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Expert guidance on how
to use Amazon Web

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Services to supercharge
your digital services
business In Transforming
Your Business with AWS:
Getting the Most Out of
Using AWS to Modernize
and Innovate Your

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Digital Services,
renowned international
consultant and sought-
after speaker Philippe
Abdoulaye delivers a
practical and accessible
guide to using Amazon

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Web Services to
modernize your business
and the digital services
you offer. This book
provides you with a
concrete action plan to
build a team capable of

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creating world-class
digital services and
long-term competitive
advantages. You'll
discover what separates
merely average digital
service organizations

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from the truly
outstanding, as well as
how moving to the cloud
will enable your
business to deliver your
services faster, better,
and more efficiently.

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This book also includes:
A comprehensive overview
of building industry-
leading digital service
delivery capabilities,
including discussions of
the development

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lifecycle, best
practices, and AWS-based
development
infrastructure
Explanations of how to
implement a digital
business transformation

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strategy An exploration
of key roles like DevOps
Continuous Delivery,
Continuous Deployment,
Continuous Integration,
Automation, and
DevSecOps Hands-on

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treatments of AWS
application management
tools, including Elastic
Beanstalk, CodeDeploy,
and CodePipeline Perfect
for executives,
managers, and other

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business leaders
attempting to clarify
and implement their
organization's digital
vision and strategy,
Transforming Your
Business with AWS is a

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must-read reference that
answers the “why” and,
most importantly, the
“how,” of digital
transformation with
Amazon Web Services.
Apply cloud design

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patterns to overcome
real-world challenges by
building scalable,
secure, highly
available, and cost-
effective solutions Key
FeaturesApply AWS Well-

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Architected Framework
concepts to common real-
world use
casesUnderstand how to
select AWS patterns and
architectures that are
best suited to your

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needsEnsure the security
and stability of a
solution without
impacting cost or
performanceBook
Description One of the
most popular cloud

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platforms in the world,
Amazon Web Services
(AWS) offers hundreds of
services with thousands
of features to help you
build scalable cloud
solutions; however, it

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can be overwhelming to navigate the vast number of services and decide which ones best suit your requirements.

Whether you are an application architect,

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enterprise architect,
developer, or operations
engineer, this book will
take you through AWS
architectural patterns
and guide you in
selecting the most

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appropriate services for
your projects. AWS for
Solutions Architects is
a comprehensive guide
that covers the
essential concepts that
you need to know for

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designing well-
architected AWS
solutions that solve the
challenges organizations
face daily. You'll get
to grips with AWS
architectural principles

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and patterns by
implementing best
practices and
recommended techniques
for real-world use
cases. The book will
show you how to enhance

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operational efficiency,
security, reliability,
performance, and cost-
effectiveness using real-
world examples. By the
end of this AWS book,
you'll have gained a

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clear understanding of
how to design AWS
architectures using the
most appropriate
services to meet your
organization's
technological and

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business requirements.

What you will

learnRationalize the

selection of AWS as the

right cloud provider for

your organizationChoose

the most appropriate

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service from AWS for a
particular use case or
projectImplement change
and operations
managementFind out the
right resource type and
size to balance

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performance and
efficiencyDiscover how
to mitigate risk and
enforce security,
authentication, and
authorizationIdentify
common business

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scenarios and select the
right reference
architectures for
themWho this book is for
This book is for
application and
enterprise architects,

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developers, and
operations engineers who
want to become well-
versed with AWS
architectural patterns,
best practices, and
advanced techniques to

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build scalable, secure,
highly available, and
cost-effective solutions
in the cloud. Although
existing AWS users will
find this book most
useful, it will also

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help potential users
understand how
leveraging AWS can
benefit their
organization.

Do your product
dashboards look funky?

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Are your quarterly reports stale? Is the data set you're using broken or just plain wrong? These problems affect almost every team, yet they're

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usually addressed on an ad hoc basis and in a reactive manner. If you answered yes to these questions, this book is for you. Many data engineering teams today

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face the "good pipelines, bad data" problem. It doesn't matter how advanced your data infrastructure is if the data you're piping is bad. In this

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book, Barr Moses, Lior
Gavish, and Molly
Vorwerck, from the data
observability company
Monte Carlo, explain how
to tackle data quality
and trust at scale by

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leveraging best
practices and
technologies used by
some of the world's most
innovative companies.
Build more trustworthy
and reliable data

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pipelines Write scripts
to make data checks and
identify broken
pipelines with data
observability Learn how
to set and maintain data
SLAs, SLIs, and SLOs

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Develop and lead data
quality initiatives at
your company Learn how
to treat data services
and systems with the
diligence of production
software Automate data

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lineage graphs across
your data ecosystem

Build anomaly detectors
for your critical data
assets

This book comprises
select peer-reviewed

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proceedings of the
international conference
on Research in
Intelligent and
Computing in Engineering
(RICE 2020) held at Thu
Dau Mot University,

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Vietnam. The volume primarily focuses on latest research and advances in various computing models such as centralized, distributed, cluster,

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grid, and cloud
computing. Practical
examples and real-life
applications of wireless
sensor networks, mobile
ad hoc networks, and
internet of things, data

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mining and machine learning are also covered in the book. The contents aim to enable researchers and professionals to tackle the rapidly growing

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needs of network
applications and the
various complexities
associated with them.

Research in Intelligent
and Computing in
Engineering

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Design and secure highly
available, cost-
effective data streaming
applications with Amazon
Kinesis

How Leading
Organizations Have

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Successfully Adapted to
Disruption
Query structured,
unstructured, or semi-
structured data in
seconds without setting
up any infrastructure

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Architectural Leadership
for Competitive Business
Value

Using Containers,
Functions, and Data to
Build Next-Generation
Applications

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Solutions Architect's
Handbook

**Design scalable big data
solutions using Hadoop,
Spark, and AWS cloud native
services Key FeaturesBuild
data pipelines that require**

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**distributed processing
capabilities on a large volume
of dataDiscover the security
features of EMR such as data
protection and granular
permission
managementExplore best**

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**practices and optimization
techniques for building data
analytics solutions in Amazon
EMRBook Description Amazon
EMR, formerly Amazon Elastic
MapReduce, provides a
managed Hadoop cluster in**

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Amazon Web Services (AWS)
that you can use to implement
batch or streaming data
pipelines. By gaining
expertise in Amazon EMR, you
can design and implement
data analytics pipelines with

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persistent or transient EMR clusters in AWS. This book is a practical guide to Amazon EMR for building data pipelines. You'll start by understanding the Amazon EMR architecture, cluster

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**nodes, features, and
deployment options, along
with their pricing. Next, the
book covers the various big
data applications that EMR
supports. You'll then focus on
the advanced configuration of**

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**EMR applications, hardware,
networking, security,
troubleshooting, logging, and
the different SDKs and APIs it
provides. Later chapters will
show you how to implement
common Amazon EMR use**

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**cases, including batch ETL
with Spark, real-time
streaming with Spark
Streaming, and handling
UPSERT in S3 Data Lake with
Apache Hudi. Finally, you'll
orchestrate your EMR jobs**

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**and strategize on-premises
Hadoop cluster migration to
EMR. In addition to this, you'll
explore best practices and
cost optimization techniques
while implementing your data
analytics pipeline in EMR. By**

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the end of this book, you'll be able to build and deploy Hadoop- or Spark-based apps on Amazon EMR and also migrate your existing on-premises Hadoop workloads to AWS. What you will

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**learnExplore Amazon EMR
features, architecture, Hadoop
interfaces, and EMR
StudioConfigure, deploy, and
orchestrate Hadoop or Spark
jobs in productionImplement
the security, data governance,**

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**and monitoring capabilities of
EMRBuild applications for
batch and real-time streaming
data analytics
solutionsPerform interactive
development with a persistent
EMR cluster and**

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**NotebookOrchestrate an EMR
Spark job using AWS Step
Functions and Apache
AirflowWho this book is for
This book is for data
engineers, data analysts, data
scientists, and solution**

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**architects who are interested
in building data analytics
solutions with the Hadoop
ecosystem services and
Amazon EMR. Prior
experience in either Python
programming, Scala, or the**

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**Java programming language
and a basic understanding of
Hadoop and AWS will help you
make the most out of this
book.**

**We are in a frenetic and a
convoluted digital age. Every**

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organisation strives to transform its business to stay competitive in this exponentially growing digital world. Digital transformation became pervasive and ubiquitous in all business

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ventures. This new norm of constant transformation requires architecting our business and underlying technology stacks rapidly. Establishing agile business architecture frameworks are

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**fundamental requirements to
achieve successful digital
transformation outcomes. In
this book, I attempt to share
my knowledge and experience
using a rigorous yet agile
architectural method. My aim**

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**is to add accelerated value to
the broader business
architecture and digital
transformation communities
by focusing on the practical
aspect with minimal emphasis
on the theoretical aspect. The**

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**content in this book is based
on my architectural thought
leadership experience gained
in multiple large business and
enterprise architecture
initiatives, focusing on
business capabilities, digital**

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**transformation initiatives, and
enterprise modernisation
engagements, reflecting hard
lessons learned in these
applied settings. In this book I
attempt to redefine the role of
business architects as**

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primary leaders for digital transformation programs. The content reflects my experience and observations from the field. As a caveat, this book is not based on theories in the traditional

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business architecture

**textbooks which may conflict
with my experience. My beta
readers found this as a unique
guide reflecting reality from
the field. Hope it adds new
insights for your role in the**

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**business digital
transformation initiatives.
Data Engineering with
AWS Learn how to design and
build cloud-based data
transformation pipelines using
AWSPackt Publishing Ltd**

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**Imagine if your process
manufacturing plants were
running so well that your
production, safety,
environmental, and
profitability targets were being
met so that your subject**

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**matter experts could focus on
data-driven business
improvements. Through
proper use and analysis of
your existing operations data,
your company can become an
industry leader and reward**

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**your stakeholders. Written in
an engaging and easily
understandable manner, this
book demonstrates a step-by-
step process of how an
organization can effectively
utilize technology and make**

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**the necessary culture changes
to achieve operational
excellence. You will see how
several industry-leading
companies have used an
effective real-time data
infrastructure for mission-**

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critical business use cases.

**The book also addresses
challenges involved, such as
effectively integrating
operational (OT) data with
business (IT) systems to
enable a more proactive,**

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**predictive management model
for a fleet of process plants.
Some of the things you will
take away: Learn how a real-
time data infrastructure
enables transformation of raw
sensor data into**

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**contextualized information for
operational insights and
business process
improvement. Understand
how reusing the same
operational data for multiple
use cases significantly**

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**impacts fleet management,
profitability, and asset
stewardship. See how a
simple digital unit template
representing production flows
can be repeatedly used to
identify critical inefficiencies**

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**in plant operations. Discover
best practices of deploying
real-time situational
awareness alerts and
predictive analytics. Realize
how to transform your
organization into a data-driven**

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**culture for continuous
sustainable improvement.
Find out how leading
companies integrate
operations data with business
intelligence and predictive
analytics tools in a corporate**

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on-premises or cloud-enabled environment. Learn how industry-leading companies have imaginatively used a real-time data infrastructure to improve yields, reduce cycle times, and slash operating

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**costs. This book is targeted
for process industries
production and operations
leadership, senior engineers,
IT management, CIOs, and
service providers to those
industries. Academics will**

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**benefit from latest data
analysis strategies. This book
guides readers to use the
best, results-proven
approaches to ensure
operational excellence.
Driving Digital Transformation**

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through Data and AI

**Your comprehensive
reference guide to learning
about AWS Glue and its
features**

**Accelerate Your Journey to AI
Theory and Practice**

Page 84/340

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Cloud Native

**A beginner's guide to learning
and implementing Amazon
EMR for building data
analytics solutions**

**Derive strategic insights from
unstructured data with**

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Amazon Textract and Amazon Comprehend

*Prepare to achieve AWS Machine
Learning Specialty certification with
this complete, up-to-date guide and
take the exam with confidence Key
FeaturesGet to grips with core*

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*machine learning algorithms along
with AWS implementation Build model
training and inference pipelines and
deploy machine learning models to the
Amazon Web Services (AWS)
cloud Learn all about the AWS services
available for machine learning in*

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*order to pass the MLS-C01 examBook
Description The AWS Certified
Machine Learning Specialty exam tests
your competency to perform machine
learning (ML) on AWS infrastructure.
This book covers the entire exam
syllabus using practical examples to*

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help you with your real-world machine learning projects on AWS. Starting with an introduction to machine learning on AWS, you'll learn the fundamentals of machine learning and explore important AWS services for artificial intelligence (AI). You'll

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then see how to prepare data for machine learning and discover a wide variety of techniques for data manipulation and transformation for different types of variables. The book also shows you how to handle missing data and outliers and takes you

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through various machine learning tasks such as classification, regression, clustering, forecasting, anomaly detection, text mining, and image processing, along with the specific ML algorithms you need to know to pass the exam. Finally, you'll explore model

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evaluation, optimization, and deployment and get to grips with deploying models in a production environment and monitoring them. By the end of this book, you'll have gained knowledge of the key challenges in machine learning and

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the solutions that AWS has released for each of them, along with the tools, methods, and techniques commonly used in each domain of AWS ML. What you will learn Understand all four domains covered in the exam, along with types of questions, exam

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duration, and scoring Become well-versed with machine learning terminologies, methodologies, frameworks, and the different AWS services for machine learning Get to grips with data preparation and using AWS services for batch and real-time

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*data processing Explore the built-in
machine learning algorithms in AWS
and build and deploy your own
models Evaluate machine learning
models and tune
hyperparameters Deploy machine
learning models with the AWS*

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*Who this book is for
This AWS book is for professionals
and students who want to prepare for
and pass the AWS Certified Machine
Learning Specialty exam or gain
deeper knowledge of machine learning
with a special focus on AWS.*

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Beginner-level knowledge of machine learning and AWS services is necessary before getting started with this book.

This book is an introduction to social data analytics along with its challenges and opportunities in the age

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of Big Data and Artificial Intelligence. It focuses primarily on concepts, techniques and methods for organizing, curating, processing, analyzing, and visualizing big social data: from text to image and video analytics. It provides novel techniques

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in storytelling with social data to facilitate the knowledge and fact discovery. The book covers a large body of knowledge that will help practitioners and researchers in understanding the underlying concepts, problems, methods, tools and

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techniques involved in modern social data analytics. It also provides real-world applications of social data analytics, including: Sales and Marketing, Influence Maximization, Situational Awareness, customer success and Segmentation, and

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*performance analysis of the industry.
It provides a deep knowledge in social
data analytics by comprehensively
classifying the current state of
research, by describing in-depth
techniques and methods, and by
highlighting future research*

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directions. Lecturers will find a wealth of material to choose from for a variety of courses, ranging from undergraduate courses in data science to graduate courses in data analytics. Every industry will be positively affected by blockchain and AI

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technology at some point. However, blockchain is a misunderstood technology within the publishing realm. The scholarly publishing industry can significantly improve the flow of research, drive down costs, and introduce new efficiencies in the

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publishing industry with these new technologies. The scholarly publishing industry is in its early days of the digital transformation, and blockchain and AI technology could play a major role in this. However, the industry has been resistant to change.

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These reasons include but are not limited to staying with legacy systems, cost of new platforms, changing cultures, and understanding and adopting new technologies. With proper research and information provided, the publishing industry can

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*adopt these technologies for beneficial
advancements and the generation of a
bright future. Transforming Scholarly
Publishing With Blockchain
Technologies and AI explores the
changing landscape of scholarly
publishing and how blockchain*

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technologies and AI are slowly being integrated and used within the industry. This book covers both the benefits and challenges of implementing technology and provides both cases and new developments. Topics highlighted include business

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model developments, new efficiencies in scholarly publishing, blockchain in research libraries, knowledge discovery, and blockchain in academic publishing. This book is a valuable reference tool for publishers, IT specialists, technologists, publishing

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*vendors, researchers, academicians,
and students who are interested in how
blockchain technologies and AI are
transforming and developing a
modern scholarly publishing industry.
From fundamentals and design
patterns to the different strategies for*

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*creating secure and reliable
architectures in AWS cloud, learn
everything you need to become a
successful solutions architect*
*Endorsements "For new or existing
solutions architects looking to keep
their skills sharp in the cloud era, this*

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book hits all the key areas." -Rajesh Sheth, GM, Messaging and Streaming, AWS "...the go-to guide for understanding various functions in the age of cloud computing." -Rohan Karmarkar, Director, Solutions Architecture, AWS "...you will find

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*very important nuggets of knowledge
that will help you be a successful
solutions architect, and open up a new
world of infinite possibilities!"*

*-Kamal Arora, Senior Manager,
Solutions Architecture, AWS Book
Description Becoming a solutions*

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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

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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

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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

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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-

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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 learnExplore the various roles of a

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*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*

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*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*

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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

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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

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experience in any language.

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QuickSight*

Handbook of E-Tourism

*Develop stunning data visualizations
and machine learning-driven insights
with Amazon QuickSight*

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***AWS Certified Data Analytics Study
Guide with Online Labs***

***Effectively monitor your AWS
infrastructure to optimize resource
allocation, detect anomalies, and set
automated actions***

Associate (SAA-C03) Exam

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*AWS Certified Solutions Architect
Study Guide*

Work through interesting
real-life business use cases
to uncover valuable insights
from unstructured text using
AWS AI services Key

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FeaturesGet to grips with
AWS AI services for NLP and
find out how to use them to
gain strategic insightsRun
Python code to use Amazon
Textract and Amazon
Comprehend to accelerate

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outcomes Understand how
you can integrate human-in-
the-loop for custom NLP use
cases with Amazon A2I Book
Description Natural language
processing (NLP) uses

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machine learning to extract information from unstructured data. This book will help you to move quickly from business questions to high-performance models in production. To start with,

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you'll understand the importance of NLP in today's business applications and learn the features of Amazon Comprehend and Amazon Textract to build NLP models using Python and Jupyter

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Notebooks. The book then shows you how to integrate AI in applications for accelerating business outcomes with just a few lines of code. Throughout the book, you'll cover use cases

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such as smart text search, setting up compliance and controls when processing confidential documents, real-time text analytics, and much more to understand various NLP scenarios. You'll

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deploy and monitor scalable
NLP models in production for
real-time and batch
requirements. As you
advance, you'll explore
strategies for including
humans in the loop for

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different purposes in a document processing workflow. Moreover, you'll learn best practices for auto-scaling your NLP inference for enterprise traffic.

Whether you're new to ML or

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an experienced practitioner,
by the end of this NLP book,
you'll have the confidence to
use AWS AI services to build
powerful NLP applications.
What you will learnAutomate
various NLP workflows on

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AWS to accelerate business
outcomes Use Amazon
Textract for text, tables, and
handwriting recognition from
images and PDF files Gain
insights from unstructured
text in the form of sentiment

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analysis, topic modeling, and
more using Amazon

ComprehendSet up end-to-
end document processing
pipelines to understand the
role of humans in the
loopDevelop NLP-based

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intelligent search solutions
with just a few lines of
code>Create both real-time
and batch document
processing pipelines using
PythonWho this book is for If
you're an NLP developer or

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data scientist looking to get started with AWS AI services to implement various NLP scenarios quickly, this book is for you. It will show you how easy it is to integrate AI in applications with just a

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few lines of code. A basic understanding of machine learning (ML) concepts is necessary to understand the concepts covered.

Experience with Jupyter notebooks and Python will be

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helpful.

How can organizations
complete a major business
model transformation and
how can leaders successfully
guide their business through
this radical shift? As markets

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are constantly transformed by new technologies and disruptor competitors, once successful business models designed to function in a different time now struggle as the mainstream changes.

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This book is the guide for organizations looking to turn downward trends into upward momentum and gain an edge on the competition. Now in its second edition, this book offers practical

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advice on how to understand the fit of an existing business model and reconstruct it with a forward-thinking approach. New illustrative case studies of global organizations which have

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boldly transformed offer
examples for change,
including SAP, Netflix and
Daimler. Business
transformation is presented
as a leadership challenge
and methods to realize and

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implement opportunities for
innovation company-wide
are discussed in detail.

Radical Business Model

Transformation is essential
reading for business leaders,
transformation experts and

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MBA students interested in ensuring that their business model is future-proof and can withstand the new proliferation of innovations set to transform the business landscape.

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Discover how to build a cloud-based data warehouse at petabyte-scale that is burstable and built to scale for end-to-end analytical solutions Key Features Discover how to

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translate familiar data
warehousing concepts into
Redshift implementation Use
impressive Redshift features
to optimize development,
productionizing, and
operations processes Find out

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how to use advanced features such as concurrency scaling, Redshift Spectrum, and federated queries

Book Description Amazon Redshift is a fully managed, petabyte-scale AWS cloud data

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warehousing service. It enables you to build new data warehouse workloads on AWS and migrate on-premises traditional data warehousing platforms to Redshift. This book on

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Amazon Redshift starts by focusing on Redshift architecture, showing you how to perform database administration tasks on Redshift. You'll then learn how to optimize your data

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warehouse to quickly execute complex analytic queries against very large datasets. Because of the massive amount of data involved in data warehousing, designing your

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database for analytical processing lets you take full advantage of Redshift's columnar architecture and managed services. As you advance, you'll discover how to deploy fully automated

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and highly scalable extract, transform, and load (ETL) processes, which help minimize the operational efforts that you have to invest in managing regular ETL pipelines and ensure the

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timely and accurate
refreshing of your data
warehouse. Finally, you'll
gain a clear understanding of
Redshift use cases, data
ingestion, data
management, security, and

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scaling so that you can build a scalable data warehouse platform. By the end of this Redshift book, you'll be able to implement a Redshift-based data analytics solution and have understood the

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best practice solutions to
commonly faced problems.
What you will learn Use
Amazon Redshift to build
petabyte-scale data
warehouses that are agile at
scale Integrate your data

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warehousing solution with a data lake using purpose-built features and services on AWSBuild end-to-end analytical solutions from data sourcing to consumption with the help of

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useful recipesLeverage
Redshift's comprehensive
security capabilities to meet
the most demanding
business requirementsFocus
on architectural insights and
rationale when using

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analytical recipes Discover
best practices for working
with big data to operate a
fully managed solution Who
this book is for This book is
for anyone involved in
architecting, implementing,

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and optimizing an Amazon Redshift data warehouse, such as data warehouse developers, data analysts, database administrators, data engineers, and data scientists. Basic knowledge

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of data warehousing,
database systems, and cloud
concepts and familiarity with
Redshift will be beneficial.
Build efficient data lakes that
can scale to virtually
unlimited size using AWS

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Glue Key Features Learn to
work with AWS Glue to
overcome typical
implementation challenges
in data lakes Create and
manage serverless ETL
pipelines that can scale to

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manage big data Written by
AWS Glue community
members, this practical
guide shows you how to
implement AWS Glue in no
time Book Description
Organizations these days

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have gravitated toward services such as AWS Glue that undertake undifferentiated heavy lifting and provide serverless Spark, enabling you to create and manage data

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takes in a serverless fashion.
This guide shows you how
AWS Glue can be used to
solve real-world problems
along with helping you learn
about data processing, data
integration, and building

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data lakes. Beginning with AWS Glue basics, this book teaches you how to perform various aspects of data analysis such as ad hoc queries, data visualization, and real-time analysis using

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this service. It also provides a walk-through of CI/CD for AWS Glue and how to shift left on quality using automated regression tests. You'll find out how data security aspects such as

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access control, encryption, auditing, and networking are implemented, as well as getting to grips with useful techniques such as picking the right file format, compression, partitioning,

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and bucketing. As you advance, you'll discover AWS Glue features such as crawlers, Lake Formation, governed tables, lineage, DataBrew, Glue Studio, and custom connectors. The

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concluding chapters help you to understand various performance tuning, troubleshooting, and monitoring options. By the end of this AWS book, you'll be able to create, manage,

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troubleshoot, and deploy ETL pipelines using AWS Glue.

What you will learn Apply various AWS Glue features to manage and create data lakes Use Glue DataBrew and Glue Studio for data

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preparation Optimize data layout in cloud storage to accelerate analytics workloads Manage metadata including database, table, and schema definitions Secure your data during

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access control, encryption,
auditing, and networking
Monitor AWS Glue jobs to
detect delays and loss of
data Integrate Spark ML and
SageMaker with AWS Glue to
create machine learning

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models Who this book is for
This book is for ETL
developers, data engineers,
and data analysts who want
to understand how AWS Glue
can help you solve your
business problems. Basic

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knowledge of AWS data
services is assumed.

Serverless Analytics with
Amazon Athena

A Roadmap

AWS for Solutions Architects

Transforming Scholarly

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Publishing With Blockchain
Technologies and AI

Specialty DAS-C01 Exam

Data Lakes For Dummies

Effective Business

Intelligence with QuickSight

Get more from your data with Amazon

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Athena's ease-of-use, interactive performance, and pay-per-query pricing Key Features Explore the promising capabilities of Amazon Athena and Athena's Query Federation SDK Use Athena to prepare data for common machine learning activities Cover best practices for

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setting up connectivity between your application and Athena and security considerations

Book Description

Amazon Athena is an interactive query service that makes it easy to analyze data in Amazon S3 using SQL, without needing to manage any infrastructure. This book begins with an overview of

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the serverless analytics experience offered by Athena and teaches you how to build and tune an S3 Data Lake using Athena, including how to structure your tables using open-source file formats like Parquet. You'll learn how to build, secure, and connect to a data lake with Athena and

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Lake Formation. Next, you'll cover key tasks such as ad hoc data analysis, working with ETL pipelines, monitoring and alerting KPI breaches using CloudWatch Metrics, running customizable connectors with AWS Lambda, and more. Moving on, you'll work through easy integrations,

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troubleshooting and tuning common Athena issues, and the most common reasons for query failure. You will also review tips to help diagnose and correct failing queries in your pursuit of operational excellence. Finally, you'll explore advanced concepts such as Athena Query Federation and Athena

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ML to generate powerful insights without needing to touch a single server. By the end of this book, you'll be able to build and use a data lake with Amazon Athena to add data-driven features to your app and perform the kind of ad hoc data analysis that often precedes many of

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today's ML modeling exercises. What you will learn
Secure and manage the cost of querying your data
Use Athena ML and User Defined Functions (UDFs) to add advanced features to your reports
Write your own Athena Connector to integrate with a custom data source
Discover your datasets on

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S3 using AWS Glue CrawlersIntegrate
Amazon Athena into your
applicationsSetup Identity and Access
Management (IAM) policies to limit
access to tables and databases in
Glue Data CatalogAdd an Amazon
SageMaker Notebook to your Athena
queriesGet to grips with using Athena

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for ETL pipelines Who this book is for
Business intelligence (BI) analysts,
application developers, and system
administrators who are looking to
generate insights from an ever-
growing sea of data while controlling
costs and limiting operational burden,
will find this book helpful. Basic SQL

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knowledge is expected to make the most out of this book.

Explore real-world examples of issues with systems and find ways to resolve them using Amazon CloudWatch as a monitoring service Key

Features Become well-versed with monitoring fundamentals such as

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understanding the building blocks and architecture of networking Learn how to ensure your applications never face downtime Get hands-on with observing serverless applications and services Book Description CloudWatch is Amazon's monitoring and observability service, designed to help

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those in the IT industry who are interested in optimizing resource utilization, visualizing operational health, and eventually increasing infrastructure performance. This book helps IT administrators, DevOps engineers, network engineers, and solutions architects to make optimum

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use of this cloud service for effective infrastructure productivity. You'll start with a brief introduction to monitoring and Amazon CloudWatch and its core functionalities. Next, you'll get to grips with CloudWatch features and their usability. Once the book has helped you develop your foundational

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knowledge of CloudWatch, you'll be able to build your practical skills in monitoring and alerting various Amazon Web Services, such as EC2, EBS, RDS, ECS, EKS, DynamoDB, AWS Lambda, and ELB, with the help of real-world use cases. As you progress, you'll also learn how to use

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CloudWatch to detect anomalous behavior, set alarms, visualize logs and metrics, define automated actions, and rapidly troubleshoot issues.

Finally, the book will take you through monitoring AWS billing and costs. By the end of this book, you'll be capable of making decisions that enhance your

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infrastructure performance and
maintain it at its peak. What you will
learnUnderstand the meaning and
importance of monitoringExplore the
components of a basic monitoring
systemUnderstand the functions of
CloudWatch Logs, metrics, and
dashboardsDiscover how to collect

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different types of metrics from
EC2Configure Amazon EventBridge to
integrate with different AWS
servicesGet up to speed with the
fundamentals of observability and the
AWS services used for
observabilityFind out about the role
Infrastructure As Code (IaC) plays in

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monitoring Gain insights into how
billing works using different
CloudWatch features Who this book is
for This book is for developers,
DevOps engineers, site reliability
engineers, or any IT individual with
hands-on intermediate-level
experience in networking, cloud

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computing, and infrastructure management. A beginner-level understanding of AWS and application monitoring will also be helpful to grasp the concepts covered in the book more effectively.

In the past few years, going cloud native has been a big advantage for

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many companies. But it's a tough technique to get right, especially for enterprises with critical legacy systems. This practical hands-on guide examines effective architecture, design, and cultural patterns to help you transform your organization into a cloud native enterprise—whether

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you're moving from older architectures or creating new systems from scratch. By following Wealth Grid, a fictional company, you'll understand the challenges, dilemmas, and considerations that accompany a move to the cloud. Technical managers and architects will learn

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best practices for taking on a successful company-wide transformation. Cloud migration consultants Pini Reznik, Jamie Dobson, and Michelle Gienow draw patterns from the growing community of expert practitioners and enterprises that have successfully built cloud

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native systems. You'll learn what works and what doesn't when adopting cloud native—including how this transition affects not just your technology but also your organizational structure and processes. You'll learn: What cloud native means and why enterprises are

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so interested in it Common barriers
and pitfalls that have affected other
companies (and how to avoid them)
Context-specific patterns for a
successful cloud native transformation
How to implement a safe, evolutionary
cloud native approach How companies
addressed root causes and

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misunderstandings that hindered their progress Case studies from real-world companies that have succeeded with cloud native transformations

AI may be the greatest opportunity of our time, with the potential to add nearly \$16 trillion to the global economy over the next decade. But so

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far, adoption has been much slower than anticipated, or so headlines may lead you to believe. With this practical guide, business leaders will discover where they are in their AI journey and learn the steps necessary to successfully scale AI throughout their organization. Authors Rob Thomas

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and Paul Zikopoulos from IBM introduce C-suite executives and business professionals to the AI Ladder—a unified, prescriptive approach to help them understand and accelerate the AI journey. Complete with real-world examples and real-life experiences, this book explores AI

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drivers, value, and opportunity, as well as the adoption challenges organizations face. Understand why you can't have AI without an information architecture (IA) Appreciate how AI is as much a cultural change as it is a technological one Collect data and make it simple

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and accessible, regardless of where it lives Organize data to create a business-ready analytics foundation Analyze data, and build and scale AI with trust and transparency Infuse AI throughout your entire business and create intelligent workflows Recipes for building modern data

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warehousing solutions

The Machine Learning Solutions

Architect Handbook

Design your cloud infrastructure by
implementing DevOps, containers, and
Amazon Web Services

Radical Business Model

Transformation

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Digital Transformation Strategies

A Practical Guide to Delivering Data

Science and Machine Learning

Products

Cloud Native Transformation

Take a dive into data lakes “Data

lakes” is the latest buzz word in

the world of data storage,

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management, and analysis. Data Lakes For Dummies decodes and demystifies the concept and helps you get a straightforward answer the question: "What exactly is a data lake and do I need one for my business?" Written for an

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audience of technology decision makers tasked with keeping up with the latest and greatest data options, this book provides the perfect introductory survey of these novel and growing features of the information landscape. It

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explains how they can help your business, what they can (and can't) achieve, and what you need to do to create the lake that best suits your particular needs. With a minimum of jargon, prolific tech author and business intelligence

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consultant Alan Simon explains how data lakes differ from other data storage paradigms. Once you've got the background picture, he maps out ways you can add a data lake to your business systems; migrate existing

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*information and switch on the
fresh data supply; clean up the
product; and open channels to the
best intelligence software for to
interpreting what you've stored.
Understand and build data lake
architecture Store, clean, and*

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*synchronize new and existing data
Compare the best data lake
vendors Structure raw data and
produce usable analytics
Whatever your business, data
lakes are going to form ever more
prominent parts of the*

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*information universe every
business should have access to.
Dive into this book to start
exploring the deep competitive
advantage they make
possible—and make sure your
business isn't left standing on the*

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This handbook provides an authoritative and truly comprehensive overview both of the diverse applications of information and communication technologies (ICTs) within the

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travel and tourism industry and of e-tourism as a field of scientific inquiry that has grown and matured beyond recognition.

Leading experts from around the world describe cutting-edge ideas and developments, present key

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concepts and theories, and discuss the full range of research methods. The coverage accordingly encompasses everything from big data and analytics to psychology, user behavior, online marketing,

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*supply chain and operations
management, smart business
networks, policy and regulatory
issues - and much, much more.
The goal is to provide an
outstanding reference that
summarizes and synthesizes*

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current knowledge and establishes the theoretical and methodological foundations for further study of the role of ICTs in travel and tourism. The handbook will meet the needs of researchers and students in various disciplines

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*as well as industry professionals.
As with all volumes in Springer's
Major Reference Works program,
readers will benefit from access to
a continually updated online
version.*

This book constitutes the post-

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*conference proceedings of the
22nd International Conference on
Data Analytics and Management
in Data Intensive Domains,
DAMDID/RCDL 2020, held in
Voronezh, Russia, in October
2020*. The 16 revised full papers*

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and two keynotes were carefully reviewed and selected from 60 submissions. The papers are organized in the following topical sections: data Integration, conceptual models and ontologies; data management in semantic

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*web; data analysis in medicine;
data analysis in astronomy;
information extraction from text. **
*The conference was held virtually
due to the COVID-19 pandemic.
The missing expert-led manual for
the AWS ecosystem — go from*

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*foundations to building data
engineering pipelines effortlessly
Key Features Learn about common
data architectures and modern
approaches to generating value
from big data Explore AWS tools
for ingesting, transforming, and*

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*consuming data, and for
orchestrating pipelines Learn how
to architect and implement data
lakes and data lakehouses for big
data analytics from a data lakes
expert Book Description Written
by a Senior Data Architect with*

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over twenty-five years of experience in the business, Data Engineering for AWS is a book whose sole aim is to make you proficient in using the AWS ecosystem. Using a thorough and hands-on approach to data, this

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book will give aspiring and new data engineers a solid theoretical and practical foundation to succeed with AWS. As you progress, you'll be taken through the services and the skills you need to architect and implement

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data pipelines on AWS. You'll begin by reviewing important data engineering concepts and some of the core AWS services that form a part of the data engineer's toolkit. You'll then architect a data pipeline, review raw data sources,

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transform the data, and learn how the transformed data is used by various data consumers. You'll also learn about populating data marts and data warehouses along with how a data lakehouse fits into the picture. Later, you'll be

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introduced to AWS tools for analyzing data, including those for ad-hoc SQL queries and creating visualizations. In the final chapters, you'll understand how the power of machine learning and artificial intelligence can be

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used to draw new insights from data. By the end of this AWS book, you'll be able to carry out data engineering tasks and implement a data pipeline on AWS independently. What you will learn

Understand data engineering

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*concepts and emerging
technologies 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*

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*transform a fileRun complex SQL
queries on data lake data using
Amazon AthenaLoad data into a
Redshift data warehouse and run
queriesCreate a visualization of
your data using Amazon
QuickSightExtract sentiment data*

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*from a dataset using Amazon
Comprehend 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*

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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

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topics and Python coding will help you get the most out of this book but it's not a prerequisite.

Familiarity with the AWS console and core services will also help you follow along.

Kick-start your career as a

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Le Customer

*solutions architect by learning
architecture design principles and
strategies*

*Create machine learning
platforms to run solutions in an
enterprise setting*

The AI Ladder

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*Enterprise Artificial Intelligence
Transformation*

*The definitive guide to passing the
MLS-C01 exam on the very first
attempt*

*Serverless ETL and Analytics with
AWS Glue*

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This practical guide provides over 70 self-contained recipes to help you creatively solve common AWS challenges you'll encounter on your cloud journey. If you're comfortable with rudimentary scripting and general cloud concepts, this cookbook

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provides what you need to address foundational tasks and create high-level capabilities. Authors John Culkin and Mike Zazon share real-world examples that incorporate best practices. Each recipe includes a diagram to visualize the components. Code is provided so that you can

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safely execute in an AWS account to ensure solutions work as described. From there, you can customize the code to help construct an application or fix an existing problem. Each recipe also includes a discussion to provide context, explain the approach, and challenge you to explore the

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possibilities further. Go beyond theory and learn the details you need to successfully build on AWS. The recipes help you: Redact personal identifiable information (PII) from text using Amazon Comprehend Automate password rotation for Amazon RDS databases Use VPC Reachability

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Analyzer to verify and troubleshoot
network paths Lock down Amazon
Simple Storage Service (S3) buckets
Analyze AWS Identity and Access
Management policies Autoscale a
containerized service
Enterprise Artificial Intelligence
Transformation AI is everywhere.

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From doctor's offices to cars and even refrigerators, AI technology is quickly infiltrating our daily lives. AI has the ability to transform simple tasks into technological feats at a human level. This will change the world, plain and simple. That's why AI mastery is such a sought-after skill for tech

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professionals. Author Rashed Haq is a subject matter expert on AI, having developed AI and data science strategies, platforms, and applications for Publicis Sapient's clients for over 10 years. He shares that expertise in the new book, Enterprise Artificial Intelligence Transformation. The first

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of its kind, this book grants technology leaders the insight to create and scale their AI capabilities and bring their companies into the new generation of technology. As AI continues to grow into a necessary feature for many businesses, more and more leaders are interested in harnessing the

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technology within their own organizations. In this new book, leaders will learn to master AI fundamentals, grow their career opportunities, and gain confidence in machine learning. Enterprise Artificial Intelligence Transformation covers a wide range of topics, including: Real-

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world AI use cases and examples
Machine learning, deep learning, and
semantic modeling Risk management
of AI models AI strategies for
development and expansion AI Center
of Excellence creating and
management If you're an industry,
business, or technology professional

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that wants to attain the skills needed to grow your machine learning capabilities and effectively scale the work you're already doing, you'll find what you need in Enterprise Artificial Intelligence Transformation.

Explore Kinesis managed services such as Kinesis Data Streams, Kinesis

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Data Analytics, Kinesis Data Firehose, and Kinesis Video Streams with the help of practical use cases Key Features Get well versed with the capabilities of Amazon Kinesis Explore the monitoring, scaling, security, and deployment patterns of various Amazon Kinesis services Learn how

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other Amazon Web Services and third-party applications such as Splunk can be used as destinations for Kinesis dataBook Description Amazon Kinesis is a collection of secure, serverless, durable, and highly available purpose-built data streaming services. This data streaming service provides APIs

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and client SDKs that enable you to produce and consume data at scale. Scalable Data Streaming with Amazon Kinesis begins with a quick overview of the core concepts of data streams, along with the essentials of the AWS Kinesis landscape. You'll then explore the requirements of the use case

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shown through the book to help you get started and cover the key pain points encountered in the data stream life cycle. As you advance, you'll get to grips with the architectural components of Kinesis, understand how they are configured to build data pipelines, and delve into the

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applications that connect to them for consumption and processing. You'll also build a Kinesis data pipeline from scratch and learn how to implement and apply practical solutions. Moving on, you'll learn how to configure Kinesis on a cloud platform. Finally, you'll learn how other AWS services

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can be integrated into Kinesis. These services include Redshift, Dynamo Database, AWS S3, Elastic Search, and third-party applications such as Splunk. By the end of this AWS book, you'll be able to build and deploy your own Kinesis data pipelines with Kinesis Data Streams (KDS), Kinesis

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Data Firehose (KFH), Kinesis Video Streams (KVS), and Kinesis Data Analytics (KDA). What you will learnGet to grips with data streams, decoupled design, and real-time stream processingUnderstand the properties of KFH that differentiate it from other Kinesis servicesMonitor

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and scale KDS using CloudWatch
metricsSecure KDA with identity and
access management (IAM)Deploy
KVS as infrastructure as code
(IaC)Integrate services such as
Redshift, Dynamo Database, and
Splunk into KinesisWho this book is for
This book is for solutions architects,

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developers, system administrators, data engineers, and data scientists looking to evaluate and choose the most performant, secure, scalable, and cost-effective data streaming technology to overcome their data ingestion and processing challenges on AWS. Prior knowledge of cloud

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architectures on AWS, data streaming technologies, and architectures is expected.

Leading tech companies such as Netflix, Amazon and Uber use data science and machine learning at scale in their core business processes, whereas most traditional companies

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struggle to expand their machine learning projects beyond a small pilot scope. This book enables organizations to truly embrace the benefits of digital transformation by anchoring data and AI products at the core of their business. It provides executives with the essential tools and

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concepts to establish a data and AI portfolio strategy as well as the organizational setup and agile processes that are required to deliver machine learning products at scale. Key consideration is given to advancing the data architecture and governance, balancing stakeholder

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needs and breaking organizational silos through new ways of working. Each chapter includes templates, common pitfalls and global case studies covering industries such as insurance, fashion, consumer goods, finance, manufacturing and automotive. Covering a holistic

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perspective on strategy, technology, product and company culture, Driving Digital Transformation through Data and AI guides the organizational transformation required to get ahead in the age of AI.

Simplify Big Data Analytics with Amazon EMR

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Transforming Your Business with AWS
Scalable Data Streaming with Amazon
Kinesis

Data Analytics and Management in
Data Intensive Domains

How to Alleviate Digital Transformation
Debt

The Enterprise Big Data Lake

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Data Engineering with AWS

Build highly secure and scalable machine learning platforms to support the fast-paced adoption of machine learning solutions

Key Features Explore different ML tools and frameworks to solve large-scale machine learning challenges in the cloud

Build an efficient data science environment for data

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exploration, model building, and model training Learn how to implement bias detection, privacy, and explainability in ML model development Book Description When equipped with a highly scalable machine learning (ML) platform, organizations can quickly scale the delivery of ML products for faster business value realization. There

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is a huge demand for skilled ML solutions architects in different industries, and this handbook will help you master the design patterns, architectural considerations, and the latest technology insights you'll need to become one. You'll start by understanding ML fundamentals and how ML can be applied to solve real-world business

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problems. Once you've explored a few leading problem-solving ML algorithms, this book will help you tackle data management and get the most out of ML libraries such as TensorFlow and PyTorch. Using open source technology such as Kubernetes/Kubeflow to build a data science environment and ML pipelines will

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be covered next, before moving on to building an enterprise ML architecture using Amazon Web Services (AWS). You'll also learn about security and governance considerations, advanced ML engineering techniques, and how to apply bias detection, explainability, and privacy in ML model development. And finally, you'll get

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acquainted with AWS AI services and their applications in real-world use cases. By the end of this book, you'll be able to design and build an ML platform to support common use cases and architecture patterns like a true professional. What you will learn Apply ML methodologies to solve business problems Design a practical enterprise ML

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*platform architecture Implement MLOps for
ML workflow automation 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 an AI service and
a custom ML model Use AWS services to
detect data and model bias and explain*

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models Who this book is for This book is for data scientists, data engineers, cloud architects, and machine learning enthusiasts who want to become machine learning solutions architects. You'll need basic knowledge of the Python programming language, AWS, linear algebra, probability, and networking concepts before you get

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started with this handbook.

*Build interactive dashboards and
storytelling reports at scale with the cloud-
native BI tool that integrates embedded
analytics and ML-powered insights
effortlessly* **Key Features** *Explore Amazon
QuickSight, manage data sources, and build
and share dashboards* **Learn best practices**

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from an AWS certified big data solutions architect Manage and monitor dashboards using the QuickSight API and other AWS services such as Amazon CloudTrailBook Description Amazon Quicksight is an exciting new visualization that rivals PowerBI and Tableau, bringing several exciting features to the table – but sadly,

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there aren't many resources out there that can help you learn the ropes. This book seeks to remedy that with the help of an AWS-certified expert who will help you leverage its full capabilities. After learning QuickSight's fundamental concepts and how to configure data sources, you'll be introduced to the main analysis-building

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*functionality of QuickSight to develop
visuals and dashboards, and explore how to
develop and share interactive dashboards
with parameters and on-screen controls.
You'll dive into advanced filtering options
with URL actions before learning how to set
up alerts and scheduled reports. Next, you'll
familiarize yourself with the types of*

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insights before getting to grips with adding ML insights such as forecasting capabilities, analyzing time series data, adding narratives, and outlier detection to your dashboards. You'll also explore patterns to automate operations and look closer into the API actions that allow us to control settings. Finally, you'll learn advanced topics such as

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embedded dashboards and multitenancy. By the end of this book, you'll be well-versed with QuickSight's BI and analytics functionalities that will help you create BI apps with ML capabilities. What you will learn Understand the wider AWS analytics ecosystem and how QuickSight fits within it Set up and configure data sources with

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Amazon QuickSight Include custom controls and add interactivity to your BI application using parameters Add ML insights such as forecasting, anomaly detection, and narratives Explore patterns to automate operations using QuickSight APIs Create interactive dashboards and storytelling with Amazon QuickSight Design an embedded

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*multi-tenant analytics architecture Focus on
data permissions and how to manage
Amazon QuickSight operations Who this
book is for This book is for business
intelligence (BI) developers and data
analysts who are looking to create
interactive dashboards using data from
Lake House on AWS with Amazon*

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QuickSight. It will also be useful for anyone who wants to learn Amazon QuickSight in depth using practical, up-to-date examples. You will need to be familiar with general data visualization concepts before you get started with this book, however, no prior experience with Amazon QuickSight is required.

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Developers often struggle when first encountering the cloud. Learning about distributed systems, becoming familiar with technologies such as containers and functions, and knowing how to put everything together can be daunting. With this practical guide, you'll get up to speed on patterns for building cloud native

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applications and best practices for common tasks such as messaging, eventing, and DevOps. Authors Boris Scholl, Trent Swanson, and Peter Jausovec describe the architectural building blocks for a modern cloud native application. You'll learn how to use microservices, containers, serverless computing, storage types, portability, and

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functions. You'll also explore the fundamentals of cloud native applications, including how to design, develop, and operate them. Explore the technologies you need to design a cloud native application Distinguish between containers and functions, and learn when to use them Architect applications for data-related

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*requirements Learn DevOps fundamentals
and practices for developing, testing, and
operating your applications Use tips,
techniques, and best practices for building
and managing cloud native applications
Understand the costs and trade-offs
necessary to make an application portable
Enterprises are experimenting with using*

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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

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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

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carefully managed and summarized data. You'll learn how to enable self-service to help 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.

Delivering the Promise of Big Data and

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Data Science

Data Science on AWS

Data Quality Fundamentals

*Getting the Most Out of Using AWS to
Modernize and Innovate Your Digital
Services*

*AWS Certified Machine Learning Specialty:
MLS-C01 Certification Guide*

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Social Data Analytics

Select Proceedings of RICE 2020

With this practical book, AI and machine learning practitioners will learn how to successfully build and deploy data science projects on Amazon Web Services. The

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Amazon AI and machine learning stack unifies data science, data engineering, and application development to help level up your skills. This guide shows you how to build and run pipelines in the cloud, then integrate

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***the results into
applications in minutes
instead of days. Throughout
the book, authors Chris
Fregly and Antje Barth
demonstrate how to reduce
cost and improve
performance. Apply the***

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*Amazon AI and ML stack to
real-world use cases for
natural language processing,
computer vision, fraud
detection, conversational
devices, and more Use
automated machine learning
to implement a specific*

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***subset of use cases with
SageMaker Autopilot Dive
deep into the complete model
development lifecycle for a
BERT-based NLP use case
including data ingestion,
analysis, model training,
and deployment Tie***

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***everything together into a
repeatable machine learning
operations pipeline Explore
real-time ML, anomaly
detection, and streaming
analytics on data streams
with Amazon Kinesis and
Managed Streaming for Apache***

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***Kafka Learn security best
practices for data science
projects and workflows
including identity and
access management,
authentication,
authorization, and more
2020 - the year of the***

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COVID-19 pandemic - changed everything. Its ripple effects will be felt for many years to come. At the same time there have been incredible advances in digitization. We are amid a digital revolution with

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***unprecedented innovations.
The pandemic has accelerated
the requirements for
"Digital Transformation."
Organizations need to adopt
and transform to survive and
hopefully thrive. At the
core of digitization there***

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is very much an underlying principle of "debt." It comes originally from what is called "technical debt." Simply, technical debt "reflects the implied cost of additional rework caused by choosing an easy solution

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now instead of using a better approach that would take longer." Difficult transformative choices need to be made now - especially post-COVID-19. If an organization ignores digital transformation for "easy

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solutions", the "debt" accumulates and can have disastrous consequences. The pandemic has accelerated the accumulation of digital transformation debt! It has also provided an opportunity to thrive in the post-

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***COVID-19 era. What does
Digital Transformation mean?
What are the opportunities?
What are the core digital
technologies? What are the
best practices? What are
practical recommendations to
alleviate the Digital***

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Transformation Debt!? This book addresses Digital Transformation Debt holistically and makes recommendations on how to alleviate the debt. Virtual, hands-on learning labs allow you to apply your

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***technical skills in
realistic environments. So
Sybex has bundled AWS labs
from XtremeLabs with our
popular AWS Certified Data
Analytics Study Guide to
give you the same experience
working in these labs as you***

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***prepare for the Certified
Data Analytics Exam that you
would face in a real-life
application. These labs in
addition to the book are a
proven way to prepare for
the certification and for
work as an AWS Data Analyst.***

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***AWS Certified Data Analytics
Study Guide: Specialty (DAS-
C01) Exam is intended for
individuals who perform in a
data analytics-focused role.
This UPDATED exam validates
an examinee's comprehensive
understanding of using AWS***

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*services to design, build,
secure, and maintain
analytics solutions that
provide insight from data.
It assesses an examinee's
ability to define AWS data
analytics services and
understand how they*

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*integrate with each other;
and explain how AWS data
analytics services fit in
the data lifecycle of
collection, storage,
processing, and
visualization. The book
focuses on the following*

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domains: • **Collection** •
Storage and Data Management
• **Processing** • **Analysis and**
Visualization • **Data**
Security This is your
opportunity to take the next
step in your career by
expanding and validating

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***your skills on the AWS
cloud. AWS is the
frontrunner in cloud
computing products and
services, and the AWS
Certified Data Analytics
Study Guide: Specialty exam
will get you fully prepared***

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through expert content, and real-world knowledge, key exam essentials, chapter review questions, and much more. Written by an AWS subject-matter expert, this study guide covers exam concepts, and provides key

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*review on exam topics.
Readers will also have
access to Sybex's superior
online interactive learning
environment and test bank,
including chapter tests,
practice exams, a glossary
of key terms, and electronic*

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flashcards. And included with this version of the book, XtremeLabs virtual labs that run from your browser. The registration code is included with the book and gives you 6 months of unlimited access to

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***XtremeLabs AWS Certified
Data Analytics Labs with 3
unique lab modules based on
the book.***

***From data to actionable
business insights using
Amazon QuickSight! About
This Book A practical hands-***

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*on guide to improving your
business with the power of
BI and Quicksight Immerse
yourself with an end-to-end
journey for effective
analytics using QuickSight
and related services Packed
with real-world examples*

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*with Solution Architectures
needed for a cloud-powered
Business Intelligence
service Who This Book Is For
This book is for Business
Intelligence architects, BI
developers, Big Data
architects, and IT*

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*executives who are looking
to modernize their business
intelligence architecture
and deliver a fast, easy-to-
use, cloud powered business
intelligence service. What
You Will Learn Steps to test
drive QuickSight and see how*

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***it fits in AWS big data eco
system Load data from
various sources such as S3,
RDS, Redshift, Athena, and
SalesForce and visualize
using QuickSight Understand
how to prepare data using
QuickSight without the need***

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*of an IT developer Build
interactive charts, reports,
dashboards, and storyboards
using QuickSight Access
QuickSight using the mobile
application Architect and
design for AWS Data Lake
Solution, Leveraging AWS*

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hosted services Build a big data project with step-by-step instructions for data collection, cataloguing, and analysis Secure your data used for QuickSight from S3, RedShift, and RDS instances Manage users, access

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***controls, and SPICE capacity
In Detail Amazon QuickSight
is the next-generation
Business Intelligence (BI)
cloud service that can help
you build interactive
visualizations on top of
various data sources hosted***

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on Amazon Cloud

*Infrastructure. QuickSight
delivers responsive insights
into big data and enables
organizations to quickly
democratize data
visualizations and scale to
hundreds of users at a*

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fraction of the cost when compared to traditional BI tools. This book begins with an introduction to Amazon QuickSight, feature differentiators from traditional BI tools, and how it fits in the overall

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AWS big data ecosystem. With practical examples, you will find tips and techniques to load your data to AWS, prepare it, and finally visualize it using QuickSight. You will learn how to build interactive

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*charts, reports, dashboards,
and stories using QuickSight
and share with others using
just your browser and mobile
app. The book also provides
a blueprint to build a real-
life big data project on top
of AWS Data Lake Solution*

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*and demonstrates how to
build a modern data lake on
the cloud with governance,
data catalog, and analysis.
It reviews the current
product shortcomings,
features in the roadmap, and
how to provide feedback to*

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***AWS. Grow your profits,
improve your products, and
beat your competitors. Style
and approach This book takes
a fast-paced, example-driven
approach to demonstrate the
power of QuickSight to
improve your business'***

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efficiency. Every chapter is accompanied with a use case that shows the practical implementation of the step being explained.

*Infrastructure Monitoring with Amazon CloudWatch
Learn how to design and*

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*build cloud-based data
transformation pipelines
using AWS*

AWS Cookbook

*Digital Transformation for
the Process Industries*

22nd International

Conference, DAMDID/RCDL

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***2020, Voronezh, Russia,
October 13–16, 2020,
Selected Proceedings***

***Practical Patterns for
Innovation***

Master Amazon Web Services solution
delivery and efficiently prepare for the

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AWS Certified SAA-C03 Exam with this all-in-one study guide The AWS Certified Solutions Architect Study Guide: Associate (SAA-C03) Exam, 4th Edition comprehensively and effectively prepares you for the challenging SAA-C03 Exam. This Study Guide contains efficient and accurate study tools that

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will help you succeed on the exam. It offers access to the Sybex online learning environment and test bank, containing hundreds of test questions, bonus practice exams, a glossary of key terms, and electronic flashcards. In this complete and authoritative exam prep blueprint, Ben Piper and David

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Clinton show you how to: Design resilient AWS architectures Create high-performing solutions Craft secure applications and architectures Design inexpensive and cost-optimized architectures An essential resource for anyone trying to start a new career as an Amazon Web Services cloud

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solutions architect, the AWS Certified Solutions Architect Study Guide: Associate (SAA-C03) Exam, 4th Edition will also prove invaluable to currently practicing AWS professionals looking to brush up on the fundamentals of their work.

This textbook offers a unique

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combination of theory, practical applications and case studies on digital transformation strategies. Digital transformation is the process of changing conventional business models enabled by digital technologies. This involves strategically deploying digital technologies to create differential value

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of an organization. Digital transformation encompasses strategy changes, business model innovation, product and process innovation, and organizational innovation, all wrapped in a layer of newer technologies. This textbook helps define transformation and digitalization and contrasts them

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with digitization and automation. The book also presents a comprehensive digital strategy framework and describes each of its elements through several examples and exhibits. It provides useful insights into industry-specific cases, suggests detailed templates for digital implementation,

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and describes the risks in execution of digitalization and potential mitigation strategies. Key Features: • Covers all the key aspects of digital transformation required to build a career in consulting and implementation of digital strategy in business • Cases and examples from multiple industrial sectors to aid

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understanding of real-life practices and implementation of digital transformation

- Structured in a reader-friendly manner to engage students, instructors, and junior and mid-level executives •

Assumes no prior understanding of strategy, product development or process innovation

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Amazon Redshift Cookbook

Natural Language Processing with
AWS AI Services

Agile Business Architecture for Digital
Transformation