



Cloud Computing Essentials

Essentials Of Cloud Computing

K. Chandrasekaran



Essentials Of Cloud Computing:

Essentials of Cloud Computing K. Chandrasekaran, 2014-12-05 Cloud computing accessing computing resources over the Internet is rapidly changing the landscape of information technology. Its primary benefits compared to on-premise computing models are reduced costs and increased agility and scalability. Hence, cloud computing is receiving considerable interest among several stakeholders: businesses, the IT industry, application developers, researchers, and students. To successfully embrace this new computing model, these stakeholders need to acquire new cloud computing skills and knowledge. This book is designed to provide readers with a clear and thorough understanding of the key aspects of cloud computing. Presented in an easy-to-understand style, *Essentials of Cloud Computing* begins with an introduction to basic cloud computing concepts. It then covers cloud computing architecture, deployment models, programming models, and cloud service types such as Software as a Service (SaaS) and Infrastructure as a Service (IaaS). It also discusses the cloud's networking aspects, major service providers, open source support, and security issues. The book concludes with a discussion of several advanced topics such as mobile clouds, media clouds, and green clouds. This book is intended for beginners as well as experienced practitioners who want to learn more about cloud computing. It includes many case studies, programming examples, and industry-based applications. Each chapter concludes with review questions that help readers check their understanding of the presented topics. *Essentials of Cloud Computing* will help readers understand the issues and challenges of cloud computing and will give them the tools needed to develop and deploy applications in clouds.

Cloud Essentials Kalani Kirk Hausman, Susan L. Cook, Telmo Sampaio, 2013-05-02 CompTIA Authorized courseware for the Cloud Essentials Exam CLO 001. What better way to get up to speed on cloud computing than with this new book in the popular Sybex Essentials series? *Cloud Essentials* covers the basics of cloud computing and its place in the modern enterprise. Explore public and private clouds, contrast the various service models for PaaS, SaaS, IaaS, or XaaS, plan security, and more. In addition, the book covers the exam objectives for both the CompTIA Cloud Essentials Exam CLO 001 exam and the EXIN Cloud Computing Foundation EX0 116 certification exams and includes suggested exercises and review questions to reinforce your learning. Gets you up to speed on the hottest trend in IT: cloud computing. Prepares IT professionals and those new to the cloud for and cover all of the CompTIA Cloud Essentials and EXIN Cloud Computing Foundation exam objectives. Serves as CompTIA Authorized courseware for the exam. Examines various models for cloud computing implementation, including public and private clouds. Contrasts various service models for platform PaaS, software SaaS, infrastructure IaaS, and other technologies XaaS. Identifies strategies for implementation on tight budgets and goes into planning security and service management. Get a thorough grounding in cloud basics and prepare for your cloud certification exam with *Cloud Essentials*.

Fundamentals Of Cloud Computing Prasant Kumar Pattnaik, 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

Essentials of Cloud Computing Chellammal Surianarayanan,Pethuru Raj Chelliah,2019-08-27 This reader friendly textbook presents a comprehensive overview of the essential aspects of cloud computing from the origin of the field to the latest developments Rather than merely discussing the cloud paradigm in isolation the text also examines how cloud computing can work collaboratively with other computing models to meet the needs of evolving computing trends This multi dimensional approach encompasses the challenges of fulfilling the storage requirements of big data the use of the cloud as a remote server for Internet of Things and sensor networks and an investigation of how cloud computing is interlinked with edge fog and mist computing among other illuminating perspectives Topics and features includes learning objectives motivating questions and self test exercises in every chapter presents an introduction to the underlying concepts fundamental features and key technological foundations of cloud computing examines how enterprise networking and cloud networking can work together to achieve business goals reviews the different types of cloud storage available to address the evolution of data and the need for digitization discusses the challenges and approaches to implementing cloud security and the hot topic of cloud management highlights the value of cloud brokerage capabilities and explains the importance of cloud orchestration in multi cloud environments describes the details of cloud migration the crucial role of monitoring in optimizing the cloud and the basics of disaster recovery using cloud infrastructure This technically rigorous yet simple to follow textbook is an ideal resource for graduate courses on cloud computing Professional software developers and cloud architects will also find the work to be an invaluable reference

Essentials of Cloud Computing Chellammal Surianarayanan,Pethuru Raj Chelliah,2023-07-21 Numerous advancements are being brought in and incorporated into the cloud domain with the aim of realizing a trove of deeper and decisive automations Rather than discussing the cloud paradigm in isolation this fully updated text examines how cloud computing can work collaboratively with other computing models to meet the needs of evolving trends This multi dimensional approach encompasses the challenges of fulfilling the storage requirements of big data the use of the cloud as a remote server for Internet of Things and sensor networks and an investigation of how cloud computing is interlinked with other established computing phenomenon such as edge computing New chapters illustrate the distinct ideals of the cloud native computing proclaimed as the next generation cloud computing paradigm Topics and features Includes learning objectives motivating questions and self test exercises Introduces the underlying concepts fundamental features and key technological foundations of cloud computing Examines how enterprise networking and cloud networking can work together to achieve business goals Reviews the different types of cloud storage available to address the evolution of data and

the need for digitization Discusses the challenges and approaches to implementing cloud governance security and the hot topic of cloud management Describes the details of cloud migration the crucial role of monitoring in optimizing the cloud and the basics of disaster recovery using cloud infrastructure This technically rigorous yet simple to follow textbook is an ideal resource for graduate courses on cloud computing Professional software developers and cloud architects will also find the work to be an invaluable reference CLOUD COMPUTING ESSENTIALS: A BASIC HANDBOOK Asst Prof. Debosree

Ghosh, Prof. Kishore Ghosh, 2024-01-09 This comprehensive cloud computing guide provides a structure for navigating the rapidly evolving cloud computing landscape It has been designed for aspiring students The syllabus empowers individuals to understand cloud architecture cloud infrastructure management cloud security and cloud based applications positioning them for success in the ever expanding cloud computing industry This book is useful for all the students of school and college levels **Essentials of Cloud Computing** Dr.V.Sudharshan, Dr.N.Satyanarayana, Dr.M.Sarada, 2024-10-25 Dr V

Sudharshan Professor Department of Computer Science Engineering Sri Chaitanya Institute of Technology and Research SCIT Khammam Telangana India Dr N Satyanarayana Professor Dean Department of Information Technology TKR College of Engineering and Technology Hyderabad Telangana India Dr M Sarada Associate Professor Department of Computer Science Engineering Sri Chaitanya Institute of Technology and Research SCIT Khammam Telangana India **The Basics of Cloud**

Computing Derrick Rountree, Ileana Castrillo, 2013-09-03 As part of the Syngress Basics series The Basics of Cloud Computing provides readers with an overview of the cloud and how to implement cloud computing in their organizations Cloud computing continues to grow in popularity and while many people hear the term and use it in conversation many are confused by it or unaware of what it really means This book helps readers understand what the cloud is and how to work with it even if it isn't a part of their day to day responsibility Authors Derrick Rountree and Ileana Castrillo explain the concepts of cloud computing in practical terms helping readers understand how to leverage cloud services and provide value to their businesses through moving information to the cloud The book will be presented as an introduction to the cloud and reference will be made in the introduction to other Syngress cloud titles for readers who want to delve more deeply into the topic This book gives readers a conceptual understanding and a framework for moving forward with cloud computing as opposed to competing and related titles which seek to be comprehensive guides to the cloud Provides a sound understanding of the cloud and how it works Describes both cloud deployment models and cloud services models so you can make the best decisions for deployment Presents tips for selecting the best cloud services providers *Cloud Computing Development*

Essentials Eric Frick, 2017-05-12 In this book I will teach you the basics of cloud computing and why cloud computing is one of the hottest areas in information technology today In addition I will show you how to sign up for free developer accounts with some of the leading cloud computing platforms such as Amazon AWS and Salesforce I will also take you on a brief tour of each of these platforms and show you how to deploy software to each of these as well By the end of this book you will be

able to develop and deploy software to the leading cloud based system on the market today Cloud Computing Basics
Simplilearn,2020-12-14 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

Essentials Of Cloud Computing Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Essentials Of Cloud Computing**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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