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KEY=ARCHITECTING - MARISA ALIJAH

Architecting the Cloud Design Decisions for Cloud Computing Service Models (SaaS, PaaS, and IaaS) John Wiley & Sons 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. Cloud Computing Jones & Bartlett Publishers Explains what cloud computing is and how this new technology is being used to make lives easier. Cloud Computing Jones & Bartlett Learning Cloud computing is changing the way businesses and users interact with computers and mobile devices. Gone are the days of expensive data centers, racks of disk drives, and large IT support teams. In their place are software applications delivered to users on demand from the cloud, high-capacity, auto-replicated, secure cloud-based disk-storage and databases, virtualized-server and desktop environments, and cloud-based collaboration tools which support on-premise-, remote-, and hybrid-team success. Within the pages of Cloud Computing, readers will find a hands-on introduction to the cloud, which will have them using cloud-based data storage to store personal documents and to share photos and other digital media with other users and their own various devices, performing cloud-based automated backups, and using other cloud-based applications by the end of Chapter 1! Readers will learn specifics about software as a service (Saas), platform as a service (Paas), infrastructure as a service (IaaS), server and desktop virtualization, and much more. Each chapter of the book presents a cloud topic, examines the underlying business case, and then takes the reader on a test drive. The chapters are filled with real-world case studies. The book's content is ideal for users wanting to migrate to the cloud, IT professionals seeking knowledge on cloud fundamentals, developers who will build the cloud solutions of the future, and CIOs wanting insights on the most recent cloud solutions. Security Concern of Cloud Computing Models Cloud Service Delivery Models(SaaS,PaaS,IaaS) Vs Deployment Models(Private,Public, Hybrid & Community Clouds) LAP Lambert Academic Publishing Cloud computing is a thriving technology that most organizations here in Kenya are considering for adoption as a cost effective strategy for managing IT. However, organizations also still consider the technology to be associated with many business risks that are not yet resolved. In this era of cloud computing where all the software, platform and infrastructure are virtualised and provided as services typically exploited using pay-per-use model, the data and processes are maintained by some third party vendors and hence the control is lost. Internet is the communication channel for cloud computing which is open to everyone. If weak points are identified by attackers, it could be exploited to a great extent. Hence it is the tempting target for cyber crime. Most of the companies would like to embrace cloud computing services due to the huge cost savings it provides. But they are taken aback due to one main reason "Security." It is against this backdrop therefore that this book was written to critically analyse the security concerns Software as a Service (SaaS), Platform as a Service (PaaS) and Infrastructure as a Service (IaaS) with their respective deployment models. Testing Cloud Services How to Test SaaS, PaaS & IaaS Rocky Nook, Inc. Everybody is confronted with cloud computing. Whether you are a user, designer, programmer, project manager, or tester, sooner or later the cloud affects your work. If you are involved in selecting or implementing services from the cloud, or in keeping them up and running, this book will prove to be an invaluable resource. Testing Cloud

Services covers an extensive list of risks that arise when implementing cloud computing, including some traditional risks and some completely new ones, and provides strategies for avoiding these risks and solving problems. Every risk is connected to existing, updated, and new test measures. It is necessary to start testing during the selection of cloud services, and continue end-to-end testing even after going live, as continuity risks arise all the time. With this book in hand, you will save a lot of time and discover an effective approach to testing that can be applied in practice immediately! Handbook of Cloud Computing Basic to Advance research on the concepts and design of Cloud Computing BPB Publications Great POSSIBILITIES and high future prospects to become ten times folds in the near FUTURE DESCRIPTION The book "Handbook of Cloud Computing" provides the latest and in-depth information of this relatively new and another platform for scientific computing which has great possibilities and high future prospects to become ten folds in near future. The book covers in comprehensive manner all aspects and terminologies associated with cloud computing like SaaS, PaaS and IaaS and also elaborates almost every cloud computing service model. The book highlights several other aspects of cloud computing like Security, Resource allocation, Simulation Platforms and futuristic trend i.e. Mobile cloud computing. The book will benefit all the readers with all in-depth technical information which is required to understand current and futuristic concepts of cloud computing. No prior knowledge of cloud computing or any of its related technology is required in reading this book. KEY FEATURES Comprehensively gives clear picture of current state-of-the-art aspect of cloud computing by elaborating terminologies, models and other related terms. Enlightens all major players in Cloud Computing industry providing services in terms of SaaS, PaaS and IaaS. Highlights Cloud Computing Simulators, Security Aspect and Resource Allocation. In-depth presentation with well-illustrated diagrams and simple to understand technical concepts of cloud. WHAT WILL YOU LEARN Cloud Computing, Virtualisation Software as a Service, Platform as a Service, Infrastructure as a Service Data in Cloud and its Security Cloud Computing – Simulation, Mobile Cloud Computing Specific Cloud Service Models Resource Allocation in Cloud Computing WHO THIS BOOK IS FOR Students of Polytechnic Diploma Classes- Computer Science/ Information Technology Graduate Students- Computer Science/ CSE / IT/ Computer Applications Master Class Students—Msc (CS/IT)/ MCA/ M.Phil, M.Tech, M.S. Researcher's—Ph.D Research Scholars doing work in Virtualization, Cloud Computing and Cloud Security Industry Professionals- Preparing for Certifications, Implementing Cloud Computing and even working on Cloud Security Table of Contents 1. Introduction to Cloud Computing 2. Virtualisation 3. Software as a Service 4. Platform as a Service 5. Infrastructure as a Service 6. Data in Cloud 7. Cloud Security 8. Cloud Computing – Simulation 9. Specific Cloud Service Models 10. Resource Allocation in Cloud Computing 11. Mobile Cloud Computing Cloud Computing Service Discovery Framework for IaaS and PaaS Models Cloud service discovery is a new challenge which requires a dedicated framework in order to approach it. Over the past few years, several methods and frameworks have been developed for cloud service discovery but they are mostly designed for all cloud computing models in general which are not optimal. The three cloud computing models are Infrastructure as a Service (IaaS), Platform as a Service (PaaS) and Software as a Service (SaaS), each computing model has its own set of resources. Having one single discovery framework for all three is not very efficient and the implementation of such a framework is complex with lots of overhead. The existing frameworks for cloud service discovery are mostly semantic-based and there are a few syntax-based frameworks that are using the filter by Attribute method as their solution. This research proposes a cloud service discovery framework focusing on IaaS and PaaS cloud computing models. Our framework is using a syntax-based query engine at its core and uses Extensible Markup Language (XML) for storing cloud service information. We eventually test the framework from the user point of view with IaaS and PaaS cloud services from real cloud service providers. Such a framework could be a good solution for IaaS and PaaS since it is accurate enough for service discovery and easy to update. Handbook of Cloud Computing BPB Publications Great POSSIBILITIES and high future prospects to become ten times folds in the near FUTUREKey features Comprehensively gives clear picture of current state-of-the-art aspect of cloud computing by elaborating terminologies, models and other related terms. Enlightens all major players in Cloud Computing industry providing services in terms of SaaS, PaaS and IaaS. Highlights Cloud Computing Simulators, Security Aspect and Resource Allocation. In-depth presentation with well-illustrated diagrams and simple to understand technical concepts of cloud. Description The book "e;Handbook of Cloud Computing"e; provides the latest and in-depth information of this relatively new and another platform for scientific computing which has great possibilities and high future prospects to become ten folds in near future. The book covers in comprehensive manner all aspects and terminologies associated with cloud computing like SaaS, PaaS and IaaS and also elaborates almost every cloud computing service model.The book highlights several other aspects of cloud computing like Security, Resource allocation, Simulation Platforms and futuristic trend i.e. Mobile cloud computing. The book will benefit all the readers with all in-depth technical information which is required to understand current and futuristic concepts of cloud computing. No prior knowledge of cloud computing or any of its related technology is required in reading this book. What will you learn Cloud Computing, Virtualisation Software as a Service, Platform as a Service, Infrastructure as a Service Data in Cloud and its Security Cloud Computing - Simulation, Mobile Cloud Computing Specific Cloud Service Models Resource Allocation in Cloud Computing Who this book is for Students of Polytechnic Diploma Classes- Computer Science/ Information Technology Graduate Students- Computer Science/ CSE / IT/ Computer Applications Master Class Students-Msc (CS/IT)/ MCA/ M.Phil, M.Tech, M.S. Researcher's-Ph.D Research Scholars doing work in Virtualization, Cloud Computing and Cloud Security Industry Professionals- Preparing for Certifications, Implementing Cloud Computing and even working on Cloud Security Table of contents1. Introduction to Cloud Computing2. Virtualisation3. Software as a Service4. Platform as a Service5. Infrastructure as a Service6. Data in Cloud7. Cloud Security 8. Cloud Computing - Simulation9. Specific Cloud Service Models10. Resource Allocation in Cloud Computing11. Mobile Cloud Computing About the authorDr. Anand Nayyar received Ph.D (Computer

Science) in Wireless Sensor Networks and Swarm Intelligence. Presently he is working in Graduate School, Duy Tan University, Da Nang, Vietnam. He has total of fourteen Years of Teaching, Research and Consultancy experience with more than 250 Research Papers in various International Conferences and highly reputed journals. He is certified Professional with more than 75 certificates and member of 50 Professional Organizations. He is acting as "e;ACM DISTINGUISHED SPEAKER"e; Cloud Computing A Complete Guide on the Concepts and Design Of Cloud Computing (SaaS, PaaS, IaaS, Virtualization, Business Models, Mobile, Security and More) Independently Published Do you want to explore the fundamentals of cloud computing? Do you want to understand cloud computing concepts and technologies? If You Answered "Yes" To Any of The Above, Look No Further. This is the book for you! Hello! Welcome to "CLOUD COMPUTING". Cloud Computing is becoming the mainstream in the IT world as a growing amount of companies around the globe are in the process of a digital transformation while using the power of cloud-based services. Cloud Computing has really changed the way companies looking into their digital Infrastructure now a days. Cloud computing with its unique paradigms brings in new opportunities and challenges for developers and administrators worldwide. The book will start with basic introduction to cloud concepts like SAAS, PAAS and IAAS. You will also learn how Linux systems is changing the Infrastructure landscape worldwide. This book helps you to understand the much�needed concepts of the Cloud Computing. We have clearly explained how Traditional IT environment works and how Cloud Computing differs from it. You will understand the various models of Cloud Computing, the leading Cloud Computing platforms, comparisons between the platforms. You will also come to know about cloud service model and cloud deployment model in detail with cloud computing examples related to our day-to-day life business scenarios. Here's what makes this book special: Introduction to Cloud Computing The Main Types of Cloud Computing Network Cloud Services & Cloud Networking Services Cloud Computing Trends For 2021 Cloud Platforms and Infrastructure Advantages of the "Public Cloud": Productivity, Time-To-Market, Modernization How to Choose the Best Solution: Tips for A Conscious Selection Much, much more! This book is different from others because in this book: You will learn cloud distribution models You will learn about emerging cloud service categories You will learn about skills of a cloud specialist Learn Cloud Computing, Planning, Technologies, Architecture, Infrastructure, Cloud Models, IaaS, PaaS, SaaS & more! Interested? Then Scroll up, Click on "Buy now with 1-Click", and Get Your Copy Now! Cloud Computing A Complete Guide on the Concepts and Design Of Cloud Computing (SaaS, PaaS, IaaS, Virtualization, Business Models, Mobile, Security and More) Do you want to explore the fundamentals of cloud computing?Do you want to understand cloud computing concepts and technologies?If You Answered "Yes" To Any of The Above, Look No Further. This is the book for you! Hello! Welcome to "CLOUD COMPUTING". Cloud Computing is becoming the mainstream in the IT world as a growing amount of companies around the globe are in the process of a digital transformation while using the power of cloud-based services. Cloud Computing has really changed the way companies looking into their digital Infrastructure now a days. Cloud computing with its unique paradigms brings in new opportunities and challenges for developers and administrators worldwide. The book will start with basic introduction to cloud concepts like SAAS, PAAS and IAAS. You will also learn how Linux systems is changing the Infrastructure landscape worldwide. This book helps you to understand the much�needed concepts of the Cloud Computing. We have clearly explained how Traditional IT environment works and how Cloud Computing differs from it. You will understand the various models of Cloud Computing, the leading Cloud Computing platforms, comparisons between the platforms. You will also come to know about cloud service model and cloud deployment model in detail with cloud computing examples related to our day-to-day life business scenarios. Here's what makes this book special: Introduction to Cloud Computing The Main Types of Cloud Computing Network Cloud Services & Cloud Networking Services Cloud Computing Trends For 2021 Cloud Platforms and Infrastructure Advantages of the "Public Cloud" Productivity, Time-To-Market, Modernization How to Choose the Best Solution: Tips for A Conscious Selection Much, much more! This book is different from others because in this book: You will learn cloud distribution models You will learn about emerging cloud service categories You will learn about skills of a cloud specialist Learn Cloud Computing, Planning, Technologies, Architecture, Infrastructure, Cloud Models, IaaS, PaaS, SaaS & more! The Enterprise Cloud Best Practices for Transforming Legacy IT "O'Reilly Media, Inc." Despite the buzz surrounding the cloud computing, only a small percentage of organizations have actually deployed this new style of IT—so far. If you're planning your long-term cloud strategy, this practical book provides insider knowledge and actionable real-world lessons regarding planning, design, operations, security, and application transformation. This book teaches business and technology managers how to transition their organization's traditional IT to cloud computing. Rather than yet another book trying to sell or convince readers on the benefits of clouds, this book provides guidance, lessons learned, and best practices on how to design, deploy, operate, and secure an enterprise cloud based on real-world experience. Author James Bond provides useful guidance and best-practice checklists based on his field experience with real customers and cloud providers. You'll view cloud services from the perspective of a consumer and as an owner/operator of an enterprise private or hybrid cloud, and learn valuable lessons from successful and less-than-successful organization use-case scenarios. This is the information every CIO needs in order to make the business and technical decisions to finally execute on their journey to cloud computing. Get updated trends and definitions in cloud computing, deployment models, and for building or buying cloud services Discover challenges in cloud operations and management not foreseen by early adopters Use real-world lessons to plan and build an enterprise private or hybrid cloud Learn how to assess, port, and migrate legacy applications to the cloud Identify security threats and vulnerabilities unique to the cloud Employ a cloud management system for your enterprise (private or multi-provider hybrid) cloud ecosystem Understand the challenges for becoming an IT service broker leveraging the power of the cloud THE CLOUD architect DECIDING on SaaS, PaaS, & IaaS SERVICE MODELS for CTOs, Stake Holders Notion Press Within each chapter I'll share a story that is relevant to the topic of discus- sion. These

stories are either a personal experience that I have been involved in during my career or one of a peer or colleague. The names of companies, individuals, and products will be masked by fictitious names. Storytelling helps readers relate better to technical topics because we all have similar experiences throughout our careers. As with any other shift in technology, there is a lot of hype and many myths and misperceptions about cloud computing that lead to resistance or difficulties for some organizations in adopting the cloud. I have observed the same behavior numerous times in my career with the adoption of the Internet, service-oriented architecture (SOA), agile methodologies, and others. I have been fortunate enough to have multiple opportunities to be a pioneer for several of these technology shifts. I will use some stories from the past to show the parallels between the resistance to cloud computing and the resistance to the predecessor technologies. Briggs Enterprise Cloud epUB _1 Microsoft Press How do you start? How should you build a plan for cloud migration for your entire portfolio? How will your organization be affected by these changes? This book, based on real-world cloud experiences by enterprise IT teams, seeks to provide the answers to these questions. Here, you'll see what makes the cloud so compelling to enterprises; with which applications you should start your cloud journey; how your organization will change, and how skill sets will evolve; how to measure progress; how to think about security, compliance, and business buy-in; and how to exploit the ever-growing feature set that the cloud offers to gain strategic and competitive advantage. Microsoft 365 For Dummies John Wiley & Sons Amp up your collaboration skills and rock the modern workplace by harnessing the power of Microsoft 365 with this one-stop guide to the world's leading productivity platform The Microsoft 365 productivity solution for the workplace is a cloud-based service with many features for effective and secure collaboration virtually or in person. Whether you start your day with meetings in Teams, respond to Outlook emails, create documents with Office apps, or even automate your work with artificial intelligence, Microsoft 365 has you covered. But first, you must unlock the potential of this powerful solution to showcase your ability to keep up with the modern workplace and make an impact in your organization. To do that, you need Microsoft 365 For Dummies! This book walks you through the steps to get your work done anytime, anywhere, on any device, with Microsoft Teams as the central hub. Discover how to chat online in real time; conduct online meetings; co-author documents in the cloud; develop no-code applications; and even prioritize your well-being. The insights and step-by-step guidance in Microsoft 365 For Dummies will help you stay connected and engaged with your colleagues. Level up your teamwork game with the latest meeting and collaboration best practices from Microsoft Teams Stretch your use of Office apps (Word, Excel, PowerPoint, Outlook, and OneNote) by infusing artificial intelligence into your everyday tasks Save time (and look really smart) by automating your work with the Power Platform apps Take a break from work and focus on your health and well-being at home or in the office Whether you're a Microsoft 365 newbie or a superuser looking for details on what's new, Microsoft 365 For Dummies is the friendly and authoritative how-to book you need. Discover the benefits of cloud technology today! Security, Trust, and Regulatory Aspects of Cloud Computing in Business Environments IGI Global Emerging as an effective alternative to organization-based information systems, cloud computing has been adopted by many businesses around the world. Despite the increased popularity, there remain concerns about the security of data in the cloud since users have become accustomed to having control over their hardware and software. Security, Trust, and Regulatory Aspects of Cloud Computing in Business Environments compiles the research and views of cloud computing from various individuals around the world. Detailing cloud security, regulatory and industry compliance, and trust building in the cloud, this book is an essential reference source for practitioners, professionals, and researchers worldwide, as well as business managers interested in an assembled collection of solutions provided by a variety of cloud users. Cloud Computing Concepts, Technology & Architecture Pearson Education 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. Cloud Technology: Concepts, Methodologies, Tools, and Applications Concepts, Methodologies, Tools, and Applications IGI Global As the Web grows and expands into ever more remote parts of the world, the availability of resources over the Internet increases exponentially. Making use of this widely prevalent tool, organizations and individuals can share and store knowledge like never before. Cloud Technology: Concepts, Methodologies, Tools, and Applications investigates the latest research in the ubiquitous Web, exploring the use of applications and software that make use of the Internet's anytime, anywhere availability. By bringing together research and ideas from across the globe, this publication will be of use to computer engineers, software developers, and end users in business, education, medicine, and more. Big Data Computing A Guide for Business and Technology Managers CRC Press This book unravels the mystery of Big Data

computing and its power to transform business operations. The approach it uses will be helpful to any professional who must present a case for realizing Big Data computing solutions or to those who could be involved in a Big Data computing project. It provides a framework that enables business and technical managers to make optimal decisions necessary for the successful migration to Big Data computing environments and applications within their organizations. Cloud Computing Models Information Technology has always been considered a major pain point of enterprise organizations, from the perspectives of both cost and management. However, the information technology industry has experienced a dramatic shift in the past decade - factors such as hardware commoditization, open-source software, virtualization, workforce globalization, and agile IT processes have supported the development of new technology and business models. Cloud computing now offers organizations more choices regarding how to run infrastructures, save costs, and delegate liabilities to third-party providers. It has become an integral part of technology and business models, and has forced businesses to adapt to new technology strategies. Accordingly, the demand for cloud computing has forced the development of new market offerings, representing various cloud service and delivery models. These models significantly expand the range of available options, and task organizations with dilemmas over which cloud computing model to employ. This thesis poses analysis of available cloud computing models and potential future cloud computing trends. Comparative analysis includes cloud services delivery (SaaS, PaaS, IaaS) and deployment models (private, public, and hybrid). Cloud computing paradigms are discussed in the context of technical, business, and human factors, analyzing how business and technology strategy could be impacted by the following aspects of cloud computing: --Architecture --Security --Costs --Hardware/software trends (commodity vs. brands, open vs. closed-source) --Organizational/human Factors To provide a systematic approach to the research presented in this paper, cloud taxonomy is introduced to classify and compare the available cloud service offerings. In particular, this thesis focuses on the services of a few major cloud providers. Amazon Web Services (AWS) will be used as a base in many examples because this cloud provider represents approximately 70% of the current public cloud services market. Amazon's AWS has become a cloud services trend-setter, and a reference point for other cloud service providers. The analysis of cloud computing models has shown that public cloud deployment model is likely to stay dominant and keep expanding further. Private and Hybrid deployment models are going to stay for years ahead but their market share is going to continuously drop. In the long-term private and Hybrid cloud models most probably will be used only for specific business cases. IaaS service delivery model is likely to keep losing market share to PaaS and SaaS models because companies realize more value and resource-savings from software and platform services rather than infrastructure. In the near future we can expect significant number of market consolidations with few large players retaining market control at the end. Essentials of Cloud Computing CRC Press Cloud computing—accessing computing resources over the Internet—is rapidly changing the landscape of information technology. Its primary benefits compared to on-premise computing models are reduced costs and increased agility and scalability. Hence, cloud computing is receiving considerable interest among several stakeholders—businesses, the IT industry, application developers, researchers, and students. To successfully embrace this new computing model, these stakeholders need to acquire new cloud computing skills and knowledge. This book is designed to provide readers with a clear and thorough understanding of the key aspects of cloud computing. Presented in an easy-to-understand style, Essentials of Cloud Computing begins with an introduction to basic cloud computing concepts. It then covers cloud computing architecture, deployment models, programming models, and cloud service types, such as Software as a Service (SaaS) and Infrastructure as a Service (IaaS). It also discusses the cloud's networking aspects, major service providers, open source support, and security issues. The book concludes with a discussion of several advanced topics, such as mobile clouds, media clouds, and green clouds. This book is intended for beginners as well as experienced practitioners who want to learn more about cloud computing. It includes many case studies, programming examples, and industry-based applications. Each chapter concludes with review questions that help readers check their understanding of the presented topics. Essentials of Cloud Computing will help readers understand the issues and challenges of cloud computing and will give them the tools needed to develop and deploy applications in clouds. Cloud Computing 11th EAI International Conference, CloudComp 2021, Virtual Event, December 9–10, 2021, Proceedings Springer Nature This book constitutes the refereed proceedings of the 11th International Conference on Cloud Computing, CloudComp 2021, held in December 2021. Due to COVID-19 pandemic the conference was held virtually. The 17 full papers were carefully reviewed and selected from 40 submissions and detail cloud computing technologies for efficient and intelligent computing in secure and smart environments with distributed devices. The theme of CloudComp 2021 was "Cloud Computing for Secure and Smart Applications". The book is organized in three general areas of data analytics for cloud systems with distributed applications, cloud architecture and challenges in real-world use, and security in cloud/edge platforms. Hands-On Cloud Administration in Azure Implement, monitor, and manage important Azure services and components including IaaS and PaaS Packt Publishing Ltd Explore Azure services such as networking, virtual machines, web apps, databases, cloud migration, and security Key FeaturesUnderstand Azure services to build, deploy, and manage workloads on cloudLearn in-depth core Azure services and work through real-world scenarios and case studiesA concise and practical guide for learning cloud administration on AzureBook Description Azure continues to dominate the public cloud market and grow rapidly thanks to a number of recent innovations. Azure's wide range of services and support has led to a large number of customers switching to Azure cloud. Hands-On Cloud Administration in Azure starts with the basics of Azure cloud fundamentals and key concepts of the cloud computing ecosystem and services. Then, you will gradually get acquainted with core services provided by Azure, including Azure VNet, types and assignments of IP addresses, and network security groups. You will also work on creating and administering Azure Virtual Machines, types of virtual machines (VMs), and design VM solutions based on computing workloads. As you

make your way through the chapters, you will explore Azure App Service, discover how to host your web apps in Azure, and monitor and troubleshoot them. In the concluding chapters, you will learn more complex and abstract services, such as Azure Storage, Azure Backup, and Azure Site Recovery. You will also get to grips with Azure SQL Databases and the SQL on Azure VM concept. By the end of this book, you will have obtained practical experience of working with Azure services and Azure administration, along with maintaining, monitoring, and securing your Azure resources. What you will learnUnderstand the concepts of IaaS and PaaSLearn design patterns for Azure solutionsDesign data solutions in AzureExplore concepts of hybrid clouds with AzureImplement Azure Security in cloudCreate and manage Azure resources with script-based toolsWho this book is for Hands-On Cloud Administration in Azure is for system administrators, cloud admins, cloud engineers, and DevOps engineers who are interested in understanding administration-related services in Azure. Prior experience of working with Azure is an added advantage. Cloud Computing First International Conference, CloudCom 2009, Beijing, China, December 1-4, 2009, Proceedings Springer Science & Business Media This volume contains the proceedings of CloudCom 2009, the First Inter- tional Conference on Cloud Computing. The conference was held in Beijing, China, during December 1–4, 2009, and was the ?rst in a series initiated by the Cloud Computing Association (www.cloudcom.org). The Cloud Computing Association was founded in 2009 by Chunming Rong, Martin Gilje Jaatun, and Frode Eika Sandnes. This ?rst conference was organized by the Beijing Ji- tong University, Chinese Institute of Electronics, and Wuhan University, and co-organized by Huazhong University of Science and Technology, South China Normal University, and Sun Yat-sen University. Ever since the inception of the Internet, a "Cloud" has been used as a metaphor for a network-accessible infrastructure (e.g., data storage, computing hardware, or entire networks) which is hidden from users. To some, the concept of cloud computing may seem like a throwback to the days of big mainframe computers, but we believe that cloud computing makes data truly mobile, - lowing a user to access services anywhere, anytime, with any Internet browser. In cloud computing, IT-related capabilities are provided as services, accessible without requiring control of, or even knowledge of, the underlying technology. Cloud computing provides dynamic scalability of services and computing power, and although many mature technologies are used as components in cloud c- puting, there are still many unresolved and open problems. Implementing Azure Cloud Design Patterns Implement efficient design patterns for data management, high availability, monitoring and other popular patterns on your Azure Cloud Packt Publishing Ltd A hands-on guide to mastering Azure cloud design patterns and best practices. Key Features Master architectural design patterns in Azure. Get hands-on with implementing design patterns. Implement best practices for improving efficiency and security Book Description A well designed cloud infrastructure covers factors such as consistency, maintenance, simplified administration and development, and reusability. Hence it is important to choose the right architectural pattern as it has a huge impact on the quality of cloud-hosted services. This book covers all Azure design patterns and functionalities to help you build your cloud infrastructure so it fits your system requirements. This book initially covers design patterns that are focused on factors such as availability and data management/monitoring. Then the focus shifts to complex design patterns such as multitasking, improving scalability, valet keys, and so on, with practical use cases. The book also supplies best practices to improve the security and performance of your cloud. By the end of this book, you will thoroughly be familiar with the different design and architectural patterns available with Windows Azure and capable of choosing the best pattern for your system. What you will learn Learn to organize Azure access Design the core areas of the Azure Execution Model Work with storage and data management Create a health endpoint monitoring pattern Automate early detection of anomalies Identify and secure Azure features Who this book is for This book is targeted at cloud architects and cloud solution providers who are looking for an extensive guide to implementing different patterns for the deployment and maintenance of services in Microsoft Azure. Prior experience with Azure is required as the book is completely focused on design patterns. Web Services, Service-Oriented Architectures, and Cloud Computing Elsevier Web services are leading to the use of more packaged software either as an internal service or an external service available over the Internet. These services, which will be connected together to create the information technology systems of the future, will require less custom software in our organizations and more creativity in the connections between the services. This book begins with a high-level example of how an average person in an organization might interact with a service-oriented architecture. As the book progresses, more technical detail is added in a "peeling of the onion" approach. The leadership opportunities within these developing service-oriented architectures are also explained. At the end of the book there is a compendium or "pocket library" for software technology related to service-oriented architectures. · Only web services book to cover both data management and software engineering perspectives, excellent resource for ALL members of IT teams · Jargon free, highly illustrated, with introduction that anyone can read that then leads into increasing technical detail · Provides a set of leadership principles and suggested application for using this technology. AWS Certified Developer - Associate Guide Your one-stop solution to pass the AWS developer's certification Packt Publishing Ltd An effective guide to becoming an AWS Certified Developer About This Book This fast-paced guide will help you clear the exam with confidence Learn to design, develop, and deploy cloud-based solutions using AWS Enhance your AWS skills with practice questions and mock tests Who This Book Is For This book is for IT professionals and developers looking to clear the AWS Certified Developer – Associate 2017 exam. Developers looking to develop and manage their applications on the AWS platform will also find this book useful. No prior AWS experience is needed. What You Will Learn Create and manage users, groups, and permissions using AWS Identity and Access Management services Create a secured Virtual Private Cloud (VPC) with Public and Private Subnets, Network Access Control, and Security groups Get started with Elastic Compute Cloud (EC2), launching your first EC2 instance, and working with it Handle application traffic with Elastic Load Balancing (ELB) and monitor AWS resources with CloudWatch Work with AWS storage services such as Simple Storage Service (S3), Glacier, and

CloudFront Get acquainted with AWS DynamoDB – a NoSQL database service Coordinate work across distributed application components using Simple Workflow Service (SWF) In Detail AWS Certified Developer - Associate Guide starts with a quick introduction to AWS and the prerequisites to get you started. Then, this book gives you a fair understanding of core AWS services and basic architecture. Next, this book will describe about getting familiar with Identity and Access Management (IAM) along with Virtual private cloud (VPC). Moving ahead you will learn about Elastic Compute cloud (EC2) and handling application traffic with Elastic Load Balancing (ELB). Going ahead you we will talk about Monitoring with CloudWatch, Simple storage service (S3) and Glacier and CloudFront along with other AWS storage options. Next we will take you through AWS DynamoDB – A NoSQL Database Service, Amazon Simple Queue Service (SQS) and CloudFormation Overview. Finally, this book covers understanding Elastic Beanstalk and overview of AWS lambda. At the end of this book, we will cover enough topics, tips and tricks along with mock tests for you to be able to pass the AWS Certified Developer - Associate exam and develop as well as manage your applications on the AWS platform. Style and approach This step-by-step guide includes exercises and mock tests to clear the AWS certification exam and become a successful AWS developer. Cloud Computing Business in Saudi Arabia An Examination of the Feasibility of Public Cloud Computing by Enterprise Businesses GRIN Verlag Doctoral Thesis / Dissertation from the year 2014 in the subject Computer Science - Commercial Information Technology, grade: 4.5, Egerton University, language: English, abstract: Cloud computing has 3 primary service models including SaaS, IaaS and PaaS, which are classified depending on the level for which a service user interacts with the service provider's systems in accessing memory, processing power and storage. Deployment models of cloud computing include hybrid, community, public and private clouds depending on the approach to hosting and the number of clients sharing a resource. Due to the prohibitive nature of private cloud computing and requirement for specialized systems in community clouds, the most suitable approach to cloud computing for small and medium enterprises is public cloud computing. In this regard, this study was aimed at determining the extent to which implementation of public cloud computing by enterprise companies is feasible. Due to the cultural and the absence of law in Saudi Arabia ensuring the protection of data in the cloud, challenges in implementing cloud computing in the country are related to adherence to the data governance structure. For instance, privacy and security are important for enterprise companies since the local culture values the safeguarding of family and individual information. In addition, information transferred through the cloud system must adhere to the conservative philosophy and data privacy, which limits the level of compatibility in cloud computing between Saudi Arabia and the western world. Since most service providers are based in the west, companies have to identify a service provider that tailors its products to suit the market in Saudi Arabia. Therefore, implementation of public cloud computing in Saudi Arabia is feasible as long as companies select a service provider with a positive reputation, limit posting of sensitive information to the cloud server, and implement cloud computing gradually to avert the possibility of complete failure. This study determined that SaaS cloud computing is feasible for enterprise companies in Saudi Arabia, but further study is required to examine the feasibility of IaaS and PaaS. In addition, a larger study should be done to collect quantitative data to determine the implications of cloud computing in a representative sample. Metasynthetic Computing and Engineering of Complex Systems Springer Provides a comprehensive overview and introduction to the concepts, methodologies, analysis, design and applications of metasynthetic computing and engineering. The author: • Presents an overview of complex systems, especially open complex giant systems such as the Internet, complex behavioural and social problems, and actionable knowledge discovery and delivery in the big data era. • Discusses ubiquitous intelligence in complex systems, including human intelligence, domain intelligence, social intelligence, network intelligence, data intelligence and machine intelligence, and their synergy through metasynthetic engineering. • Explains the concept and methodology of human-centred, human-machine-cooperated qualitative-to-quantitative metasynthesis for understanding and managing open complex giant systems, and its computing approach: metasynthetic computing. • Introduces techniques and tools for analysing and designing problem-solving systems for open complex problems and systems. Metasynthetic Computing and Engineering uses the systematology methodology in addressing system complexities in open complex giant systems, for which it may not only be effective to apply reductionism or holism. The book aims to encourage and inspire discussions, design, implementation and reflection of effective methodologies and tools for computing and engineering open complex systems and problems. Researchers, research students and practitioners in complex systems, artificial intelligence, data science, computer science, and even system science, cognitive science, behaviour science, and social science, will find this book invaluable. Computer and Information Security Handbook Newnes The second edition of this comprehensive handbook of computer and information security provides the most complete view of computer security and privacy available. It offers in-depth coverage of security theory, technology, and practice as they relate to established technologies as well as recent advances. It explores practical solutions to many security issues. Individual chapters are authored by leading experts in the field and address the immediate and long-term challenges in the authors' respective areas of expertise. The book is organized into 10 parts comprised of 70 contributed chapters by leading experts in the areas of networking and systems security, information management, cyber warfare and security, encryption technology, privacy, data storage, physical security, and a host of advanced security topics. New to this edition are chapters on intrusion detection, securing the cloud, securing web apps, ethical hacking, cyber forensics, physical security, disaster recovery, cyber attack deterrence, and more. Chapters by leaders in the field on theory and practice of computer and information security technology, allowing the reader to develop a new level of technical expertise Comprehensive and up-to-date coverage of security issues allows the reader to remain current and fully informed from multiple viewpoints Presents methods of analysis and problem-solving techniques, enhancing the reader's grasp of the material and ability to implement practical solutions Computational Science and Its

Applications -- ICCSA 2015 15th International Conference, Banff, AB, Canada, June 22-25, 2015, Proceedings, Part IV Springer The five-volume set LNCS 9155-9159 constitutes the refereed proceedings of the 15th International Conference on Computational Science and Its Applications, ICCSA 2015, held in Banff, AB, Canada, in June 2015. The 232 revised full papers presented in 22 workshops and a general track were carefully reviewed and selected from 780 initial submissions for inclusion in this volume. They cover various areas in computational science ranging from computational science technologies to specific areas of computational science such as computational geometry and security. Web Services: Concepts, Methodologies, Tools, and Applications Concepts, Methodologies, Tools, and Applications IGI Global Web service technologies are redefining the way that large and small companies are doing business and exchanging information. Due to the critical need for furthering automation, engagement, and efficiency, systems and workflows are becoming increasingly more web-based. Web Services: Concepts, Methodologies, Tools, and Applications is an innovative reference source that examines relevant theoretical frameworks, current practice guidelines, industry standards and standardization, and the latest empirical research findings in web services. Highlighting a range of topics such as cloud computing, quality of service, and semantic web, this multi-volume book is designed for computer engineers, IT specialists, software designers, professionals, researchers, and upper-level students interested in web services architecture, frameworks, and security. CISSP (ISC)2 Certified Information Systems Security Professional Official Study Guide John Wiley & Sons This comprehensive book will guide readers through CISSP exam topics, including: Access Control Application Development Security Business Continuity and Disaster Recovery Planning Cryptography Information Security Governance and Risk Management Legal, Regulations, Investigations and Compliance Operations Security Physical (Environmental) Security Security Architecture and Design Telecommunications and Network Security This study guide will be complete with 100% coverage of the exam objectives, real world scenarios, hands-on exercises, and challenging review questions, both in the book as well via the exclusive Sybex Test Engine. On the Portability of Applications in Platform as a Service University of Bamberg Press Communication and Computing Systems Proceedings of the 2nd International Conference on Communication and Computing Systems (ICCCS 2018), December 1-2, 2018, Gurgaon, India CRC Press The International Conference on Communication and Computing Systems (ICCCS 2018) provides a high-level international forum for researchers and recent advances in the field of electronic devices, computing, big data analytics, cyber security, quantum computing, biocomputing, telecommunication, etc. The aim of the conference was to bridge the gap between the technological advancements in the industry and the academic research. Enterprise Security Second International Workshop, ES 2015, Vancouver, BC, Canada, November 30 – December 3, 2015, Revised Selected Papers Springer Enterprise security is an important area since all types of organizations require secure and robust environments, platforms and services to work with people, data and computing applications. The book provides selected papers of the Second International Workshop on Enterprise Security held in Vancouver, Canada, November 30-December 3, 2016 in conjunction with CloudCom 2015. The 11 papers were selected from 24 submissions and provide a comprehensive research into various areas of enterprise security such as protection of data, privacy and rights, data ownership, trust, unauthorized access and big data ownership, studies and analysis to reduce risks imposed by data leakage, hacking and challenges of Cloud forensics. Modernizing Your IT Infrastructure with IBM b-type Gen 6 Storage Networking and IBM Spectrum Storage Products IBM Redbooks This IBM® Redbooks® publication describes the challenge that most data centers face when updating and modernizing their IT infrastructure. New business demands are driving new applications, joining, and creating in the digital world. A rich, meaningful digital experience is the key to effective engagement in today's integrated digital world. Companies are able to customize digital experiences for their employees with personalized, targeted content for fully connecting with customers, co-workers, and business partners in the most powerful and productive ways. To achieve this, a robust infrastructure is required. Speed of access to data is one of the most important factors. The development of the flash storage devices helped with the insatiable desire for data access speed, but even that is not enough for the most demanding uses. The needs of SAN switches, servers, and software defined infrastructure (SDI) technologies are all requiring more; therefore, the bigger picture needs to be wholly analyzed to build a balanced ecosystem. This publication can help you with planning for growth in your IT infrastructure. This publication explores the concept of modernization and considers important aspects of IT, such as SAN switches, storage systems, and software defined storage. Open and Distance Learning Initiatives for Sustainable Development IGI Global Education plays a vital role in the positive development of communities at both a local and global level. By becoming more informed, citizens can make better contributions to society. Open and Distance Learning Initiatives for Sustainable Development is a critical reference source for emerging academic perspectives on the role of higher education programs in contemporary society. Including a range of pertinent topics such as mobile learning, environmental education, and community building, this book is ideally designed for educators, researchers, students, and professionals interested in the intersection between sustainable development and education. Architecting Cloud Computing Solutions Build cloud strategies that align technology and economics while effectively managing risk Packt Publishing Ltd Accelerating Business and Mission Success with Cloud Computing. Key Features A step-by-step guide that will practically guide you through implementing Cloud computing services effectively and efficiently. Learn to choose the most ideal Cloud service model, and adopt appropriate Cloud design considerations for your organization. Leverage Cloud computing methodologies to successfully develop a cost-effective Cloud environment successfully. Book Description Cloud adoption is a core component of digital transformation. Scaling the IT environment, making it resilient, and reducing costs are what organizations want. Architecting Cloud Computing Solutions presents and explains critical Cloud solution design considerations and technology decisions required to choose and deploy the right Cloud service and deployment models, based on your business and technology service

requirements. This book starts with the fundamentals of cloud computing and its architectural concepts. It then walks you through Cloud service models (IaaS, PaaS, and SaaS), deployment models (public, private, community, and hybrid) and implementation options (Enterprise, MSP, and CSP) to explain and describe the key considerations and challenges organizations face during cloud migration. Later, this book delves into how to leverage DevOps, Cloud-Native, and Serverless architectures in your Cloud environment and presents industry best practices for scaling your Cloud environment. Finally, this book addresses (in depth) managing essential cloud technology service components such as data storage, security controls, and disaster recovery. By the end of this book, you will have mastered all the design considerations and operational trades required to adopt Cloud services, no matter which cloud service provider you choose. What you will learn Manage changes in the digital transformation and cloud transition process Design and build architectures that support specific business cases Design, modify, and aggregate baseline cloud architectures Familiarize yourself with cloud application security and cloud computing security threats Design and architect small, medium, and large cloud computing solutions Who this book is for If you are an IT Administrator, Cloud Architect, or a Solution Architect keen to benefit from cloud adoption for your organization, then this book is for you. Small business owners, managers, or consultants will also find this book useful. No prior knowledge of Cloud computing is needed. Web-Based Services: Concepts, Methodologies, Tools, and Applications Concepts, Methodologies, Tools, and Applications IGI Global The recent explosion of digital media, online networking, and e-commerce has generated great new opportunities for those Internet-savvy individuals who see potential in new technologies and can turn those possibilities into reality. It is vital for such forward-thinking innovators to stay abreast of all the latest technologies. Web-Based Services: Concepts, Methodologies, Tools, and Applications provides readers with comprehensive coverage of some of the latest tools and technologies in the digital industry. The chapters in this multi-volume book describe a diverse range of applications and methodologies made possible in a world connected by the global network, providing researchers, computer scientists, web developers, and digital experts with the latest knowledge and developments in Internet technologies. Cloud Mobile Networks From RAN to EPC Springer This book explores the challenges and opportunities in exploiting cloud technologies for 5G, ranging from radio access network (RAN) to the evolved packet core (EPC). With a specific focus on cloud RAN and EPC, the text carefully explains the influence of recent network technologies such as software defined networking (SDN), visualization, and cloud technologies in the evolution of architecture for future mobile networks. The book discusses the causes, benefits and challenges of cloud RAN and its interplay with other evolving technologies for future mobile networks. Researchers and professionals involved in mobile technology or cloud computing will find this book a valuable resource. The text is also suitable for advanced-level students studying all types of networking.