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Data Lake Development with Big Data provides architectural approaches to building a Data Lake. It follows a use case-based approach where practical implementation scenarios of each key component are explained.

Data Lake Development with Big Data [Book]

A Data Lake is a highly scalable platform for storing huge volumes of multistructured data from disparate sources with centralized data management services. This book explores the potential of Data Lakes and explores architectural

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approaches to building data lakes that ingest, index, manage, and analyze massive amounts of data using batch and real-time processing frameworks.

Data Lake Development with Big Data

Plug in disparate data sources: Unlike a data warehouse that can only ingest structured data, a Hadoop-powered Data Lake has an inherent ability to ingest multi-structured and massive datasets from disparate sources. This means that the Data Lake can store literally any type of data such as multimedia, binary, XML, logs, sensor data, social chatter, and so on.

Key benefits of Data Lake - Data Lake Development with Big ...

The process of obtaining data into the Data Lake's Intake Tier. An high-level overview of the various External Data Sources from which the data can be

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acquired, and the variety of data that can be ingested. The key functionalities that can be implemented as part of the Data Intake Tier. The various data intake modes

Data Intake - Data Lake Development with Big Data

The Need for Data Lake - Data Lake Development with Big Data [Book]
Chapter 1. The Need for Data Lake. In this chapter, we will understand the rationale behind building a Data Lake in an organization that has huge data assets. The following topics will be covered in this chapter:

1. The Need for Data Lake - Data Lake Development with Big ...

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access to all data lake development with big data provides architectural approaches to building a data lake it follows a use case based approach where

Data Lake Development With Big Data [PDF, EPUB EBOOK]

Data Lake Development with Big Data by Pradeep Pasupuleti, Beulah Salome Purra Get Data Lake Development with Big Data now with O'Reilly online learning. O'Reilly members experience live online training, plus books, videos, and digital content from 200+ publishers.

Table of Contents - Data Lake Development with Big Data [Book]

The main challenge with a data lake architecture is that raw data is stored with no oversight of the contents. For a data lake to make data usable, it needs to have defined mechanisms to catalog, and secure

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data. Without these elements, data cannot be found, or trusted resulting in a “data swamp.” Meeting the needs of wider audiences require data lakes to have governance, semantic consistency, and access controls.

What is a data lake?

HDFS is extremely good at handling the diversity of data in a big data lake. IoT big data, video and audio files and text records – with HDFS you can store every data type. If we compare, Apache Cassandra is good for storing IoT big data, while MongoDB – texts. HDFS supports a wide range of processing techniques. HDFS is one of the elements of Apache Hadoop ecosystem that includes multiple other components such as Hadoop MapReduce, Hadoop YARN, Apache Hive, Apache HBase, etc.

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Data Lake Implementation: 2 Alternative Approaches

Data Lake Development with Big Data (English Edition) (Planet Shopping Europe francophone: Boutique Kindle - ASIN: b015q7i3mi).

Data Lake Development with Big Data (English Edition ...

The Data Lake provides easy accessibility to the data in its raw and transformed form; this increases data sharing across the organization where internal or external data consumers can make use of the data. The process of providing the data from the Data Lake to downstream systems is referred to as Data Provisioning; it provides data consumers with secure access to the data assets in the Data Lake and allows them to source this data.

Data Provisioning and metadata - Data

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Lake Development ...

In this article by Pradeep Pasupuleti and Beulah Salome Purra, authors of the book *Data Lake Development with Big Data*, we will see the set of formal processes that ensure that data within the enterprise meets the following expectations:

Acquired from reliable sources and meets pre-defined quality standards. Is fit for use for further processing.

Data Governance in a Data Lake | Packt Hub

Data Lake is a key part of Cortana Intelligence, meaning that it works with Azure Synapse Analytics, Power BI, and Data Factory for a complete cloud big data and advanced analytics platform that helps you with everything from data preparation to doing interactive analytics on large-scale datasets. Data Lake Analytics gives you power to act on all your data with

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optimized data virtualization of your relational sources such as Azure SQL Server on virtual machines, Azure SQL Database, and Azure ...

Data Lake | Microsoft Azure

Chances are most big data budget requests for 2017 were turned down by the CIO/CEO, or put on hold, due to the inability to deliver a compelling business use case or direct sponsorship from business teams. One of the most successful big data use cases in recent years was around a big data platform driven by a data lake. The idea was to store raw data to open up decentralized data access to business teams, democratizing data to create an opportunity by which all levels – from CEO to shop ...

How to Successfully Implement a Big

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Data/Data Lake Project ...

Data Lake is a key part of Cortana Intelligence, meaning that it works with Azure Synapse Analytics, Power BI and Data Factory for a complete cloud big data and advanced analytics platform that helps you with everything from data preparation to doing interactive analytics on large-scale data sets. Data Lake Analytics gives you the power to act on all your data with optimised data virtualisation of your relational sources, such as Azure SQL Server on virtual machines, Azure SQL Database and ...

Data Lake | Microsoft Azure

Data Lake Development with Big Data provides architectural approaches to building a Data Lake. It follows a use case-based approach where practical implementation scenarios of each key component are explained. It also helps you

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understand how these use cases are implemented in a Data Lake. The chapters are organized in a way that mimics the ...

[Amazon.com: Data Lake Development with Big Data eBook ...](#)

For decades, various types of data models have been a mainstay in data warehouse development activities. This “charting the data lake” blog series examines how these models have evolved and how they need to continue to evolve to take an active role in defining and managing data lake environments.

[Charting the data lake: Rethinking data models for data ...](#)

The Data Lake architecture is built and store every single bit of data in an unstructured and raw format approaching to big data. Initial incoming data were not classified when it was stored in the origin.

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As a result, data preparation is eliminated. A data lake is thus unstructured compared to a conservative data warehouse.

Explore architectural approaches to building Data Lakes that ingest, index, manage, and analyze massive amounts of data using Big Data technologies About This Book Comprehend the intricacies of architecting a Data Lake and build a data strategy around your current data architecture Efficiently manage vast amounts of data and deliver it to multiple applications and systems with a high degree of performance and scalability Packed with industry best practices and use-case scenarios to get you up-and-running Who This Book Is For This book is for architects and senior managers who are responsible for building a strategy

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around their current data architecture, helping them identify the need for a Data Lake implementation in an enterprise context. The reader will need a good knowledge of master data management and information lifecycle management, and experience of Big Data technologies.

What You Will Learn Identify the need for a Data Lake in your enterprise context and learn to architect a Data Lake Learn to build various tiers of a Data Lake, such as data intake, management, consumption, and governance, with a focus on practical implementation scenarios Find out the key considerations to be taken into account while building each tier of the Data Lake Understand Hadoop-oriented data transfer mechanism to ingest data in batch, micro-batch, and real-time modes Explore various data integration needs and learn how to perform data enrichment and data transformations using Big Data

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technologies Enable data discovery on the Data Lake to allow users to discover the data Discover how data is packaged and provisioned for consumption Comprehend the importance of including data governance disciplines while building a Data Lake In Detail A Data Lake is a highly scalable platform for storing huge volumes of multistructured data from disparate sources with centralized data management services. This book explores the potential of Data Lakes and explores architectural approaches to building data lakes that ingest, index, manage, and analyze massive amounts of data using batch and real-time processing frameworks. It guides you on how to go about building a Data Lake that is managed by Hadoop and accessed as required by other Big Data applications. This book will guide readers (using best practices) in developing Data Lake's

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capabilities. It will focus on architect data governance, security, data quality, data lineage tracking, metadata management, and semantic data tagging. By the end of this book, you will have a good understanding of building a Data Lake for Big Data. Style and approach Data Lake Development with Big Data provides architectural approaches to building a Data Lake. It follows a use case-based approach where practical implementation scenarios of each key component are explained. It also helps you understand how these use cases are implemented in a Data Lake. The chapters are organized in a way that mimics the sequential data flow evidenced in a Data Lake.

Explore architectural approaches to building Data Lakes that ingest, index, manage, and analyze massive amounts of data using Big Data technologies

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This Book- Comprehend the intricacies of architecting a Data Lake and build a data strategy around your current data architecture- Efficiently manage vast amounts of data and deliver it to multiple applications and systems with a high degree of performance and scalability- Packed with industry best practices and use-case scenarios to get you up-and-running

Who This Book Is For This book is for architects and senior managers who are responsible for building a strategy around their current data architecture, helping them identify the need for a Data Lake implementation in an enterprise context. The reader will need a good knowledge of master data management and information lifecycle management, and experience of Big Data technologies.

What You Will Learn- Identify the need for a Data Lake in your enterprise context and learn to architect a Data Lake- Learn to build

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In Detail A Data Lake is a highly scalable platform for storing huge volumes of multistructured data from disparate sources with centralized data

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management services. This book explores the potential of Data Lakes and explores architectural approaches to building data lakes that ingest, index, manage, and analyze massive amounts of data using batch and real-time processing frameworks. It guides you on how to go about building a Data Lake that is managed by Hadoop and accessed as required by other Big Data applications. This book will guide readers (using best practices) in developing Data Lake's capabilities. It will focus on architect data governance, security, data quality, data lineage tracking, metadata management, and semantic data tagging. By the end of this book, you will have a good understanding of building a Data Lake for Big Data. Style and approach Data Lake Development with Big Data provides architectural approaches to building a Data Lake. It follows a use case-based approach

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where practical implementation scenarios of each key component are explained. It also helps you understand how these use cases are implemented in a Data Lake. The chapters are organized in a way that mimics the sequential data flow evidenced in a Data Lake.

The data lake is a daring new approach for harnessing the power of big data technology and providing convenient self-service capabilities. But is it right for your company? This book is based on discussions with practitioners and executives from more than a hundred organizations, ranging from data-driven companies such as Google, LinkedIn, and Facebook, to governments and traditional corporate enterprises. You'll learn what a data lake is, why enterprises need one, and how to build one successfully with the best practices in this book. Alex Gorelik,

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CTO and founder of Waterline Data, explains why old systems and processes can no longer support data needs in the enterprise. Then, in a collection of essays about data lake implementation, you'll examine data lake initiatives, analytic projects, experiences, and best practices from data experts working in various industries. Get a succinct introduction to data warehousing, big data, and data science Learn various paths enterprises take to build a data lake Explore how to build a self-service model and best practices for providing analysts access to the data Use different methods for architecting your data lake Discover ways to implement a data lake from experts in different industries

Use this practical guide to successfully handle the challenges encountered when designing an enterprise data lake and learn

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industry best practices to resolve issues. When designing an enterprise data lake you often hit a roadblock when you must leave the comfort of the relational world and learn the nuances of handling non-relational data. Starting from sourcing data into the Hadoop ecosystem, you will go through stages that can bring up tough questions such as data processing, data querying, and security. Concepts such as change data capture and data streaming are covered. The book takes an end-to-end solution approach in a data lake environment that includes data security, high availability, data processing, data streaming, and more. Each chapter includes application of a concept, code snippets, and use case demonstrations to provide you with a practical approach. You will learn the concept, scope, application, and starting point. What You'll Learn Get to know data lake

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architecture and design principles
Implement data capture and streaming strategies
Implement data processing strategies in Hadoop
Understand the data lake security framework and availability model
Who This Book Is For
Big data architects and solution architects

A practical guide to implementing your enterprise data lake using Lambda Architecture as the base
About This Book
Build a full-fledged data lake for your organization with popular big data technologies using the Lambda architecture as the base
Delve into the big data technologies required to meet modern day business strategies
A highly practical guide to implementing enterprise data lakes with lots of examples and real-world use-cases
Who This Book Is For
Java developers and architects who would like to implement a data lake for their

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enterprise will find this book useful. If you want to get hands-on experience with the Lambda Architecture and big data technologies by implementing a practical solution using these technologies, this book will also help you. What You Will Learn Build an enterprise-level data lake using the relevant big data technologies Understand the core of the Lambda architecture and how to apply it in an enterprise Learn the technical details around Sqoop and its functionalities Integrate Kafka with Hadoop components to acquire enterprise data Use flume with streaming technologies for stream-based processing Understand stream-based processing with reference to Apache Spark Streaming Incorporate Hadoop components and know the advantages they provide for enterprise data lakes Build fast, streaming, and high-performance applications using ElasticSearch Make

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your data ingestion process consistent across various data formats with configurability Process your data to derive intelligence using machine learning algorithms In Detail The term "Data Lake" has recently emerged as a prominent term in the big data industry. Data scientists can make use of it in deriving meaningful insights that can be used by businesses to redefine or transform the way they operate. Lambda architecture is also emerging as one of the very eminent patterns in the big data landscape, as it not only helps to derive useful information from historical data but also correlates real-time data to enable business to take critical decisions. This book tries to bring these two important aspects — data lake and lambda architecture—together. This book is divided into three main sections. The first introduces you to the concept of data lakes, the importance of data lakes in

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enterprises, and getting you up-to-speed with the Lambda architecture. The second section delves into the principal components of building a data lake using the Lambda architecture. It introduces you to popular big data technologies such as Apache Hadoop, Spark, Sqoop, Flume, and ElasticSearch. The third section is a highly practical demonstration of putting it all together, and shows you how an enterprise data lake can be implemented, along with several real-world use-cases. It also shows you how other peripheral components can be added to the lake to make it more efficient. By the end of this book, you will be able to choose the right big data technologies using the lambda architectural patterns to build your enterprise data lake. Style and approach

The book takes a pragmatic approach, showing ways to leverage big data technologies and lambda architecture to

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build an enterprise-level data lake.

Enterprises are experimenting with using Hadoop to build Big Data Lakes, but many projects are stalling or failing because the approaches that worked at Internet companies have to be adopted for the enterprise. This practical handbook guides managers and IT professionals from the initial research and decision-making process through planning, choosing products, and implementing, maintaining, and governing the modern data lake. You'll explore various approaches to starting and growing a Data Lake, including Data Warehouse off-loading, analytical sandboxes, and "Data Puddles." Author Alex Gorelik shows you methods for setting up different tiers of data, from raw untreated landing areas to carefully managed and summarized data. You'll learn how to enable self-service to help

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users find, understand, and provision data; how to provide different interfaces to users with different skill levels; and how to do all of that in compliance with enterprise data governance policies.

Organizations invest incredible amounts of time and money obtaining and then storing big data in data stores called data lakes.

But how many of these organizations can actually get the data back out in a useable form? Very few can turn the data lake into an information gold mine. Most wind up with garbage dumps. Data Lake

Architecture will explain how to build a useful data lake, where data scientists and data analysts can solve business challenges and identify new business opportunities. Learn how to structure data lakes as well as analog, application, and text-based data ponds to provide maximum business value. Understand the

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role of the raw data pond and when to use an archival data pond. Leverage the four key ingredients for data lake success: metadata, integration mapping, context, and metaprocess. Bill Inmon opened our eyes to the architecture and benefits of a data warehouse, and now he takes us to the next level of data lake architecture.

This IBM Redguide™ publication looks back on the key decisions that made the data lake successful and looks forward to the future. It proposes that the metadata management and governance approaches developed for the data lake can be adopted more broadly to increase the value that an organization gets from its data. Delivering this broader vision, however, requires a new generation of data catalogs and governance tools built on open standards that are adopted by a multi-vendor ecosystem of data platforms and tools.

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Work is already underway to define and deliver this capability, and there are multiple ways to engage. This guide covers the reasons why this new capability is critical for modern businesses and how you can get value from it.

As data management and integration continue to evolve rapidly, storing all your data in one place, such as a data warehouse, is no longer scalable. In the very near future, data will need to be distributed and available for several technological solutions. With this practical book, you'll learn how to migrate your enterprise from a complex and tightly coupled data landscape to a more flexible architecture ready for the modern world of data consumption. Executives, data architects, analytics teams, and compliance and governance staff will learn how to build a modern scalable data

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landscape using the Scaled Architecture, which you can introduce incrementally without a large upfront investment. Author Piethein Strengholt provides blueprints, principles, observations, best practices, and patterns to get you up to speed. Examine data management trends, including technological developments, regulatory requirements, and privacy concerns Go deep into the Scaled Architecture and learn how the pieces fit together Explore data governance and data security, master data management, self-service data marketplaces, and the importance of metadata

Get a 360-degree view of how the journey of data analytics solutions has evolved from monolithic data stores and enterprise data warehouses to data lakes and modern data warehouses. You will This book includes comprehensive coverage of how:

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To architect data lake analytics solutions by choosing suitable technologies available on Microsoft Azure The advent of microservices applications covering ecommerce or modern solutions built on IoT and how real-time streaming data has completely disrupted this ecosystem These data analytics solutions have been transformed from solely understanding the trends from historical data to building predictions by infusing machine learning technologies into the solutions Data platform professionals who have been working on relational data stores, non-relational data stores, and big data technologies will find the content in this book useful. The book also can help you start your journey into the data engineer world as it provides an overview of advanced data analytics and touches on data science concepts and various artificial intelligence and machine learning

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technologies available on Microsoft Azure. What Will You Learn You will understand the: Concepts of data lake analytics, the modern data warehouse, and advanced data analytics Architecture patterns of the modern data warehouse and advanced data analytics solutions Phases—such as Data Ingestion, Store, Prep and Train, and Model and Serve—of data analytics solutions and technology choices available on Azure under each phase In-depth coverage of real-time and batch mode data analytics solutions architecture Various managed services available on Azure such as Synapse analytics, event hubs, Stream analytics, CosmosDB, and managed Hadoop services such as Databricks and HDInsight Who This Book Is For Data platform professionals, database architects, engineers, and solution architects

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