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Computer Engineering

Lab Manual

Third Year Computer Engineering

Semester-II

Laboratory Practice - II

Subject Code: 310258

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Cloud Computing Lab Manual Vtu

Arshdeep Bahga,Vijay Madisetti

Cloud Computing Lab Manual Vtu:

Cloud Certified Professional ,2010   Cloud Computing Rajiv Chopra,2017-03-30 This overview of cloud computing in a self teaching format contains state of the art chapters with tips and insights about cloud computing its architecture applications information on security and privacy and numerous case studies It includes questions for discussion and Cloud Computing Lab Experiments to help in mastering its complex services and technologies Recent research shows that cloud computing will be worth billions of dollars in new investments Organizations are flocking to the cloud services to benefit from the elasticity self services resource abundance ubiquity responsiveness and cost efficiencies that it offers Many government and private universities have already migrated to the cloud The next wave in computing technology expected to usher in a new era will be based on cloud computing Features Explores the basic advancements in the field of cloud computing Offers a practical self teaching approach with numerous case studies and lab experiments on installation evaluation security and more Includes material on ESXi MS AZURE Eucalyptus and more   **Microsoft Azure Cloud - Complete Practical Guide for Ultimate Beginners** ProTechGurus,2018-08-08 This book has been written for the candidates who want to learn and use the Microsoft Azure cloud platform candidates who have just started his career with Cloud services who is already working with Azure cloud services This is also dedicated for those who are preparing themselves for one of the most popular cloud certifications Implementing Microsoft Azure Infrastructure Solutions Exam This is mainly focused on the hands on lab exercises and real world best practices rather than deep theoretical and conceptual lectures However we have covered enough concept and theory part of each of the mentioned topic There are hundreds of theoretical documentations are available on the Microsoft Azure official documentation site and few other sites on the Internet community But there are very few articles on the step by step how to guide to implement use and configure Azure Cloud services This guide will help you to become handy and expert on most of the Microsoft Azure Cloud services that will help you start your career with Cloud technologies However this guide also contains various real world enterprise level best practices to implement and use for the production services These step by step lab exercises will help you to design a highly secure scalable and well architecture enterprise level Cloud solutions and designs We have covered the following topics in this guide along with step by step lab exercises 01 Cloud Computing Introduction02 Cloud Service Providers03 Types of Cloud04 Cloud Offering Classes05 Microsoft Azure Introduction06 Getting Started with Free Azure Subscription07 Getting Familiarized with Azure Portal Options08 Getting Azure Subscription Details09 Creating Administrative Users for Azure Cloud Management10 Enable Multi Factor Authentication for Azure Accounts11 Azure Pricing Calculator12 Introduction Azure Virtual Network vNet 13 Creating an Azure Virtual Network14 Introduction to Azure Resource Groups15 Managing Resource Groups16 Introduction Azure Virtual Machines17 Understanding Azure VM Series Types18 Creating Azure Virtual Machine19 Connecting Azure Virtual Machines20 Detailed Explanation of Azure Virtual Machine Options21 Configure Disk in Azure Virtual Machine22 Capturing

VM Image in Azure Cloud23 Creating Azure VM from Captured Image24 Importing and Exporting Azure Virtual Machine25 Azure Network Security Group NSG 6726 Creating and Applying NSG for Azure Virtual Network27 Managing Azure Storage Services28 Working with Azure Storage Explorer29 Managing Azure Storage Using Azure CLI30 Working with Azure Files Share31 Mounting Azure Files Share32 Azure Database Storage Services33 Creating and Using Azure SQL Database34 Restoring Azure SQL Database35 Exporting Importing SQL Databases36 Azure Active Directory37 Azure Marketplace38 Working with Azure VPN Gateways39 Creating a Windows Server Virtual Machine40 Connecting Your Windows VM Using P2S VPN Gateway Securely41 Configuring vNet Peering Between Azure Virtual Networks42 Working with Load Balancers in Azure Cloud43 Configuring Azure Load Balancer44 Configuring VM Scale Set in Azure Cloud45 Configuring Application Gateway in Azure Cloud46 Configuring WAF in Azure Cloud47 Working with Azure Cloud Management Tools48 Managing Azure Account Using PowerShell49 Scheduling Auto and Stop Azure VMs **Cloud Computing and Virtualization** Dac-Nhuong Le,Raghvendra Kumar,Gia Nhu Nguyen,Jyotir Moy Chatterjee,2018-03-12 The purpose of this book is first to study cloud computing concepts security concern in clouds and data centers live migration and its importance for cloud computing the role of firewalls in domains with particular focus on virtual machine VM migration and its security concerns The book then tackles design implementation of the frameworks and prepares test beds for testing and evaluating VM migration procedures as well as firewall rule migration The book demonstrates how cloud computing can produce an effective way of network management especially from a security perspective **Handbook of Cloud Computing** Nayyar Dr. Anand,2019-09-20 Great POSSIBILITIES and high future prospects to become ten times folds in the near FUTUREKey features Comprehensively gives clear picture of current state of the art aspect of cloud computing by elaborating terminologies models and other related terms Enlightens all major players in Cloud Computing industry providing services in terms of SaaS PaaS and IaaS Highlights Cloud Computing Simulators Security Aspect and Resource Allocation In depth presentation with well illustrated diagrams and simple to understand technical concepts of cloud Description The book e Handbook of Cloud Computinge provides the latest and in depth information of this relatively new and another platform for scientific computing which has great possibilities and high future prospects to become ten folds in near future The book covers in comprehensive manner all aspects and terminologies associated with cloud computing like SaaS PaaS and IaaS and also elaborates almost every cloud computing service model The book highlights several other aspects of cloud computing like Security Resource allocation Simulation Platforms and futuristic trend i e Mobile cloud computing The book will benefit all the readers with all in depth technical information which is required to understand current and futuristic concepts of cloud computing No prior knowledge of cloud computing or any of its related technology is required in reading this book What will you learn Cloud Computing Virtualisation Software as a Service Platform as a Service Infrastructure as a Service Data in Cloud and its Security Cloud Computing Simulation Mobile Cloud Computing Specific Cloud Service Models Resource

Allocation in Cloud Computing Who this book is for Students of Polytechnic Diploma Classes Computer Science Information Technology Graduate Students Computer Science CSE IT Computer Applications Master Class Students Msc CS IT MCA M Phil M Tech M S Researcher s Ph D Research Scholars doing work in Virtualization Cloud Computing and Cloud Security Industry Professionals Preparing for Certifications Implementing Cloud Computing and even working on Cloud Security Table of contents1 Introduction to Cloud Computing2 Virtualisation3 Software as a Service4 Platform as a Service5 Infrastructure as a Service6 Data in Cloud7 Cloud Security 8 Cloud Computing Simulation9 Specific Cloud Service Models10 Resource Allocation in Cloud Computing11 Mobile Cloud Computing About the authorDr Anand Nayyar received Ph D Computer Science in Wireless Sensor Networks and Swarm Intelligence Presently he is working in Graduate School Duy Tan University Da Nang Vietnam He has total of fourteen Years of Teaching Research and Consultancy experience with more than 250 Research Papers in various International Conferences and highly reputed journals He is certified Professional with more than 75 certificates and member of 50 Professional Organizations He is acting as e ACM DISTINGUISHED SPEAKERe

Cloud Computing for Machine Learning and Cognitive Applications Kai Hwang,2017-06-16 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 **Mastering Cloud Computing** Rajkumar Buyya,Christian Vecchiola,S.Thamarai Selvi,2013-04-05 Mastering Cloud Computing is designed for undergraduate students learning to develop cloud computing applications Tomorrow s applications won t live on a single computer but will be deployed from and reside on a virtual server accessible anywhere any time Tomorrow s application developers need to

understand the requirements of building apps for these virtual systems including concurrent programming high performance computing and data intensive systems The book introduces the principles of distributed and parallel computing underlying cloud architectures and specifically focuses on virtualization thread programming task programming and map reduce programming There are examples demonstrating all of these and more with exercises and labs throughout Explains how to make design choices and tradeoffs to consider when building applications to run in a virtual cloud environment Real world case studies include scientific business and energy efficiency considerations **Cloud Computing** Sunilkumar Manvi,Gopal Shyam,2021-03-08 Comprehensive and timely Cloud Computing Concepts and Technologies offers a thorough and detailed description of cloud computing concepts architectures and technologies along with guidance on the best ways to understand and implement them It covers the multi core architectures distributed and parallel computing models virtualization cloud developments workload and Service Level Agreements SLA in cloud workload management Further resource management issues in cloud with regard to resource provisioning resource allocation resource mapping and resource adaptation ethical non ethical and security issues in cloud are followed by discussion of open challenges and future directions This book gives students a comprehensive overview of the latest technologies and guidance on cloud computing and is ideal for those studying the subject in specific modules or advanced courses It is designed in twelve chapters followed by laboratory setups and experiments Each chapter has multiple choice questions with answers as well as review questions and critical thinking questions The chapters are practically focused meaning that the information will also be relevant and useful for professionals wanting an overview of the topic **Design and Use of Virtualization Technology in Cloud Computing** Das, Prashanta Kumar,Deka, Ganesh Chandra,2017-08-11 Cloud computing is rapidly expanding in its applications and capabilities through various parts of society Utilizing different types of virtualization technologies can push this branch of computing to even greater heights Design and Use of Virtualization Technology in Cloud Computing is a crucial resource that provides in depth discussions on the background of virtualization and the ways it can help shape the future of cloud computing technologies Highlighting relevant topics including grid computing mobile computing open source virtualization and virtualization in education this scholarly reference source is ideal for computer engineers academicians students and researchers that are interested in learning more about how to infuse current cloud computing technologies with virtualization advancements Cloud Computing Mr. Rohit Manglik,2024-07-13 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels *Laboratory Training Guide* Arshdeep Bahga,Vijay Madisetti,2014-12-18 In response to requests for instructional and training material from instructors we prepared this laboratory training guide as a companion book to the Cloud Computing A Hands On Approach Cloud Book This book is designed to serve two purposes First it provides

a tutorial for the laboratory training that can accompany traditional or online instruction using the Cloud Book Second it provides access to the complete source code used in the examples provided in the Cloud Book The authors hope that this laboratory training guide will continue to prove useful to instructors and students using the Cloud Book **Cloud Computing: Tools, Technologies and Applications** Mr.L.Imamdheen,Mr.K.Mohamed Arif Khan,Bijjam Srinivasulu,Dr.K.Syed Kousar Niasi,I.Siddik,T.Javith Hussain,2024-09-26 Mr L Imamdheen Assistant Professor Department of Computer Science Jamal Mohamed College Autonomous Tiruchirappalli Tamil Nadu India Mr K Mohamed Arif Khan Assistant Professor Department of Computer Science Jamal Mohamed College Autonomous Tiruchirappalli Tamil Nadu India Bijjam Srinivasulu Associate Professor Head Department of Information Technology Vidya Jyothi Institute of Technology Hyderabad Telangana India Dr K Syed Kousar Niasi Assistant Professor Department of Computer Science Jamal Mohamed College Autonomous Tiruchirappalli Tamil Nadu India I Siddik Assistant Professor Department of Computer Science Jamal Mohamed College Autonomous Tiruchirappalli Tamil Nadu India T Javith Hussain Assistant Professor Department of Computer Science Jamal Mohamed College Autonomous Tiruchirappalli Tamil Nadu India *Cloud Computing Foundation Complete Certification Kit - Study Guide Book and Online Course* Ivanka Menken,Gerard Blokdijk,2008 The opportunities provided by Cloud Computing solutions allowed for significant growth within an industry that continues to mature and develop at a rapid pace The primary goal of this book and course is to provide the quality education and support materials needed to enable the understanding and application of Cloud Computing in a wide range of contexts This comprehensive book is designed to complement the in depth eLearn Cloud Computing Foundation program The interactive eLearn course uses a combination of narrated PowerPoint presentations and multiple choice assessments which will ultimately prepare you for the Cloud Computing Foundation certification exam IT professionals need to know a whole lot more about the various ways of delivering services to the customers and end users It is no longer sufficient just to know the differences between Windows based or Linux based architecture These days most services will utilize some form of Cloud Computing be it virtualization or SaaS offerings So with the change in computing and IT Service delivery comes a whole new series of qualifications and certification The Cloud Computing Certification Scheme has been created to support the IT Professional who needs to be a niche generalist especially in a rapidly changing area like cloud computing First you need to create the foundation The Cloud Computing Foundation Program focuses on the fundamentals general knowledge terminology and BASIC concepts used in Cloud Computing This program earns you 2 points toward your Cloud Computing Expert Certificate This kit prepares you for the certification exam by offering valuable information on Cloud Computing application and Cloud Computing Certification This Kit contains the book and online course access that provides everything you need to prepare for the Cloud Computing Foundation Certification Exam including in depth coverage of all exam objectives scenarios to easily demonstrate the processes in action and practice exam questions for that last minute test preparation This Study Guide and Online Course

access provides complete in depth coverage of all exam objectives for the Cloud Computing Foundation exam in a systematic approach so you can be confident you re getting the instruction you need Real world scenarios put what you ve learned in the context of service solutions Thought provoking questions to challenge your thinking and understanding Exam Essentials in each chapter helps you zero in on what you need to know Includes practice exam questions A Real World Guide to Cloud Computing Skills Key information and real world examples organized around the actual day to day tasks and challenges you ll face in the field of IT Management Practice what you ve learned with challenging Cloud Computing Foundation exam style questions Based on specific exam objectives use this as a lab manual for certification preparation **Cloud Computing** Nikos Antonopoulos,Lee Gillam,2010-07-16 Cloud computing continues to emerge as a subject of substantial industrial and academic interest Although the meaning and scope of cloud computing continues to be debated the current notion of clouds blurs the distinctions between grid services web services and data centers among other areas Clouds also bring considerations of lowering the cost for relatively bursty applications to the fore Cloud Computing Principles Systems and Applications is an essential reference guide that provides thorough and timely examination of the services interfaces and types of applications that can be executed on cloud based systems The book identifies and highlights state of the art techniques and methods for designing cloud systems presents mechanisms and schemes for linking clouds to economic activities and offers balanced coverage of all related technologies that collectively contribute towards the realization of cloud computing With an emphasis on the conceptual and systemic links between cloud computing and other distributed computing approaches this text also addresses the practical importance of efficiency scalability robustness and security as the four cornerstones of quality of service Topics and features explores the relationship of cloud computing to other distributed computing paradigms namely peer to peer grids high performance computing and web services presents the principles techniques protocols and algorithms that can be adapted from other distributed computing paradigms to the development of successful clouds includes a Foreword by Professor Mark Baker of the University of Reading UK examines current cloud practical applications and highlights early deployment experiences elaborates the economic schemes needed for clouds to become viable business models This book will serve as a comprehensive reference for researchers and students engaged in cloud computing Professional system architects technical managers and IT consultants will also find this unique text a practical guide to the application and delivery of commercial cloud services Prof Nick Antonopoulos is Head of the School of Computing University of Derby UK Dr Lee Gillam is a Lecturer in the Department of Computing at the University of Surrey UK **Cloud Computing for Science and Engineering** Ian Foster,Dennis B. Gannon,2017-09-29 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   *Handbook of Cloud Computing* Dr. Anand Nayyar,2019-09-18 Great POSSIBILITIES and high future prospects to become ten times folds in the near FUTURE DESCRIPTION The book Handbook of Cloud Computing provides the latest and in depth information of this relatively new and another platform for scientific computing which has great possibilities and high future prospects to become ten folds in near future The book covers in comprehensive manner all aspects and terminologies associated with cloud computing like SaaS PaaS and IaaS and also elaborates almost every cloud computing service model The book highlights several other aspects of cloud computing like Security Resource allocation Simulation Platforms and futuristic trend i e Mobile cloud computing The book will benefit all the readers with all in depth technical information which is required to understand current and futuristic concepts of cloud computing No prior knowledge of cloud computing or any of its related technology is required in reading this book KEY FEATURES Comprehensively gives clear picture of current state of the art aspect of cloud computing by elaborating terminologies models and other related terms Enlightens all major players in Cloud Computing industry providing services in terms of SaaS PaaS and IaaS Highlights Cloud Computing Simulators Security Aspect and Resource Allocation In depth presentation with well illustrated diagrams and simple to understand technical concepts of cloud WHAT WILL YOU LEARN Cloud Computing Virtualisation Software as a Service Platform as a Service Infrastructure as a Service Data in Cloud and its Security Cloud Computing Simulation Mobile Cloud Computing Specific Cloud Service Models Resource Allocation in Cloud Computing WHO THIS BOOK IS FOR Students of Polytechnic Diploma Classes Computer Science Information Technology Graduate Students Computer Science CSE IT Computer Applications Master Class Students Msc CS IT MCA M Phil M Tech M S Researcher s Ph D Research Scholars doing work in Virtualization Cloud Computing and Cloud Security Industry Professionals Preparing for Certifications Implementing Cloud Computing and even working on Cloud Security Table of Contents 1 Introduction to Cloud Computing 2 Virtualisation 3 Software as a Service 4 Platform as a Service 5 Infrastructure

as a Service 6 Data in Cloud 7 Cloud Security 8 Cloud Computing Simulation 9 Specific Cloud Service Models 10 Resource Allocation in Cloud Computing 11 Mobile Cloud Computing   Cloud Computing Igor Faynberg,Hui-Lan Lu,Dor Skuler,2016-01-19 Cloud Computing Business Trends and Technologies provides a broad introduction to Cloud computing technologies and their applications to IT and telecommunications businesses i e the network function virtualization NFV To this end the book is expected to serve as a textbook in a graduate course on Cloud computing The book examines the business cases and then concentrates on the technologies necessary for supporting them In the process the book addresses the principles of as well as the known problems with the underlying technologies such as virtualization data communications network and operations management security and identity management It introduces through open source case studies based on OpenStack an extensive illustration of lifecycle management The book also looks at the existing and emerging standards demonstrating their respective relation to each topic Overall this is an authoritative textbook on this emerging and still developing discipline which Guides the reader through basic concepts to current practices to state of the art applications Considers technical standards bodies involved in Cloud computing standardization Is written by innovation experts in operating systems and data communications each with over 20 years experience in business research and teaching   Cloud Computing with Cloud Labs Kris Jamsa,2022-03-15 Print Textbook Cloud Lab Access 180 day subscription The cybersecurity Cloud Labs for Cloud Computing provide fully immersive mock IT infrastructures with live virtual machines and real software where students will learn and practice the foundational information security skills they will need to excel in their future careers Unlike simulations these hands on virtual labs reproduce the complex challenges of the real world without putting an institution s assets at risk Available as a standalone lab solution or bundled with Jones Bartlett Learning textbooks these cybersecurity Cloud Labs are an essential tool for mastering key course concepts through hands on training Labs Coming Soon   **Cloud Computing** Lizhe Wang,Rajiv Ranjan,Jinjun Chen,Boualem Benatallah,2011-10-03 Cloud computing has created a shift from the use of physical hardware and locally managed software enabled platforms to that of virtualized cloud hosted services Cloud assembles large networks of virtual services including hardware CPU storage and network and software resources databases message queuing systems monitoring systems and load balancers As Cloud continues to revolutionize applications in academia industry government and many other fields the transition to this efficient and flexible platform presents serious challenges at both theoretical and practical levels ones that will often require new approaches and practices in all areas Comprehensive and timely Cloud Computing Methodology Systems and Applications summarizes progress in state of the art research and offers step by step instruction on how to implement it Summarizes Cloud Developments Identifies Research Challenges and Outlines Future Directions Ideal for a broad audience that includes researchers engineers IT professionals and graduate students this book is designed in three sections Fundamentals of Cloud Computing Concept Methodology and Overview Cloud Computing Functionalities and Provisioning Case Studies Applications

and Future Directions It addresses the obvious technical aspects of using Cloud but goes beyond exploring the cultural social and regulatory legal challenges that are quickly coming to the forefront of discussion Properly applied as part of an overall IT strategy Cloud can help small and medium business enterprises SMEs and governments in optimizing expenditure on application hosting infrastructure This material outlines a strategy for using Cloud to exploit opportunities in areas including but not limited to government research business high performance computing web hosting social networking and multimedia With contributions from a host of internationally recognized researchers this reference delves into everything from necessary changes in users initial mindset to actual physical requirements for the successful integration of Cloud into existing in house infrastructure Using case studies throughout to reinforce concepts this book also addresses recent advances and future directions in methodologies taxonomies IaaS SaaS data management and processing programming models and applications

Guide to Cloud Computing Richard Hill,Laurie Hirsch,Peter Lake,Siavash Moshiri,2012-11-28 This book describes the landscape of cloud computing from first principles leading the reader step by step through the process of building and configuring a cloud environment The book not only considers the technologies for designing and creating cloud computing platforms but also the business models and frameworks in real world implementation of cloud platforms Emphasis is placed on learning by doing and readers are encouraged to experiment with a range of different tools and approaches Topics and features includes review questions hands on exercises study activities and discussion topics throughout the text demonstrates the approaches used to build cloud computing infrastructures reviews the social economic and political aspects of the on going growth in cloud computing use discusses legal and security concerns in cloud computing examines techniques for the appraisal of financial investment into cloud computing identifies areas for further research within this rapidly moving field

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Table of Contents Cloud Computing Lab Manual Vtu

1. Understanding the eBook Cloud Computing Lab Manual Vtu
     - The Rise of Digital Reading Cloud Computing Lab Manual Vtu
     - Advantages of eBooks Over Traditional Books
2. Identifying Cloud Computing Lab Manual Vtu
     - Exploring Different Genres
     - Considering Fiction vs. Non-Fiction
     - Determining Your Reading Goals
3. Choosing the Right eBook Platform
     - Popular eBook Platforms
     - Features to Look for in an Cloud Computing Lab Manual Vtu
     - User-Friendly Interface
4. Exploring eBook Recommendations from Cloud Computing Lab Manual Vtu
     - Personalized Recommendations

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