Cloud Computing Tutorial For Beginners In Telugu

Distributed and Cloud Computing: From Parallel Processing to the Internet of Things offers complete coverage of modern distributed computing technology including clusters, the grid, service-oriented architecture, massively parallel processors, peer-to-peer networking, and cloud computing. It is the first modern, up-to-date distributed systems textbook; it explains how to create high-performance, scalable, reliable systems, exposing the design principles, architecture, and innovative applications of parallel, distributed, and cloud computing systems. Topics covered by this book include: facilitating management, debugging, migration, and disaster recovery through virtualization; clustered systems for research or ecommerce applications; designing systems as web services; and social networking systems using peer-to-peer computing. The principles of cloud computing are discussed using examples from open-source and commercial applications, along with case studies from the leading distributed computing vendors such as Amazon, Microsoft, and Google. Each chapter includes exercises and further reading, with lecture slides and more available online. This book will be ideal for students taking a distributed systems or distributed computing class, as well as for professional system designers and engineers looking for a reference to the latest distributed technologies including cloud, P2P and grid computing. Complete coverage of modern distributed computing technology including clusters, the grid, service-oriented architecture, massively parallel processors, peer-to-peer networking, and cloud computing Includes case studies from the leading distributed computing vendors: Amazon, Microsoft, Google, and more Explains how to use virtualization to facilitate management, debugging, migration, and disaster recovery Designed for undergraduate or graduate students taking a distributed systems course—each chapter includes exercises and further reading, with lecture slides and more available online

A one-semester college course in software engineering focusing on cloud computing, software as a service (SaaS), and Agile development using Extreme Programming (XP). This book is neither a step-by-step tutorial nor a reference book. Instead, our goal is to bring a diverse set of software engineering topics together into a single narrative, help readers understand the most important ideas through concrete examples and a learn-by-doing approach, and teach readers enough about each topic to get them started in the field. Courseware for doing the work in the book is available as a virtual machine image that can be downloaded or deployed in the cloud. A free MOOC (massively open online course) at saas-class.org follows the book's content and adds programming assignments and quizzes. See http: //saasbook.info for details.

This book provides insights into various aspects of Cloud Computing from the perspective of beginners, academicians and researchers who want to peruse their interest in cloud computing.

This book features a collection of high-quality research papers presented at the International Conference on Intelligent and Cloud Computing (ICICC 2019), held at Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar, India, on December 20, 2019. Including contributions on system and network design that can support existing and future applications and services, it covers topics such as cloud computing system and network design, optimization for cloud computing, networking, and applications, green cloud system design, cloud storage design and networking, storage security, cloud system models, big data storage, intra-cloud computing, mobile cloud system design, real-time resource reporting and monitoring for cloud management, machine learning, data mining for cloud computing, data-driven methodology and architecture, and networking for machine learning systems.

Technology is constantly evolving and can now aid society with the quest for knowledge in education systems. It is important to integrate the most recent technological advances into curriculums and classrooms, so the learning process can evolve just as technology has done. The Handbook of Research on Transformative Digital Content and Learning Technologies provides fresh insight into the most recent advancements and issues regarding educational technologies in contemporary classroom environments. Featuring detailed coverage on a variety of topics, such as mobile technology integration, ICT literacy integration, digital wellness, online group counseling, and distance learning, this publication will appeal to researchers and practitioners who are interested in discovering more about technological integration in education.

AwsAmazon Web Services. The Ultimate Tutorial For Beginners. A Complete Guide From Beginners To Advanced
Are you looking for a low-cost, scalable, and highly reliable infrastructure platform in the cloud to boost your business? If yes then you are in the right place! If you've lately come across Amazon Web Services as a cloud computing solution, perhaps the reason you're reading this is to know what it is, what it does, how it operates, how it can be of use to you, how to begin using it, the consequences of adoption, and more. Lucky for you, this book is all about this and much more. Commonly known as cloud computing nowadays, web services in the form of IT infrastructure services began to be offered by Amazon in 2004 for public use. AWS cloud computing provides a low-cost, scalable, and highly reliable infrastructure platform in the cloud. This has been adopted by thousands of businesses globally. At present, its regions include locations like Asia Pacific, European Union, North America, South America, Canada, China, etc. WHY SHOULD YUOUR BUSINESS NEED AWS TOO? There are 4 reasons at leas: -Security: To ensure the safety and integrity of your data, Amazon's data centers and services have several layers of physical and operational security. -Cost Effectiveness: You have to pay only for as much as you use. No upfront investment is required. -Flexibility: You can select the programming model or development platform that can be the most beneficial for your business. -Scalability: You can quickly scale up or scale down on the basis of demand. This book covers the basics of an end-user (maybe a business owner or business executive) who cares less about the technical aspects of its implementation to help you make an informed decision that understands what makes it different from all other cloud service providers out there. It goes deep and wide, answering almost every question you may have about AWS from different angles to give you an in-depth

understanding of why AWS is perhaps considered to be the most flexible, highly scalable, cost-effective and reliable infrastructure you can use to deploy secure web solutions with minimal support whatever your requirements! What You Will Learn: Why cloud computing is the way to get any business, whatever its size, to a worldwide scale Detailed understanding of AWS features that make it stand out from the rest Myths about AWS that you should to stop accepting as true Fundamental building bl??k? in the AWS ?nvir?nm?nt that make it a flawless solution to implement How to rely on AWS can transform your company for the better The weaknesses of AWS that you need to be conscious of before you adopt it O?ti?n?l AWS su???rt s?rvi??? that you can use to enhance user experience Put Your Feet Into The Realm Of Amazon Web Services (AWS) To Know A Limitless Sea Of Possibilities! Scroll up, click on "Buy Now" and Start Scaling Your Business!

The easy way to understand and implement cloud computing technology written by a team of experts Cloud computing can be difficult to understand at first, but the cost-saving possibilities are great and many companies are getting on board. If you've been put in charge of implementing cloud computing, this straightforward, plain-English guide clears up the confusion and helps you get your plan in place. You'll learn how cloud computing enables you to run a more green IT infrastructure, and access technology-enabled services from the Internet ("in the cloud") without having to understand, manage, or invest in the technology infrastructure that supports them. You'll also find out what you need to consider when implementing a plan, how to handle security issues, and more. Cloud computing is a way for businesses to take advantage of storage and virtual services through the Internet, saving money on infrastructure and support This book provides a clear definition of cloud computing from the utility computing standpoint and also addresses security concerns Offers practical guidance on delivering and managing cloud computing services effectively and efficiently Presents a proactive and pragmatic approach to implementing cloud computing in any organization Helps IT managers and staff understand the benefits and challenges of cloud computing, how to select a service, and what's involved in getting it up and running Highly experienced author team consults and gives presentations on emerging technologies Cloud Computing For Dummies gets straight to the point, providing the practical information you need to know.

R for Cloud Computing looks at some of the tasks performed by business analysts on the desktop (PC era) and helps the user navigate the wealth of information in R and its 4000 packages as well as transition the same analytics using the cloud. With this information the reader can select both cloud vendors and the sometimes confusing cloud ecosystem as well as the R packages that can help process the analytical tasks with minimum effort, cost and maximum usefulness and customization. The use of Graphical User Interfaces (GUI) and Step by Step screenshot tutorials is emphasized in this book to lessen the famous learning curve in learning R and some of the needless confusion created in cloud computing that hinders its widespread adoption. This will help you kick-start analytics on the cloud including chapters on both cloud computing, R, common tasks performed in analytics including the current focus and scrutiny of Big Data Analytics, setting up and navigating cloud providers. Readers are exposed to a breadth of cloud computing choices and analytics topics without being buried in needless depth. The included references and links allow the reader to pursue business analytics on the cloud easily. It is aimed at practical analytics and is easy to transition from existing analytical set up to the cloud on an open source system based primarily on R. This book is aimed at industry practitioners with basic programming skills and students who want to enter analytics as a profession. Note the scope of the book is neither statistical theory nor graduate level research for statistics, but rather it is for business analytics practitioners. It will also help researchers and academics but at a practical rather than conceptual level. The R statistical software is the fastest growing analytics platform in the world, and is established in both academia and corporations for robustness, reliability and accuracy. The cloud computing paradigm is firmly established as the next generation of computing from microprocessors to desktop PCs to cloud.

Quickstart guide for Microsoft Azure Microsoft Azure is an incredibly versatile and powerful cloud service, but only if you know how to use it! Need to learn Azure fast? Microsoft Azure is a cloud service that can be used to for building, testing, and managing applications and services through a network of servers managed by Microsoft in various locations all over the world. When you understand how to use Azure, you unlock a world of computing power and possibilities. Get the most out of Azure simply by following the easy instructions fully explained inside this guide. It doesn't matter if you have never used Azure before. This step-by-step guide gives you everything you need to know to do more with Azure than you ever thought possible! Fully up to date for 2018 The world of cloud services is changing constantly and yesterday's instructions are useless today. Save yourself the headache and frustration of trying to use a guide that just doesn't work anymore! Brand new for 2018, this guide shows you exactly what you need to do to get up and running on Microsoft Azure today!Here is a preview of what you will learn in this guide: Infrastructure as a Service (IaaS) Platform as a Service (PaaS) Software as a Service (SaaS) Public, Private, and Hybrid Clouds Cloud Computing and Security Issues The Importance of Geopolitics in Cloud Computing Overview of Available Azure Services Development with Azure Mobile services in Azure Azure Storage services Data management Functions in Azure Messaging Functions on Microsoft Azure Media services in Azure Azure's Content Delivery Network Developer Tools in Azure Application Management with Azure Machine learning Capabilities in Azure Azure and the Internet of Things (IoT) Design of Microsoft Azure Privacy and Microsoft Azure Creating a Windows Virtual Machine Creating a Linux Virtual Machine And so much more! If you aren't a tech-savvy person, have no fear! With this guide in your hands that will not be a barrier for you any longer. Learn Microsoft Azure quickly and easily when you grab this guide now!

Get an example-driven introduction to Amazon Web Services (AWS), the cloud computing platform that enables you deploy highly scalable, secure, and reliable solutions—without the need for expensive hardware or dozens of engineers. You'll learn the profoundly powerful concepts that underlie cloud computing, and then explore the core AWS offerings and their key attributes. Real-world examples demonstrate how these concepts are put into practice. The book presents

several hands-on projects that demonstrate the progressive evolution of an AWS-hosted system as requirements for scalability, security, reliability, and cost are accounted for.

Windows Azure, which was later renamed as Microsoft Azure in 2014, is a cloud computing platform, designed by Microsoft to successfully build, deploy, and manage applications and services through a global network of datacenters. This tutorial explains various features of this flexible platform and provides a step-by-step description of how to use the same. This tutorial has been designed for software developers who are keen on developing best-in-class applications using this open and advanced platform of Windows Azure.

This book and its supplemental training videos make up an excellent practical training program that provides the foundation for installation, configuration, activation, troubleshooting and maintenance of Allen-Bradley's PLCs (Programmable Logic Controllers) and RSLogix 500/5000 software in an industrial environment. The 11 chapters of this book and its training videos serve as an exhaustive collection of my step-by-step tutorials on Allen-Bradley's hardware and software. It is intended to take you from being a PLC novice to a professional. If you fall in the following categories of people, you will find this program very helpful: •Engineers •Electricians •Instrumentation technicians •Automation professionals •Graduates and students •People with no background in PLC programming but looking to build PLC programming skills This book is accompanied with 100+ in-depth HD training videos. In these videos, I use a practical approach to simplify everything you need to understand to help you speed up your learning of PLCs in general, and of Allen-Bradley's PLCs specifically. Because I assume you have little or no knowledge of PLCs, I strongly urge you to digest all the contents of this book and its supplemental training videos (over 100 episodes). This will not only help you build an in-depth knowledge of PLCs in general; it will also help you gain a lot of job skills and experience you need to be able to install and configure PLCs. In this book I start with the fundamentals of PLCs. I went on to touch advanced topics, such as PLC networks, virtual CPU, CPU models and what their codes mean, digital input and output configurations, and so much more. The knowledge you gain from this training will put you on the path to becoming a paid professional in the field of PLCs. The quickest way to build skills in PLC hardware and software is to use real-world scenarios and industrial applications. The real-world scenarios and industrial applications I treat in this book and the training videos will help you learn better and faster many of the functions and features of both the Allen-Bradley's PLC family and their software platform. If all you use is just a PLC user manual or its help contents, you cannot become a skillful PLC programmer. That is why I have designed this training program to help you develop skills by teaching you PLC hardware configuration and programming step by step. This will give you a big head start if you have never installed or configured a PLC before. One of the questions I get asked often by a novice is, where can I get a free download of RSLogix 500 to practice? I provide in this volume links to a free version of the RSLogix Micro Starter Lite (which provides essentially the same programming environment as the RSLogix 500 Pro) and a free version of the RSLogix Emulate 500. I also provide links to download the training edition of RSLogix 5000 / Studio 5000 Logix Designer to your system. First ensure you create an account at RockwellAutomation.com. Once you have done that, you don't even need to have a full-blown PLC to learn, run and test your ladder logic programs. In addition to showing you how to get these important Rockwell Automation software for free and without hassle, I also demonstrate with HD training videos how to install, configure, navigate and use them to write ladder logic programs. Finally, my help/support staff is available 24/7 to help you. So, if you have questions or need further help, use the support link provided for this training. My support staff will get back to you very quickly.

AWS 2019 Amazon Web Services Beginners User Guide . The Ultimate Tutorial.With Amazon taking entertainment to every possible higher level, they have a subsidiary called Amazon Web Services (AWS) which does provide on-demand cloud computing platforms to individuals, companies and governments, on a measured pay-as-you-go basis. In general, these cloud computing web services offer a set of primitive, abstract technical infrastructure and spread computing building blocks and tools. In this book, we aim to completely dissect Amazon Web Service to every angle so as to help you get a hang of it well enough. Our team has researched extensively and developed this book through the followings: What is AWS ? AWS have Web Developer Services Servece for mobile developers Cognito - Device Farm Mobile Analytics SNS Services for code injection EC2 Container Service Elastic Beanstalk Corporate Services AppStream Download your copy of " AWS " by scrolling up and clicking "Buy Now With 1-Click" button.

Why can you need AWS? What allows you to do Amazon Web Services? Would you like to start working in the world of cloud computing, but you don't know where to start? Want to Make Money? It is time to Learn Amazon Web Services! This book was written for people who are new to Amazon Web Services or AWS. It contains all you need to know about the how's and why's of this cloud computing service. Amazon Web Services Beginners Guide is for anyone who has been wanting to learn the AWS's basics. For people who have never even logged into the platform before, this book will be your guide through the basics of cloud computing and reveal how AWS became its pioneer. All the fundamentals of AWS will be covered in this book, which should be enough to make you more confident with the terminology and concepts behind this service. We'll begin with a brief history of how the online retail giant Amazon launched AWS initially for web developers. You'll learn about each milestone that shaped AWS into one of the most reliable and sought after cloud computing services, decisively beating technology giants such as Google and Microsoft. Throughout the sections dedicated to the basics of cloud computing, you'll know more about how it revolutionized the way we use data and make it accessible from anywhere in the world as long as you have an Internet connection. You'll also learn about the advantages of cloud computing compared to local computing and how it will benefit individuals and businesses who are looking into investing in a secure system infrastructure with minimum capital. Truth be told, you may have been using a cloud infrastructure without knowing it. Furthermore, this book will walk you through each of the different types of cloud computing and how each one may be used. AWS has been around for more than a decade now, and through the years it

has already amassed around two thousand features and services. We will discuss those that are most used: Are you a web developer trying to break into cloud computing but do not know where to begin? Familiarize yourself with the basics of AWS web development services and how you can use each one to design web applications that are robust, secure, and cost-effective. Do you need a networked desktop and server environment for your business but do not have a budget for it? Amazon WorkSpaces and AppStream may be the perfect solution for you. Ever wondered what big data is all about and how you can harness its power to help you analyze customer behavior? AWS big data services might be the answer you've been looking for. Or, are you a systems administrator looking for an email and calendaring solution that won't require a huge chunk of the budget to be allocated on hardware as well as licenses? You might want to check out Amazon WorkMail. Cloud computing is continuously evolving and you wouldn't want to be left out. Whatever your cloud computing needs are, AWS has them and Amazon Web Services Beginners Guide will show you how you can utilize these services for your or your business' benefit. Scroll up and click Buy Now in 1-Click or Buy NOW at the top of this page to start reading!

This book addresses emerging issues concerning the integration of artificial intelligence systems in our daily lives. It focuses on the cognitive, visual, social and analytical aspects of computing and intelligent technologies, and highlights ways to improve the acceptance, effectiveness, and efficiency of said technologies. Topics such as responsibility, integration and training are discussed throughout. The book also reports on the latest advances in systems engineering, with a focus on societal challenges and next-generation systems and applications for meeting them. Further, it covers some cutting-edge issues in energy, including intelligent control systems for power plant, and technology acceptance models. Based on the AHFE 2021 Conferences on Human Factors in Software and Systems Engineering, Artificial Intelligence and Social Computing, and Energy, held virtually on 25-29 July, 2021, from USA, this book provides readers with extensive information on current research and future challenges in these fields, together with practical insights into the development of innovative services for various purposes.

To benefit from this tutorial, you should have the desire to understand how Amazon Web Services can help you scale your cloud computing services. Amazon Web Services (AWS) is Amazon's cloud web hosting platform that offers flexible, reliable, scalable, easy-to-use, and cost-effective solutions. This tutorial covers various important topics illustrating how AWS works and how it is beneficial to run your website on Amazon Web Services. This tutorial is prepared for beginners who want to learn how Amazon Web Services works to provide reliable, flexible, and cost-effective cloud computing services.

The first textbook to teach students how to build data analytic solutions on large data sets using cloud-based technologies. This is the first textbook to teach students how to build data analytic solutions on large data sets (specifically in Internet of Things applications) using cloud-based technologies for data storage, transmission and mashup, and AI techniques to analyze this data. This textbook is designed to train college students to master modern cloud computing systems in operating principles, architecture design, machine learning algorithms, programming models and software tools for big data mining, analytics, and cognitive applications. The book will be suitable for use in one-semester computer science or electrical engineering courses on cloud computing, machine learning, cloud programming, cognitive computing, or big data science. The book will also be very useful as a reference for professionals who want to work in cloud computing and data science. Cloud and Cognitive Computing begins with two introductory chapters on fundamentals of cloud computing, data science, and adaptive computing that lay the foundation for the rest of the book. Subsequent chapters cover topics including cloud architecture, mashup services, virtual machines, Docker containers, mobile clouds, IoT and AI, inter-cloud mashups, and cloud performance and benchmarks, with a focus on Google's Brain Project, DeepMind, and X-Lab programs, IBKai HwangM SyNapse, Bluemix programs, cognitive initiatives, and neurocomputers. The book then covers machine learning algorithms and cloud programming software tools and application development, applying the tools in machine learning, social media, deep learning, and cognitive applications. All cloud systems are illustrated with big data and cognitive application examples.

A guide to cloud computing for students, scientists, and engineers, with advice and many hands-on examples. The emergence of powerful, always-on cloud utilities has transformed how consumers interact with information technology, enabling video streaming, intelligent personal assistants, and the sharing of content. Businesses, too, have benefited from the cloud, outsourcing much of their information technology to cloud services. Science, however, has not fully exploited the advantages of the cloud. Could scientific discovery be accelerated if mundane chores were automated and outsourced to the cloud? Leading computer scientists Ian Foster and Dennis Gannon argue that it can, and in this book offer a guide to cloud computing for students, scientists, and engineers, with advice and many hands-on examples. The book surveys the technology that underpins the cloud, new approaches to technical problems enabled by the cloud, and the concepts required to integrate cloud services into scientific work. It covers managing data in the cloud, and how to program these services; computing in the cloud, from deploying single virtual machines or containers to supporting basic interactive science experiments to gathering clusters of machines to do data analytics; using the cloud as a platform for automating analysis procedures, machine learning, and analyzing streaming data; building your own cloud with open source software; and cloud security. The book is accompanied by a website, Cloud4SciEng.org, that provides a variety of supplementary material, including exercises, lecture slides, and other resources helpful to readers and instructors.

With its cost efficiency, enabling of collaboration and sharing of resources, and its ability to improve access, cloud computing is likely to play a big role in the classrooms of tomorrow. Cloud Computing for Teaching and Learning: Strategies for Design and Implementation provides the latest information about cloud development and cloud applications in teaching and learning. The book alsos include empirical research findings in these areas for professionals and researchers working in the field of e-learning who want to implement teaching and learning with cloud computing, as well

as provide insights and support to executives concerned with cloud development and cloud applications in e-learning communities and environments.

Did you know that cloud computing is being used by just about every person or company on the internet today in some shape or form? Most people use the cloud and never even think about it. I've been writing, teaching and speaking about cloud computing since the time it was simply called "the cloud". In this book, you're going to learn how the cloud works, how it can help you, your team or organization, and the different types of cloud computing. In chapters 4 and 5, you're going to get a hands-on experience from my examples and learn real-world applications of cloud computing. In chapter 5 I'll show you: How to create and use a Microsoft Azure subscription to get $200 credit and 12 months of 25 free services. How to create a Windows virtual machine (VM). How to create a Linux virtual machine. When you read my book, you will understand different phrases and acronyms, such as: Software as a service Infrastructure as a service Platform as a service Virtualization Multitenancy and so much more! We'll also talk about: Public clouds Private clouds Hybrid clouds Multi-clouds Finally, we will look at the risks of cloud computing, cover the current marketplace and see a lot of the different companies offering cloud services. You will discover how to recognize and understand what it is these companies actually provide.

About the Book Recent industry surveys expect the cloud computing services market to be in excess of $20 billion and cloud computing jobs to be in excess of 10 million worldwide in 2014 alone. In addition, since a majority of existing information technology (IT) jobs is focused on maintaining legacy in-house systems, the demand for these kinds of jobs is likely to drop rapidly if cloud computing continues to take hold of the industry. However, there are very few educational options available in the area of cloud computing beyond vendor-specific training by cloud providers themselves. Cloud computing courses have not found their way (yet) into mainstream college curricula. This book is written as a textbook on cloud computing for educational programs at colleges. It can also be used by cloud service providers who may be interested in offering a broader perspective of cloud computing to accompany their own customer and employee training programs. The typical reader is expected to have completed a couple of courses in programming using traditional high-level languages at the college-level, and is either a senior or a beginning graduate student in one of the science, technology, engineering or mathematics (STEM) fields. We have tried to write a comprehensive book that transfers knowledge through an immersive "hands-on approach", where the reader is provided the necessary guidance and knowledge to develop working code for real-world cloud applications. Additional support is available at the book's website: www.cloudcomputingbook.info Organization The book is organized into three main parts. Part I covers technologies that form the foundations of cloud computing. These include topics such as virtualization, load balancing, scalability & elasticity, deployment, and replication. Part II introduces the reader to the design & programming aspects of cloud computing. Case studies on design and implementation of several cloud applications in the areas such as image processing, live streaming and social networks analytics are provided. Part III introduces the reader to specialized aspects of cloud computing including cloud application benchmarking, cloud security, multimedia applications and big data analytics. Case studies in areas such as IT, healthcare, transportation, networking and education are provided.

In recent times, the popularity of cloud computing has increased for businesses due to several reasons, such as cost savings, increased productivity, the enhanced speed with better efficiency, performance, as well as security. Along with Amazon Web Services (AWS), Salesforce's CRM system and Microsoft Azure are also popular public cloud offerings. And due to the cloud's increasing popularity, companies all around the world are in search of more cloud computing experts, as more organizations are now switching from the classical server infrastructure to cloud solutions to implement critical applications. With three business models: Platform as a Service (PaaS), software as a Service (SaaS), and Infrastructure as a Service (IaaS), it is likely that in the future, the system and network administrator jobs will be replaced if you are not updated with your skills. Cloud computing is helping businesses automate and configure their systems, as many are now transforming their onsite data center to clouds. Hence, there will be a huge demand for experts configuring Cloud Computing Infrastructure and APIs into their applications and storage. This cloud computing guide aims to help readers understand everything about cloud computing, from basic concepts to terminologies, various cloud tools and services, and also ways to build and scale up your cloud career.

Cloud Computing: Theory and Practice provides students and IT professionals with an in-depth analysis of the cloud from the ground up. Beginning with a discussion of parallel computing and architectures and distributed systems, the book turns to contemporary cloud infrastructures, how they are being deployed at leading companies such as Amazon, Google and Apple, and how they can be applied in fields such as healthcare, banking and science. The volume also examines how to successfully deploy a cloud application across the enterprise using virtualization, resource management and the right amount of networking support, including content delivery networks and storage area networks. Developers will find a complete introduction to application development provided on a variety of platforms. Learn about recent trends in cloud computing in critical areas such as: resource management, security, energy consumption, ethics, and complex systems

Get a detailed hands-on set of practical recipes that help simplify the deployment of a cloud based system for practical use of computing clouds along with an in-depth discussion of several projects Understand the evolution of cloud computing and why the cloud computing paradigm has a better chance to succeed than previous efforts in large-scale distributed computing

The integration of grid, cloud and other e-infrastructures into the fields of biology, bioinformatics, biomedicine, and healthcare are crucial if optimum use is to be made of the latest high-performance and distributed computer technology in these areas. Science gateways are concerned with offering intuitive graphical user interfaces to applications, data, and tools on distributed computing infrastructures. This book presents the joint proceedings of the Tenth HealthGrid Conference and the Fourth International Workshop on Science Gateways for Life Sciences (IWSG-Life), held in

Amsterdam, Netherlands in May 2012. The HealthGrid conference promotes the exchange and debate of ideas, technologies and solutions likely to promote the integration of grids into biomedical research and health in the broadest sense. The IWSG-Life workshop series is a forum that brings together scientists from the field of life sciences, bioinformatics, and computer science to advance computational biology and chemistry in the context of science gateways. These events have been jointly organized to maximize the benefit from synergies and stimulate the forging of further links in joint research areas. The book is divided into three parts. Part I includes contributions accepted to the HealthGrid conference; Part II contains the papers about various aspects of the development and usage of science gateways for life sciences. The joint session is recorded in Part III, and addresses the topic of science gateways for biomedical research. The book will provide insights and new perspectives for all those involved in the research and use of infrastructures and technology for healthcare and life sciences.

Explores cloud computing, breaking down the concepts, models, mechanisms, and architectures of this technology while allowing for the financial assessment of resources and how they compare to traditional storage systems.

Minimize Power Consumption and Enhance User ExperienceEssential for high-speed fifth-generation mobile networks, mobile cloud computing (MCC) integrates the power of cloud data centers with the portability of mobile computing devices. Mobile Cloud Computing: Architectures, Algorithms and Applications covers the latest technological and architectura

Learn Azure in a Month of Lunches, Second Edition, is a tutorial on writing, deploying, and running applications in Azure. In it, you'll work through 21 short lessons that give you real-world experience. Each lesson includes a hands-on lab so you can try out and lock in your new skills. Summary You can be incredibly productive with Azure without mastering every feature, function, and service. Learn Azure in a Month of Lunches, Second Edition gets you up and running quickly, teaching you the most important concepts and tasks in 21 practical bite-sized lessons. As you explore the examples, exercises, and labs, you'll pick up valuable skills immediately and take your first steps to Azure mastery! This fully revised new edition covers core changes to the Azure UI, new Azure features, Azure containers, and the upgraded Azure Kubernetes Service. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Microsoft Azure is vast and powerful, offering virtual servers, application templates, and prebuilt services for everything from data storage to AI. To navigate it all, you need a trustworthy guide. In this book, Microsoft engineer and Azure trainer Iain Foulds focuses on core skills for creating cloud-based applications. About the book Learn Azure in a Month of Lunches, Second Edition, is a tutorial on writing, deploying, and running applications in Azure. In it, you'll work through 21 short lessons that give you real-world experience. Each lesson includes a hands-on lab so you can try out and lock in your new skills. What's inside Understanding Azure beyond point-and-click Securing applications and data Automating your environment Azure services for machine learning, containers, and more About the reader This book is for readers who can write and deploy simple web or client/server applications. About the author Iain Foulds is an engineer and senior content developer with Microsoft. Table of Contents PART 1 - AZURE CORE SERVICES 1 Before you begin 2 Creating a virtual machine 3 Azure Web Apps 4 Introduction to Azure Storage 5 Azure Networking basics PART 2 - HIGH AVAILABILITY AND SCALE 6 Azure Resource Manager 7 High availability and redundancy 8 Load-balancing applications 9 Applications that scale 10 Global databases with Cosmos DB 11 Managing network traffic and routing 12 Monitoring and troubleshooting PART 3 - SECURE BY DEFAULT 13 Backup, recovery, and replication 14 Data encryption 15 Securing information with Azure Key Vault 16 Azure Security Center and updates PART 4 - THE COOL STUFF 17 Machine learning and artificial intelligence 18 Azure Automation 19 Azure containers 20 Azure and the Internet of Things 21 Serverless computing

This Excel guide and its short video tutorials are a life safer! Now you can learn how to use Excel more efficiently with many useful tips and tricks in this book and its quick videos. I'll show you how to get your Excel work done faster on either Windows or Mac platform. There are numerous useful shortcuts, tips, tricks and exercise files inside for you to practice along. All these will help you increase your productivity so that you can produce reports in minutes instead of hours. In Chapter 14, I provide a hassle-free download link for the 56 tutorial videos and exercise files. It is widely agreed that close to 60 percent of Excel users leave 80 percent of Excel untouched. That is, most users do not tap into the full potential of Excel's built-in utilities. Excel remains one of the most underutilized tools in the entire Microsoft Office Suite. The 14 chapters of this book and its videos serve as an exhaustive collection of quick tutorials on Excel shortcuts, tips and tricks. It's very good for beginners and advanced learners alike because it's accompanied with 56 quick HD demo videos. In these videos, I use a practical approach to simplify everything you need to understand to help you speed up your learning of Microsoft Excel. Microsoft Excel is a tool is used in virtually all careers and is valuable in both personal and professional settings. For example, you can use it to keep track of medications in a hospital inventory, create a financial plan for retirement, or to do other similar activities accurately and efficiently. This book and its demo videos are very valuable because they introduce the fundamental and advanced skills necessary to get you started quickly in using Excel. You will discover that the first few chapters or videos alone will make you very productive in a short period of time. Finally, if you have questions or need further help, you can use the support link I provide in Chapter 14. I will get back to you very quickly.

Quickstart guide for AWS: Amazon Web Services AWS is an incredibly versatile and powerful cloud service, but only if you know how to use it! Need to learn AWS fast? Amazon Web Services is a cloud service that can be used to for building, testing, and managing applications and services through a network of servers managed by Amazon in various locations all over the world. When you understand how to use Amazon Web Services, you unlock a world of computing power and possibilities. Get the most out of AWS simply by following the easy instructions fully explained inside this guide. It doesn

In this Overview of Cloud Computing with Amazon Web Services training course, expert author Steve Suehring will teach you about the services in AWS, what they are used for, and when to use them. This course is designed for the absolute beginner, meaning no prior experience with Amazon Web Services is required. You will start with an overview of compute services, then jump into learning about storage in AWS, including simple storage with S3, content delivery with CloudFront, and archival data services with Glacier. From there, Steve will teach you about databases in AWS, management-related services, and security. This video tutorial also covers networking, developer tools, and application layer services. Finally, you will learn about mobile-related services, analytics in AWS, and enterprise use cases with AWS. Once you have completed this computer based training course, you will have gained a solid understanding of the key AWS services, what they are used for, and when you should use them.

Cloud Computing provides us means by which we can access the applications as utilities over the internet. It allows us to create, configure, and customize the business applications online. This tutorial will take you through a step-by-step approach while learning Cloud Computing concepts. This reference has been prepared for the beginners to help them to understand basic-to-advanced concepts related to Cloud Computing. This tutorial will give you enough understanding on Cloud Computing concepts from where you can take yourself to a higher level of expertise. Before proceeding with this tutorial, you should have basic knowledge of Computers, Internet, Database and Networking concepts. Such basic knowledge will help you in understanding the Cloud Computing concepts and move fast on the learning track.

Distributed systems intertwine with our everyday lives. The benefits and current shortcomings of the underpinning technologies are experienced by a wide range of people and their smart devices. With the rise of large-scale IoT and similar distributed systems, cloud bursting technologies, and partial outsourcing solutions, private entities are encouraged to increase their efficiency and offer unparalleled availability and reliability to their users. The Research Anthology on Architectures, Frameworks, and Integration Strategies for Distributed and Cloud Computing is a vital reference source that provides valuable insight into current and emergent research occurring within the field of distributed computing. It also presents architectures and service frameworks to achieve highly integrated distributed systems and solutions to integration and efficient management challenges faced by current and future distributed systems. Highlighting a range of topics such as data sharing, wireless sensor networks, and scalability, this multi-volume book is ideally designed for system administrators, integrators, designers, developers, researchers, academicians, and students.

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.

Microsoft Azure Essentials from Microsoft Press is a series of free ebooks designed to help you advance your technical skills with Microsoft Azure. The first ebook in the series, Microsoft Azure Essentials: Fundamentals of Azure, introduces developers and IT professionals to the wide range of capabilities in Azure. The authors - both Microsoft MVPs in Azure - present both conceptual and how-to content for key areas, including: Azure Websites and Azure Cloud Services Azure Virtual Machines Azure Storage Azure Virtual Networks Databases Azure Active Directory Management tools Business scenarios Watch Microsoft Press's blog and Twitter (@MicrosoftPress) to learn about other free ebooks in the "Microsoft Azure Essentials" series.

Unleash the full potential of your applications and services and take your business to the next level with this definitive guide to AWS, the world's number one cloud platform! Do you want to learn how you can harness the power of cloud computing in your apps, but don't know where to begin? If you answered Yes, then this book if for you!

Create dynamic cloud-based websites with Amazon Web Services and this friendly guide! As the largest cloud computing platform in the world, Amazon Web Services (AWS) provides one of the most popular web services options available. This easy-to-understand guide is the perfect introduction to the Amazon Web Services platform and all it can do for you. You'll learn about the Amazon Web Services tool set; how different web services (including S3, Amazon EC2, and Amazon Flexible Payments) and Glacier work; and how you can implement AWS in your organization. Explains how to use Amazon Web Services to store objects, take payments, manage large quantities of data, send e-mails, deploy push notifications, and more from your website Details how AWS can reduce costs, improve efficiency, increase productivity, and cut down on expensive hardware investments - and administrative headaches - in your organization Includes practical examples and helpful step-by-step lists to help you experiment with different AWS features and create a robust website that meets your needs Amazon Web Services For Dummies is exactly what you need to get your head in the cloud with Amazon Web Services!

Your Complete Guide to Cloud Computing and Migrating to the Cloud. This book covers not only the technical details of how public and private cloud technology works but also the strategy, technical design, and in-depth implementation details required to migrate existing applications to the cloud. After reading this book, you will have a much better understanding of cloud technology and the steps required to quickly reap its benefits while at the same time lowering your IT implementation risk. Written by a proven expert in cloud computing, business management, network engineering, and IT security. This is a must-read for IT management, CIOs, senior IT engineers, and program managers in the government, DoD, and commercial sectors.

This latest textbook from bestselling author, Douglas E. Comer, is a class-tested book providing a comprehensive introduction to cloud computing. Focusing on concepts and principles, rather than commercial offerings by cloud providers and vendors, The Cloud Computing Book: The Future of Computing Explained gives readers a complete picture of the advantages and growth of cloud computing, cloud infrastructure, virtualization, automation and orchestration, and cloud-native software design. The book explains real and virtual data center facilities, including computation (e.g., servers, hypervisors, Virtual Machines, and containers),

networks (e.g., leaf-spine architecture, VLANs, and VxLAN), and storage mechanisms (e.g., SAN, NAS, and object storage). Chapters on automation and orchestration cover the conceptual organization of systems that automate software deployment and scaling. Chapters on cloud-native software cover parallelism, microservices, MapReduce, controller-based designs, and serverless computing. Although it focuses on concepts and principles, the book uses popular technologies in examples, including Docker containers and Kubernetes. Final chapters explain security in a cloud environment and the use of models to help control the complexity involved in designing software for the cloud. The text is suitable for a one-semester course for software engineers who want to understand cloud, and for IT managers moving an organization's computing to the cloud.

The ultimate guide to assessing and exploiting the customervalue and revenue potential of the Cloud A new business model is sweeping the world—the Cloud. And,as with any new technology, there is a great deal of fear,uncertainty, and doubt surrounding cloud computing.Cloudonomics radically upends the conventional wisdom,clearly explains the underlying principles and illustrates throughunderstandable examples how Cloud computing can create compellingvalue—whether you are a customer, a provider, a strategist,or an investor. Cloudonomics covers everything you need toconsider for the delivery of business solutions, opportunities, andcustomer satisfaction through the Cloud, so you can understandit—and put it to work for your business. Cloudonomicsalso delivers insight into when to avoid the cloud, and why. Quantifies how customers, users, and cloud providers cancollaborate to create win-wins Reveals how to use the Laws of Cloudonomics to define strategyand guide implementation Explains the probable evolution of cloud businesses andecosystems Demolishes the conventional wisdom on cloud usage, IT spend,community clouds, and the enterprise-provider cloud balance Whether you're ready for it or not, Cloud computing is here tostay. Cloudonomics provides deep insights into the businessvalue of the Cloud for executives, practitioners, and strategistsin virtually any industry—not just technology executives butalso those in the marketing, operations, economics, venturecapital, and financial fields.

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