

SOLUTION MANUAL DISTRIBUTED AND CLOUD COMPUTING

DISTRIBUTED AND CLOUD COMPUTING
GUIDE TO RELIABLE DISTRIBUTED SYSTEMS
MANAGING DISTRIBUTED
CLOUD APPLICATIONS AND INFRASTRUCTURE
RESEARCH ANTHOLOGY ON ARCHITECTURES, FRAMEWORKS,
AND INTEGRATION STRATEGIES FOR DISTRIBUTED AND CLOUD COMPUTING
CLOUD COMPUTING AND
DISTRIBUTED SYSTEMS
CLOUD MANUFACTURING
APPLYING INTEGRATION TECHNIQUES AND METHODS IN
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ADMINISTRATION
ANNALS OF THE ASTRONOMICAL OBSERVATORY OF HARVARD COLLEGE
THE GOSPELS
DISTRIBUTED INTO MEDITATIONS FOR EVERY DAY OF THE YEAR, BY L'ABBÉ DUQUESNE
THE
OBSERVATORY
PHOTOMETRIC REVISION OF THE HARVARD PHOTOMETRY DURING THE YEARS
1891-94
PROCEEDINGS OF THE CAMBRIDGE PHILOSOPHICAL SOCIETY
LARGE SCALE NETWORK-CENTRIC
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CAMBRIDGE PHILOSOPHICAL SOCIETY
HAMID SARBAZI-AZAD
NIKOS ANTONOPOULOS
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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
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STUDENTS TAKING A DISTRIBUTED SYSTEMS COURSE EACH CHAPTER INCLUDES EXERCISES AND FURTHER READING WITH LECTURE SLIDES AND MORE AVAILABLE ONLINE

THIS BOOK DESCRIBES THE KEY CONCEPTS PRINCIPLES AND IMPLEMENTATION OPTIONS FOR CREATING HIGH ASSURANCE CLOUD COMPUTING SOLUTIONS THE GUIDE STARTS WITH A BROAD TECHNICAL OVERVIEW AND BASIC INTRODUCTION TO CLOUD COMPUTING LOOKING AT THE OVERALL ARCHITECTURE OF THE CLOUD CLIENT SYSTEMS THE MODERN INTERNET AND CLOUD COMPUTING DATA CENTERS IT THEN DELVES INTO THE CORE CHALLENGES OF SHOWING HOW RELIABILITY AND FAULT TOLERANCE CAN BE ABSTRACTED HOW THE RESULTING QUESTIONS CAN BE SOLVED AND HOW THE SOLUTIONS CAN BE LEVERAGED TO CREATE A WIDE RANGE OF PRACTICAL CLOUD APPLICATIONS THE AUTHOR S STYLE IS PRACTICAL AND THE GUIDE SHOULD BE READILY UNDERSTANDABLE WITHOUT ANY SPECIAL BACKGROUND CONCRETE EXAMPLES ARE OFTEN DRAWN FROM REAL WORLD SETTINGS TO ILLUSTRATE KEY INSIGHTS APPENDICES SHOW HOW THE MOST IMPORTANT RELIABILITY MODELS CAN BE FORMALIZED DESCRIBE THE API OF THE ISIS² PLATFORM AND OFFER MORE THAN 80 PROBLEMS AT VARYING LEVELS OF DIFFICULTY

THE EMERGENCE OF THE INTERNET OF THINGS IOT COMBINED WITH GREATER HETEROGENEITY NOT ONLY ONLINE IN CLOUD COMPUTING ARCHITECTURES BUT ACROSS THE CLOUD TO EDGE CONTINUUM IS INTRODUCING NEW CHALLENGES FOR MANAGING APPLICATIONS AND INFRASTRUCTURE ACROSS THIS CONTINUUM THE SCALE AND COMPLEXITY IS SIMPLY SO COMPLEX THAT IT IS NO LONGER REALISTIC FOR IT TEAMS TO MANUALLY FORESEE THE POTENTIAL ISSUES AND MANAGE THE DYNAMISM AND DEPENDENCIES ACROSS AN INCREASING INTER DEPENDENT CHAIN OF SERVICE PROVISION THIS OPEN ACCESS PIVOT EXPLORES THESE CHALLENGES AND OFFERS A SOLUTION FOR THE INTELLIGENT AND RELIABLE MANAGEMENT OF PHYSICAL INFRASTRUCTURE AND THE OPTIMAL PLACEMENT OF APPLICATIONS FOR THE PROVISION OF SERVICES ON DISTRIBUTED CLOUDS THIS BOOK PROVIDES A CONCEPTUAL REFERENCE MODEL FOR RELIABLE CAPACITY PROVISIONING FOR DISTRIBUTED CLOUDS AND DISCUSSES HOW DATA ANALYTICS AND MACHINE LEARNING APPLICATION AND INFRASTRUCTURE OPTIMIZATION AND SIMULATION CAN DELIVER QUALITY OF SERVICE REQUIREMENTS COST EFFICIENTLY IN THIS COMPLEX FEATURE SPACE THESE ARE ILLUSTRATED THROUGH A SERIES OF CASE STUDIES IN CLOUD COMPUTING TELECOMMUNICATIONS BIG DATA ANALYTICS AND SMART CITIES

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

CLOUD COMPUTING AND DISTRIBUTED SYSTEMS

GLOBAL NETWORKS WHICH ARE THE PRIMARY PILLARS OF THE MODERN MANUFACTURING INDUSTRY AND SUPPLY CHAINS CAN ONLY COPE WITH THE NEW CHALLENGES REQUIREMENTS AND DEMANDS WHEN SUPPORTED BY NEW COMPUTING AND INTERNET BASED TECHNOLOGIES CLOUD MANUFACTURING DISTRIBUTED COMPUTING TECHNOLOGIES FOR GLOBAL AND SUSTAINABLE MANUFACTURING INTRODUCES A NEW PARADIGM FOR SCALABLE SERVICE ORIENTED SUSTAINABLE AND GLOBALLY DISTRIBUTED MANUFACTURING SYSTEMS THE ELEVEN CHAPTERS IN THIS BOOK PROVIDE AN UPDATED OVERVIEW OF THE LATEST TECHNOLOGICAL DEVELOPMENT AND APPLICATIONS IN RELEVANT RESEARCH AREAS FOLLOWING AN INTRODUCTION TO THE ESSENTIAL FEATURES OF CLOUD COMPUTING CHAPTERS COVER A RANGE OF METHODS AND APPLICATIONS SUCH AS THE FACTORS THAT ACTUALLY AFFECT ADOPTION OF THE CLOUD COMPUTING TECHNOLOGY IN MANUFACTURING COMPANIES AND NEW GEOMETRICAL SIMPLIFICATION METHOD TO STREAM 3 DIMENSIONAL DESIGN AND MANUFACTURING DATA VIA THE INTERNET THIS IS FURTHER SUPPORTED CASE STUDIES AND REAL LIFE DATA FOR WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT WEEE REMANUFACTURING THIS COMPILATION OF UP TO DATE RESEARCH

AND LITERATURE CAN BE USED AS A TEXTBOOK OR REFERENCE FOR MECHANICAL MANUFACTURING AND COMPUTER ENGINEERING GRADUATE STUDENTS AND RESEARCHERS FOR EFFICIENT UTILIZATION DEPLOYMENT AND DEVELOPMENT OF DISTRIBUTED AND CLOUD MANUFACTURING SYSTEMS SERVICES AND APPLICATIONS

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 APPLYING INTEGRATION TECHNIQUES AND METHODS IN DISTRIBUTED SYSTEMS AND TECHNOLOGIES IS A CRITICAL SCHOLARLY PUBLICATION THAT DEFINES THE CURRENT STATE OF DISTRIBUTED SYSTEMS DETERMINES FURTHER GOALS AND PRESENTS ARCHITECTURES AND SERVICE FRAMEWORKS TO ACHIEVE HIGHLY INTEGRATED DISTRIBUTED SYSTEMS AND PRESENTS SOLUTIONS TO INTEGRATION AND EFFICIENT MANAGEMENT CHALLENGES FACED BY CURRENT AND FUTURE DISTRIBUTED SYSTEMS HIGHLIGHTING TOPICS SUCH AS MULTIMEDIA PROGRAMMING LANGUAGES AND SMART ENVIRONMENTS THIS BOOK IS IDEAL FOR SYSTEM ADMINISTRATORS INTEGRATORS DESIGNERS DEVELOPERS RESEARCHERS AND ACADEMICIANS

MASTER THE GROWING FIELD OF DISTRIBUTED AND PARALLEL COMPUTING WITH THIS ESSENTIAL GUIDE OFFERING EXPERT INSIGHTS INTO THE FUNDAMENTALS AND REAL WORLD APPLICATIONS FOR INTELLIGENT AND COLLABORATIVE SYSTEMS DISTRIBUTED COMPUTING OR RUNNING PROGRAMS ACROSS MULTIPLE COMPUTERS OVER A NETWORK IS BECOMING A POPULAR SOLUTION FOR ADDRESSING THE DEMANDS FOR INCREASED PERFORMANCE ACROSS INDUSTRIES INCLUDING SCIENTIFIC COMPUTING OIL EXPLORATION BIOTECHNOLOGY AND MEDICINE DISTRIBUTED COMPUTING ENABLES SEAMLESS COMMUNICATION AND COLLABORATION BY ALLOWING USERS FROM DIFFERENT LOCATIONS TO ACCESS AND INTERACT WITH THEIR DIGITAL TWIN SIMULTANEOUSLY DISTRIBUTED COMPUTING ENHANCES THE CAPABILITIES OF DIGITAL TWINS BY PROVIDING SCALABILITY PARALLEL PROCESSING REAL TIME DATA INTEGRATION COLLABORATION SUPPORT RESOURCE OPTIMIZATION FAULT TOLERANCE AND SECURITY FEATURES DISTRIBUTED AND PARALLEL COMPUTING EXPLORES THE FUNDAMENTALS AND INNOVATIONS IN INTELLIGENT AND DISTRIBUTED COMPUTING SYSTEMS AND APPLICATIONS INCLUDING ADAPTIVITY AND

LEARNING AGENTS AND MULTI AGENT SYSTEMS ARGUMENTATION CASE BASED REASONING AND COLLABORATIVE SYSTEMS THROUGH EXPERT INSIGHTS READERS WILL DISCOVER PROMISING REAL WORLD APPLICATIONS FOR THIS EMERGING TECHNOLOGY

LEARN TO APPLY CLOUD NATIVE PATTERNS AND PRACTICES TO DELIVER RESPONSIVE RESILIENT ELASTIC AND MESSAGE DRIVEN SYSTEMS WITH CONFIDENCE KEY FEATURES UNDERSTAND THE ARCHITECTURAL PATTERNS INVOLVED IN CLOUD NATIVE ARCHITECTURES MINIMIZE RISK BY EVOLVING YOUR MONOLITHIC APPLICATIONS INTO DISTRIBUTED CLOUD NATIVE SYSTEMS DISCOVER BEST PRACTICES FOR APPLYING CLOUD NATIVE PATTERNS TO YOUR ENTERPRISE LEVEL CLOUD APPLICATIONS BOOK DESCRIPTION BUILD SYSTEMS THAT LEVERAGE THE BENEFITS OF THE CLOUD AND APPLICATIONS FASTER THAN EVER BEFORE WITH CLOUD NATIVE DEVELOPMENT THIS BOOK FOCUSES ON ARCHITECTURAL PATTERNS FOR BUILDING HIGHLY SCALABLE CLOUD NATIVE SYSTEMS YOU WILL LEARN HOW THE COMBINATION OF CLOUD REACTIVE PRINCIPLES DEVOPS AND AUTOMATION ENABLE TEAMS TO CONTINUOUSLY DELIVER INNOVATION WITH CONFIDENCE BEGIN BY LEARNING THE CORE CONCEPTS THAT MAKE THESE SYSTEMS UNIQUE YOU WILL EXPLORE FOUNDATIONAL PATTERNS THAT TURN YOUR DATABASE INSIDE OUT TO ACHIEVE MASSIVE SCALABILITY WITH CLOUD NATIVE DATABASES YOU WILL ALSO LEARN HOW TO CONTINUOUSLY DELIVER PRODUCTION CODE WITH CONFIDENCE BY SHIFTING DEPLOYMENT AND TESTING ALL THE WAY TO THE LEFT AND IMPLEMENTING CONTINUOUS OBSERVABILITY IN PRODUCTION THERE S MORE YOU WILL ALSO LEARN HOW TO STRANGLE YOUR MONOLITH AND DESIGN AN EVOLVING CLOUD NATIVE SYSTEM BY THE END OF THE BOOK YOU WILL HAVE THE ABILITY TO CREATE MODERN CLOUD NATIVE SYSTEMS WHAT YOU WILL LEARN ENABLE MASSIVE SCALING BY TURNING YOUR DATABASE INSIDE OUT UNLEASH FLEXIBILITY VIA EVENT STREAMING LEVERAGE POLYGLOT PERSISTENCE AND CLOUD NATIVE DATABASES EMBRACE MODERN CONTINUOUS DELIVERY AND TESTING TECHNIQUES MINIMIZE RISK BY EVOLVING YOUR MONOLITHS TO CLOUD NATIVE APPLY CLOUD NATIVE PATTERNS AND SOLVE MAJOR ARCHITECTURAL PROBLEMS IN CLOUD ENVIRONMENT WHO THIS BOOK IS FOR THIS BOOK IS FOR DEVELOPERS WHO WOULD LIKE TO PROGRESS INTO BUILDING CLOUD NATIVE SYSTEMS AND ARE KEEN TO LEARN THE PATTERNS INVOLVED BASIC KNOWLEDGE OF PROGRAMMING AND CLOUD COMPUTING IS REQUIRED

THE PRACTICE OF CLOUD SYSTEM ADMINISTRATION VOLUME 2 FOCUSES ON TODAY S FASTEST

GROWING AREAS OF SYSTEM ADMINISTRATION CLOUD COMPUTING AND DEVOPS FOR THE FIRST TIME IT BRINGS TOGETHER COMPREHENSIVE KNOWLEDGE AND BEST PRACTICES FOR ADMINISTERING SYSTEMS IN THE AGE OF CLOUD COMPUTING AND FOR ARCHITECTING SCALING AND OPERATING SERVICES THAT PERFORM RELIABLY AND WELL THE NEW COMPANION VOLUME TO OUR BEST SELLING PRACTICE OF SYSTEM AND NETWORK ADMINISTRATION IT OFFERS EXPERT COVERAGE OF THESE AND MANY OTHER CRUCIAL TOPICS

A REVIEW OF ASTRONOMY VARIES

A HIGHLY ACCESSIBLE REFERENCE OFFERING A BROAD RANGE OF TOPICS AND INSIGHTS ON LARGE SCALE NETWORK CENTRIC DISTRIBUTED SYSTEMS EVOLVING FROM THE FIELDS OF HIGH PERFORMANCE COMPUTING AND NETWORKING LARGE SCALE NETWORK CENTRIC DISTRIBUTED SYSTEMS CONTINUES TO GROW AS ONE OF THE MOST IMPORTANT TOPICS IN COMPUTING AND COMMUNICATION AND MANY INTERDISCIPLINARY AREAS DEALING WITH BOTH WIRED AND WIRELESS NETWORKS THIS BOOK FOCUSES ON THE DESIGN AND PERFORMANCE ISSUES OF SUCH SYSTEMS LARGE SCALE NETWORK CENTRIC DISTRIBUTED SYSTEMS PROVIDES IN DEPTH COVERAGE RANGING FROM GROUND LEVEL HARDWARE ISSUES SUCH AS BUFFER ORGANIZATION ROUTER DELAY AND FLOW CONTROL TO THE HIGH LEVEL ISSUES IMMEDIATELY CONCERNING APPLICATION OR SYSTEM USERS INCLUDING PARALLEL PROGRAMMING MIDDLEWARE AND OS SUPPORT FOR SUCH COMPUTING SYSTEMS ARRANGED IN FIVE PARTS IT EXPLAINS AND ANALYZES COMPLEX TOPICS TO AN UNPRECEDENTED DEGREE PART 1 MULTICORE AND MANY CORE MC SYSTEMS ON CHIP PART 2 PERVASIVE UBIQUITOUS COMPUTING AND PEER TO PEER SYSTEMS PART 3 WIRELESS MOBILE NETWORKS PART 4 GRID AND CLOUD COMPUTING PART 5 OTHER TOPICS RELATED TO NETWORK CENTRIC COMPUTING AND ITS APPLICATIONS LARGE SCALE NETWORK CENTRIC DISTRIBUTED SYSTEMS IS AN INCREDIBLY USEFUL RESOURCE FOR PRACTITIONERS POSTGRADUATE STUDENTS POSTDOCS AND RESEARCHERS

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 IS AN EMERGING FIELD IN COMPUTER SCIENCE USERS ARE UTILIZING LESS OF THEIR OWN EXISTING RESOURCES WHILE INCREASING USAGE OF CLOUD RESOURCES THERE ARE MANY ADVANTAGES OF DISTRIBUTED COMPUTING OVER CENTRALIZED ARCHITECTURE WITH INCREASE IN NUMBER OF UNUSED STORAGE AND COMPUTING RESOURCES AND ADVANTAGES OF DISTRIBUTED COMPUTING RESULTED IN DISTRIBUTED CLOUD COMPUTING IN THE DISTRIBUTED CLOUD ENVIRONMENT THAT WE PROPOSE RESOURCE PROVIDERS RP COMPETE TO PROVIDE RESOURCES TO THE USERS IN THE

DISTRIBUTED CLOUD ALL THE CLOUD COMPUTING AND STORAGE SERVICES ARE OFFERED BY DISTRIBUTED RESOURCES IN THIS ARCHITECTURE RESOURCES ARE USED AND PROVIDED BY THE USERS IN A PEER TO PEER FASHION WE PROPOSE USING MULTI VALUED DISTRIBUTED HASH TABLES FOR EFFICIENT RESOURCE DISCOVERY LEVERAGING THE FACT THAT THERE ARE MANY USERS PROVIDING RESOURCES SUCH AS CPU AND MEMORY WE DEFINE THESE RESOURCES UNDER ONE KEY TO EASILY LOCATE DEVICES WITH EQUIVALENT RESOURCES WE THEN PROPOSE A NEW AUCTION MECHANISM USING A RESERVE BID FORMULATED RATIONALLY BY EACH USER FOR THE OPTIMAL ALLOCATION OF DISCOVERED RESOURCES WE HAVE EVALUATED THE PERFORMANCE OF RESOURCE DISCOVERY MECHANISMS FOR THE DISTRIBUTED CLOUD AND DISTRIBUTED CLOUD STORAGE AND COMPARED THE RESULTS WITH EXISTING DHTS PEER TO PEER CLIENTS SUCH AS VUZE AND EXPLORED THE FEASIBILITY AND EFFICIENCY OF THE PROPOSED SCHEMES IN TERMS OF RESOURCE SERVICE DISCOVERY AND ALLOCATION WE USE A SIMULTANEOUS AUCTION MECHANISM AND SELECT A SET OF WINNERS ONCE WE RECEIVE ALL CONTRIBUTIONS OR BIDS IN A REAL WORLD SCENARIO USERS REQUEST RESOURCES WITH MULTIPLE CAPABILITIES AND IN ORDER TO FIND SUCH RESOURCES WE USE A CONTRIBUTION MECHANISM WHERE SERVICE PROVIDERS WILL PROVIDE A CONTRIBUTION PRICE TO USERS FOR PROVIDING A RESOURCE USERS USE OUR PROPOSED AUCTION MECHANISM TO SELECT THE RESOURCES FROM THE SET OF RESOURCE PROVIDERS WE SHOW THAT NASH EQUILIBRIUM CAN BE ACHIEVED AND HOW WE CAN AVOID THE PROBLEM OF FREE RIDERS IN THE DISTRIBUTED CLOUD NETWORK LATENCY IS AN IMPORTANT FACTOR WHEN DECIDING WHICH RESOURCE PROVIDER TO SELECT WE USED TREEPLE A SECURE LATENCY ESTIMATION SCHEME TO OBTAIN NETWORK MEASUREMENTS IN DISTRIBUTED SYSTEMS WE DEVELOPED A MOBILE APPLICATION USING DISTRIBUTED CLOUD WHICH PRESERVES PRIVACY AND PROVIDES SECURITY FOR A USER DISTRIBUTED CLOUD IS USED FOR DEVELOPING SUCH AN APPLICATION WHERE ALL THE DATA NEEDS TO BE CLOSE TO THE USERS AND AVOIDS SINGLE POINT OF FAILURE WHICH IS THE PROBLEM WITH EXISTING CLOUD

DEVELOPMENT OF SOFTWARE PROJECTS IS A PART OF THE CURRICULUM OF UNDER GRADUATE AND POSTGRADUATE COURSES THE MAIN OBJECTIVE OF THIS BOOK IS TO EXPOSE THE STUDENTS AND PROFESSIONALS TO THE LATEST TECHNOLOGY RELEVANT THEORY AND SOFTWARE DEVELOPMENT TOOLS THIS BOOK SERVES AS A GUIDE TO DESIGN AND DEVELOP THE CLOUD COMPUTING BASED SOFTWARE PROJECTS USING DISTRIBUTED ARCHITECTURE IT CONSOLIDATES THE THEORY UPCOMING TECHNOLOGIES

AND DEVELOPMENT TOOLS FOR THE DEVELOPMENT OF TWO SOFTWARE PROJECTS OUTSTATION CLAIM MANAGEMENT SYSTEM OCMS AND RETIREMENT BENEFIT CALCULATION SYSTEM RBCS BOTH THE PROJECTS START WITH THE FEASIBILITY STUDY TO UNDERSTAND AND APPRECIATE THE PROBLEM AFTER UNDERSTANDING THE PROBLEM AND IDENTIFYING THE SUITABLE SOFTWARE HARDWARE AND NETWORK ENVIRONMENT THE PROBLEM IS FORMALLY DEPICTED USING THE ENTITY RELATIONSHIP MODEL AND DATA FLOW DIAGRAMS THIS IS FOLLOWED BY NORMALIZATION CREATION OF TABLES AND PROCEDURES IN THE BOOK ORACLE PL SQL INTERNET DEVELOPER SUITE IDS AND NET FRAMEWORK ARE USED TO DEVELOP THE FULL FLEDGED GUI BASED APPLICATIONS THE BOOK ELABORATES THE PROBLEM PROVIDING LOGIC AND INTERFACE SCREENS TO DESIGN AND DEVELOP THE PROJECTS USING ANY OTHER PROGRAMMING LANGUAGE AND GUI TOOL IN WHICH THE STUDENTS ARE COMFORTABLE WITH THE BOOK ALSO INCLUDES A CD ROM WHICH CONTAINS THE SOURCE CODES OF OCMS AND RBCS THE BOOK IS MEANT FOR THE UNDERGRADUATE AND POSTGRADUATE STUDENTS OF COMPUTER SCIENCE COMPUTER APPLICATIONS AND INFORMATION TECHNOLOGY BESIDES IT WOULD ALSO BE USEFUL TO THE PROFESSIONALS TO ENHANCE THEIR TECHNICAL SKILLS AFTER GOING THROUGH THIS BOOK THE STUDENTS PROFESSIONALS WILL BE ABLE TO WORK ON REAL LIFE PROJECTS IMPLEMENT THE SDLC IN SOFTWARE PROJECTS DESIGN THE DATA FLOW DIAGRAMS AND ENTITY RELATIONSHIP DIAGRAMS USE THE DATABASE AND NORMALIZATION IN SOFTWARE PROJECTS DO THE CORRECTIVE ADAPTIVE AND PERFECTIVE MAINTENANCE OF A SOFTWARE LEARN THE CONCEPTS RELATED TO IAAS PAAS AND SAAS OF CLOUD COMPUTING

DOREEN GALLI USES HER CONSIDERABLE ACADEMIC AND PROFESSIONAL EXPERIENCE TO BRING TOGETHER THE WORLDS OF THEORY AND PRACTICE PROVIDING LEADING EDGE SOLUTIONS TO TOMORROW'S CHALLENGES DISTRIBUTED OPERATING SYSTEMS CONCEPTS AND PRACTICE OFFERS A GOOD BALANCE OF REAL WORLD EXAMPLES AND THE UNDERLYING THEORY OF DISTRIBUTED COMPUTING THE FLEXIBLE DESIGN MAKES IT USABLE FOR STUDENTS PRACTITIONERS AND CORPORATE TRAINING THIS BOOK DESCRIBES IN DETAIL EACH MAJOR ASPECT OF DISTRIBUTED OPERATING SYSTEMS FROM A CONCEPTUAL AND PRACTICAL VIEWPOINT THE OPERATING SYSTEMS OF AMOEBA CLOUDS AND CHORUS TM THE BASE TECHNOLOGY FOR JAVAOS TM ARE UTILIZED AS EXAMPLES THROUGHOUT THE TEXT WHILE THE TECHNOLOGIES OF WINDOWS 2000 TM CORBA TM DCOM TM NFS LDAP X 500 KERBEROS RSA TM DES SSH AND NTP DEMONSTRATE REAL LIFE SOLUTIONS A SIMPLE CLIENT SERVER APPLICATION IS

INCLUDED IN THE APPENDIX TO DEMONSTRATE KEY DISTRIBUTED COMPUTING PROGRAMMING CONCEPTS THIS BOOK PROVES INVALUABLE AS A COURSE TEXT OR AS A REFERENCE BOOK FOR THOSE WHO WISH TO UPDATE AND ENHANCE THEIR KNOWLEDGE BASE A COMPANION WEBSITE PROVIDES SUPPLEMENTAL INFORMATION A BROAD RANGE OF DISTRIBUTED COMPUTING ISSUES AND CONCEPTS KERNELS IPC MEMORY MANAGEMENT OBJECT BASED OPERATING SYSTEMS DISTRIBUTED FILE SYSTEMS WITH NFS AND X 500 TRANSACTION MANAGEMENT PROCESS MANAGEMENT DISTRIBUTED SYNCHRONIZATION AND DISTRIBUTED SECURITY A MAJOR CASE STUDY OF WINDOWS 2000 TO DEMONSTRATE A REAL LIFE COMMERCIAL SOLUTION DETAIL BOXES CONTAIN IN DEPTH EXAMPLES SUCH AS COMPLEX ALGORITHMS PROJECT ORIENTED EXERCISES PROVIDING HANDS ON EXPERIENCE RELEVANT SOURCES INCLUDING CORE AND FTP SITES AS WELL AS RESEARCH PAPERS EASY REFERENCE WITH COMPLETE LIST OF ACRONYMS AND GLOSSARY TO AID READABILITY

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