Dr Kumar Saurabh Cloud Computing Wiley Publication

Dr Kumar Saurabh Cloud Computing Wiley Publication Demystifying Cloud Computing with Dr Kumar Saurabhs Wiley Publication So youre interested in learning more about cloud computing but the sheer volume of information out there feels overwhelming Youre not alone Many people find the world of cloud services complex and daunting Thats where Dr Kumar Saurabhs insightful Wiley publication comes in This comprehensive guide cuts through the jargon and provides a practical accessible understanding of this transformative technology Lets dive in What Makes Dr Saurabhs Book Stand Out Dr Saurabhs book isnt just another theoretical textbook Its designed to bridge the gap between academic concepts and realworld applications He masterfully explains complex topics using clear language relatable examples and practical case studies This makes it ideal for both beginners and those with some prior knowledge looking to solidify their understanding The book covers a broad spectrum of cloud computing aspects from fundamental concepts to advanced techniques Imagine an image here A book cover mockup of Cloud Computing by Dr Kumar Saurabh Wiley Publication The cover could feature a stylized cloud graphic Key Areas Covered in the Book Dr Saurabhs book thoroughly explores various crucial aspects of cloud computing including Cloud Computing Fundamentals This section lays the groundwork explaining core concepts like Iaas PaaS and SaaS differentiating between public private and hybrid cloud models and discussing the benefits and challenges of cloud adoption Cloud Service Providers The book provides a detailed overview of major players like AWS Amazon Web Services Microsoft Azure and Google Cloud Platform GCP highlighting their strengths and weaknesses to help you choose the best provider for your needs Imagine an image here A comparison table of AWS Azure and GCP highlighting key features like pricing services offered and ease of use 2 Security in the Cloud This is a critical aspect often overlooked Dr Saurabhs book emphasizes security best practices covering topics like data encryption access control and disaster recovery strategies It stresses the shared responsibility model and guides you through securing your cloud infrastructure effectively Practical Implementations The book doesnt shy away from practical examples It walks you through setting up virtual machines deploying applications and managing

databases on popular cloud platforms This handson approach is what differentiates it from many theoretical texts Cloud Migration Strategies Moving your existing systems to the cloud can be tricky The book offers valuable insights and strategies for a smooth and successful cloud migration minimizing disruptions and optimizing costs HowTo Section Setting up a Virtual Machine on AWS A Simplified Example Lets illustrate the books practical approach with a simplified example setting up a virtual machine VM on Amazon Web Services AWS While the book provides much more detail this gives you a flavor 1 Sign up for an AWS account This is usually free for a trial period 2 Navigate to the EC2 Elastic Compute Cloud service This is where you create and manage your VMs 3 Choose an AMI Amazon Machine Image This is the template for your VM eg an Amazon Linux AMI 4 Select instance type This defines the VMs resources CPU memory storage 5 Configure security group This controls network access to your VM 6 Launch the instance AWS will then provision your VM 7 Connect to the instance Use SSH or other tools to access your VM This is a simplified version but it shows how the book empowers you with practical steps The book provides detailed screenshots and stepbystep instructions for various cloud platforms and tasks Visualizing Cloud Concepts Imagine an image here A diagram illustrating the different layers of cloud computing IaaS PaaS SaaS and their relationships Use clear concise labels Visual aids like this are frequently used throughout the book making complex concepts easier to grasp The book effectively uses diagrams charts and tables to illustrate key ideas 3 and relationships between different components of cloud computing Summary of Key Points Dr Kumar Saurabhs Wiley publication offers a comprehensive and practical guide to cloud computing It excels by Clear and Concise Explanations Complex concepts are simplified for easy understanding Practical Handson Approach The book emphasizes realworld application with numerous examples Comprehensive Coverage It explores a wide range of topics from fundamentals to advanced techniques Focus on RealWorld Case Studies Illustrative examples demonstrate cloud solutions in different scenarios UptoDate Information The book incorporates the latest advancements in cloud technology 5 FAQs to Address Reader Pain Points 1 Q Is this book suitable for beginners A Absolutely The book starts with the fundamentals and gradually progresses to more advanced concepts making it accessible to individuals with little or no prior knowledge 2 Q Which cloud platforms does the book cover A The book primarily focuses on AWS Azure and GCP providing comparative analyses and practical examples for each 3 Q Does the book cover security aspects of cloud computing A Yes a significant portion of the book is dedicated to security best practices and strategies for securing your cloud infrastructure 4 Q How much coding experience is required A While some basic commandline knowledge can be

helpful the book doesnt require extensive coding skills The focus is on understanding the concepts and applying them practically 5 Q Is this book worth the investment A Considering the depth of coverage practical examples and clarity of explanation the book provides exceptional value for anyone looking to learn or enhance their understanding of cloud computing In conclusion Dr Kumar Saurabhs Wiley publication on cloud computing is a valuable resource for anyone looking to understand and utilize this transformative technology Its blend of theoretical knowledge and practical application makes it a mustread for both beginners and experienced professionals alike So grab your copy and start your cloud journey today 4

Information Systems, Technology and ManagementSmart Infrastructure and ApplicationsProgress in Computing, Analytics and NetworkingData Science and Big Data AnalyticsMachine Learning and Optimization Models for Optimization in CloudHarnessing Green ITSolutions Architect's HandbookHybrid Intelligent SystemsCloud ComputingCLOUD COMPUTING: INSIGHTS INTO NEW-ERA INFRASTRUCTUREAWS for Solutions ArchitectsAWS for Solutions ArchitectsDesigning Hyper-V SolutionsSolutions Architect's HandbookSolutions Architect's InterviewAWS for Solutions Architects - Second EditionBusiness WorldFundamentals Of Cloud ComputingSolutions Architect's HandbookCloud Computing for Everyone Sushil K. Prasad Rashid Mehmood Prasant Kumar Pattnaik Durgesh Kumar Mishra Punit Gupta San Murugesan Saurabh Shrivastava Ajith Abraham Dinesh G. Harkut Dr. Kumar Saurabh Saurabh Shrivastava Saurabh Shrivastava Saurabh Grover Saurabh Shrivastava Saurabh Shrivastava Saurabh Shrivastava Prasant Kumar Pattnaik Saurabh Shrivastava Rohit Agarwal

Information Systems, Technology and Management Smart Infrastructure and Applications Progress in Computing, Analytics and Networking Data Science and Big Data Analytics Machine Learning and Optimization Models for Optimization in Cloud Harnessing Green IT Solutions Architect's Handbook Hybrid Intelligent Systems Cloud Computing CLOUD COMPUTING: INSIGHTS INTO NEW-ERA INFRASTRUCTURE AWS for Solutions Architects AWS for Solutions Architects Designing Hyper-V Solutions Solutions Architect's Handbook Solutions Architect's Interview AWS for Solutions Architects - Second Edition Business World Fundamentals Of Cloud Computing Solutions Architect's Handbook Cloud Computing for Everyone *Sushil K. Prasad Rashid Mehmood Prasant Kumar Pattnaik Durgesh Kumar Mishra Punit Gupta San Murugesan Saurabh Shrivastava Ajith Abraham Dinesh G. Harkut Dr. Kumar Saurabh Saurabh Shrivastava Saurabh Shrivastava Saurabh Grover Saurabh Shrivastava Saurabh Shrivastava Saurabh Shrivastava Prasant Kumar Pattnaik Saurabh Shrivastava Rohit Agarwal*

this volume constitutes the refereed proceedings of the 4th international conference on information systems technology and management icistm 2010 held in bangkok thailand in march 2010 the 28 revised full papers presented together with 3 keynote lectures 9 short papers and 2 tutorial papers were carefully reviewed and selected from 86 submissions the papers are organized in topical sections on information systems information technology information management and applications

this book provides a multidisciplinary view of smart infrastructure through a range of diverse introductory and advanced topics the book features an array of subjects that include smart cities and infrastructure e healthcare emergency and disaster management internet of vehicles supply chain management egovernance and high performance computing the book is divided into five parts smart transportation smart healthcare miscellaneous applications big data and high performance computing and internet of things iot contributions are from academics researchers and industry professionals around the world features a broad mix of topics related to smart infrastructure and smart applications particularly high performance computing big data and artificial intelligence includes a strong emphasis on methodological aspects of infrastructure technology and application development presents a substantial overview of research and development on key economic sectors including healthcare and transportation

the book focuses to foster new and original research ideas and results in three broad areas computing analytics and networking with its prospective applications in the various interdisciplinary domains of engineering this is an exciting and emerging interdisciplinary area in which a wide range of theory and methodologies are being investigated and developed to tackle complex and challenging real world problems it also provides insights into the international conference on computing analytics and networking iccan 2017 which is a premier international open forum for scientists researchers and technocrats in academia as well as in industries from different parts of the world to present interact and exchange the state of art of concepts prototypes innovative research ideas in several diversified fields the book includes invited keynote papers and paper presentations from both academia and industry to initiate and ignite our young minds in the meadow of momentous research and thereby enrich their existing knowledge the book aims at postgraduate students and researchers working in the discipline of computer science engineering it will be also useful for the researchers working in the domain of electronics as it contains some hardware technologies and

forthcoming communication technologies

this book presents conjectural advances in big data analysis machine learning and computational intelligence as well as their potential applications in scientific computing it discusses major issues pertaining to big data analysis using computational intelligence techniques and the conjectural elements are supported by simulation and modelling applications to help address real world problems an extensive bibliography is provided at the end of each chapter further the main content is supplemented by a wealth of figures graphs and tables offering a valuable guide for researchers in the field of big data analytics and computational intelligence

machine learning and models for optimization in cloud s main aim is to meet the user requirement with high quality of service least time for computation and high reliability with increase in services migrating over cloud providers the load over the cloud increases resulting in fault and various security failure in the system results in decreasing reliability to fulfill this requirement cloud system uses intelligent metaheuristic and prediction algorithm to provide resources to the user in an efficient manner to manage the performance of the system and plan for upcoming requests intelligent algorithm helps the system to predict and find a suitable resource for a cloud environment in real time with least computational complexity taking into mind the system performance in under loaded and over loaded condition this book discusses the future improvements and possible intelligent optimization models using artificial intelligence deep learning techniques and other hybrid models to improve the performance of cloud various methods to enhance the directivity of cloud services have been presented which would enable cloud to provide better services performance and quality of service to user it talks about the next generation intelligent optimization and fault model to improve security and reliability of cloud key features comprehensive introduction to cloud architecture and its service models vulnerability and issues in cloud saas paas and iaas fundamental issues related to optimizing the performance in cloud computing using meta heuristic ai and ml models detailed study of optimization techniques and fault management techniques in multi layered cloud methods to improve reliability and fault in cloud using nature inspired algorithms and artificial neural network advanced study of algorithms using artificial intelligence for optimization in cloud method for power efficient virtual machine placement using neural network in cloud method for task scheduling using metaheuristic algorithms a study of machine learning and deep learning inspired resource allocation algorithm for cloud in fault aware

environment this book aims to create a research interest motivation for graduates degree or post graduates it aims to present a study on optimization algorithms in cloud for researchers to provide them with a glimpse of future of cloud computing in the era of artificial intelligence

ultimately this is a remarkable book a practical testimonial and a comprehensive bibliography rolled into one it is a single bright sword cut across the various murky green it topics and if my mistakes and lessons learned through the green it journey are any indication this book will be used every day by folks interested in greening it simon y liu ph d ed d editor in chief it professional magazine ieee computer society director u s national agricultural library this book presents a holistic perspective on green it by discussing its various facets and showing how to strategically embrace it harnessing green it principles and practices examines various ways of making computing and information systems greener environmentally sustainable as well as several means of using information technology it as a tool and an enabler to improve the environmental sustainability the book focuses on both greening of it and greening by it complimentary approaches to attaining environmental sustainability in a single volume it comprehensively covers several key aspects of green it green technologies design standards maturity models strategies and adoption and presents a clear approach to greening it encompassing green use green disposal green design and green manufacturing it also illustrates how to strategically apply green it in practice in several areas key features presents a comprehensive coverage of key topics of importance and practical relevance green technologies design standards maturity models strategies and adoption highlights several useful approaches to embracing green it in several areas features chapters written by accomplished experts from industry and academia who have first hand knowledge and expertise in specific areas of green it presents a set of review and discussion questions for each chapter that will help the readers to examine and explore the green it domain further includes a companion website providing resources for further information and presentation slides this book will be an invaluable resource for it professionals academics students researchers project leaders managers it business executives cios ctos and anyone interested in green it and harnessing it to enhance our environment

third edition out now with coverage on generative ai clean architecture edge computing and more key features turn business needs into end to end technical architectures with this practical guide assess and overcome various challenges while updating or

modernizing legacy applications future proof your architecture with iot machine learning and quantum computing book descriptionbecoming a solutions architect requires a hands on approach and this edition of the solutions architect s handbook brings exactly that this handbook will teach you how to create robust scalable and fault tolerant solutions and next generation architecture designs in a cloud environment it will also help you build effective product strategies for your business and implement them from start to finish this new edition features additional chapters on disruptive technologies such as internet of things iot quantum computing data engineering and machine learning it also includes updated discussions on cloud native architecture blockchain data storage and mainframe modernization with public cloud the solutions architect s handbook provides an understanding of solution architecture and how it fits into an agile enterprise environment it will take you through the journey of solution architecture design by providing detailed knowledge of design pillars advanced design patterns anti patterns and the cloud native aspects of modern software design by the end of this handbook you ll have learned the techniques needed to create efficient architecture designs that meet your business requirements what you will learn explore the various roles of a solutions architect in the enterprise landscape implement key design principles and patterns to build high performance cost effective solutions choose the best strategies to secure your architectures and increase their availability modernize legacy applications with the help of cloud integration understand how big data processing machine learning and iot fit into modern architecture integrate a devops mindset to promote collaboration increase operational efficiency and streamline production who this book is for this book is for software developers system engineers devops engineers architects and team leaders who already work in the it industry and aspire to become solutions architect professionals existing solutions architects who want to expand their skillset or get a better understanding of new technologies will also learn valuable new skills to get started you ll need a good understanding of the real world software development process and general programming experience in any language

this book highlights the recent research on hybrid intelligent systems and their various practical applications it presents 34 selected papers from the 18th international conference on hybrid intelligent systems his 2019 and 9 papers from the 15th international conference on information assurance and security ias 2019 which was held at vit bhopal university india from december 10 to 12 2019 a premier conference in the field of artificial intelligence his ias 2019 brought together researchers engineers and practitioners whose work involves intelligent systems network security and their

applications in industry including contributions by authors from 20 countries the book offers a valuable reference guide for all researchers students and practitioners in the fields of computer science and engineering

in the era of the internet of things and big data cloud computing has recently emerged as one of the latest buzzwords in the computing industry it is the latest evolution of computing where it recourses are offered as services cloud computing provides on demand scalable device independent and reliable services to its users the exponential growth of digital data bundled with the needs of analysis processing and storage and cloud computing has paved the way for a cheap secure and omnipresent computing framework allowing for the delivery of enormous computing and storage capacity to a diverse community of end recipients 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 the term cloud is often used as a metaphor for the internet and can be defined as a new type of utility computing that basically uses servers that have been made available to third parties via the internet

special features details the core concepts of cloud computing infrastructure and virtualization showcases the facets of cloud computing in an easy to understand manner provides a comprehensive overview of cloud computing from the business and technical perspective uses concepts learnt in the classroom and elaborates how they are applied in an industry setting elucidates specific solutions to the real world challenges contains detailed examples of many aspects of cloud computing useful for both students and professionals who wish to understand and experiment with cloud computing three very useful appendices cloud performance monitoring commands understanding sizing lifecycle and desktop service a vdi perspective about the book this book fulfils an important and growing need to understand cloud computing dynamic infrastructure and virtualization which have been deployed within every function in a broad range of business and markets nowadays cloud computing has brought about phenomenal changes in the way the world works the way corporations function and the way human role in each has developed the book reflects the core insights of cloud models service offerings and other benefits the book in a very simple and lucid manner tells us what we need to know to be a successful cloud computing architect technical manger and infrastructure specialist the book focuses on real world goals for organizations the cloud services provided to help realize these goals and the constraints on cloud computing

infrastructure that we may need to work around to meet our goals it discusses the evolution of cloud computing over time and across computing arena the specifications of cloud systems the implementation of specifications the processes and best practices required to be put in place to make sure that the specifications and real world goals have been met

this is an outdated edition and we have a new third edition live covering real world patterns genai strategies cost optimization techniques and certification aligned best practices key features comprehensive guide to automating networking migrating and adopting cloud technologies using aws extensive insights into aws technologies including ai ml iot big data blockchain and quantum computing to transform your business detailed coverage of aws solutions architecture and the latest aws certification requirements book descriptionthe second edition of aws for solutions architects provides a practical guide to designing cloud solutions that align with industry best practices this updated edition covers the aws well architected framework core design principles and cloud native patterns to help you build secure high performance and cost effective architectures gain a deep understanding of aws networking hybrid cloud connectivity and edge deployments explore big data processing with emr glue kinesis and msk enabling you to extract valuable insights from data efficiently new chapters introduce cloudops machine learning iot and blockchain equipping you with the knowledge to develop modern cloud solutions learn how to optimize aws storage implement containerization strategies and design scalable data lakes whether working on simple configurations or complex enterprise architectures this guide provides the expertise needed to solve real world cloud challenges and build reliable high performing aws solutions what you will learn optimize your cloud workload using the aws well architected framework learn methods to migrate your workload using the aws cloud adoption framework apply cloud automation at various layers of application workload to increase efficiency build a landing zone in aws and hybrid cloud setups with deep networking techniques select reference architectures for business scenarios like data lakes containers and serverless apps apply emerging technologies in your architecture including ai ml iot and blockchain who this book is for this book is for application and enterprise architects developers and operations engineers who want to become well versed with aws architectural patterns best practices and advanced techniques to build scalable secure highly available highly tolerant and cost effective solutions in the cloud existing aws users are bound to learn the most but it will also help those curious about how leveraging aws can benefit their organization prior knowledge of any computing

language is not needed and there s little to no code prior experience in software architecture design will prove helpful

master aws architecture and design secure scalable production ready cloud systems this practical guide features real world patterns genai strategies cost optimization techniques and certification aligned best practices key features stay current with hands on coverage of mlops aiops and the latest aws service updates implement migration strategies with real world examples and enterprise case studies advance your aws career with certification aligned insights and exam ready strategies book descriptionaws for solutions architects third edition is your essential guide to thriving in the fast evolving aws ecosystem as a solutions architect staying on top of the latest technologies and managing complex cloud migrations can be challenging and this book addresses those pain points head on seasoned aws experts saurabh shrivastava neelanjali srivastav and dhiraj thakur bring deep industry insight and hands on experience to every chapter this third edition introduces cutting edge topics including generative ai and mlops to keep pace with the evolving cloud landscape and guide you in building ai driven applications the book also reflects updates from the aws well architected framework and aligns with the latest aws certifications making it a future ready guide for cloud professionals the chapters help you stay ahead of the competition with in depth coverage of the latest aws certifications including ai practitioner foundation and data engineer associate helping you position yourself as a leader in cloud innovation by the end of this book you ll transform into a solutions architecture expert equipped with the strategies tools and certifications needed to handle any cloud challenge what you will learn gain expertise in genai mlops aiops and mobile edge computing optimize performance and handle errors in cloud native applications prepare for new aws certifications including those focused on ai and data engineering apply best practices for security compliance and aws learning badges explore the updated well architected framework with six pillars get in depth knowledge of new storage options and security group configurations who this book is for this book is for application and enterprise architects developers operations engineers and certification aspirants looking to master aws architectural patterns best practices and advanced techniques for building scalable secure highly available fault tolerant and cost effective cloud solutions prior coding knowledge isn t required but experience in software architecture design will be helpful

deploy microsoft virtualization and vdi solutions using real world hyper v configurations about this book get acquainted with the basics of windows server hyper v 2012 r2 and

understand how to efficiently design a highly available virtualization solution assess your physical server environment and understand the fundamentals of server consolidation and sizing of hyper v hosts design practical solutions for common design patterns with explanations of these design decisions who this book is for this book is aimed at it admins consultants and architects alike who wish to deploy manage and maintain hyper v solutions in organizations of various sizes readers are expected to have a working knowledge of managing windows servers and a fair understanding of networking and storage concepts what you will learn set up independent and highly available clustered hyper v hosts via gui and powershell acquire knowledge about generation 1 and 2 virtual machines their creation and management and also look at the vm conversion process understand nic teaming extensible virtual switch and other networking advancements gain insight into virtual machine storage changes and its follow up benefits discover backup and recovery patterns for hyper v familiarize yourself with the essentials of hyper v replica leverage the benefits of microsoft vdi in detail the it community has already experienced the benefits of server virtualization however they were limited to one option primarily until microsoft released its flagship hypervisor platform windows server hyper v 2012 and r2 along with hyper v server 2012 and r2 present a cost effective yet robust virtualization solution to enterprises who wish to consolidate their physical server workloads or migrate their pre existing vmware workloads to hyper v hyper v has proven to be a stable and an economical virtualization solution and with its high availability live migration and new network virtualization and storage enhancement features enterprises will never feel the need to consider another alternative this book is a practical example oriented tutorial that will guide you through the basics and architecture of the hyper v platform and thereafter help you understand how to build your virtualization infrastructure from the ground up the book then goes on to focus on scalability and high availability aspects and trains you in setting up highly available hyper v clusters and the live migration of virtual machines you will also learn about the advancements in virtual networking and storage in windows server 2012 after the implementation guidance the book then advises you on how to set up backup and recovery and how to prepare a disaster recovery plan via hyper v replica the book concludes with a good insight into microsoft vdi implementation guidance style and approach this is a handy and easy to follow guide that describes virtualization concepts and the hyper v design approach each topic is explained sequentially and is enhanced with real world scenarios practical examples screenshots and step by step explanations to help readers understand clearly

from fundamentals and design patterns to the different strategies for creating secure and reliable architectures in aws cloud learn everything you need to become a successful solutions architect key features create solutions and transform business requirements into technical architecture with this practical guide understand various challenges that you might come across while refactoring or modernizing legacy applications delve into security automation devops and validation of solution architecture book descriptionbecoming a solutions architect gives you the flexibility to work with cutting edge technologies and define product strategies this handbook takes you through the essential concepts design principles and patterns architectural considerations and all the latest technology that you need to know to become a successful solutions architect this book starts with a quick introduction to the fundamentals of solution architecture design principles and attributes that will assist you in understanding how solution architecture benefits software projects across enterprises you ll learn what a cloud migration and application modernization framework looks like and will use microservices event driven cache based and serverless patterns to design robust architectures you ll then explore the main pillars of architecture design including performance scalability cost optimization security operational excellence and devops additionally you ll also learn advanced concepts relating to big data machine learning and the internet of things iot finally you ll get to grips with the documentation of architecture design and the soft skills that are necessary to become a better solutions architect by the end of this book you ll have learned techniques to create an efficient architecture design that meets your business requirements what you will learn explore the various roles of a solutions architect and their involvement in the enterprise landscape approach big data processing machine learning and iot from an architect s perspective and understand how they fit into modern architecture discover different solution architecture patterns such as event driven and microservice patterns find ways to keep yourself updated with new technologies and enhance your skills modernize legacy applications with the help of cloud integration get to grips with choosing an appropriate strategy to reduce cost who this book is for this book is for software developers system engineers devops engineers architects and team leaders working in the information technology industry who aspire to become solutions architect professionals a good understanding of the software development process and general programming experience with any language will be useful

embark on your solutions architect career with confidence through expert guidance to ace interviews and secure your dream job key features gain a complete understanding

of the full scope of the solutions architect role across domains and industries master the interview process from technical assessments to behavioral evaluations learn proven strategies to showcase technical depth and leadership impact book descriptionthe solutions architect role sits at the intersection of technology business strategy and communication excelling in it takes more than technical expertise it demands architectural thinking leadership and problem solving skills this book guides you in achieving this balance walking you through every stage of becoming a solutions architect it begins by unpacking what the role truly involves and then progresses into the nuances of interview preparation across multiple domains you ll learn how to structure your responses to scenario based questions highlight both your technical proficiency and soft skills and position yourself as a strategic problem solver each chapter offers practical exercises frameworks and real interview examples that help you build the confidence and insight to stand out the final chapter guides you through your first 90 days as a new solutions architect aligning with business goals understanding organizational architecture and building credibility by the end of this book you ll have the technical behavioral and strategic foundation to ace your interviews and thrive in any solutions architect role what you will learn develop a structured approach to tackling technical interviews and system design scenarios master behavioral and communication techniques for leadership interviews prepare for domain specific interviews in devops cloud security ai ml and more understand industry specific architecture challenges in sectors such as healthcare and finance smoothly transition into a new sa role while aligning with business and technical objectives who this book is for this book is a concise practical guide for anyone who wants to excel in solutions architecture whether you re a recent graduate entering the field a developer or it professional transitioning from engineering or operations an on prem specialist moving to the cloud a domain expert without app development experience or a practicing architect sharpening skills across application devops security data ai ml and industry domains you should have working knowledge of system design fundamentals networking databases at least one cloud platform aws gcp or azure and a scripting language

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in recent times cloud computing has emerged as an important topic in the realm of information technology cloud computing has gained eminence due to the growing usage of the internet among people this book is especially intended for readers who have no prior knowledge of the subject some topics in this book are unique and based on published information that is current and timely and is helpful for research scholars as

well as specialists working in areas related to cloud computing this book is suitable as an introductory text for one semester course in cloud computing for undergraduate and postgraduate science courses in computer science and information technology

from fundamentals and design patterns to the latest techniques such as generative ai machine learning and cloud native architecture gain all you need to be a pro solutions architect crafting secure and reliable aws architecture get with your book pdf copy ai assistant and next gen reader free key features hits all the key areas rajesh sheth vp elastic block store aws offers the knowledge you need to succeed in the evolving landscape of tech architecture luis lopez soria senior specialist solutions architect google a valuable resource for enterprise strategists looking to build resilient applications cher simon principal solutions architect aws book descriptionbuild a strong foundation in solution architecture and excel in your career with the solutions architect s handbook authored by seasoned aws technology leaders saurabh shrivastav and neelanjali srivastav this book goes beyond traditional certification guides offering in depth insights and advanced techniques to meet the specific needs and challenges of solutions architects today this edition introduces exciting new features that keep you at the forefront of this evolving field from large language models and generative ai to deep learning innovations these cutting edge advancements are shaping the future of technology key topics such as cloud native architecture data engineering architecture cloud optimization mainframe modernization and building cost efficient secure architectures remain essential today this book covers both emerging and foundational technologies guiding you through solution architecture design with key principles and providing the knowledge you need to succeed as a solutions architect it also sharpens your soft skills providing career accelerating techniques to stay ahead by the end of this book you will be able to harness cutting edge technologies apply practical insights from real world scenarios and enhance your solution architecture skills with the solutions architect s handbook what you will learn explore various roles of a solutions architect in the enterprise apply design principles for high performance cost effective solutions choose the best strategies to secure your architectures and boost availability develop a devops and cloudops mindset for collaboration operational efficiency and streamlined production apply machine learning data engineering llms and generative ai for improved security and performance modernize legacy systems into cloud native architectures with proven real world strategies master key solutions architect soft skills who this book is for this book is for software developers system engineers devops engineers architects and team leaders who already work in the it industry and aspire to become solutions

architect professionals solutions architects who want to expand their skillset or get a better understanding of new technologies will also learn valuable new skills to get started you ll need a good understanding of the real world software development process and some awareness of cloud technology

description cloud computing is transforming the way businesses and individuals operate offering scalability flexibility and efficiency cloud computing for everyone provides a structured and practical approach to understanding cloud technology from foundational concepts to advanced applications the book also covers service models deployment strategies security and cost management this book explores cloud computing starting with fundamental concepts history characteristics service and deployment models it covers cloud security and privacy including threats mechanisms and best practices the book then examines cloud migration strategies and cost management including tco and roi it explains cloud architecture design principles application development and advanced technologies such as edge computing ai ml services and multi cloud strategies cloud based data management and analytics are addressed along with cloud storage solutions and analytics platforms sustainability in cloud computing is also covered focusing on green practices and environmental considerations the book concludes with hands on projects using azure providing practical experience in creating virtual machines networking deploying web applications and performing other cloud related tasks by the end readers will understand the core concepts be able to make informed decisions about cloud adoption and possess the practical skills to confidently navigate and implement cloud computing solutions in various domains key features a comprehensive guide covering cloud basics to advanced concepts hands on cloud projects with step by step implementation insights on cloud security cost management and sustainability what you will learn understand cloud computing concepts service models and deployment strategies implement cloud security privacy measures and compliance best practices plan and execute cloud migration with real world case studies optimize cloud costs and manage resources effectively design cloud native applications using modern architectures and frameworks who this book is for this book is for students it professionals business leaders and technology enthusiasts who want to understand and implement cloud computing effectively it serves as a comprehensive guide covering fundamental concepts advanced technologies and hands on projects making it suitable for beginners and experienced professionals looking to enhance their cloud expertise table of contents 1 introduction to cloud computing 2 cloud service models deployment strategies and providers 3 cloud security and privacy 4 cloud migration strategies 5

cloud economics and cost management 6 cloud architecture 7 advanced cloud computing technologies 8 cloud based data management and analytics 9 sustainability and green cloud computing 10 hands on with azure

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