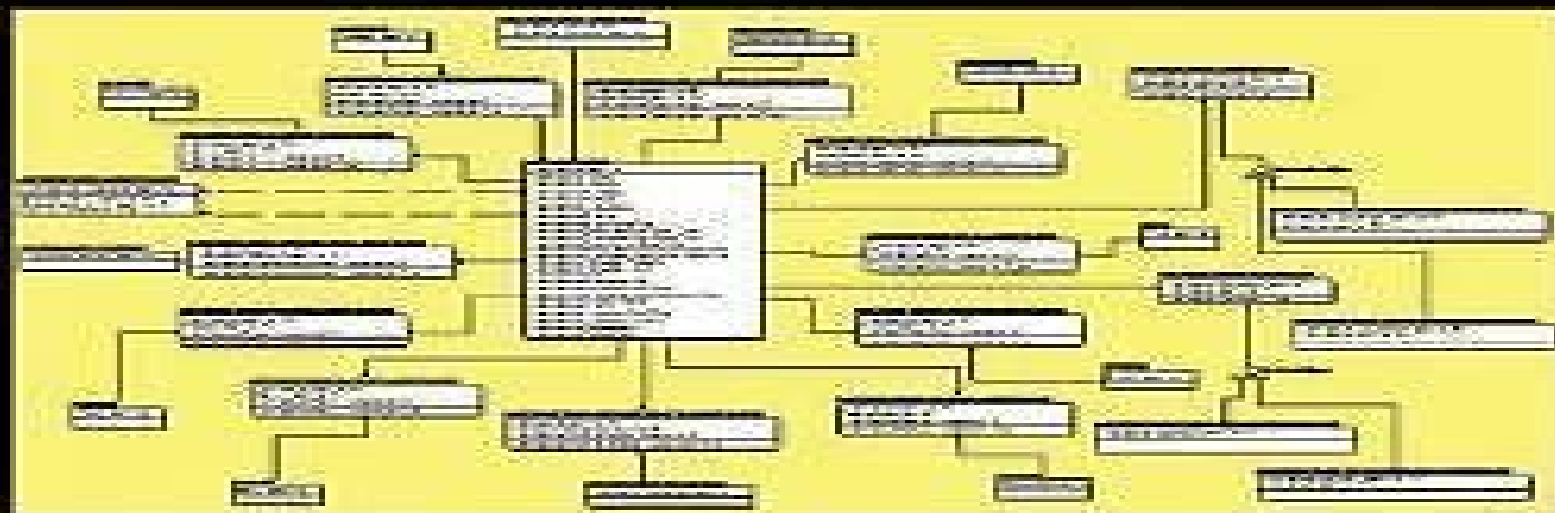


THE ENTERPRISE ARCHITECTURE SOURCEBOOK



VOLUME TWO:

DATA-CENTRIC ARCHITECTURES

Charles Baker

Architecture Sourcebook Vol2 Data Centric Architectures

Charles Babers



Architecture Sourcebook Vol2 Data Centric Architectures:

Architecture Sourcebook Vol.2: Data Centric Architectures Charles Babers,2007-02-01 The common approach to creating enterprise architectures is the development of a set of formal formatted and standardized architecture products Taken together the products provide a full description of the enterprise This volume focuses on a data centric alternative to the commonly used product centric approach As the name implies the data centric approach to architecture development centers around defining an enterprise by defining data elements that describe the components and characteristics of the enterprise These data elements can be grouped into seven different information categories organizations and organizational nodes systems and system nodes information and data interrelationships including interfaces and information exchanges operational concepts missions functions processes tasks and activities and rules *The Enterprise Architecture Sourcebook* Charles Babers,2006-07-01 This sourcebook addresses a critical shortcoming in the body of architecture related guidance and instructions available to the architecture community the lack of a single comprehensive document that describes how to execute an enterprise architecture project from conception to completion and through post development maintenance It provides the basic description of an end to end architecture process that will help users greatly shorten the time required to master the art and science of becoming an expert enterprise architect Data-centric Computing with the Netezza Architecture George S. Davidson,Jim R. Cowie,Stephen C. Helmreich,Ron A. Zacharski,Kevin W. Boyack,2006

Data-centric Computing with the Netezza Architecture ,2006 **Data Architecture** Charles Tupper,2011-05-09 Data Architecture From Zen to Reality explains the principles underlying data architecture how data evolves with organizations and the challenges organizations face in structuring and managing their data Using a holistic approach to the field of data architecture the book describes proven methods and technologies to solve the complex issues dealing with data It covers the various applied areas of data including data modelling and data model management data quality data governance enterprise information management database design data warehousing and warehouse design This text is a core resource for anyone customizing or aligning data management systems taking the Zen like idea of data architecture to an attainable reality The book presents fundamental concepts of enterprise architecture with definitions and real world applications and scenarios It teaches data managers and planners about the challenges of building a data architecture roadmap structuring the right team and building a long term set of solutions It includes the detail needed to illustrate how the fundamental principles are used in current business practice The book is divided into five sections one of which addresses the software application development process defining tools techniques and methods that ensure repeatable results Data Architecture is intended for people in business management involved with corporate data issues and information technology decisions ranging from data architects to IT consultants IT auditors and data administrators It is also an ideal reference tool for those in a higher level education process involved in data or information technology management Presents fundamental concepts of enterprise architecture

with definitions and real world applications and scenarios Teaches data managers and planners about the challenges of building a data architecture roadmapping structuring the right team and building a long term set of solutions Includes the detail needed to illustrate how the fundamental principles are used in current business practice Foundations for Architecting Data Solutions Ted Malaska, Jonathan Seidman, 2018-08-29 While many companies ponder implementation details such as distributed processing engines and algorithms for data analysis this practical book takes a much wider view of big data development starting with initial planning and moving diligently toward execution Authors Ted Malaska and Jonathan Seidman guide you through the major components necessary to start architect and develop successful big data projects Everyone from CIOs and COOs to lead architects and developers will explore a variety of big data architectures and applications from massive data pipelines to web scale applications Each chapter addresses a piece of the software development life cycle and identifies patterns to maximize long term success throughout the life of your project Start the planning process by considering the key data project types Use guidelines to evaluate and select data management solutions Reduce risk related to technology your team and vague requirements Explore system interface design using APIs REST and pub sub systems Choose the right distributed storage system for your big data system Plan and implement metadata collections for your data architecture Use data pipelines to ensure data integrity from source to final storage Evaluate the attributes of various engines for processing the data you collect *Data Architecture: A Primer for the Data Scientist* W.H. Inmon, Daniel Linstedt, 2014-11-26 Today the world is trying to create and educate data scientists because of the phenomenon of Big Data And everyone is looking deeply into this technology But no one is looking at the larger architectural picture of how Big Data needs to fit within the existing systems data warehousing systems Taking a look at the larger picture into which Big Data fits gives the data scientist the necessary context for how pieces of the puzzle should fit together Most references on Big Data look at only one tiny part of a much larger whole Until data gathered can be put into an existing framework or architecture it can't be used to its full potential Data Architecture a Primer for the Data Scientist addresses the larger architectural picture of how Big Data fits with the existing information infrastructure an essential topic for the data scientist Drawing upon years of practical experience and using numerous examples and an easy to understand framework W H Inmon and Daniel Linstedt define the importance of data architecture and how it can be used effectively to harness big data within existing systems You'll be able to Turn textual information into a form that can be analyzed by standard tools Make the connection between analytics and Big Data Understand how Big Data fits within an existing systems environment Conduct analytics on repetitive and non repetitive data Discusses the value in Big Data that is often overlooked non repetitive data and why there is significant business value in using it Shows how to turn textual information into a form that can be analyzed by standard tools Explains how Big Data fits within an existing systems environment Presents new opportunities that are afforded by the advent of Big Data Demystifies the murky waters of repetitive and non repetitive data in Big Data

Software Architecture for Big Data and the Cloud Ivan Mistrik,Rami Bahsoon,Nour Ali,Maritta Heisel,Bruce Maxim,2017-06-12 Software Architecture for Big Data and the Cloud is designed to be a single resource that brings together research on how software architectures can solve the challenges imposed by building big data software systems The challenges of big data on the software architecture can relate to scale security integrity performance concurrency parallelism and dependability amongst others Big data handling requires rethinking architectural solutions to meet functional and non functional requirements related to volume variety and velocity The book s editors have varied and complementary backgrounds in requirements and architecture specifically in software architectures for cloud and big data as well as expertise in software engineering for cloud and big data This book brings together work across different disciplines in software engineering including work expanded from conference tracks and workshops led by the editors Discusses systematic and disciplined approaches to building software architectures for cloud and big data with state of the art methods and techniques Presents case studies involving enterprise business and government service deployment of big data applications Shares guidance on theory frameworks methodologies and architecture for cloud and big data

Continuous Architecture Murat Erder,Pierre Pureur,2015-10-21 Continuous Architecture provides a broad architectural perspective for continuous delivery and describes a new architectural approach that supports and enables it As the pace of innovation and software releases increases IT departments are tasked to deliver value quickly and inexpensively to their business partners With a focus on getting software into end users hands faster the ultimate goal of daily software updates is in sight to allow teams to ensure that they can release every change to the system simply and efficiently This book presents an architectural approach to support modern application delivery methods and provide a broader architectural perspective taking architectural concerns into account when deploying agile or continuous delivery approaches The authors explain how to solve the challenges of implementing continuous delivery at the project and enterprise level and the impact on IT processes including application testing software deployment and software architecture Covering the application of enterprise and software architecture concepts to the Agile and Continuous Delivery models Explains how to create an architecture that can evolve with applications Incorporates techniques including refactoring architectural analysis testing and feedback driven development Provides insight into incorporating modern software development when structuring teams and organizations

Data Architecture: A Primer for the Data Scientist W.H. Inmon,Daniel Linstedt,Mary Levins,2019-04-30 Over the past 5 years the concept of big data has matured data science has grown exponentially and data architecture has become a standard part of organizational decision making Throughout all this change the basic principles that shape the architecture of data have remained the same There remains a need for people to take a look at the bigger picture and to understand where their data fit into the grand scheme of things Data Architecture A Primer for the Data Scientist Second Edition addresses the larger architectural picture of how big data fits within the existing information infrastructure or data

warehousing systems This is an essential topic not only for data scientists analysts and managers but also for researchers and engineers who increasingly need to deal with large and complex sets of data Until data are gathered and can be placed into an existing framework or architecture they cannot be used to their full potential Drawing upon years of practical experience and using numerous examples and case studies from across various industries the authors seek to explain this larger picture into which big data fits giving data scientists the necessary context for how pieces of the puzzle should fit together New case studies include expanded coverage of textual management and analytics New chapters on visualization and big data Discussion of new visualizations of the end state architecture

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