

## Breakthroughs That Build Your Dream Amazon S3

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data pipelines review raw data sources transform data and understand how it is consumed by various stakeholders the book also covers data governance populating data marts and warehouses and how a data lakehouse fits into the architecture you will explore aws tools for analysis sql queries visualizations and learn how ai and machine learning generate insights from data later chapters cover transactional data lakes data meshes and building a complete aws data platform by the end you will be able to confidently implement data engineering pipelines on aws email sign up and proof of purchase required what you will learn seamlessly ingest streaming data with amazon kinesis data firehose optimize denormalize and join datasets with aws glue studio use amazon s3 events to trigger a lambda process to transform a file load data into a redshift data warehouse and run queries with ease visualize and explore data using amazon quicksight extract sentiment data from a dataset using amazon comprehend build transactional data lakes using apache iceberg with amazon athena learn how a data mesh approach can be implemented on aws who this book is for this book is for data engineers data analysts and data architects who are new to aws and looking to extend their skills to the aws cloud anyone new to data engineering who wants to learn about the foundational concepts while gaining practical experience with common data engineering services on aws will also find this book useful a basic understanding of big data related topics and python coding will help you get the most out of this book but it is not a prerequisite familiarity with the aws console and core services will also help you follow along

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an in depth overview of an emerging field that brings together high performance computing big data processing and deep llearning over the last decade the exponential explosion of data known as big data has changed the way we understand and harness the power of data the emerging field of high performance big data computing which brings together high performance computing hpc big data processing and deep learning aims to meet the challenges posed by large scale data processing this book offers an in depth overview of high performance big data computing and the associated technical issues approaches and solutions the book covers basic concepts and necessary background knowledge including data processing frameworks storage systems and hardware capabilities offers a detailed discussion of technical issues in accelerating big data computing in terms of computation communication memory and storage codesign workload characterization and benchmarking and system deployment and management and surveys benchmarks and workloads for evaluating big data middleware systems it presents a detailed discussion of big data computing systems and applications with high performance networking computing and storage technologies including state of the art designs for data processing and storage systems finally the book considers some advanced research topics in high performance big data computing including designing high performance deep learning over big data dlobd stacks and hpc cloud technologies

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organizations with a mature finops practice can decentralize cost ownership to developer teams and encourage cross functional collaboration between business finance and technology enabling speed innovation and business growth you ll focus on structuring your organization to form the right finops team including a cloud center of excellence and learn how to implement practical cost savings measures with aws tools to optimize costs in both the short as well as long term by the end of this cloud finops book you ll be ready to implement a successful cloud finops practice for your organization to get the best value from the aws cloud for your workloads what you will learn use aws services to monitor and govern your cost usage and spend implement automation to streamline cost optimization operations design the best architecture that fits your workload and optimizes on data transfer optimize costs by maximizing efficiency with elasticity strategies implement cost optimization levers to save on compute and storage costs bring value to your organization by identifying strategies to create and govern cost metrics who this book is for this book is for enterprise architects cloud architects cfo's cto's product managers finance managers and finops practitioners looking to optimize their use of the cloud this book guides you through tools strategies and frameworks to minimize costs allowing your business to realize sustainable financial benefits and efficiently use cloud resources

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