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Computer Engineering

Lab Manual

Third Year Computer Engineering

Semester-II

Laboratory Practice - II

Subject Code: 310258

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Academic year 2021-22

Cloud Computing Lab Manual Vtu

Borko Furht, Armando Escalante



Cloud Computing Lab Manual Vtu:

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 Certified Professional** ,2010 **Cloud Computing** Rajiv Chopra,2017-04-17 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 Mastering Cloud Computing Rajkumar Buyya,Christian Vecchiola,S.Thamarai Selvi,Shivananda Poojara,Satish Narayana Srirama,2026-03-01 Mastering Cloud Computing Foundations and Applications Programming Second Edition is designed for readers learning to develop cloud computing applications Today s applications don t live on a single computer but are deployed from and reside on a virtual server accessible anywhere any time Today 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 The book covers all you need to develop applications for cloud architectures including industrial platforms and security considerations Real world case studies and examples demonstrate the key concepts with exercises and labs throughout the book **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 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

Cloud Computing for Machine Learning and Cognitive Applications Kai

Hwang,2017-07-07 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

Cloud Computing and Virtualization Dac-Nhuong Le,Raghvendra Kumar,Gia Nhu Nguyen,Jyotir Moy

Chatterjee,2018-03-09 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

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 And Big Data Technology (Second Edition) Junxiu An,Sian Jin,Lilang Wan,2025-07-02 This book comprehensively introduces the basic knowledge and main technologies of cloud computing and big data It covers cloud computing big data technology virtualization technology data centers parallel computing and clustering technology cloud storage technology OpenStack Hadoop Spark Storm and cloud computing simulation With a focus on practicality this volume is enriched with experiments and closely integrates theory with practice enabling readers to systematically and comprehensively understand cloud computing and big data technologies This useful reference textbook benefits professionals academics researchers graduate and undergraduate students in databases information sciences

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 **Handbook of Cloud Computing** Borko Furht,Armando Escalante,2010-09-11 Cloud computing has become a significant technology trend Experts believe cloud computing is currently reshaping information technology and the IT marketplace The advantages of using cloud computing include cost savings speed to market access to greater computing resources high availability and scalability Handbook of Cloud Computing includes contributions from world experts in the field of cloud computing from academia research laboratories and private industry This book presents the systems tools and services of the leading providers of cloud computing including Google Yahoo Amazon IBM and Microsoft The basic concepts of cloud computing and cloud computing applications are also introduced Current and future technologies applied in cloud computing are also discussed Case studies examples and exercises are provided throughout Handbook of Cloud Computing is intended for advanced level students and researchers in computer science and electrical engineering as a reference book This handbook is also beneficial to computer and system

infrastructure designers developers business managers entrepreneurs and investors within the cloud computing related industry

Introduction to Cloud Computing Praveen M,2020-10-23 Cloud computing has recently emerged as one of the buzzwords in the ICT industry Numerous IT vendors are promising to offer computation storage and application hosting services and to provide coverage in several continents offering service level agreements SLA backed performance and uptime promises for their services While these clouds are the natural evolution of traditional data centers they are distinguished by exposing resources computation data storage and applications as standards based Web services and following a utility pricing model where customers are charged based on their utilization of computational resources storage and transfer of data This book explains the importance and fundamentals of Cloud Computing Concepts 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

Cloud Computing Essentials and Technologies

Mr.A.Uthiramoorthy,Mr.Junath.N,Mrs.B.Praveena,Mr.P.Shivaathmajan,Dr.K.A.Balasubramaniam,2024-07-10 Mr A Uthiramoorthy Assistant Professor Department of Computer Science Rathinam College of Arts and Science Coimbatore Tamil Nadu India Mr Junath N Senior Faculty Department of Information Technology College of Computing and Information Sciences University of Technology and Applied Sciences Sultanate of Oman Mrs B Praveena Assistant Professor Department of Computer Science with Data Analytics Kongunadu Arts and Science College Bharathiar University Coimbatore Tamil Nadu India Mr P Shivaathmajan Student B Tech IT Kumaraguru College of Technology Coimbatore Tamil Nadu India Dr K A Balasubramaniam Assistant Professor Department of Computer Science Ayya Nadar Janaki Ammal College Autonomous

Sivakasi Tamil Nadu India **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 Basics** S. Srinivasan,2014-05-14 Cloud Computing Basics covers the main aspects of this fast moving technology so that both practitioners and students will be able to understand cloud computing The author highlights the key aspects of this technology that a potential user might want to investigate before deciding to adopt this service This book explains how cloud services can be used to augment existing services such as storage backup and recovery Addressing the details on how cloud security works and what the users must be prepared for when they move their data to the cloud Also this book discusses how businesses could prepare for compliance with the laws as well as industry standards such as the Payment Card Industry **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** Dan C. Marinescu,2013-05-30 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

AWS Certified Solutions Architect - Lab Manual Guide ProTechGurus,2018-08-06 This book is specially designed for those people who are either already working on AWS Cloud or looking to work on AWS Cloud services or want to achieve the real world AWS Cloud hands on skills and proficiency There are about 45 high quality step by step industry based enterprise level hands on lab exercises with clean and clear how to instructions With all the lab exercises very selected and useful official documentation links are mentioned so you can take an overview of the service that you are going to use All the hands on lab exercises are doable with the AWS Free Tier account so you don't need to spend too much to learn AWS cloud services The book has been designed by starting from basics so a beginner can also perform all the hands on labs without any issue The following is the high level list of the lab exercises contains in this guide

- 1 Sign Up for AWS Free Tier Account
- 2 Getting Familiarized with AWS Console
- 3 Creating an AWS IAM User
- 4 Managing Virtual Private Cloud VPC
- 5 Creating and Configuring Internet Gateways
- 6 Creating and Configuring NAT Gateways
- 7 Configuring Routing Tables
- 8 VPC Peering Between Two VPCs
- 9 Working with Amazon Elastic Cloud Compute EC2
- 10 Creating and Configuring Security Groups
- 12 Connecting EC2 Linux Instance Using PuTTY Gitbash and Console
- 13 Connecting Private Instance using SSH Agent Forwarding
- 14 Accessing EC2 Linux Instance Using RDP with GUI Interface
- 15 Recovering and connecting EC2 instance if the SSH key is lost
- 16 Changing Instance type security groups volumes other settings
- 17 Start Stop Reboot and Terminate EC2 Instance
- 18 Creating and configuring Elastic Load Balancer
- 19 Scheduling Auto Snapshot of Volumes
- 20 Creating AMI and Recovering EC2 Instance Using AMI
- 21 Configuring CloudWatch Monitoring
- 22 Configuring Amazon Simple Notification Service SNS
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Cloud Computing Lab Manual Vtu Introduction

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