

Pravara Rural Engineering College Loni

Department of Computer Engineering

LABORATORY MANUAL

2019-2020

LABORATORY PRACTICE-IV
[Cloud Computing]

BE-COMPUTER ENGINEERING

SEMESTER-II

Subject Code: 410255

By –

Miss. Sonal Baban Gaikwad (BE Computer)

TEACHING SCHEME

Practical: 4 Hrs/Week

EXAMINATION SCHEME

Oral: 50 Marks

Term Work: 50 Marks

-: Name of Faculty:-

dr. S.K.Korde

Asst. Professor, Department of Computer Engineering.

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Praveen M



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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 *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

Laboratory Training Guide Arshdeep Bahga,Vijay Madiseti,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 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 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

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

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