

# Chapter 7

## Cloud Architecture and Datacenter Design

**Summary:** This chapter covers the design principles and enabling technologies for cloud platform architectural design. We start with datacenter design and management. Then we present the design choices of cloud platforms. The topics covered include layered platform design, virtualization support, resource provisioning, and infrastructure management. Chapter 8 will cover cloud computing platforms built by Google, Amazon, IBM, Microsoft, and Salesforce.com. Case studies of some current and future clouds will be given in Chapter 9.

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# Chapter Cloud Architecture And Datacenter Design

**Tom Plunkett,TJ Palazzolo,Tejas Joshi**



## **Chapter Cloud Architecture And Datacenter Design:**

**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.

**Virtual Routing in the Cloud** Arvind Durai, Stephen Lynn, Amit Srivastava, 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, multi-tenant 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

**Communication Infrastructures for Cloud Computing** Mouftah, Hussein T., Kantarci, Burak, 2013-09-30 Cloud computing has provided multiple advantages as well as challenges to software and infrastructure services In order to be fully beneficial these challenges facing cloud specific communication protocols must be addressed Communication Infrastructures for Cloud Computing presents the issues and research directions for a broad range of cloud computing aspects of software computing and storage systems This book will highlight a broad range of topics in communication infrastructures for cloud computing that will benefit researchers academics and practitioners in the active fields of engineering computer science and software

Data Center Handbook Hwaiyu Geng, 2014-12-01 Provides the fundamentals technologies and best practices in designing constructing and managing mission critical energy efficient data centers Organizations in need of high speed connectivity and nonstop systems operations depend upon data centers for a range of deployment solutions A data center is a facility used to house computer systems and associated components such as telecommunications and storage systems It generally includes multiple power sources redundant data communications connections environmental controls e.g. air conditioning fire suppression and security devices With contributions from an international list of experts The Data Center Handbook instructs readers to Prepare strategic plan that includes location plan site selection roadmap and capacity planning Design and build green data centers with mission critical and energy efficient infrastructure Apply best practices to reduce energy consumption and carbon emissions Apply IT technologies such as cloud and virtualization Manage data centers in order to sustain operations with minimum costs Prepare and practice disaster recovery and business continuity plan The book imparts essential knowledge needed to implement data center design and construction apply IT technologies and continually improve data center operations

Distributed and Cloud Computing Kai Hwang, Jack Dongarra, Geoffrey C. Fox, 2013-12-18 Distributed and Cloud Computing From Parallel Processing to the Internet of Things offers complete coverage of modern distributed computing technology including clusters the grid service oriented architecture massively parallel processors peer to peer networking and cloud computing It is the first modern up to date distributed systems textbook it explains how to create high performance scalable reliable systems exposing the design

principles architecture and innovative applications of parallel distributed and cloud computing systems Topics covered by this book include facilitating management debugging migration and disaster recovery through virtualization clustered systems for research or ecommerce applications designing systems as web services and social networking systems using peer to peer computing The principles of cloud computing are discussed using examples from open source and commercial applications along with case studies from the leading distributed computing vendors such as Amazon Microsoft and Google Each chapter includes exercises and further reading with lecture slides and more available online This book will be ideal for students taking a distributed systems or distributed computing class as well as for professional system designers and engineers looking for a reference to the latest distributed technologies including cloud P2P and grid computing Complete coverage of modern distributed computing technology including clusters the grid service oriented architecture massively parallel processors peer to peer networking and cloud computing Includes case studies from the leading distributed computing vendors Amazon Microsoft Google and more Explains how to use virtualization to facilitate management debugging migration and disaster recovery Designed for undergraduate or graduate students taking a distributed systems course each chapter includes exercises and further reading with lecture slides and more available online

**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 **Cloud Standards** Marvin

Waschke,2012-12-05 Cloud computing is often described as providing computing resources the way electric utilities provide energy In theory anyone with an adequate connection to the Internet should be able to tap into a cloud provider and get exactly the computing resources they want when they want it just like plugging into the electricity grid and getting exactly the energy you want when you want it But to get that electricity there are many standards voltage frequency phase motors constructed in standard ways there is a long list there is an equally long list for cloud computing Many of the standards are already in place Others are being developed some in contention Cloud Standards is a broad discussion of important existing and future standards For existing standards the discussion focuses on how they are used providing practical advice to engineers constructing clouds and services to be deployed on clouds For future standards the discussion is on why a standard is needed what the benefits will be and what is being done now to fill the gap No current book provides this information in the depth and detail necessary for an engineer in his work an architect in designing cloud systems a product manager collecting and evaluating products or an executive evaluating the feasibility of a project A second benefit from this book is that it provides insight into cloud implementations Cloud implementations can be seen as the culmination of many trends in software and hardware engineering Much of the foundation for these developments have been crystallized in the form of standards like TCP IP Transmission Control Protocol Internet Protocol and HTTP Hypertext Transmission Protocol The book leads readers to understand how these contribute to and affect cloud implementations Unfortunately emerging standards are often messy Cloud implementers may need to choose between competing proposed standards Sometimes it is better to reject the standard entirely and roll your own This book provides background for intelligent decisions Keeping a cloud or an application implemented on a cloud running well requires careful tuning of the implementation Tuning often

involves adjusting controls that are in the standard or applying the standard in less well known ways This book is an aid in tuning cloud systems for maximum benefits *Architecting the Cloud* Michael J. Kavis, 2014-01-28 An expert guide to selecting the right cloud service model for your business Cloud computing is all the rage allowing for the delivery of computing and storage capacity to a diverse community of end recipients However before you can decide on a cloud model you need to determine what the ideal cloud service model is for your business Helping you cut through all the haze Architecting the Cloud is vendor neutral and guides you in making one of the most critical technology decisions that you will face selecting the right cloud service model s based on a combination of both business and technology requirements Guides corporations through key cloud design considerations Discusses the pros and cons of each cloud service model Highlights major design considerations in areas such as security data privacy logging data storage SLA monitoring and more Clearly defines the services cloud providers offer for each service model and the cloud services IT must provide Arming you with the information you need to choose the right cloud service provider Architecting the Cloud is a comprehensive guide covering everything you need to be aware of in selecting the right cloud service model for you **AWS Certified Cloud**

**Practitioner All-in-One Exam Guide (Exam CLF-C01)** Daniel Carter, 2021-01-12 This effective study guide offers 100% coverage of every objective for the AWS Certified Cloud Practitioner exam Take the challenging AWS Certified Cloud Practitioner exam with confidence using the detailed information contained in this effective self study guide Written by a recognized AWS expert the book offers 100 percent coverage of all four exam domains Cloud concepts security and compliance technology and billing and pricing AWS Certified Cloud Practitioner All in One Exam Guide Exam CLF C01 is based on proven pedagogy and features special elements that teach and reinforce practical skills You will get accurate practice questions along with detailed explanations Beyond exam preparation the guide also serves as a valuable on the job reference Comprehensive coverage includes How to obtain AWS Certified Cloud Practitioner certification The value of the AWS Cloud The AWS shared responsibility model AWS Cloud security best practices AWS Cloud costs economics and billing practices Core services including compute network databases and storage AWS services for common use cases AWS Cloud economics Full length practice exam with explanations And much more Online content includes 130 practice exam questions Fully customizable exam engine [CompTIA Network+ Certification All-in-One Exam Guide, Eighth Edition \(Exam N10-008\)](#) Mike Meyers, Scott Jernigan, 2022-02-11 This up to date Mike Meyers exam guide delivers complete coverage of every topic on the N10 008 version of the CompTIA Network Certification exam Get complete coverage of all the CompTIA Network exam objectives inside this comprehensive resource Created and edited by Mike Meyers the leading expert on CompTIA certification and training CompTIA Network Certification All in One Exam Guide Eighth Edition covers exam N10 008 in full detail You ll find learning objectives at the beginning of each chapter exam tips scenarios practice exam questions and in depth explanations Designed to help you pass the exam with ease this authoritative guide also serves as an essential on the

job reference Covers all exam topics including Network architectures Cabling and topology Ethernet basics Network installation TCP IP applications and network protocols Routing Network naming Advanced networking devices IPv6 Remote connectivity Wireless networking Virtualization and cloud computing Mobile networking Network operations Managing risk Network security Network monitoring and troubleshooting Online content includes 100 practice exam questions in a customizable test engine 20 lab simulations to help you prepare for the performance based questions One hour of video training from Mike Meyers Mike Meyers favorite shareware and freeware networking tools and utilities

**VMware vCloud Architecture Toolkit (vCAT)** VMware Press,2013-08-13 The complete vCAT printed reference knowledge tools and validated designs for building high value vCloud solutions The vCloud Architecture Toolkit vCAT brings together validated designs tools and knowledge for architecting implementing operating and consuming modern vCloud infrastructure based on the Software Defined Data Center SDDC vCAT has already helped hundreds of VMware customers succeed with vCloud Now pioneering VMware architect John Arrasjid has integrated essential vCAT information into a definitive printed guide adding even more context and examples for successful planning and deployment To do so Arrasjid has distilled contributions from more than 100 VMware architects consultants administrators engineers project managers and other technical leaders VMware vCloud Architecture Toolkit vCAT is your complete roadmap for using virtualization to simplify data centers and related IT infrastructure You ll find up to the minute field proven insights for addressing a wide spectrum of challenges from availability to interoperability security to business continuity Coverage includes vCAT design guidelines and patterns for efficiently architecting operating and consuming VMware cloud computing solutions Software defined datacenter services for storage networking security and availability People process and technology issues associated with effective vCloud operation and maintenance Efficient service consumption consumption models service catalogs vApps and service provider interactions Workflows to coordinate and automate task sequences which extend beyond vCloud VMware vCloud Director Server Resource Kit software tools Advanced cloud bursting and autoscaling techniques to dynamically leverage additional computing resources Planning and management of capacity security compliance and disaster recovery

[Oracle Exalogic Elastic Cloud Handbook](#) Tom Plunkett,TJ Palazzolo,Tejas Joshi,2012-09-05 Achieve Extreme Application Performance for a Private Cloud with Oracle Exalogic Elastic Cloud Transition to a private cloud computing infrastructure and achieve unmatched levels of performance with help from this Oracle Press guide Oracle Exalogic Elastic Cloud Handbook shows you how to plan implement and maintain a private cloud Find out how to set up components deploy Java applications maximize redundancy and throughput and migrate legacy workloads Examples screenshots and diagrams are included throughout this comprehensive resource Configure Oracle Exalogic Elastic Cloud nodes and racks Optimize Java EE application performance on Oracle WebLogic Server Provision and administer a highly scalable private cloud Build debug and manage custom Java applications Secure monitor and tune using Oracle Enterprise Manager Leverage capabilities from Oracle Fusion



Middleware Consolidate Oracle and third party application workloads      *CCSP Certified Cloud Security Professional All-in-One Exam Guide, Second Edition* Daniel Carter, 2019-12-06 Comprehensive coverage of every domain on the CCSP exam This highly effective self study guide covers all six domains of the 2019 release of the challenging Certified Cloud Security Professional exam as well as the CCSP Common Body of Knowledge developed by the International Information Systems Security Certification Consortium ISC 2 CCSP Certified Cloud Security Professional All in One Exam Guide Second Edition offers clear explanations real world examples and practice questions that match the content tone and format of those on the actual exam To aid in retention each chapter includes exam tips that highlight key information a summary that serves as a quick review of salient points and practice questions that allow you to test your comprehension Notes Tips and Cautions throughout provide additional insight Covers all six exam domains Cloud Concepts Architecture and Design Cloud Data Security Cloud Platform Infrastructure Security Cloud Application Security Cloud Security Operations Legal Risk and Compliance Online content includes 300 practice questions      **CCSP Certified Cloud Security Professional All-in-One Exam Guide, Third Edition** Daniel Carter, 2022-11-25 This fully updated self study guide delivers 100% coverage of all topics on the current version of the CCSP exam Thoroughly revised for the 2022 edition of the exam this highly effective test preparation guide covers all six domains within the CCSP Body of Knowledge The book offers clear explanations of every subject on the CCSP exam and features accurate practice questions and real world examples New updated or expanded coverage includes cloud data security DevOps security mobile computing threat modeling paradigms regulatory and legal frameworks and best practices and standards Written by a respected computer security expert CCSP Certified Cloud Security Professional All in One Exam Guide Third Edition is both a powerful study tool and a valuable reference that will serve professionals long after the test To aid in self study each chapter includes exam tips that highlight key information a summary that serves as a quick review of salient points and practice questions that allow you to test your comprehension Special design elements throughout provide insight and call out potentially harmful situations All practice questions match the tone content and format of those on the actual exam Includes access to 300 practice questions in the TotalTester™ Online customizable test engine Written by an IT security expert and experienced author      CCSP Certified Cloud Security Professional Practice Exams Daniel Carter, 2018-03-08 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 Don't Let the Real Test Be Your First Test This highly effective self study guide covers all six domains of the challenging Certified Cloud Security Professional exam as well as the CCSP Common Body of Knowledge developed by the International Information Systems Security Certification Consortium ISC 2 To reinforce important skills and facilitate retention every question is accompanied by in depth explanations for both correct and incorrect answers Designed to help you pass the test with ease this book is also an ideal companion to the bestselling CCSP Certified Cloud Security Professional All in One Exam

Guide Covers all six exam domains Architectural Concepts Design Requirements Cloud Data Security Cloud Platform Infrastructure Security Cloud Application Security Operations Legal Compliance CD ICON Electronic content includes 250 practice questions Secured book PDF *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 **AWS Certified Solutions Architect Associate All-in-One Exam Guide (Exam SAA-C01)** Joyjeet Banerjee, 2018-09-07 COVERS THE NEW 2018 EXAM SAA C01 This effective study guide provides 100% coverage of every topic on the AWS Certified Solutions Architect Associate exam Get complete coverage of all objectives included on the February 2018 SAA C01 exam from this comprehensive resource Written by an expert AWS Solutions Architect and well respected author this authoritative guide fully addresses the knowledge and skills required for passing the AWS Certified Solutions Architect Associate exam You ll find learning objectives at the beginning of each chapter exam tips practice exam questions and in depth explanations Designed to help you pass the exam with ease this definitive volume also serves as an essential on the job reference Covers all exam domains including Design Resilient Architectures Define Performant Architectures Specify Secure Applications and Architectures Design Cost Optimized Architectures Define Operationally Excellent Architectures Digital content includes 130 practice exam questions Test engine that provides practice exams or quizzes that can be customized by chapter or exam objective **Mike Meyers' CompTIA Network+ Guide to Managing and Troubleshooting Networks, Sixth Edition (Exam N10-008)** Mike Meyers, Scott Jernigan, 2022-03-25 This fully updated four color textbook is designed for classroom use and covers every topic on the latest version of the challenging CompTIA Network exam Written by Mike Meyers the leading CompTIA certification and training expert this full color resource prepares students for the CompTIA Network exam and puts you on the path to becoming an expert networking professional Thoroughly revised for the current version of the CompTIA Network exam the book contains helpful on the job advice hands on examples chapter summaries key terms quizzes review questions lab projects and hundreds of photographs and illustrations Mike Meyers CompTIA Network Guide to Managing and Troubleshooting Networks Sixth Edition Exam N10 008 covers the latest concepts and technologies including

basic datacenter cloud and virtual networking concepts Students will learn networking fundamentals and best practices and networking fundamentals while following the path to becoming an effective networking professional Special design elements throughout reinforce salient points while preparing you for exam day Contains 100% coverage of every objective for CompTIA Network exam N10 008 Online content includes 100 accurate practice questions a self assessment practice exam engine videos and lab simulations from Mike Meyers and on the job tools and utilities Written by CompTIA certification and training guru Mike Meyers Instructor materials and answer keys are available to adopting instructors through your McGraw Hill sales representative answers are not printed in the book     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     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

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### Chapter Cloud Architecture And Datacenter Design Introduction

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