud vendors and integrators the authors present detailed operations workflow examples proven techniques for operating cloud based network compute and storage infrastructure a comprehensive management reference architecture and a complete case study demonstrating rapid lower cost solutions design Cloud Computing will be an indispensable resource for all network IT professionals and managers involved with planning implementing or managing the next generation of cloud computing services Venkata Josh Josyula Ph D CCIE No 13518 is a Distinguished Services Engineer in Cisco Services Technology Group CSTG and advises Cisco customers on OSS BSS architecture and solutions Malcolm Orr Solutions Architect for Cisco s Services Technology Solutions advises telecoms and enterprise clients on architecting building and operating OSS BSS and cloud management stacks He is Cisco s lead architect for several Tier 1 public cloud projects Greg Page has spent the last eleven years with Cisco in technical consulting roles relating to data center architecture technology and service provider security He is now exclusively focused on developing cloud IaaS solutions with service providers and systems integrator partners Review the key concepts needed to successfully deploy clouds and cloud based services Transition common enterprise design patterns and use cases to the

cloud Master architectural principles and infrastructure designs for real time managed IT services Understand the Cisco approach to cloud related technologies systems and services Develop a cloud management architecture using ITIL TMF and ITU TMN standards Implement best practices for cloud service provisioning activation and management Automate cloud infrastructure to simplify service delivery monitoring and assurance Choose and implement the right billing chargeback approaches for your business Design and build IaaS services from start to finish Manage the unique capacity challenges associated with sporadic real time demand Provide a consistent and optimal cloud user experience 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 Category Cloud Computing Covers Virtualized Data Centers CompTIA Cloud+ Certification All-in-One Exam Guide (Exam CV0-003) Eric A. Vanderburg,2021-07-30 Complete coverage of every objective for the CompTIA Cloud exam Take the CompTIA Cloud exam with confidence using this highly effective self study guide CompTIA Cloud TM Certification All in One Exam Guide Exam CV0 003 offers complete coverage of every topic on the latest version of the exam You ll find learning objectives at the beginning of each chapter exam tips in depth explanations and practice exam questions You will get in depth explanations of the latest cloud computing concepts models and terminology disk storage systems networking storage and infrastructure virtualization components security best practices and more Designed to help you pass the CV0 003 exam with ease this definitive guide also serves as an essential on the job reference Coverage includes DevOps Performance tuning Systems management Architecture and design Services and solutions Business continuity and disaster recovery Testing automation and changes Environment maintenance security and optimization Troubleshooting Online content includes 200 practice exam questions Interactive performance based questions Test engine that provides full length practice exams and customizable quizzes by chapter or exam objective *Cloud Computing* Thomas Erl,Ricardo Puttini,Zaigham Mahmood,2013-05-02 Clouds are distributed technology platforms that leverage sophisticated technology innovations to provide highly scalable and resilient environments that can be remotely utilized by organizations in a multitude of powerful ways To successfully build upon integrate with or even create a cloud environment requires an understanding of its common inner mechanics architectural layers and models as well as an understanding of the business and economic factors that result from the adoption and real world use of cloud based services In *Cloud Computing Concepts Technology Architecture* Thomas Erl one of the world s top selling IT authors teams up with cloud computing experts and researchers to break down proven and mature cloud computing technologies and practices into a series of well defined concepts models technology mechanisms and technology architectures all from an industry centric and vendor neutral point of view In doing so the book establishes concrete academic coverage with a focus on structure clarity and well defined building blocks for mainstream cloud computing platforms and solutions Subsequent to technology centric coverage the book proceeds to establish business

centric models and metrics that allow for the financial assessment of cloud based IT resources and their comparison to those hosted on traditional IT enterprise premises Also provided are templates and formulas for calculating SLA related quality of service values and numerous explorations of the SaaS PaaS and IaaS delivery models With more than 260 figures 29 architectural models and 20 mechanisms this indispensable guide provides a comprehensive education of cloud computing essentials that will never leave your side

Cerebellar Learning ,2014-06-20 Progress in Brain Research is the most acclaimed and accomplished series in neuroscience firmly established as an extensive documentation of the advances in contemporary brain research The volumes some of which are derived from important international symposia contain authoritative reviews and original articles by invited specialists The rigorous editing of the volumes assures that they will appeal to all laboratory and clinical brain research workers in the various disciplines neuroanatomy neurophysiology neuropharmacology neuroendocrinology neuropathology basic neurology biological psychiatry and the behavioral sciences This volume The Cerebellum and Memory Formation Structure Computation and Function covers topics including feedback control of cerebellar learning cortico cerebellar organization and skill acquisition cerebellar plasticity and learning in the oculomotor system and more Leading authors review the state of the art in their field of investigation and provide their views and perspectives for future research The volume reflects current thinking about the ways in which the cerebellum can engage in learning and the contributors come from a variety of research fields The chapters express perspectives from different levels of analysis that range from molecular and cellular mechanisms through to long range systems that allow the cerebellum to communicate with other brain areas

Computer and Communication Networks Nader F. Mir,2014-12-12 Computer and Communication Networks Second Edition explains the modern technologies of networking and communications preparing you to analyze and simulate complex networks and to design cost effective networks for emerging requirements Offering uniquely balanced coverage of basic and advanced topics it teaches through case studies realistic examples and exercises and intuitive illustrations Nader F Mir establishes a solid foundation in basic networking concepts TCP IP schemes wireless and LTE networks Internet applications such as Web and e mail and network security Then he delves into both network analysis and advanced networking protocols VoIP cloud based multimedia networking SDN and virtualized networks In this new edition Mir provides updated practical scenario based information that many networking books lack offering a uniquely effective blend of theory and implementation Drawing on extensive field experience he presents many contemporary applications and covers key topics that other texts overlook including P2P and voice video networking SDN information centric networking and modern router switch design Students researchers and networking professionals will find up to date thorough coverage of Packet switching Internet protocols including IPv6 Networking devices Links and link interfaces LANs WANs and Internetworking Multicast routing and protocols Wide area wireless networks and LTE Transport and end to end protocols Network applications and management Network security Network

queues and delay analysis Advanced router switch architecture QoS and scheduling Tunneling VPNs and MPLS All optical networks WDM and GMPLS Cloud computing and network virtualization Software defined networking SDN VoIP signaling Media exchange and voice video compression Distributed cloud based multimedia networks Mobile ad hoc networks Wireless sensor networks Key features include More than three hundred fifty figures that simplify complex topics Numerous algorithms that summarize key networking protocols and equations Up to date case studies illuminating concepts and theory Approximately four hundred exercises and examples honed over Mir's twenty years of teaching networking

Virtualized Cloud Data Center Networks: Issues in Resource Management. Linjiun Tsai,Wanjiun Liao,2016-04-19 This book discusses the characteristics of virtualized cloud networking identifies the requirements of cloud network management and illustrates the challenges in deploying virtual clusters in multi tenant cloud data centers The book also introduces network partitioning techniques to provide contention free allocation topology invariant reallocation and highly efficient resource utilization based on the Fat tree network structure Managing cloud data center resources without considering resource contentions among different cloud services and dynamic resource demands adversely affects the performance of cloud services and reduces the resource utilization of cloud data centers These challenges are mainly due to strict cluster topology requirements resource contentions between uncooperative cloud services and spatial temporal data center resource fragmentation Cloud data center network resource allocation reallocation which cope well with such challenges will allow cloud services to be provisioned with predictable network performance mitigate service performance degradation and even guarantee service level agreements Virtualized Cloud Data Center Networks Issues in Resource Management tackles the challenges of managing cloud data center networks and introduces techniques to efficiently deploy large scale distributed computing applications that require predictable performance in multi tenant cloud data centers

CompTIA Cloud+ Certification Study Guide, Second Edition (Exam CV0-002) Scott Wilson, Eric A. Vanderburg, 2018-03-19 Publisher's Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product The best fully integrated study system available Save 10% on any CompTIA exam voucher Coupon code inside With hundreds of practice exam questions CompTIA Cloud Certification Study Guide Second Edition covers what you need to know and shows you how to prepare for this challenging exam 100% complete coverage of all official objectives for exam CV0 002 Exam Readiness Checklist you're ready for the exam when all objectives on the list are checked off Exam Watch notes call attention to information about and potential pitfalls in the exam Exam at Work sidebars provide real world examples of cloud computing technologies in the workplace today Two Minute Drills for quick review at the end of every chapter Key Terms sections highlight and define the most important terms discussed in each chapter Simulated exam questions match the format topics and difficulty of the real exam Covers all exam topics including Cloud Computing Concepts Models and Terminology Disk Storage Systems Storage Networking Network Infrastructure

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[Design of Secure IoT Systems: A Practical Approach Across Industries](#) Sumeet Arora, Ramachandra Gambheer, Meenakshi Vohra, 2021-07-16 Build secure IoT devices and networks for a wide range of industries This practical guide fully explains the technology behind the Internet of Things machine to machine communication and automation Written by a team of experts from leading firms Design of Secure IoT Systems A Practical Approach Across Industries covers all aspects of system architecture protocols requirements and design You will discover how to design and engineer IoT devices and networks with trust and security The book features industrial automation case studies and simulation examples from a wide range of fields Coverage includes IoT architecture and technology fundamentals Connected machines and M2M communication Network protocols and architecture IoT hardware design fundamentals WAN IP and MAC configuration IoT data systems design Designing with trust and security Data security policies and regulations Cybersecurity threats and risks Automation Use cases across industries Industry compliance and standards

To the Cloud: Cloud Powering an Enterprise Pankaj Arora, Raj Biyani, Salil Dave, 2012-03-07 This invaluable guide addresses the Why What and How of enterprise cloud adoption leveraging a clear framework and proven best practices from Microsoft's own experience Great book What's particularly impressive is the outline of steps Microsoft itself is taking in its move to the cloud Do as I do is always more powerful than do as I say Al Ries Coauthor War in the Boardroom This book takes on enterprise cloud adoption to a level I've not seen before made even more elegant with its structured framework and crisp approach Anthony D Christie CMO Level 3 Communications Former CTO CIO Global Crossing A practical and timely guide that covers the entire journey to the cloud from an enterprise perspective including business technology and organizational impact Bart Luijten CIO Corporate Functions Corporate Technology Philips The cloud powers business solutions for building tomorrow's enterprise and this book offers a simple well structured and high level process map for cloud adoption Kris Gopalakrishnan Executive Co Chairman Infosys Limited Cloud computing is full of tremendous opportunity but is also riddled with hype and confusion Business and technology leaders know the cloud is essential but lack clarity and experience To the Cloud cuts through the noise and addresses the Why What and How of enterprise cloud adoption The book lays out a four step framework leveraging the experience and best practices of Microsoft's own IT group It provides end to end business and technology guidance including how to analyze application portfolios to identify good cloud candidates choose the right cloud models consider architecture and security and understand how shifting operations to the cloud affects budgeting and staffing The book is applicable to all cloud platforms and providers and debunks myths in its clear and concise style e.g real clouds are more than just web hosting virtualization or the Internet itself rebranded It takes a balanced approach addressing

concerns and hybrid adoption scenarios alike Leveraging the authors proven expertise working for Microsoft s CIO on cloud migration and with cloud platform development teams the book is supported by clear frameworks graphics tables summaries and checklists to provide a true practitioner s guide to the cloud In this book you will learn how to Explore cloud computing to understand its promise and challenges Envision how cloud computing can transform your organization Enable your organization with the necessary resources and skills Execute the design development and operation of cloud workloads To the Cloud is an essential guide for IT professionals seeking to lower total cost of ownership improve the return on IT investment of existing services or help the business bring new products to market more quickly

CompTIA Cloud+ Certification Bundle (Exam CV0-002) Scott Wilson, Eric A. Vanderburg, Daniel Lachance, 2018-06-08 Take the CompTIA Cloud CV0 002 exam with confidence using this highly effective money saving study bundle This up to date self study program gathers a wide variety of exam focused resources to use in preparation for the latest edition of the challenging CompTIA Cloud exam CompTIA Cloud Certification Bundle Exam CV0 002 includes two books with supplementary practice exam software and bonus electronic content all at a discount of 11% off the MSRP The package shows you how to set up secure and manage cloud technologies and infrastructures As a course for study you can first read the CompTIA Cloud Certification Study Guide Second Edition an in depth exam review that fully covers every objective for the exam Then you can test what you ve learned with the more than 600 accurate practice exam questions and in depth answer explanations featured in CompTIA Cloud Certification Practice Exams Finally the Total Tester exam engine included with both books provides full length timed simulated exams or customized quizzes that target selected chapters or exam objectives Provides 100% coverage of every objective for exam CV0 002 400 additional practice questions provided in Total Tester exam engine Bonus electronic content includes step by step exercises in a Lab Book PDF and digital simulations of performance based questions Includes a 10% off the exam voucher a 28 value

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Cloud Networking Understanding Cloud Based Data Center Networks Introduction

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