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Step-by-step guide for developing cloud native apps on GCP powered by hands-on interactive learning

KEY FEATURES Cutting-edge coverage on Google Cloud Build, Cloud Run, GKE, Kubectl and Anthos. Includes tutorials and exercises to learn designing, deploying and running cloud native apps. Covers Service Mesh, Apps Optimization, logs monitoring and cloud IAM access.

DESCRIPTION The book “Cloud Native Apps on Google Cloud Platform” teaches the readers how to design, construct, and maintain successful cloud-native apps using the Google Cloud Platform. With interactive tutorials, the book

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reinforces learning and helps to develop practical skills for working in an Agile and DevOps context. The book provides a step-by-step approach to building and managing cloud-native applications on Google Cloud Platform for Google Cloud Users, DevOps teams, and Cloud-Native Developers. First, you will investigate the advantages and applicability of each Google Serverless Computing option. You'll learn about Cloud Build and how to use it to prepare code files, create microservices, and build container images. The book walks readers through creating and running Docker image containers on Cloud Run and App Engine. You'll learn how to use kubectl to create and manage Kubernetes clusters, as well as how to configure the autoscaler for increased

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resilience and availability. You'll build a pipeline that uses Cloud Build to automate CI/CD and Pub/Sub to ingest streaming data. Finally, you'll have the opportunity to learn about Anthos, which enables you to manage massive GKE clusters in both Cloud and on-premises environments. **WHAT YOU WILL LEARN** Distinguish between using containers or microservices for cloud native apps. Build a streaming data pipeline using BigQuery and Dataflow using Pub/Sub. Practice to deploy and optimize cloud native applications on Kubernetes Engine. Build continuous integration/continuous delivery pipelines and improve Kubernetes apps. Learn to protect apps running on GCP from cyberattacks. **WHO THIS BOOK IS FOR** This book is meant for the Cloud

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and DevOps professionals and for those who wish to learn about Google Cloud services and incorporate them into end-to-end cloud applications.

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Cloud Native Apps in Anthos

Do you want to learn information, tips, and general advice about how to prepare for the exam? Do you want to

learn about the infrastructure and platform services provided by Google Cloud Platform? If You Answered

"Yes" To Any of The Above, Look No Further. This is the bundle for you!

This bundle not only helps you in clearing the exam and achieve the Industry's most sought certification but also helps you in understanding the concepts and develop a good

understanding of Google Cloud. The Google Cloud Architect exam

acknowledges that you have a working knowledge of all of the core Google Cloud services and how to architect and design solutions on Google Cloud.

Preparing in advance and getting to the market as soon as possible, puts

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the professional closer to winning a job. Once again as IT professionals. By the end of this bundle, you will be ready to use Google Cloud Data Engineering services to design, deploy and monitor data pipelines, deploy advanced database systems, build data analysis platforms, and support production machine learning environments. This bundle provides the skills you need to advance your career as a data engineer and provides training to support your preparation for the industry-recognized Google Cloud Professional Data Engineer certification. Bundle consists of the following: Book 1: GOOGLE PROFESSIONAL CLOUD ARCHITECT Google Certified Professional Architect Overview Architecting with Google Computer Engine Preparation for The

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Professional Cloud Architect Exam
Getting Started with Google
Kubernetes Engine Designing and
Planning A Cloud Solution Architecture
Managing and Providing the Cloud
Solution Infrastructure Security Design
and Compliance for Cloud Solution
Book 2: GOOGLE PROFESSIONAL
DATA ENGINEERING Google
Professional Data Engineering
Overview Design Data Processing
Systems Building and Operationalizing
A Data Processing System Ensuring
Quality Solution Data Engineering on
Google Cloud Preparing for A Google
Cloud Exam Data Engineering
Examination If you are interested in
becoming a data engineer on Google's
Cloud Platform & Professional Cloud
Architect then this book is for
you. Interested? Then Scroll up, Click
on "Buy now with 1- Click", and Get

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There's a lot of information about big data technologies, but splicing these technologies into an end-to-end enterprise data platform is a daunting task not widely covered. With this practical book, you'll learn how to build big data infrastructure both on-premises and in the cloud and successfully architect a modern data platform. Ideal for enterprise architects, IT managers, application architects, and data engineers, this book shows you how to overcome the many challenges that emerge during Hadoop projects. You'll explore the vast landscape of tools available in the Hadoop and big data realm in a thorough technical primer before diving into: Infrastructure: Look at all component layers in a modern data platform, from the server to the data

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center, to establish a solid foundation for data in your enterprise Platform: Understand aspects of deployment, operation, security, high availability, and disaster recovery, along with everything you need to know to integrate your platform with the rest of your enterprise IT Taking Hadoop to the cloud: Learn the important architectural aspects of running a big data platform in the cloud while maintaining enterprise security and high availability

Develop, deploy, and scale your applications with Google Cloud Platform Key Features Create and deploy your applications on Google Cloud Platform Store and manage source code and debug Cloud-hosted apps with plugins and IDEs Streamline developer workflows with tools for alerting and managing deployments

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Book Description Google Cloud Platform (GCP) provides autoscaling compute power and distributed in-memory cache, task queues, and datastores to write, build, and deploy Cloud-hosted applications. With Google Cloud Platform for Developers, you will be able to develop and deploy scalable applications from scratch and make them globally available in almost any language. This book will guide you in designing, deploying, and managing applications running on Google Cloud. You'll start with App Engine and move on to work with Container Engine, compute engine, and cloud functions. You'll learn how to integrate your new applications with the various data solutions on GCP, including Cloud SQL, Bigtable, and Cloud Storage. This book will teach you how to streamline your workflow with tools

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such as Source Repositories, Container Builder, and StackDriver. Along the way, you'll see how to deploy and debug services with IntelliJ, implement continuous delivery pipelines, and configure robust monitoring and alerting for your production systems. By the end of this book, you'll be well-versed with all the development tools of Google Cloud Platform, and you'll develop, deploy, and manage highly scalable and reliable applications. What you will learn

Understand the various service offerings on GCP Deploy and run services on managed platforms such as App Engine and Container Engine Securely maintain application states with Cloud Storage, Datastore, and Bigtable Leverage StackDriver monitoring and debugging to minimize downtime and mitigate issues without

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impacting users Design and implement complex software solutions utilizing Google Cloud Integrate with best-in-class big data solutions such as Bigquery, Dataflow, and Pub/Sub Who this book is for Google Cloud Platform for Developers is for application developers. This book will enable you to fully leverage the power of Google Cloud Platform to build resilient and intelligent software solutions.

AWS Certified Solutions Architect – Associate Guide

Build a solid foundation in Google Cloud Platform to achieve the most lucrative IT certification

Build Real Time Data Analytics on Google Cloud Platform

Google Professional Cloud Architect Kick-start your career as a solutions architect by learning architecture design principles and strategies

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Cloud Analytics with Google Cloud Platform

Demystify architecting complex blockchain applications in enterprise environments Architecting Enterprise Blockchain Solutions helps engineers and IT administrators understand how to architect complex blockchain applications in enterprise environments. The book takes a deep dive into the intricacies of supporting and securing blockchain technology, creating and implementing decentralized applications, and incorporating blockchain into an existing enterprise IT infrastructure. Blockchain is a technology that is experiencing massive growth in many facets of business and the enterprise. Most books around blockchain primarily deal with how blockchains are related to cryptocurrency or focus

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on pure blockchain development. This book teaches what blockchain technology is and offers insights into its current and future uses in high performance networks and complex ecosystems. • Provides a practical, hands-on approach • Demonstrates the power and flexibility of enterprise blockchains such as Hyperledger and R3 Corda • Explores how blockchain can be used to solve complex IT support and infrastructure problems • Offers numerous hands-on examples and diagrams Get ready to learn how to harness the power and flexibility of enterprise blockchains!

Cloud Computing is a "daily spoken" and most commonly used terminology in every forum. Every conversation with a CIO has a reference to cloud computing. The objective of this book is to simplify cloud computing, explain

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what is cloud computing's impact on Enterprise IT and how business should be prepared to leverage the benefits of cloud in the right way. THIS BOOK WILL BE YOUR KNOWLEDGE GATEWAY TO CLOUD COMPUTING AND NEXT GENERATION INFORMATION TECHNOLOGY MANAGEMENT. Besides core cloud computing concepts and process you will also be presented with latest technologies and tools available today to onboard your assets to cloud and manage cloud better. A cloud computing professional who has worked with several cloud providers and organizations of varied sizes writes this book so expect real life examples, techniques, process and working models for every scenario in strategizing, migrating and managing IT infrastructure in the cloud. The book

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is carefully structured to gradually take the readers through the basics of cloud computing concepts, terminologies, implementation and management techniques through traditional IT management so that readers can easily connect ends. Several transformational, working models and best practices are discussed throughout the book. If you are looking for a book on cloud computing, #thecloudbook is the right book for you. If you have already purchased any books on cloud computing, read #thecloudbook and then go through the other books, you will understand the other books better. #thecloudbook is a must for every IT professional.

Do you want to learn the skills needed to be successful in a Cloud Architect Role? Do you want to learn

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information, tips, and general advice about how to prepare for the exam? If You Answered "Yes" To Any of The Above, Look No Further. This is the book for you! Hello! Welcome to "GOOGLE PROFESSIONAL CLOUD ARCHITECT". Google Cloud Platform is one of the leading cloud service suites and offers solutions for storage, analytics, big data, machine learning, and application development. It features an array of services that can help organizations to get the best out of their infrastructure. This comprehensive guide covers a variety of topics specific to Google's Professional Cloud Architect official exam syllabus. It guides you in using the right methods for effective use of Google Cloud services. This book provides the skills you need to advance your career as a professional

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cloud architect and supports your preparation for the industry-recognized Google Cloud Professional Cloud Architect certification. This book not only helps you in clearing the exam and achieve the Industry's most sought certification but also helps you in understanding the concepts and develop a good understanding of Google Cloud. The Google Cloud Architect exam acknowledges that you have a working knowledge of all of the core Google Cloud services and how to architect and design solutions on Google Cloud. If you are a cloud architect, cloud engineer, administrator, or any IT professional who wants to learn how to implement Google Cloud services in your organization and become a Certified Professional Cloud Architect, this book is for you. Here's what makes this

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book special: Google Certified Professional Architect Overview Architecting with Google Computer Engine Preparation for The Professional Cloud Architect Exam Getting Started with Google Kubernetes Engine Designing and Planning A Cloud Solution Architecture Managing and Providing the Cloud Solution Infrastructure Security Design and Compliance for Cloud Solution Much, much more! This book is different from others because in this book: You will learn how to ensure solution and operation reliability of cloud architecture You will understand all the core services you'll need to know for the Cloud Architect You will integrate prior technical skills into practical skills for the job role. Help you become a Cloud Architect. By the end of this book, you will be well

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versed in all the topics required to pass Google's Professional Cloud Architect exam and use Google Cloud services effectively. Interested? Then Scroll up, Click on "Buy now with 1-Click", and Get Your Copy Now!

Step-by-step guide to different data movement and processing techniques, using Google Cloud Platform Services

DESCRIPTION Modern businesses are awash with data, making data-driven decision-making tasks increasingly complex. As a result, relevant technical expertise and analytical skills are required to do such tasks. This book aims to equip you with enough knowledge of Cloud Computing in conjunction with Google Cloud Data platform to succeed in the role of a Cloud data expert. The current market is trending towards the latest cloud technologies, which is the

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need of the hour. Google being the pioneer, is dominating this space with the right set of cloud services being offered as part of GCP (Google Cloud Platform). At this juncture, this book will be very vital and will cover all the services that are being offered by GCP, putting emphasis on Data services. This book starts with sophisticated knowledge on Cloud Computing. It also explains different types of data services/technology and machine learning algorithm/Pre-Trained API through real-business problems, which are built on the Google Cloud Platform (GCP). With some of the latest business examples and hands-on guide, this book will enable the developers entering the data analytics fields to implement an end-to-end data pipeline, using GCP Data services. Through the course of

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the book, you will come across multiple industry-wise use cases, like Building Datawarehouse using Big Query, a sample real-time data analytics solution on machine learning and Artificial Intelligence that helped with the business decision, by employing a variety of data science approaches on Google Cloud environment. Whether your business is at the early stage of cloud implementation in its journey or well on its way to digital transformation, Google Cloud's solutions and technologies will always help chart a path to success. This book can be used to develop the GCP concepts in an easy way. It contains many examples showcasing the implementation of a GCP service. It enables the learning of the basic and advance concepts of Google Cloud

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Data Platform. This book is divided into 7 chapters and provides a detailed description of the core concepts of each of the Data services offered by Google Cloud. KEY FEATURES Learn the basic concept of Cloud Computing along with different Cloud service provides with their supported Models (IaaS/PaaS/SaaS) Learn the basics of Compute Engine, App Engine, Container Engine, Project and Billing setup in the Google Cloud Platform Learn how and when to use Cloud DataFlow, Cloud DataProc and Cloud DataPrep Build real-time data pipeline to support real-time analytics using Pub/Sub messaging service Setting up a fully managed GCP Big Data Cluster using Cloud DataProc for running Apache Spark and Apache Hadoop clusters in a simpler, more cost-efficient manner Learn how to use

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Cloud Data Studio for visualizing the data on top of Big Query Implement and understand real-world business scenarios for Machine Learning, Data Pipeline Engineering **WHAT WILL YOU LEARN** By the end of the book, you will have come across different data services and platforms offered by Google Cloud, and how those services/features can be enabled to serve business needs. You will also see a few case studies to put your knowledge to practice and solve business problems such as building a real-time streaming pipeline engine, Scalable Data Warehouse on Cloud, fully managed Hadoop cluster on Cloud and enabling TensorFlow/Machine Learning API's to support real-life business problems. Remember to practice additional examples to master these techniques.

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WHO IS THIS BOOK FOR This book is for professionals as well as graduates who want to build a career in Google Cloud data analytics technologies. While no prior knowledge of Cloud Computing or related technologies is assumed, it will be helpful to have some data background and experience. One stop shop for those who wish to get an initial to advance understanding of the GCP data platform. The target audience will be data engineers/professionals who are new, as well as those who are acquainted with the tools and techniques related to cloud and data space. ? Individuals who have basic data understanding (i.e. Data and cloud) and have done some work in the field of data analytics, can refer/use this book to master their knowledge/understanding.

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? The highlight of this book is that it will start with the basic cloud computing fundamentals and will move on to cover the advance concepts on GCP cloud data analytics and hence can be referred across multiple different levels of audiences. Table of Contents 1. GCP Overview and Architecture 2. Data Storage in GCP 3. Data Processing in GCP with Pub/Sub and Dataflow 4. Data Processing in GCP with DataPrep and Dataflow 5. Big Query and Data Studio 6. Machine Learning with GCP 7. Sample Use cases and Examples

The Pandas Workshop

The ultimate exam guide to AWS Solutions Architect certification

Learn to design robust and future-proof solutions with Google Cloud technologies

Architecting Modern Data Platforms

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*Professional Cloud Architect Google
Cloud Certification Guide
Cloud Computing SIMPLIFIED for
every IT Professional*

Learn how to architect data science solutions at scale using the capabilities provided by Google Cloud Platform (GCP).

Learn from the AWS subject-matter experts, apply real-world scenarios and clear the AWS Certified

Solutions Architect –Associate exam

Key FeaturesBuild highly reliable and scalable workloads on the AWS platformPass the exam in less time and with confidence

Get up and running with building and managing applications on the AWS

platformBook Description Amazon Web Services (AWS) is currently the

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leader in the public cloud market. With an increasing global interest in leveraging cloud infrastructure, the AWS Cloud from Amazon offers a cutting-edge platform for architecting, building, and deploying web-scale cloud applications. As more the rate of cloud platform adoption increases, so does the need for cloud certification. The AWS Certified Solution Architect – Associate Guide is your one-stop solution to gaining certification. Once you have grasped what AWS and its prerequisites are, you will get insights into different types of AWS services such as Amazon S3, EC2, VPC, SNS, and more to get you prepared with core Amazon services. You will then move on to

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**understanding how to design and
deploy highly scalable applications.
Finally, you will study security
concepts along with the AWS best
practices and mock papers to test
your knowledge. By the end of this
book, you will not only be fully
prepared to pass the AWS Certified
Solutions Architect – Associate exam
but also capable of building secure
and reliable applications. What you
will learn**Explore AWS terminology
and identity and access
managementAcquaint yourself with
important cloud services and
features in categories such as
compute, network, storage, and
databasesDefine access control to
secure AWS resources and set up
efficient monitoringBack up your

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database and ensure high availability by understanding all of the database-related services in the AWS

CloudIntegrate AWS with your applications to meet and exceed non-functional requirementsBuild and

deploy cost-effective and highly available applicationsWho this book

is for The AWS Certified Solutions

Architect –Associate Guide is for you

if you are an IT professional or

Solutions Architect wanting to pass the AWS Certified Solution

Architect – Associate 2018 exam.

This book is also for developers looking to start building scalable applications on AWS

This is a reference book for

Architects. This book can be helpful for those developers who wants to

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increase breadth of knowledge about tools and technology. If you are planning for career advancement and you are interviewing for cloud architect, this book can also be used for interview preparation purpose. You can go through this book before your interview every time, so that you will remember all the concepts before interview. As the technology is evolving very fast, new tools and technologies are coming every day. This book covers fundamental of architecting or re-architecting of the application. This book also makes you aware and provides details about tools and technology available in cloud. This book does not over explain any concepts, keeping in mind that you can complete your

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reading in less time. With this book, you will get lot of information in less reading time.

Become a Professional Cloud Architect by exploring essential concepts, tools, and services in GCP and working through tests designed to help you get certified Key Features Plan and design a GCP cloud solution architecture Ensure the security and reliability of your cloud solutions and operations Test yourself by taking mock tests with up-to-date exam questions Book Description Google Cloud Platform (GCP) is one of the leading cloud service suites and offers solutions for storage, analytics, big data, machine learning, and application development. It features an array of

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services that can help organizations to get the best out of their infrastructure. This comprehensive guide covers a variety of topics specific to Google's Professional Cloud Architect official exam syllabus and guides you in using the right methods for effective use of GCP services. You'll start by exploring GCP, understanding the benefits of becoming a certified architect, and learning how to register for the exam. You'll then delve into the core services that GCP offers such as computing, storage, and security. As you advance, this GCP book will help you get up to speed with methods to scale and automate your cloud infrastructure and delve into containers and

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services. In the concluding chapters, you'll discover security best practices and even gain insights into designing applications with GCP services and monitoring your infrastructure as a GCP architect. By the end of this book, you will be well versed in all the topics required to pass Google's Professional Cloud Architect exam and use GCP services effectively. What you will learn

- Manage your GCP infrastructure with Google Cloud management options such as CloudShell and SDK**
- Understand the use cases for different storage options**
- Design a solution with security and compliance in mind**
- Monitor GCP compute options**
- Discover machine learning and the different machine learning models**

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offered by GCP Understand what services need to be used when planning and designing your architecture Who this book is for If you are a cloud architect, cloud engineer, administrator, or any IT professional who wants to learn how to implement Google Cloud services in your organization and become a GCP Certified Professional Cloud Architect, this book is for you. Basic knowledge of server infrastructure, including Linux and Windows Servers, is assumed. Knowledge of network and storage will also be helpful.

Re-Architecting Application for Cloud

An end-to-end guide to processing

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**and analyzing big data using Google
Cloud Platform**

Solutions Architect's Handbook

Architecting Google Cloud Solutions

Google Cloud Certified Professional

Cloud Architect All-in-One Exam

Guide

Professional Cloud

Architect - Google Cloud

Certification Guide

Achieve your business

goals and build highly

available, scalable, and

secure cloud

infrastructure by

designing robust and cost-

effective solutions as a

Google Cloud Architect.

Key FeaturesGain hands-

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**on experience in
designing and managing
high-performance cloud
solutionsLeverage Google
Cloud Platform to
optimize technical and
business processes using
cutting-edge technologies
and servicesUse Google
Cloud Big Data, AI, and
ML services to design
scalable and intelligent
data solutionsBook
Description Google has
been one of the top
players in the public
cloud domain thanks to
its agility and
performance capabilities.**

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This book will help you design, develop, and manage robust, secure, and dynamic solutions to successfully meet your business needs. You'll learn how to plan and design network, compute, storage, and big data systems that incorporate security and compliance from the ground up. The chapters will cover simple to complex use cases for devising solutions to business problems, before focusing on how to leverage Google Cloud's Platform-as-a-Service

(PaaS) and Software-as-a-Service (SaaS) capabilities for designing modern no-operations platforms. Throughout this book, you'll discover how to design for scalability, resiliency, and high availability. Later, you'll find out how to use Google Cloud to design modern applications using microservices architecture, automation, and Infrastructure-as-Code (IaC) practices. The concluding chapters then demonstrate how to apply machine learning and

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artificial intelligence (AI) to derive insights from your data. Finally, you will discover best practices for operating and monitoring your cloud solutions, as well as performing troubleshooting and quality assurance. By the end of this Google Cloud book, you'll be able to design robust enterprise-grade solutions using Google Cloud Platform. What you will learn Get to grips with compute, storage, networking, data analytics, and

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pricing Discover delivery models such as IaaS, PaaS, and SaaS Explore the underlying technologies and economics of cloud computing Design for scalability, business continuity, observability, and resiliency Secure Google Cloud solutions and ensure compliance Understand operational best practices and learn how to architect a monitoring solution Gain insights into modern application design with Google

CloudLeverage big data, machine learning, and AI with Google CloudWho this book is for This book is for cloud architects who are responsible for designing and managing cloud solutions with GCP. You'll also find the book useful if you're a system engineer or enterprise architect looking to learn how to design solutions with Google Cloud. Moreover, cloud architects who already have experience with other cloud providers and are now beginning to

work with Google Cloud will benefit from the book. Although an intermediate-level understanding of cloud computing and distributed apps is required, prior experience of working in the public and hybrid cloud domain is not mandatory. Apply cloud native patterns and practices to deliver responsive, resilient, elastic, and message-driven systems with confidence

Key Features
Discover best practices for applying

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**cloud native patterns to
your cloud
applications** Explore ways
to effectively plan
resources and technology
stacks for high security
and fault tolerance Gain
insight into core
architectural principles
using real-world
examples **Book**
Description Cloud
computing has proven to
be the most revolutionary
IT development since
virtualization. Cloud
native architectures give
you the benefit of more
flexibility over legacy

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systems. This Learning Path teaches you everything you need to know for designing industry-grade cloud applications and efficiently migrating your business to the cloud. It begins by exploring the basic patterns that turn your database inside out to achieve massive scalability. You'll learn how to develop cloud native architectures using microservices and serverless computing as your design principles. Then, you'll explore ways

to continuously deliver production code by implementing continuous observability in production. In the concluding chapters, you'll learn about various public cloud architectures ranging from AWS and Azure to the Google Cloud Platform, and understand the future trends and expectations of cloud providers. By the end of this Learning Path, you'll have learned the techniques to adopt cloud native architectures that

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meet your business requirements. This Learning Path includes content from the following Packt products:

Cloud Native Development Patterns and Best Practices by John Gilbert

Cloud Native Architectures by Erik Farr et al.

What you will learn

Understand the difference between cloud native and traditional architecture

Automate security controls and configuration management

Minimize risk by evolving your

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**monolithic systems into
cloud native
applications** Explore the
aspects of migration,
when and why to use
it Apply modern delivery
and testing methods to
continuously deliver
production code Enable
massive scaling by
turning your database
inside out Who this book
is for This Learning Path
is designed for developers
who want to progress into
building cloud native
systems and are keen to
learn the patterns
involved. **Software**

architects, who are keen on designing scalable and highly available cloud native applications, will also find this Learning Path very useful. To easily grasp these concepts, you will need basic knowledge of programming and cloud computing. Combine the power of analytics and cloud computing for faster and efficient insights Key Features Master the concept of analytics on the cloud: and how organizations are using it Learn the design

**considerations and while
applying a cloud analytics
solution Design an end-to-
end analytics pipeline on
the cloud Book**

**Description With the
ongoing data explosion,
more and more
organizations all over the
world are slowly
migrating their
infrastructure to the
cloud. These cloud
platforms also provide
their distinct analytics
services to help you get
faster insights from your
data. This book will give
you an introduction to the**

concept of analytics on the cloud, and the different cloud services popularly used for processing and analyzing data. If you're planning to adopt the cloud analytics model for your business, this book will help you understand the design and business considerations to be kept in mind, and choose the best tools and alternatives for analytics, based on your requirements. The chapters in this book will take you through the 70+

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**services available in
Google Cloud Platform
and their implementation
for practical purposes.
From ingestion to
processing your data, this
book contains best
practices on building an
end-to-end analytics
pipeline on the cloud by
leveraging popular
concepts such as machine
learning and deep
learning. By the end of
this book, you will have a
better understanding of
cloud analytics as a
concept as well as a
practical know-how of its**

implementation What you will learn Explore the basics of cloud analytics and the major cloud solutions Learn how organizations are using cloud analytics to improve the ROI Explore the design considerations while adopting cloud services Work with the ingestion and storage tools of GCP such as Cloud Pub/Sub Process your data with tools such as Cloud Dataproc, BigQuery, etc Over 70 GCP tools to build an analytics engine for cloud

analytics Implement machine learning and other AI techniques on GCP Who this book is for This book is targeted at CIOs, CTOs, and even analytics professionals looking for various alternatives to implement their analytics pipeline on the cloud. Data professionals looking to get started with cloud-based analytics will also find this book useful. Some basic exposure to cloud platforms such as GCP will be helpful, but not mandatory.

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**Build cloud strategies
that align technology and
economics while
effectively managing risk**
**The IoT Architect's Guide
to Attainable Security and
Privacy**

**Official Google Cloud
Certified Professional
Cloud Architect Study
Guide**

**Official Google Cloud
Certified Professional
Data Engineer Study
Guide**

**Build and manage highly
available production-
ready Kubernetes clusters**
Professional Cloud

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Architect - Google Cloud Certification Guide

Learn fundamental to advanced GCP architectural techniques using 30 + real-world use cases. The 'Google Cloud Platform an Architect's Guide' is a comprehensive handbook that covers everything that you need to know from GCP fundamentals to advanced cloud architecture topics. The book covers what you need to understand to pass the Google certification exams but goes far further and deeper as it explores real-world use cases and business scenarios. But you don't need to be an IT expert as the book is designed to cater for both beginners and those experienced in other cloud or on other on-

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premises networks. To that end, the book is split into distinct parts that caters for all levels of expertise. Part -1 is aimed at the novice someone new to a cloud architecture environment that needs to become familiar with the fundamentals of cloud architecture and industry best practices so the more experienced reader may wish to skip this section. Part-2 takes a far deeper dive into GCP theory and practice as well as providing real-world use cases and practical tips that are beneficial for architects at all levels. Part-3 delves much deeper into GCP practical theory on elasticity, scalability and resilience. It also covers Kubernetes in greater detail and touches on High-

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Performance Computing and IoT designs. The book closes with a final part dealing with cloud-native design practices and as such it covers design, monitoring, notification and remediation techniques to ensure best practice in cloud-native application design, deployment, stabilisation and commissioning. Accelerating Business and Mission Success with Cloud Computing. Key Features A step-by-step guide that will practically guide you through implementing Cloud computing services effectively and efficiently. Learn to choose the most ideal Cloud service model, and adopt appropriate Cloud design considerations for your organization. Leverage Cloud

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computing methodologies to successfully develop a cost-effective Cloud environment successfully. Book Description Cloud adoption is a core component of digital transformation. Scaling the IT environment, making it resilient, and reducing costs are what organizations want. Architecting Cloud Computing Solutions presents and explains critical Cloud solution design considerations and technology decisions required to choose and deploy the right Cloud service and deployment models, based on your business and technology service requirements. This book starts with the fundamentals of cloud computing and its architectural concepts. It then

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walks you through Cloud service models (IaaS, PaaS, and SaaS), deployment models (public, private, community, and hybrid) and implementation options (Enterprise, MSP, and CSP) to explain and describe the key considerations and challenges organizations face during cloud migration. Later, this book delves into how to leverage DevOps, Cloud-Native, and Serverless architectures in your Cloud environment and presents industry best practices for scaling your Cloud environment. Finally, this book addresses (in depth) managing essential cloud technology service components such as data storage, security controls, and disaster recovery. By the end of this book, you will

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have mastered all the design considerations and operational trades required to adopt Cloud services, no matter which cloud service provider you choose. What you will learn Manage changes in the digital transformation and cloud transition process Design and build architectures that support specific business cases Design, modify, and aggregate baseline cloud architectures Familiarize yourself with cloud application security and cloud computing security threats Design and architect small, medium, and large cloud computing solutions Who this book is for If you are an IT Administrator, Cloud Architect, or a Solution Architect keen to benefit from cloud

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adoption for your organization, then this book is for you. Small business owners, managers, or consultants will also find this book useful. No prior knowledge of Cloud computing is needed. Sybex's proven Study Guide format teaches Google Cloud Architect job skills and prepares you for this important new Cloud exam. The Google Cloud Certified Professional Cloud Architect Study Guide is the essential resource for anyone preparing for this highly sought-after, professional-level certification. Clear and accurate chapters cover 100% of exam objectives—helping you gain the knowledge and confidence to succeed on exam day. A pre-book assessment quiz helps you

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evaluate your skills, while chapter review questions emphasize critical points of learning. Detailed explanations of crucial topics include analyzing and defining technical and business processes, migration planning, and designing storage systems, networks, and compute resources. Written by Dan Sullivan—a well-known author and software architect specializing in analytics, machine learning, and cloud computing—this invaluable study guide includes access to the Sybex interactive online learning environment, which includes complete practice tests, electronic flash cards, a searchable glossary, and more. Providing services suitable for a

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wide range of applications, particularly in high-growth areas of analytics and machine learning, Google Cloud is rapidly gaining market share in the cloud computing world. Organizations are seeking certified IT professionals with the ability to deploy and operate infrastructure, services, and networks in the Google Cloud. Take your career to the next level by validating your skills and earning certification. Design and plan cloud solution architecture
Manage and provision cloud infrastructure
Ensure legal compliance and security standards
Understand options for implementing hybrid clouds
Develop solutions that meet reliability, business, and

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technical requirements The
Google Cloud Certified
Professional Cloud Architect
Study Guide is a must-have for IT
professionals preparing for
certification to deploy and
manage Google cloud services.
Discover how Google Cloud
services can help you to reduce
operational tasks and focus on
delivering business value with
your applications Key
FeaturesDesign, develop, and
deploy end-to-end cloud-native
applications using Google Cloud
servicesPrepare for the GCP
developer exam with the help of
a fictitious business case and a
Q&A sectionGet hands-on with
implementing code examples of
different GCP services in your
applicationsBook Description

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Google Cloud Platform is one of the three major cloud providers in the industry, exhibiting great leadership in application modernization and data management. This book provides a comprehensive introduction for those who are new to cloud development and shows you how to use the tools to create cloud-native applications by integrating the technologies used by Google. The book starts by taking you through the basic programming concepts and security fundamentals necessary for developing in Google Cloud. You'll then discover best practices for developing and deploying applications in the cloud using different components offered by Google Cloud Platform

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such as Cloud Functions, Google App Engine, Cloud Run, and other GCP technologies. As you advance, you'll learn the basics of cloud storage and choosing the best options for storing different kinds of data as well as understand what site reliability engineers do. In the last part, you'll work on a sample case study of Hip Local, a community application designed to facilitate communication between people nearby, created by the Google Cloud team. By the end of this guide, you'll have learned how to design, develop, and deploy an end-to-end application on the Google Cloud Platform. What you will learn

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security best practices for applications in the cloud Find ways to create and modernize legacy applications Understand how to manage data and databases in Google Cloud Explore best practices for site reliability engineering, monitoring, logging, and debugging Become well-versed with the practical implementation of GCP with the help of a case study Who this book is for This book is for cloud engineers or developers working or starting to work on Google Cloud Platform and looking to take advantage of cloud-native applications. You'll also find this book useful if you are preparing for the GCP developer exam. Data Science on Google Cloud

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Platform: Architecting Solutions

An Architect's Reference Guide

Architecting Cloud Computing

Solutions

Multi-Cloud Architecture and

Governance

Google Cloud Platform for

Architects

Use Serverless, Microservices

and Containers to Rapidly Build

and Deploy Apps on Google

Cloud (English Edition)

Build and deploy your own data

pipelines on GCP, make key

architectural decisions, and gain the

confidence to boost your career as a

data engineer Key

FeaturesUnderstand data

engineering concepts, the role of a

data engineer, and the benefits of

using GCP for building your

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solution Learn how to use the various GCP products to ingest, consume, and transform data and orchestrate pipelines Discover tips to prepare for and pass the Professional Data Engineer exam Book Description With this book, you'll understand how the highly scalable Google Cloud Platform (GCP) enables data engineers to create end-to-end data pipelines right from storing and processing data and workflow orchestration to presenting data through visualization dashboards. Starting with a quick overview of the fundamental concepts of data engineering, you'll learn the various responsibilities of a data engineer and how GCP plays a vital role in fulfilling those responsibilities. As

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you progress through the chapters, you'll be able to leverage GCP products to build a sample data warehouse using Cloud Storage and BigQuery and a data lake using Dataproc. The book gradually takes you through operations such as data ingestion, data cleansing, transformation, and integrating data with other sources. You'll learn how to design IAM for data governance, deploy ML pipelines with the Vertex AI, leverage pre-built GCP models as a service, and visualize data with Google Data Studio to build compelling reports. Finally, you'll find tips on how to boost your career as a data engineer, take the Professional Data Engineer certification exam, and get ready to

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become an expert in data engineering with GCP. By the end of this data engineering book, you'll have developed the skills to perform core data engineering tasks and build efficient ETL data pipelines with GCP. What you will learn

- Load data into BigQuery and materialize its output for downstream consumption
- Build data pipeline orchestration using Cloud Composer
- Develop Airflow jobs to orchestrate and automate a data warehouse
- Build a Hadoop data lake, create ephemeral clusters, and run jobs on the Dataproc cluster
- Leverage Pub/Sub for messaging and ingestion for event-driven systems
- Use Dataflow to perform ETL on streaming

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dataUnlock the power of your data with Data StudioCalculate the GCP cost estimation for your end-to-end data solutionsWho this book is for This book is for data engineers, data analysts, and anyone looking to design and manage data processing pipelines using GCP. You'll find this book useful if you are preparing to take Google's Professional Data Engineer exam. Beginner-level understanding of data science, the Python programming language, and Linux commands is necessary. A basic understanding of data processing and cloud computing, in general, will help you make the most out of this book.

Learn the fundamentals of data science with Python by analyzing

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real datasets and solving problems using pandas

- Learn how to apply data retrieval, transformation, visualization, and modeling techniques using pandas
- Become highly efficient in unlocking deeper insights from your data, including databases, web data, and more
- Build your experience and confidence with hands-on exercises and activities

Book Description The Pandas Workshop will teach you how to be more productive with data and generate real business insights to inform your decision-making. You will be guided through real-world data science problems and shown how to apply key techniques in the context of realistic examples and exercises. Engaging activities will

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then challenge you to apply your new skills in a way that prepares you for real data science projects. You'll see how experienced data scientists tackle a wide range of problems using data analysis with pandas. Unlike other Python books, which focus on theory and spend too long on dry, technical explanations, this workshop is designed to quickly get you to write clean code and build your understanding through hands-on practice. As you work through this Python pandas book, you'll tackle various real-world scenarios, such as using an air quality dataset to understand the pattern of nitrogen dioxide emissions in a city, as well as analyzing transportation data to improve bus transportation services.

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By the end of this data analytics book, you'll have the knowledge, skills, and confidence you need to solve your own challenging data science problems with pandas. What you will learn

- Access and load data from different sources using pandas
- Work with a range of data types and structures to understand your data
- Perform data transformation to prepare it for analysis
- Use Matplotlib for data visualization to create a variety of plots
- Create data models to find relationships and test hypotheses
- Manipulate time-series data to perform date-time calculations
- Optimize your code to ensure more efficient business data analysis

Who this book is for This data analysis book is for anyone with

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prior experience working with the Python programming language who wants to learn the fundamentals of data analysis with pandas. Previous knowledge of pandas is not necessary.

Do you want to learn the skills needed to be successful in a Cloud Architect Role? Do you want to learn information, tips, and general advice about how to prepare for the exam? If You Answered "Yes" To Any of The Above, Look No Further. This is the book for you! Hello! Welcome to "GOOGLE PROFESSIONAL CLOUD ARCHITECT". Google Cloud Platform is one of the leading cloud service suites and offers solutions for storage, analytics, big data, machine

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learning, and application development. It features an array of services that can help organizations to get the best out of their infrastructure. This comprehensive guide covers a variety of topics specific to Google's Professional Cloud Architect official exam syllabus. It guides you in using the right methods for effective use of Google Cloud services. This book provides the skills you need to advance your career as a professional cloud architect and supports your preparation for the industry-recognized Google Cloud Professional Cloud Architect certification. This book not only helps you in clearing the exam and achieve the Industry's most sought

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certification but also helps you in understanding the concepts and develop a good understanding of Google Cloud. The Google Cloud Architect exam acknowledges that you have a working knowledge of all of the core Google Cloud services and how to architect and design solutions on Google Cloud. If you are a cloud architect, cloud engineer, administrator, or any IT professional who wants to learn how to implement Google Cloud services in your organization and become a Certified Professional Cloud Architect, this book is for you. Here's what makes this book special: Google Certified Professional Architect Overview Architecting with Google Computer Engine

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Preparation for The Professional Cloud Architect Exam Getting Started with Google Kubernetes Engine Designing and Planning A Cloud Solution Architecture Managing and Providing the Cloud Solution Infrastructure Security Design and Compliance for Cloud Solution Much, much more! This book is different from others because in this book: You will learn how to ensure solution and operation reliability of cloud architecture You will understand all the core services you'll need to know for the Cloud Architect You will integrate prior technical skills into practical skills for the job role. Help you become a Cloud Architect. By the end of this book, you will be well versed in all

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the topics required to pass Google's Professional Cloud Architect exam and use Google Cloud services effectively.

From fundamentals and design patterns to the different strategies for 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 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

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will find 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 architect requires a hands-on approach, and this edition of the Solutions Architect's Handbook brings exactly that. This handbook will teach you how to create robust, scalable, and fault-tolerant solutions and next-generation architecture designs in a cloud environment. It will also help you build effective product strategies for your business and implement them from start to finish. This new edition features additional chapters on disruptive

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technologies, such as Internet of Things (IoT), quantum computing, data engineering, and machine learning. It also includes updated discussions on cloud-native architecture, blockchain data storage, and mainframe modernization with public cloud. The Solutions Architect's Handbook provides an understanding of solution architecture and how it fits into an agile enterprise environment. It will take you through the journey of solution architecture design by providing detailed knowledge of design pillars, advanced design patterns, anti-patterns, and the cloud-native aspects of modern software design. By the end of this handbook, you'll have learned the techniques

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needed to create efficient architecture designs that meet your business requirements. What you will learn

- Explore the various roles of a solutions architect in the enterprise landscape
- Implement key design principles and patterns to build high-performance cost-effective solutions
- Choose the best strategies to secure your architectures and increase their availability
- Modernize legacy applications with the help of cloud integration
- Understand how big data processing, machine learning, and IoT fit into modern architecture
- Integrate a DevOps mindset to promote collaboration, increase operational efficiency, and streamline production

Who this book is for This book is for software

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developers, system engineers, DevOps engineers, architects, and team leaders who already work in the IT industry and aspire to become solutions architect professionals. Existing solutions architects who want to expand their skillset or get a better understanding of new technologies will also learn valuable new skills. To get started, you'll need a good understanding of the real-world software development process and general programming experience in any language.

Implementing Service Level Objectives

Data Analytics with Google Cloud Platform

Google Cloud Platform an Architect's Guide

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Cloud Native Apps on Google Cloud Platform

Google Professional Cloud Architect and Google Professional Data

Engineer Study Guide - 2 Books in 1
Data Engineering with Google Cloud Platform

Get acquainted with GCP and manage robust, highly available, and dynamic solutions to drive business objective
Key Features
Identify the strengths, weaknesses and ideal use-cases for individual services offered on the Google Cloud Platform
Make intelligent choices about which cloud technology works best for your use-case
Leverage Google Cloud Platform to analyze and optimize technical and business

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processes Book Description
Using a public cloud platform was considered risky a decade ago, and unconventional even just a few years ago. Today, however, use of the public cloud is completely mainstream - the norm, rather than the exception. Several leading technology firms, including Google, have built sophisticated cloud platforms, and are locked in a fierce competition for market share. The main goal of this book is to enable you to get the best out of the GCP, and to use it with confidence and competence. You will learn why cloud architectures take the forms that they do, and this will

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help you become a skilled high-level cloud architect. You will also learn how individual cloud services are configured and used, so that you are never intimidated at having to build it yourself. You will also learn the right way and the right situation in which to use the important GCP services. By the end of this book, you will be able to make the most out of Google Cloud Platform design. What you will learn Set up GCP account and utilize GCP services using the cloud shell, web console, and client APIs Harness the power of App Engine, Compute Engine, Containers on the Kubernetes Engine, and Cloud Functions

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Pick the right managed service for your data needs, choosing intelligently between Datastore, BigTable, and BigQuery Migrate existing Hadoop, Spark, and Pig workloads with minimal disruption to your existing data infrastructure, by using Dataproc intelligently Derive insights about the health, performance, and availability of cloud-powered applications with the help of monitoring, logging, and diagnostic tools in Stackdriver Who this book is for If you are a Cloud architect who is responsible to design and manage robust cloud solutions with Google Cloud Platform, then this book is for you. System

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engineers and Enterprise architects will also find this book useful. A basic understanding of distributed applications would be helpful, although not strictly necessary. Some working experience on other public cloud platforms would help too. A comprehensive guide to architecting, managing, implementing, and controlling multi-cloud environments Key Features Deliver robust multi-cloud environments and improve your business productivity Stay in control of the cost, governance, development, security, and continuous improvement of your multi-cloud solution Integrate different

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solutions, principles, and practices into one multi-cloud foundation
Book Description
Multi-cloud has emerged as one of the top cloud computing trends, with businesses wanting to reduce their reliance on only one vendor. But when organizations shift to multiple cloud services without a clear strategy, they may face certain difficulties, in terms of how to stay in control, how to keep all the different components secure, and how to execute the cross-cloud development of applications. This book combines best practices from different cloud adoption frameworks to help you find

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solutions to these problems. With step-by-step explanations of essential concepts and practical examples, you'll begin by planning the foundation, creating the architecture, designing the governance model, and implementing tools, processes, and technologies to manage multi-cloud environments. You'll then discover how to design workload environments using different cloud propositions, understand how to optimize the use of these cloud technologies, and automate and monitor the environments. As you advance, you'll delve into multi-cloud governance, defining clear

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demarcation models and management processes. Finally, you'll learn about managing identities in multi-cloud: who's doing what, why, when, and where By the end of this book, you'll be able to create, implement, and manage multi-cloud architectures with confidence What you will learnGet to grips with the core functions of multiple cloud platformsDeploy, automate, and secure different cloud solutionsDesign network strategy and get to grips with identity and access management for multi-cloudDesign a landing zone spanning multiple cloud platformsUse automation,

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monitoring, and management tools for multi-cloud
Understand multi-cloud management with the principles of BaseOps, FinOps, SecOps, and DevOps
Define multi-cloud security policies and use cloud security tools
Test, integrate, deploy, and release using multi-cloud CI/CD pipelines
Who this book is for
This book is for architects and lead engineers involved in architecting multi-cloud environments, with a focus on getting governance right to stay in control of developments in multi-cloud. Basic knowledge of different cloud platforms (Azure, AWS, GCP, VMWare, and OpenStack) and understanding

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of IT governance is necessary. The proven Study Guide that prepares you for this new Google Cloud exam The Google Cloud Certified Professional Data Engineer Study Guide, provides everything you need to prepare for this important exam and master the skills necessary to land that coveted Google Cloud Professional Data Engineer certification. Beginning with a pre-book assessment quiz to evaluate what you know before you begin, each chapter features exam objectives and review questions, plus the online learning environment includes additional complete practice tests. Written by Dan Sullivan, a

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popular and experienced online course author for machine learning, big data, and Cloud topics, Google Cloud Certified Professional Data Engineer Study Guide is your ace in the hole for deploying and managing analytics and machine learning applications. Build and operationalize storage systems, pipelines, and compute infrastructure Understand machine learning models and learn how to select pre-built models Monitor and troubleshoot machine learning models Design analytics and machine learning applications that are secure, scalable, and highly available. This exam

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guide is designed to help you develop an in depth understanding of data engineering and machine learning on Google Cloud Platform.

Design, build, and operate scalable and reliable Kubernetes infrastructure for production Key FeaturesImplement industry best practices to build and manage production-grade Kubernetes infrastructureLearn how to architect scalable Kubernetes clusters, harden container security, and fine-tune resource managementUnderstand, manage, and operate complex business workloads

confidentlyBook Description

Although out-of-the-box solutions can help you to get a cluster up and running quickly, running a Kubernetes cluster that is optimized for production workloads is a challenge, especially for users with basic or intermediate knowledge. With detailed coverage of cloud industry standards and best practices for achieving scalability, availability, operational excellence, and cost optimization, this Kubernetes book is a blueprint for managing applications and services in production. You'll discover the most common way to deploy and operate Kubernetes clusters,

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which is to use a public cloud-managed service from AWS, Azure, or Google Cloud Platform (GCP). This book explores Amazon Elastic Kubernetes Service (Amazon EKS), the AWS-managed version of Kubernetes, for working through practical exercises. As you get to grips with implementation details specific to AWS and EKS, you'll understand the design concepts, implementation best practices, and configuration applicable to other cloud-managed services. Throughout the book, you'll also discover standard and cloud-agnostic tools, such as Terraform and Ansible, for provisioning and configuring

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infrastructure. By the end of this book, you'll be able to leverage Kubernetes to operate and manage your production environments confidently. What you will learn

Explore different infrastructure architectures for Kubernetes deployment

Implement optimal open source and commercial storage management solutions

Apply best practices for provisioning and configuring Kubernetes clusters, including infrastructure as code (IaC) and configuration as code (CAC)

Configure the cluster networking plugin and core networking components to get the best out of them

Secure your

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Kubernetes environment using the latest tools and best practices
Deploy core observability stacks, such as monitoring and logging, to fine-tune your infrastructure
Who this book is for This book is for cloud infrastructure experts, DevOps engineers, site reliability engineers, and engineering managers looking to design and operate Kubernetes infrastructure for production.
Basic knowledge of Kubernetes, Terraform, Ansible, Linux, and AWS is needed to get the most out of this book.

Architecting Enterprise Blockchain Solutions
OpenStack for Architects

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**Cloud Architect Exam Practice
Questions and Actual Test
Dumps: Pass for Sure Exam
Prep Material with 100+
Questions and Explanations
Google Cloud Certified
Google Cloud Platform for
Developers**

**A comprehensive guide to using
Python for data analysis with
real-world case studies**

**Do you want to learn the
skills needed to be
successful in a data
engineer role? Do you want
to learn about the
infrastructure and platform
services provided by
Google Cloud Platform? If
You Answered "Yes" To Any**

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**of The Above, Look No
Further. This is the book for
you! Hello! Welcome to
"GOOGLE PROFESSIONAL
DATA ENGINEERING".**

**People looking to qualify in
each job market are
becoming increasingly
competitive, and the
qualifications required for a
candidate to fill a vacancy
are becoming increasingly
demanding. Data engineers
have a wide range of skills
including the ability to
design systems to ingest
large volumes of data,
store data cost-effectively,
and efficiently process and
analyze data with tools**

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ranging from reporting and visualization to machine learning. You'll also have the opportunity to practice key job skills, including designing, building, and running data processing systems; and operationalizing machine-learning models. By the end of this book, you will be ready to use Google Cloud Data Engineering services to design, deploy and monitor data pipelines, deploy advanced database systems, build data analysis platforms, and support production machine learning

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environments. This book provides the skills you need to advance your career as a data engineer and provides training to support your preparation for the industry-recognized Google Cloud Professional Data Engineer certification. Preparing in advance and getting to the market as soon as possible, puts the professional closer to winning a job. Once again as IT professionals. Here's what makes this book special: Google Professional Data Engineering Overview Design Data Processing Systems Building and

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**Operationalizing A Data
Processing System
Ensuring Quality Solution
Data Engineering on Google
Cloud Preparing for A
Google Cloud Exam Data
Engineering Examination
Much, much more! This
book is different from
others because in this
book: You will be able to
move forward architecting
real-world data engineering
solutions You will
understand all the core
services you'll need to
know for the Data Engineer
You will understand how to
use Google's Big Data
Services on the Google**

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Cloud Platform. If you are interested in becoming a data engineer on Google's Cloud Platform then this book is for you.

Everything you need to succeed on the Google Cloud Certified Professional Cloud Architect exam in one accessible study guide Take the challenging Google Cloud Certified Professional Cloud Architect exam with confidence using the comprehensive information contained in this invaluable self-study guide. The book provides a thorough overview of cloud architecture and Google

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Cloud Platform (GCP) and shows you how to pass the test. Beyond exam preparation, the guide also serves as a valuable on-the-job reference. Written by a recognized expert in the field, Google Cloud Certified Professional Cloud Architect All-In-One Exam Guide is based on proven pedagogy and features special elements that teach and reinforce practical skills. The book contains accurate practice questions and in-depth explanations. You will discover how to design, develop, and manage robust, secure,

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**scalable, and highly
available solutions to drive
business objectives. Offers
100% coverage of every
objective for the Google
Cloud Certified Professional
Cloud Architect exam
Online content includes 100
additional practice
questions in the
TotalTester customizable
exam engine Written by a
Google Cloud Certified
Professional Cloud
Architect
Demystify architecting
complex blockchain
applications in enterprise
environments Architecting
Enterprise Blockchain**

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Solutions helps engineers and IT administrators understand how to architect complex blockchain applications in enterprise environments. The book takes a deep dive into the intricacies of supporting and securing blockchain technology, creating and implementing decentralized applications, and incorporating blockchain into an existing enterprise IT infrastructure. Blockchain is a technology that is experiencing massive growth in many facets of business and the enterprise. Most books

around blockchain primarily deal with how blockchains are related to cryptocurrency or focus on pure blockchain development. This book teaches what blockchain technology is and offers insights into its current and future uses in high performance networks and complex ecosystems. Provides a practical, hands-on approach Demonstrates the power and flexibility of enterprise blockchains such as Hyperledger and R3 Corda Explores how blockchain can be used to solve complex IT support

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and infrastructure problems Offers numerous hands-on examples and diagrams Get ready to learn how to harness the power and flexibility of enterprise blockchains!

Become a Professional Cloud Architect by exploring the essential concepts, tools, and services in GCP and working through practice tests designed to help you take the exam confidently
Key Features
Plan and design a GCP cloud solution architecture
Ensure the security and reliability of your cloud solutions and

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operations Assess your knowledge by taking mock tests with up-to-date exam questions
Book Description
Google Cloud Platform (GCP) is one of the industry leaders thanks to its array of services that can be leveraged by organizations to bring the best out of their infrastructure. This book is a comprehensive guide for learning methods to effectively utilize GCP services and help you become acquainted with the topics required to pass Google's Professional Cloud Architect certification exam. Following the

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Professional Cloud Architect's official exam syllabus, you'll first be introduced to the GCP. The book then covers the core services that GCP offers, such as computing and storage, and takes you through effective methods of scaling and automating your cloud infrastructure. As you progress through the chapters, you'll get to grips with containers and services and discover best practices related to the design and process. This revised second edition features new topics such as Cloud Run, Anthos, Data

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Fusion, Composer, and Data Catalog. By the end of this book, you'll have gained the knowledge required to take and pass the Google Cloud Certification - Professional Cloud Architect exam and become an expert in GCP services. What you will learn
Understand the benefits of being a Google Certified Professional Cloud Architect
Find out how to enroll for the Professional Cloud Architect exam
Master the compute options in GCP
Explore security and networking options in GCP
Get to grips

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with managing and monitoring your workloads in GCP. Understand storage, big data, and machine learning services. Become familiar with exam scenarios and passing strategies. Who this book is for: If you are a cloud architect, cloud engineer, administrator, or any IT professional looking to learn how to implement Google Cloud services in your organization and become a GCP Certified Professional Cloud Architect, this book is for you. Basic knowledge of server infrastructure,

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including Linux and Windows Servers, is assumed. A solid understanding of network and storage will help you to make the most out of this book.

Build highly scalable cloud solutions with the power of Google Cloud Platform

Modernize your applications using cloud-native services and best practices

Architecting Cloud Native Applications

Google Professional Data Engineer

Disruptive Cloud Computing and IT

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A Guide to Enterprise Hadoop at Scale

The Only Official Google Cloud Study Guide The Official Google Cloud Certified Associate Cloud Engineer Study Guide, provides everything you need to prepare for this important exam and master the skills necessary to land that coveted Google Cloud Engineering certification. Beginning with a pre-book assessment quiz to evaluate what you know before you begin, each chapter features exam objectives and review questions, plus the online learning environment includes additional complete practice tests.

Written by Dan Sullivan, a popular and experienced online course author for machine learning, big data, and Cloud topics, Official Google Cloud Certified

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Associate Cloud Engineer Study Guide is your ace in the hole for deploying and managing Google Cloud Services.

- Select the right Google service from the various choices based on the application to be built
- Compute with Cloud VMs and managing VMs
- Plan and deploying storage
- Network and configure access and security

Google Cloud Platform is a leading public cloud that provides its users to many of the same software, hardware, and networking infrastructure used to power Google services. Businesses, organizations, and individuals can launch servers in minutes, store petabytes of data, and implement global virtual clouds with the Google Cloud Platform. Certified Associate Cloud Engineers have demonstrated

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the knowledge and skills needed to deploy and operate infrastructure, services, and networks in the Google Cloud. This exam guide is designed to help you understand the Google Cloud Platform in depth so that you can meet the needs of those operating resources in the Google Cloud.

Design and implement successful private clouds with OpenStack About This Book Explore the various design choices available for cloud architects within an OpenStack deployment Craft an OpenStack architecture and deployment pipeline to meet the unique needs of your organization Create a product roadmap for Infrastructure as a Service in your organization using this hands-on guide Who This Book Is For This book is written especially for

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those who will design OpenStack clouds and lead their implementation. These people are typically cloud architects, but may also be in product management, systems engineering, or enterprise architecture. What You Will Learn Familiarize yourself with the components of OpenStack Build an increasingly complex OpenStack lab deployment Write compelling documentation for the architecture teams within your organization Apply Agile configuration management techniques to deploy OpenStack Integrate OpenStack with your organization's identity management, provisioning, and billing systems Configure a robust virtual environment for users to interact with Use enterprise security guidelines for your OpenStack

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deployment Create a product roadmap that delivers functionality quickly to the users of your platform In Detail Over the last five years, hundreds of organizations have successfully implemented Infrastructure as a Service (IaaS) platforms based on OpenStack. The huge amount of investment from these organizations, industry giants such as IBM and HP, as well as open source leaders such as Red Hat have led analysts to label OpenStack as the most important open source technology since the Linux operating system. Because of its ambitious scope, OpenStack is a complex and fast-evolving open source project that requires a diverse skill-set to design and implement it. This guide leads you through each of the major

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decision points that you'll face while architecting an OpenStack private cloud for your organization. At each point, we offer you advice based on the experience we've gained from designing and leading successful OpenStack projects in a wide range of industries. Each chapter also includes lab material that gives you a chance to install and configure the technologies used to build production-quality OpenStack clouds. Most importantly, we focus on ensuring that your OpenStack project meets the needs of your organization, which will guarantee a successful rollout. Style and approach This is practical, hands-on guide to implementing OpenStack clouds, where each topic is illustrated with real-world examples and then the

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technical points are proven in the lab. This book describes how to architect and design Internet of Things (IoT) solutions that provide end-to-end security and privacy at scale. It is unique in its detailed coverage of threat analysis, protocol analysis, secure design principles, intelligent IoT's impact on privacy, and the effect of usability on security. The book also unveils the impact of digital currency and the dark web on the IoT-security economy. It's both informative and entertaining. "Filled with practical and relevant examples based on years of experience ... with lively discussions and storytelling related to IoT security design flaws and architectural issues."—
Dr. James F. Ransome, Senior Director
of Security Development Lifecycle

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(SOL) Engineering, Intel "There is an absolute treasure trove of information within this book that will benefit anyone, not just the engineering community. This book has earned a permanent spot on my office bookshelf."— Erv Comer, Fellow of Engineering, Office of Chief Architect Zebra Technologies "The importance of this work goes well beyond the engineer and architect. The IoT Architect's Guide to Attainable Security & Privacy is a crucial resource for every executive who delivers connected products to the market or uses connected products to run their business."— Kurt Lee, VP Sales and Strategic Alliances at PWNIE Express "If we collectively fail to follow the advice described here regarding IoT

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security and Privacy, we will continue to add to our mounting pile of exploitable computing devices. The attackers are having a field day. Read this book, now."— Brook S.E.

Schoenfield, Director of Advisory Services at IOActive, previously Master Security Architect at McAfee, and author of *Securing Systems*

Although service-level objectives (SLOs) continue to grow in importance, there's a distinct lack of information about how to implement them. Practical advice that does exist usually assumes that your team already has the infrastructure, tooling, and culture in place. In this book, recognized SLO expert Alex Hidalgo explains how to build an SLO culture from the ground up. Ideal as a primer

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and daily reference for anyone creating both the culture and tooling necessary for SLO-based approaches to reliability, this guide provides detailed analysis of advanced SLO and service-level indicator (SLI) techniques.

Armed with mathematical models and statistical knowledge to help you get the most out of an SLO-based approach, you'll learn how to build systems capable of measuring meaningful SLIs with buy-in across all departments of your organization.

Define SLIs that meaningfully measure the reliability of a service from a user's perspective
Choose appropriate SLO targets, including how to perform statistical and probabilistic analysis
Use error budgets to help your team have better discussions and make better

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data-driven decisions Build supportive tooling and resources required for an SLO-based approach Use SLO data to present meaningful reports to leadership and your users

Leverage Azure, AWS, GCP, and VMware vSphere to build effective multi-cloud solutions

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A practical guide to operationalizing scalable data analytics systems on GCP

Design high-performing and cost-effective applications for the cloud

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