## Security Part II: Auditing Database Systems

#### LEARNING OBJECTIVES

After studying this chapter, you should:

- Understand the operational problems inherent in the flatfile approach to data management that gave rise to the database approach.
- Understand the relationships among the fundamental components of the database concept.
- Recognize the defining characteristics of three database models: hierarchical, network, and relational.
- Understand the operational features and associated risks of deploying centralized, partitioned, and replicated database models in the DDP environment.
- Be familiar with the audit objectives and procedures used to test data management controls.

This chapter continues the treatment of general IT controls as described by the COSO control framework. The focus of the chapter is an Sarbanes-Oxdey compliance regarding the security and control of organization databases. The term database is used in a broad context to include two general approaches: the **flat-file model** and the **database model**. The opening section in the chapter describes flat-file data management, which is used in many older (legacy) systems that are still in operation today. Private ownership of data, which characterizes this model, is the root cause of several problems that inhibit data integration. The section then presents a conceptual overview of the database model and illustrates how problems associated with the flat-file model are resolved under this approach. The notions of entity-wide data sharing and centralized control of data lie at the heart of the database philosophy.

The second section describes the key functions and defining features of three common database models: the hierarchical, the network, and the relational models. The three models are presented from the perspective of a centralized IT function. The hierarchical and network models are called navigational databases because of their structure and inflexibility. Seen as a marked improvement over flat files, navigational databases were used in the design of many late-era legacy systems. Newer accounting information systems, however, make extensive use of

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Information Technology Auditing Jagdish Pathak,2005-08-15 An evolving agenda of Information Technology Auditing is subject of this book The author presents various current and future issues in the domain of IT Auditing in both scholarly as well as highly practice driven manner so as to make those issues clear in the mind of an IT auditor The aim of the book is not to delve deep on the technologies but the impact of these technologies on practices and procedures of IT auditors Among the topics are complex integrated information systems enterprise resource planning databases complexities of internal controls and enterprise application integration all seen from an auditor's perspective The book will serve a big purpose of support reference for an auditor dealing with the high tech environment for the first time but also for experienced auditors

**Information Technology**, 1994-12 Provides a logical framework for evaluating information technology acquisitions Incorporates a risk assessment methodology intended to reduce audit planning time and ensure that significant issues are included Intended for use in planning and conducting risk assessments of computer hardware and software telecommunications and system development acquisitions Charts and tables Glossary Strategic Information Technology Plan United States. Patent and Trademark Office, 1999 Strategic Information Technology Plan FY 1999-FY 2004 United States. Patent and Trademark Office.1998 Information Technology Control and Audit, Fifth Edition Angel R. Otero, 2018-07-27 The new fifth edition of Information Technology Control and Audit has been significantly revised to include a comprehensive overview of the IT environment including revolutionizing technologies legislation audit process governance strategy and outsourcing among others This new edition also outlines common IT audit risks procedures and involvement associated with major IT audit areas It further provides cases featuring practical IT audit scenarios as well as sample documentation to design and perform actual IT audit work Filled with up to date audit concepts tools techniques and references for further reading this revised edition promotes the mastery of concepts as well as the effective implementation and assessment of IT controls by organizations and auditors For instructors and lecturers there are an instructor s manual sample syllabi and course schedules PowerPoint lecture slides and test questions For students there are flashcards to test their knowledge of key terms and recommended further readings Go to http routledgetextbooks com textbooks 9781498752282 for more information **ECM Solutions** Bill Forquer, Peter Jelinski, Tom Jenkins, 2005 Cloud Computing with e-Science Applications Olivier Terzo, Lorenzo Mossucca, 2017-12-19 The amount of data in everyday life has been exploding This data increase has been especially significant in scientific fields where substantial amounts of data must be captured communicated aggregated stored and analyzed Cloud Computing with e Science Applications explains how cloud computing can improve data management in data heavy fields such as bioinformatics earth science and computer science The book begins with an overview of cloud models supplied by the National Institute of Standards and Technology NIST and then Discusses the challenges imposed by big data on scientific data infrastructures including security and trust

issues Covers vulnerabilities such as data theft or loss privacy concerns infected applications threats in virtualization and cross virtual machine attack Describes the implementation of workflows in clouds proposing an architecture composed of two layers platform and application Details infrastructure as a service IaaS platform as a service PaaS and software as a service SaaS solutions based on public private and hybrid cloud computing models Demonstrates how cloud computing aids in resource control vertical and horizontal scalability interoperability and adaptive scheduling Featuring significant contributions from research centers universities and industries worldwide Cloud Computing with e Science Applications presents innovative cloud migration methodologies applicable to a variety of fields where large data sets are produced The book provides the scientific community with an essential reference for moving applications to the cloud Handbook for Architects: Practical Strategies and Solutions for Architecting Enterprise Cloud Security using SECaaS and DevSecOps Ashish Mishra, 2023-04-18 A comprehensive guide to secure your future on Cloud Key Features Learn traditional security concepts in the cloud and compare data asset management with on premises Understand data asset management in the cloud and on premises Learn about adopting a DevSecOps strategy for scalability and flexibility of cloud infrastructure Book Description Cloud platforms face unique security issues and opportunities because of their evolving designs and API driven automation We will learn cloud specific strategies for securing platforms such as AWS Microsoft Azure Google Cloud Platform Oracle Cloud Infrastructure and others The book will help you implement data asset management identity and access management network security vulnerability management incident response and compliance in your cloud environment This book helps cybersecurity teams strengthen their security posture by mitigating cyber risk when targets shift to the cloud The book will assist you in identifying security issues and show you how to achieve best in class cloud security It also includes new cybersecurity best practices for daily weekly and monthly processes that you can combine with your other daily IT and security operations to meet NIST criteria This book teaches how to leverage cloud computing by addressing the shared responsibility paradigm required to meet PCI DSS ISO 27001 2 and other standards It will help you choose the right cloud security stack for your ecosystem What you will learn Understand the critical role of Identity and Access Management IAM in cloud environments Address different types of security vulnerabilities in the cloud Develop and apply effective incident response strategies for detecting responding to and recovering from security incidents Who is this book for The primary audience for this book will be the people who are directly or indirectly responsible for the cybersecurity and cloud security of the organization This includes consultants advisors influencers and those in decision making roles who are focused on strengthening the cloud security of the organization This book will also benefit the supporting staff operations and implementation teams as it will help them understand and enlighten the real picture of cloud security. The right audience includes but is not limited to Chief Information Officer CIO Chief Information Security Officer CISO Chief Technology Officer CTO Chief Risk Officer CRO Cloud Architect Cloud Security Architect and security practice team Table of Contents SECTION

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Mastering AWS Security Albert Anthony, 2017-10-26 In depth informative guide to implement and use AWS security services effectively About This Book Learn to secure your network infrastructure data and applications in AWS cloud Log monitor and audit your AWS resources for continuous security and continuous compliance in AWS cloud Use AWS managed security services to automate security Focus on increasing your business rather than being diverged onto security risks and issues with AWS security Delve deep into various aspects such as the security model compliance access management and much more to build and maintain a secure environment Who This Book Is For This book is for all IT professionals system administrators and security analysts solution architects and Chief Information Security Officers who are responsible for securing workloads in AWS for their organizations It is helpful for all Solutions Architects who want to design and implement secure architecture on AWS by the following security by design principle This book is helpful for personnel in Auditors and Project Management role to understand how they can audit AWS workloads and how they can manage security in AWS respectively If you are learning AWS or championing AWS adoption in your organization you should read this book to build security in all your workloads You will benefit from knowing about security footprint of all major AWS services for multiple domains use cases and scenarios What You Will Learn Learn about AWS Identity Management and Access control Gain knowledge to create and secure your private network in AWS Understand and secure your infrastructure in AWS Understand monitoring logging and auditing in AWS Ensure Data Security in AWS Learn to secure your applications in AWS Explore AWS Security best practices In Detail Mastering AWS Security starts with a deep dive into the fundamentals of the shared security responsibility model This book tells you how you can enable continuous security continuous auditing and continuous compliance by automating your security in AWS with the tools services and features it provides Moving on you will learn about access control in AWS for all resources You will also learn about the security of your network servers data and applications in the AWS cloud using native AWS security services By the end of this book you will understand the complete AWS Security landscape covering all aspects of end to end software and hardware security along with logging auditing and compliance of your entire IT environment in the AWS cloud Lastly the book will wrap up with AWS best practices for security Style and approach The book will take a practical approach delving into different aspects of AWS security to help you become a master of it It will focus on using native AWS security features and managed AWS services to help you achieve continuous

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Solutions Architect's Handbook Saurabh Shrivastava, Neelanjali Srivastav, 2022-01-17 Third edition out now with coverage on Generative AI clean architecture edge computing and more Key Features Turn business needs into end to end technical architectures with this practical guide Assess and overcome various challenges while updating or modernizing legacy applications Future proof your architecture with IoT machine learning and quantum computing Book DescriptionBecoming a solutions architect requires a hands on approach and this edition of the Solutions Architect s Handbook brings exactly that This handbook will teach you how to create robust scalable and fault tolerant solutions and next generation architecture designs in a cloud environment It will also help you build effective product strategies for your business and implement them from start to finish This new edition features additional chapters on disruptive technologies such as Internet of Things IoT quantum computing data engineering and machine learning It also includes updated discussions on cloud native architecture blockchain data storage and mainframe modernization with public cloud The Solutions Architect's Handbook provides an understanding of solution architecture and how it fits into an agile enterprise environment It will take you through the journey of solution architecture design by providing detailed knowledge of design pillars advanced design patterns anti patterns and the cloud native aspects of modern software design By the end of this handbook you ll have learned the techniques needed to create efficient architecture designs that meet your business requirements What you will learn Explore the various roles of a solutions architect in the enterprise landscape Implement key design principles and patterns to build high performance cost effective solutions Choose the best strategies to secure your architectures and increase their availability Modernize legacy applications with the help of cloud integration Understand how

big data processing machine learning and IoT fit into modern architecture Integrate a DevOps mindset to promote collaboration increase operational efficiency and streamline production Who this book is for This book is for software developers system engineers DevOps engineers architects and team leaders who already work in the IT industry and aspire to become solutions architect professionals Existing solutions architects who want to expand their skillset or get a better understanding of new technologies will also learn valuable new skills To get started you ll need a good understanding of the real world software development process and general programming experience in any language **Open Government and** Targeted Transparency Marcela Restrepo Hung, Sandra Elena, Estefanía Casadei, Thiago Alvim Camargo, Ezequiel Molina, Álvaro V. Ramírez Alujas, Juanita Riaño, Luciana Díaz Frers, Amon Narciso de Barros, Orazio J. Bellettini Cedeño, Sonia Tschorne Berestesky, Juan Cruz Vieyra, Nicolás Dassen, Roberto de Michele, 2012-10-30 Transparency and integrity are key factors in consolidating democratic governance and deepening the modernization of the state The Inter American Development Bank IDB has been supporting country efforts to achieve open government providing technical support and knowledge on transparency in the LAC region With the support of the Norwegian government the IDB created the Anticorruption Activities Trust Fund AAF aimed at strengthening the institutional capacity of the Bank's borrowing countries in their efforts to prevent and control corruption After four years in operation the fund has gained recognition both inside and outside the Bank as a source of innovation and best practices in terms of access to information and targeted transparency This publication compiles some of the experiences and lessons learned from five different countries Argentina Brazil Colombia Ecuador and Guatemala with direct support from the AAF The Executive's Guide to Information <u>Technology</u> John Baschab, Jon Piot, 2007-07-13 Praise for the The Executive's Guide to Information Technology This book is important reading It offers practical real world insight and pragmatic no nonsense approaches for people who have a stake in corporate IT Lynda Applegate Henry R Byers Professor of Business Administration Harvard Business School Information systems and processes are very important parts of our due diligence assessment of a company yet the jargon is often more difficult to understand than many foreign languages Baschab and Piot effectively translate IT into words and concepts that businesspeople can easily understand and act upon This book is a helpful reference guide for corporate executives and private equity groups of all types Neal Aronson Managing Partner Roark Capital Group Business success increasingly depends on effective use of IT Effective use of IT depends on the kind of in depth practical insight in this book Baschab and Piot provide a pragmatic approach to information systems investment that should be required reading for senior executives and CIOs alike Erik Brynjolfsson Schussel Professor of Management Director of the Center for Digital Business MIT This book should provide valuable guidance for management and technology consultants The Executive's Guide to Information Technology provides field proven insight on all important aspects of IT planning and execution from governance to applications to operations and infrastructure Gary I Fernandes former vice chairman EDS member of the Board of Directors

Computer Associates Baschab and Piot do a great job of laying out the fundamental issues and challenges that every IT organization faces More often than not the issues are not technical in nature but are a reflection of how the IT and business teams work together to define execute and implement new business tools The threshold issue is leadership Often it is difficult for business leaders to feel that they have the skills and perspective to provide that leadership on technical projects The Executive s Guide to Information Technology provides non technical business leaders a solid framework for engaging with their IT peers Tom Nealon Chief Information Officer J C Penney The Machine Learning Solutions Architect Handbook David Ping, 2024-04-15 Design build and secure scalable machine learning ML systems to solve real world business problems with Python and AWS Purchase of the print or Kindle book includes a free PDF eBook Key Features Go in depth into the ML lifecycle from ideation and data management to deployment and scaling Apply risk management techniques in the ML lifecycle and design architectural patterns for various ML platforms and solutions Understand the generative AI lifecycle its core technologies and implementation risks Book DescriptionDavid Ping Head of GenAI and ML Solution Architecture for global industries at AWS provides expert insights and practical examples to help you become a proficient ML solutions architect linking technical architecture to business related skills You ll learn about ML algorithms cloud infrastructure system design MLOps and how to apply ML to solve real world business problems David explains the generative AI project lifecycle and examines Retrieval Augmented Generation RAG an effective architecture pattern for generative AI applications You ll also learn about open source technologies such as Kubernetes Kubeflow for building a data science environment and ML pipelines before building an enterprise ML architecture using AWS As well as ML risk management and the different stages of AI ML adoption the biggest new addition to the handbook is the deep exploration of generative AI By the end of this book you ll have gained a comprehensive understanding of AI ML across all key aspects including business use cases data science real world solution architecture risk management and governance You ll possess the skills to design and construct ML solutions that effectively cater to common use cases and follow established ML architecture patterns enabling you to excel as a true professional in the field What you will learn Apply ML methodologies to solve business problems across industries Design a practical enterprise ML platform architecture Gain an understanding of AI risk management frameworks and techniques Build an end to end data management architecture using AWS Train large scale ML models and optimize model inference latency Create a business application using artificial intelligence services and custom models Dive into generative AI with use cases architecture patterns and RAG Who this book is for This book is for solutions architects working on ML projects ML engineers transitioning to ML solution architect roles and MLOps engineers Additionally data scientists and analysts who want to enhance their practical knowledge of ML systems engineering as well as AI ML product managers and risk officers who want to gain an understanding of ML solutions and AI risk management will also find this book useful A basic knowledge of Python AWS linear algebra probability and cloud infrastructure is required before you get started with

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