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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 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 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 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. Get to grips with the tools, services, and functions needed for application migration to help you move from legacy applications to cloud-native on Google Cloud Key FeaturesDiscover how a sample legacy application can be transformed into a cloud-native application on Google CloudLearn where to start and how to apply application modernization techniques and toolingWork with real-world use cases and instructions to modernize an application on Google CloudBook Description Legacy applications, which comprise 75-80% of all enterprise applications, often end up being stuck in data centers. Modernizing these applications to make them cloud-native enables them to scale in a cloud environment without taking months or years to start seeing the benefits. This book will help software developers and solutions architects to modernize their applications on Google Cloud and transform them into cloud-native applications. This book helps you to build on your existing knowledge of enterprise application development and takes you on a journey through the six Rs: rehosting, replatforming, rearchitecting, repurchasing, retiring, and retaining. You'll learn how to modernize a legacy enterprise application on Google Cloud and build on existing assets and skills effectively. Taking an iterative and incremental approach to modernization, the book introduces the main services in Google Cloud in an easy-to-understand way that can be applied immediately to an application. By the end of this Google Cloud book, you'll have

learned how to modernize a legacy enterprise application by exploring various interim architectures and tooling to develop a cloud-native microservices-based application. What you will learnDiscover the principles and best practices for building cloud-native applicationsStudy the six Rs of migration strategy and learn when to choose which strategyRehost a legacy enterprise application on Google Compute EngineReplatform an application to use Google Load Balancer and Google Cloud SQLRefactor into a single-page application (SPA) supported by REST servicesReplatform an application to use Google Identity Platform and Firebase AuthenticationRefactor to microservices using the strangler patternAutomate the deployment process using a CI/CD pipeline with Google Cloud BuildWho this book is for This book is for software developers and solutions architects looking to gain experience in modernizing their enterprise applications to run on Google Cloud and transform them into cloud-native applications. Basic knowledge of Java and Spring Boot is necessary. Prior knowledge of Google Cloud is useful but not mandatory. 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 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 Guideis 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, 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 Unleash Google's Cloud Platform to build, train and optimize machine learning models Key Features Get well versed in GCP pre-existing services to build your own smart models A comprehensive guide covering aspects from data processing, analyzing to building and training ML models A practical approach to produce your trained ML models and port them to your mobile for easy access Book Description Google Cloud Machine Learning Engine combines the services of Google Cloud Platform with the power and flexibility of TensorFlow. With this book, you will not only learn to build and train different complexities of machine learning models at scale but also host them in the cloud to make predictions. This book is focused on making the most of the Google Machine Learning Platform for large datasets and complex problems. You will learn from scratch how to create powerful machine learning based applications for a wide variety of problems by leveraging different data services from the Google Cloud Platform. Applications include NLP, Speech to text, Reinforcement learning, Time series, recommender systems, image classification, video content inference and many other. We will implement a wide variety of deep learning use cases and also make extensive use of data related services comprising the Google Cloud Platform ecosystem such as Firebase, Storage APIs, Datalab and so forth. This will enable you to integrate Machine Learning and data processing features into your web and mobile applications. By the end of this book, you will know the main difficulties that you may encounter and get appropriate strategies to overcome these difficulties and build efficient systems. What you will learn Use Google Cloud Platform to build data-based applications for dashboards, web, and mobile Create, train and optimize deep learning models for various data science problems on big data Learn how to leverage

BigQuery to explore big datasets Use Google's pre-trained TensorFlow models for NLP, image, video and much more Create models and architectures for Time series, Reinforcement Learning, and generative models Create, evaluate, and optimize TensorFlow and Keras models for a wide range of applications Who this book is for This book is for data scientists, machine learning developers and AI developers who want to learn Google Cloud Platform services to build machine learning applications. Since the interaction with the Google ML platform is mostly done via the command line, the reader is supposed to have some familiarity with the bash shell and Python scripting. Some understanding of machine learning and data science concepts will be handy 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 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 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 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 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! 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 FeaturesPlan and design a GCP cloud solution architectureEnsure the security and reliability of your cloud solutions and operationsAssess your knowledge by taking mock tests with up-to-date exam questionsBook 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 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 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 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, 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. 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 Features

- Gain hands-on experience in designing and managing high-performance cloud solutions
- Leverage Google Cloud Platform to optimize technical and business processes using cutting-edge technologies and services
- Use Google Cloud Big Data, AI, and ML services to design scalable and intelligent data solutions

Book Description Google has been one of the top players in the public cloud domain thanks



to its agility and performance capabilities. 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 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 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 Cloud
- Leverage big data, machine learning, and AI with Google Cloud

Who 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. Learn how easy it is to apply sophisticated statistical and machine learning methods to real-world problems when you build using Google Cloud Platform (GCP). This hands-on guide shows data engineers and data scientists how to implement an end-to-end data pipeline with cloud native tools on GCP. Throughout this updated second edition, you'll work through a sample business decision by employing a variety of data science approaches. Follow along by building a data pipeline in your own project on GCP, and discover how to solve data science problems in a transformative and more collaborative way. You'll learn how to: Employ best practices in building highly scalable data and ML pipelines on Google Cloud Automate and schedule data ingest using Cloud Run Create and populate a dashboard in Data Studio Build a real-time analytics pipeline using Pub/Sub, Dataflow, and BigQuery Conduct interactive data exploration with BigQuery Create a Bayesian model with Spark on Cloud Dataproc Forecast time series and do anomaly detection with BigQuery ML Aggregate within time windows with Dataflow Train explainable machine learning models with Vertex AI Operationalize ML with Vertex AI Pipelines 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-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.

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 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

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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. Learn how to architect data science solutions at scale using the capabilities provided by Google Cloud Platform (GCP). The Google Certified Associate Cloud Engineer exam validates an individual's ability to deploy applications, monitor operations, and manage enterprise solutions. This individual is able to use GCP Console and the CLI to perform common platform-based tasks to maintain one or more deployed solutions that leverage Google-managed or self-managed services on Google Cloud. As your company moves data to the cloud, you need to consider a comprehensive approach to data governance, along with well-defined and agreed-upon policies to ensure you meet compliance. Data governance incorporates the ways that people, processes, and technology work together to support business efficiency. With this practical guide, chief information, data, and security officers will learn how to effectively implement and scale data governance throughout their organizations. You'll explore how to create a strategy and tooling to support the democratization of data and governance principles. Through good data governance, you can inspire customer trust, enable your organization to extract more value from data, and generate more-competitive offerings and improvements in customer experience. This book shows you how. Enable auditable legal and regulatory compliance with defined and agreed-upon data policies Employ better risk management Establish control and maintain visibility into your company's data assets, providing a competitive advantage Drive top-line revenue and cost savings when developing new products and services Implement your organization's people, processes, and tools to operationalize data trustworthiness. Practical recipes to implement cost-effective and scalable cloud solutions for your

organization Key Features Implement Google Cloud services in your organization Leverage Google Cloud components to secure your organization's data A recipe-based guide that promises hands-on experience in deploying a highly scalable and available environment Book Description Google Cloud Platform is a cloud computing platform that offers products and services to host applications using state-of-the art infrastructure and technology. You can build and host applications and websites, store data, and analyze data on Google's scalable infrastructure. This book follows a recipe-based approach, giving you hands-on experience to make the most of Google Cloud services. This book starts with practical recipes that explain how to utilize Google Cloud's common services. Then, you'll see how to make full use of Google Cloud components such as networking, security, management, and developer tools. Next, we'll deep dive into implementing core Google Cloud services into your organization, with practical recipes on App Engine, Compute Engine microservices with Cloud Functions, virtual networks, and Cloud Storage. Later, we'll provide recipes on implementing authentication and security, Cloud APIs, command-line management, deployment management, and the Cloud SDK. Finally, we'll cover administration troubleshooting tasks with the Compute and Container Engines and we'll show how to monitor your organization's efficiency with best practices. By the end of this book, you'll have a complete understanding of how to implement Google Cloud services in your organization with ease. What you will learn Host a Python application on Google Compute Engine Host an application using Google Cloud Functions Migrate a MySQL DB to Cloud Spanner Configure a network for a highly available application on GCP Learn simple image processing using Storage and Cloud Functions Automate security checks using Policy Scanner Understand tools for monitoring a production environment in GCP Learn to manage multiple projects using service accounts Who this book is for This book is

for IT professionals, engineers, and developers looking at implementing Google Cloud in their organizations. Administrators and architects planning to make their organization more efficient with Google Cloud will also find this book useful. Basic understanding of Cloud services and the Google Cloud platform is necessary. Make the most of GCP's offerings to manage your data center workload and optimize deployments

**Key Features**

- Discover new techniques to administer, manage, and deploy applications on GCP
- Understand effective solutions for storing, retrieving, and deploying your container images
- Explore various offerings of GCP for operations and security

**Book Description**

On-premise data centers are costly to manage. If you need a data center but don't want to deal with a physical one, Google Cloud Platform (GCP) is the solution. With GCP, you can build, test, and deploy applications on Google's infrastructure. Google Cloud Platform Administration begins with GCP fundamentals, with the help of which you will deploy your first app and gain an understanding of Google Cloud architecture and services. Furthermore, you will learn how to manage Compute, networking, and storage resources. As you make your way through the book, you will learn how to track and manage GCP's usage, monitoring, and billing access control. You will also be able to manage your GCP's access and permissions. In the concluding chapters, you will explore a list of different developer tools for managing and interacting with the GCP platform. By the end of this book, you will have learned how to effectively deploy workloads on GCP. What you will learn

- Understand all GCP Compute components
- Deploy and manage multiple GCP storage options
- Manage and utilize the networking resources offered by GCP
- Explore the functionalities and features of the GCP Container
- Understand the workings of GCP operations such as monitoring and error reporting
- Discover an immune GCP using its identity and security options

Who this book is for Google Cloud Platform Administration is for administrators, cloud architects, and engineers who want to

leverage the upcoming Google Cloud Platform. Some basic understanding of cloud computing will be useful. Get quick hands-on experience with Google Cloud. This cookbook provides a variety of self-contained recipes that show you how to use Google Cloud services for your enterprise application. Whether you're looking for practical ways to apply microservices, AI, analytics, security, or networking solutions, these recipes take you step-by-step through the process and provide discussions that explain how and why the recipes work. Ideal for system engineers and administrators, developers, network and database administrators, and data analysts, this cookbook helps you get started with Google Cloud regardless of your level of experience. Google veterans Rui Costa and Drew Hodun also cover advanced-level Google Cloud services for those who have appreciable experience with the platform. Learn how to get started with Google Cloud

Understand the depth of services Google Cloud provides  
Gain hands-on experience using practical examples and labs  
Explore topics that include BigQuery, Cloud Run, and Kubernetes  
Build and run mobile and web applications on Google Cloud  
Examine ways to build your cloud applications for scale  
Build a minimum viable product (MVP) app to use in production  
Learn data platform and pipeline skills  
Build cost-effective and robust cloud solutions with Google Cloud Platform (GCP) using these simple and practical recipes

Key Features  
Explore the various service offerings of the GCP  
Host a Python application on Google Compute Engine  
Securely maintain application states with Cloud Storage, Datastore, and Bigtable

Book Description  
GCP is a cloud computing platform with a wide range of products and services that enable you to build and deploy cloud-hosted applications. This Learning Path will guide you in using GCP and designing, deploying, and managing applications on Google Cloud. You will get started by learning how to use App Engine to access Google's scalable hosting and build software that runs on this framework. With the help of Google Compute Engine, you'll be able to host

your workload on virtual machine instances. The later chapters will help you to explore ways to implement authentication and security, Cloud APIs, and command-line and deployment management. As you hone your skills, you'll understand how to integrate your new applications with various data solutions on GCP, including Cloud SQL, Bigtable, and Cloud Storage. Following this, the book will teach you how to streamline your workflow with tools, including Source Repositories, Container Builder, and Stackdriver. You'll also understand how to deploy and debug services with IntelliJ, implement continuous delivery pipelines, and configure robust monitoring and alerts for your production systems. By the end of this Learning Path, you'll be well versed with GCP's development tools and be able to develop, deploy, and manage highly scalable and reliable applications. This Learning Path includes content from the following Packt products: Google Cloud Platform for Developers Ted Hunter and Steven Porter Google Cloud Platform Cookbook by Legorie Rajan PS What you will learn Host an application using Google Cloud Functions Migrate a MySQL database to Cloud Spanner Configure a network for a highly available application on GCP Learn simple image processing using Storage and Cloud Functions Automate security checks using Policy Scanner Deploy and run services on App Engine and Container Engine Minimize downtime and mitigate issues with Stackdriver Monitoring and Debugger Integrate with big data solutions, including BigQuery, Dataflow, and Pub/Sub Who this book is for This Learning Path is for IT professionals, engineers, and developers who want to implement Google Cloud in their organizations. Administrators and architects planning to make their organization more efficient with Google Cloud will also find this Learning Path useful. Basic understanding of GCP and its services is a must. 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 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 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 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 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. Effectively deploy fully managed workloads using Google Cloud's serverless services

**Key Features** Use real-world use cases to understand the core functionalities of Functions as a Service

**Explore** the potential of Cloud Run, Knative, Cloud Build, Google Kubernetes Engine, and Cloud Storage

**Get to grips** with architectural decisions, seamless deployments, containerization, and serverless solutions

**Book Description** Google Cloud's serverless platform allows organizations to scale fully managed solutions without worrying about the underlying infrastructure. With this book, you will learn how to design, develop, and deploy full stack serverless apps on Google Cloud. The book starts with a quick overview of the Google Cloud console, its features, user interface (UI), and capabilities. After getting to grips with the Google Cloud interface and its features, you will explore the core aspects of serverless products such as Cloud Run, Cloud Functions and App Engine. You will also learn essential features such as version control, containerization, and identity and access management with the help of real-world use cases. Later, you will understand how to incorporate continuous integration and continuous deployment (CI/CD) techniques for serverless applications. Toward the concluding chapters, you will get to grips with how key technologies such as Knative enable Cloud Run to be hosted on multiple platforms including Kubernetes and VMware. By the end of this book, you will have become proficient in confidently developing, managing, and deploying containerized applications on Google Cloud. What you will learn

**Explore** the various options for deploying serverless workloads on Google Cloud

**Determine** the appropriate serverless product for your application use case

**Integrate** multiple lightweight functions to build scalable and resilient services

**Increase** productivity through build process automation

**Understand** how to secure serverless workloads using service accounts

**Build** a scalable architecture

with Google Cloud Functions and Cloud Run Who this book is for  
If you are a cloud administrator, architect, or developer who wants to build scalable systems and deploy serverless workloads on Google Cloud, then this book is for you. To get the most out of this book, a basic understanding of the serverless ecosystem and cloud computing will be beneficial. 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 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 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 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 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. Easy-to-follow visual walkthrough of every important part of the Google Cloud Platform The Google Cloud Platform incorporates dozens of specialized services that enable organizations to offload technological needs onto the cloud. From routine IT operations like storage to sophisticated new capabilities including artificial intelligence and machine learning, the Google Cloud Platform offers enterprises the opportunity to scale and grow efficiently. In Visualizing Google Cloud: Illustrated References for Cloud Engineers & Architects, Google Cloud expert Priyanka Vergadia delivers a fully illustrated, visual guide to matching the best Google Cloud Platform services to your own unique use cases. After a brief introduction to the major categories of cloud services offered by Google, the author offers approximately 100 solutions divided into eight categories of services included in Google Cloud Platform: Compute Storage Databases Data Analytics Data Science, Machine Learning and Artificial Intelligence Application Development and Modernization with Containers Networking Security You'll find richly illustrated flowcharts and decision diagrams with straightforward explanations in each category, making it easy to adopt and adapt Google's cloud services to your use cases. With coverage of the major categories of cloud models—including infrastructure-, containers-, platforms-, functions-, and serverless—and discussions of storage types,

databases and Machine Learning choices, Visualizing Google Cloud: Illustrated References for Cloud Engineers & Architects is perfect for every Google Cloud enthusiast, of course. It is for anyone who is planning a cloud migration or new cloud deployment. It is for anyone preparing for cloud certification, and for anyone looking to make the most of Google Cloud. It is for cloud solutions architects, IT decision-makers, and cloud data and ML engineers. In short, this book is for YOU. Welcome to "Google Cloud Platform - Networking: Beginner to Skilled GCP Network Practitioner in One Book". As the subtitle conveys this book is a beginners-to-experts comprehensive guide to networking for the Google Cloud Platform. We do not assume any prior networking skills or knowledge so the book is designed for both the beginner in networking as well as those proficient in on-premise networking who want to transfer their skill to the GCP. It is a thorough and comprehensive guide to the entire set of core networking technologies, principles and best practices that you will need to know about for the GCP Networking Certification exam. Nonetheless, this book is not just for those pursuing GCP Networking certification it is also aimed at those wishing to pursue a career in GCP networking. Consequently, it covers not just the exam syllabus but goes into much greater depth and scope through practical examples and relevant networking tips and best practices. The goal is to provide you, the reader, with a deep and wide understanding of GCP networking and its core technologies, techniques and concepts so that you can ultimately call yourself and importantly confidently demonstrate your skills as a proficient GCP network engineer. To that end, we have designed the book into parts: Part 1 is a network primer aimed at the beginner as it serves as an introduction to key generic network concepts that you as a beginner will need to know when we move the focus to specific GCP networking concepts; Part 2, is an introduction to Google' internal private and global network, the underlying technologies and how it works under the bonnet.

This should be of value and interest to readers of all skill levels; Part 3, is all about GCP cloud-specific networking that encompasses; VPC design, planning, deployment, migration, operations and performance monitoring and management. We will study relevant use-case in each chapter to better demonstrate the use of a particular technology and to help solidify a deeper understanding. The final chapter is aimed at those pursuing a career as a GCP network designer or a pre-sales consultant as well as project managers as it concerns Billing. Hence we will take a deep dive into Billing from a network perspective but it is not just an appendix for your everyday reference - it is a comprehensive guide to cost forecasting, monitoring and cost management. Overall, this book can be read cover-to-cover, by individual parts, or as a reference for particular technologies. Take your time to browse the Table of Reference to discover the scope and get a feel for the depth of knowledge within each chapter and topic. Make the most of GCP's offerings to manage your data center workload and optimize deployments

**Key Features** Discover new techniques to administer, manage, and deploy applications on GCP Understand effective solutions for storing, retrieving, and deploying your container images Explore various offerings of GCP for operations and security

**Book Description** On-premise data centers are costly to manage. If you need a data center but don't want to deal with a physical one, Google Cloud Platform (GCP) is the solution. With GCP, you can build, test, and deploy applications on Google's infrastructure. Google Cloud Platform Administration begins with GCP fundamentals, with the help of which you will deploy your first app and gain an understanding of Google Cloud architecture and services. Furthermore, you will learn how to manage Compute, networking, and storage resources. As you make your way through the book, you will learn how to track and manage GCP's usage, monitoring, and billing access control. You will also be able to manage your GCP's access and permissions. In the

concluding chapters, you will explore a list of different developer tools for managing and interacting with the GCP platform. By the end of this book, you will have learned how to effectively deploy workloads on GCP. What you will learn

- Understand all GCP Compute components
- Deploy and manage multiple GCP storage options
- Manage and utilize the networking resources offered by GCP
- Explore the functionalities and features of the GCP Container
- Understand the workings of GCP operations such as monitoring and error reporting
- Discover an immune GCP using its identity and security options

Who this book is for

Google Cloud Platform Administration is for administrators, cloud architects, and engineers who want to leverage the upcoming Google Cloud Platform. Some basic understanding of cloud computing will be useful. The primary purpose of this book is to capture the state-of-the-art in Cloud Computing technologies and applications. The book will also aim to identify potential research directions and technologies that will facilitate creation a global market-place of cloud computing services supporting scientific, industrial, business, and consumer applications. We expect the book to serve as a reference for larger audience such as systems architects, practitioners, developers, new researchers and graduate level students. This area of research is relatively recent, and as such has no existing reference book that addresses it. This book will be a timely contribution to a field that is gaining considerable research interest, momentum, and is expected to be of increasing interest to commercial developers. The book is targeted for professional computer science developers and graduate students especially at Masters level. As Cloud Computing is recognized as one of the top five emerging technologies that will have a major impact on the quality of science and society over the next 20 years, its knowledge will help position our readers at the forefront of the field. 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-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-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. 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 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 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 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 the topics required to pass Google's Professional Cloud Architect exam and use Google Cloud services effectively. A Professional Cloud Architect enables organizations to leverage Google Cloud technologies. With a thorough understanding of cloud architecture and Google Cloud Platform, this individual can design, develop, and manage robust, secure, scalable, highly available, and dynamic solutions to drive business

objectives. The Google Cloud Certified - Professional Cloud Architect exam assesses your ability to: - Design and plan a cloud solution architecture. - Manage and provision the cloud solution infrastructure. - Design for security and compliance. - Analyze and optimize technical and business processes. - Manage implementations of cloud architecture. - Ensure solution and operations reliability. This Professional Cloud Architect exam practice test of Google Cloud has been advanced to test your knowledge before taking the official exam. Unlike other online simulation practice tests, you get an eBook version easy to read & remember these questions. You can simply rely on these 100+ questions for successfully certifying this exam. 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 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 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 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. 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

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 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 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. Learn how to design and build data warehouses using Google Cloud Platform solutions such as BigQuery. Explore the Essential Concepts, Tools, and Services in GCP

**KEY FEATURES**

- Build a solid foundation of the Google Cloud Platform.
- Work with different AI and Machine Learning services offered by Google Cloud.
- Learn how to use Google cloud services to build scalable apps.

**DESCRIPTION** Google Cloud platform has a suite of cloud computing services for developing and maintaining software. It includes products like Google Compute Engine, Google App Engine, Google Cloud Storage, and Google Container Engine. With so much to offer, we will learn how to manage services running on Google Cloud. 'Google Cloud Platform All-In-One Guide' is primarily for everyone who wants to get familiar with the comprehensive list of services in GCP. You will work with various cloud-based services

in computing, storage, database, and networking domains. You will understand how Big Data services can be used for developing end-to-end ETL/ELT pipelines. Lastly, you will explore various APIs available in Google cloud. The book ends with a chapter on best practices that will help you maximize resource utilization and cost optimization. By the end of the book, you will be able to design, develop, and deploy apps in GCP. WHAT YOU WILL

LEARN ● Explore and work with security and monitoring services in Google Cloud. ● Learn how to build an ETL Pipeline in the Google Cloud Platform. ● Build and deploy code-based custom models using Vertex AI and Jupyter notebook. ● Learn how to create workflows using GCP services. ● Get an overview of best practices for securely deploying your workloads on Google Cloud.

WHO THIS BOOK IS FOR This book is for everyone new to cloud computing or Google cloud. Cloud professionals who are looking to migrate their services to the Google cloud platform will find this book helpful. TABLE OF CONTENTS 1. Cloud Computing

Fundamentals 2. Compute in Google Cloud 3. Storage in Google Cloud 4. Database Services in Google Cloud 5. Networking in Google Cloud 6. Security and Monitoring Services in Google Cloud 7. Big Data in Google Cloud 8. AI/ML in Google Cloud 9. Orchestration Services in GCP 10. Migration Services in GCP 11.

Best Practices 12. Bonus Chapter 13. Use Cases Learn how easy it is to apply sophisticated statistical and machine learning methods to real-world problems when you build on top of the Google Cloud Platform (GCP). This hands-on guide shows developers entering the data science field how to implement an end-to-end data pipeline, using statistical and machine learning methods and tools on GCP. Through the course of the book, you'll work through a sample business decision by employing a variety of data science approaches. Follow along by implementing these statistical and machine learning solutions in your own project on GCP, and discover how this platform provides a transformative and more collaborative way of doing data science. You'll learn

how to: Automate and schedule data ingest, using an App Engine application  
Create and populate a dashboard in Google Data Studio  
Build a real-time analysis pipeline to carry out streaming analytics  
Conduct interactive data exploration with Google BigQuery  
Create a Bayesian model on a Cloud Dataproc cluster  
Build a logistic regression machine-learning model with Spark  
Compute time-aggregate features with a Cloud Dataflow pipeline  
Create a high-performing prediction model with TensorFlow  
Use your deployed model as a microservice you can access from both batch and real-time pipelines  
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 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 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 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. 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 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 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. 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+ 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. Google Cloud for the Big Data Solution Big Data is a collection of large datasets that cannot be processed using traditional computing techniques. It is not a single technique or a tool, rather it involves many areas of business and technology. Big Data usually contains structured and unstructured data that comprises large volumes and varieties of data managed globally and can be accessed at lightning speed with accuracy. The Google Cloud Platform has been the first choice for every customers and organizational business needs. The Google Cloud Platform (GCP) contains large numbers of customized options and preferences for varieties of business needs. Managing big data is not so easy until GCP solutions architecture and Google engines. Google Data Proc is a solution managed services in GCP for running Big data Hadoop Clusters and Spark jobs. Data Proc uses compute engines instances underling below, but uses Google Data Proc managed services for big data management of resources. Build machine learning (ML) solutions for Java development. This book shows you that when designing ML apps, data is the key driver and must be considered throughout all phases of the project life cycle. Practical Java Machine Learning helps you understand the importance of data and how to organize it for use within your ML project. You will be introduced to tools which can help you identify and manage your data including JSON, visualization,

NoSQL databases, and cloud platforms including Google Cloud Platform and Amazon Web Services. Practical Java Machine Learning includes multiple projects, with particular focus on the Android mobile platform and features such as sensors, camera, and connectivity, each of which produce data that can power unique machine learning solutions. You will learn to build a variety of applications that demonstrate the capabilities of the Google Cloud Platform machine learning API, including data visualization for Java; document classification using the Weka ML environment; audio file classification for Android using ML with spectrogram voice data; and machine learning using device sensor data. After reading this book, you will come away with case study examples and projects that you can take away as templates for re-use and exploration for your own machine learning programming projects with Java. What You Will Learn

- Identify, organize, and architect the data required for ML projects
- Deploy ML solutions in conjunction with cloud providers such as Google and Amazon
- Determine which algorithm is the most appropriate for a specific ML problem
- Implement Java ML solutions on Android mobile devices
- Create Java ML solutions to work with sensor data
- Build Java streaming based solutions

Who This Book Is For Experienced Java developers who have not implemented machine learning techniques before. Leverage the power of various Google Cloud AI Services by building a smart web application using MEAN Stack Key Features

- Start working with the Google Cloud Platform and the AI services it offers
- Build smart web applications by combining the power of Google Cloud AI services and the MEAN stack
- Build a web-based dashboard of smart applications that perform language processing, translation, and computer vision on the cloud

Book Description Cognitive services are the new way of adding intelligence to applications and services. Now we can use Artificial Intelligence as a service that can be consumed by any application or other service, to add smartness and make the end result more practical and useful.

Google Cloud AI enables you to consume Artificial Intelligence within your applications, from a REST API. Text, video and speech analysis are among the powerful machine learning features that can be used. This book is the easiest way to get started with the Google Cloud AI services suite and open up the world of smarter applications. This book will help you build a Smart Exchange, a forum application that will let you upload videos, images and perform text to speech conversions and translation services. You will use the power of Google Cloud AI Services to make our simple forum application smart by validating the images, videos, and text provided by users to Google Cloud AI Services and make sure the content which is uploaded follows the forum standards, without a human curator involvement. You will learn how to work with the Vision API, Video Intelligence API, Speech Recognition API, Cloud Language Process, and Cloud Translation API services to make your application smarter. By the end of this book, you will have a strong understanding of working with Google Cloud AI Services, and be well on the way to building smarter applications. What you will learn Understand Google Cloud Platform and its Cloud AI services Explore the Google ML Services Work with an Angular 5 MEAN stack application Integrate Vision API, Video Intelligence API for computer vision Be ready for conversational experiences with the Speech Recognition API, Cloud Language Process and Cloud Translation API services Build a smart web application that uses the power of Google Cloud AI services to make apps smarter Who this book is for This book is ideal for data professionals and web developers who want to use the power of Google Cloud AI services in their projects, without the going through the pain of mastering machine learning for images, videos and text. Some familiarity with the Google Cloud Platform will be helpful. Build cost-effective and robust cloud solutions with Google Cloud Platform (GCP) using these simple and practical recipes Key Features Explore the various service offerings of the GCP Host a Python application on Google Compute

EngineSecurely maintain application states with Cloud Storage, Datastore, and BigtableBook Description GCP is a cloud computing platform with a wide range of products and services that enable you to build and deploy cloud-hosted applications. This Learning Path will guide you in using GCP and designing, deploying, and managing applications on Google Cloud. You will get started by learning how to use App Engine to access Google's scalable hosting and build software that runs on this framework. With the help of Google Compute Engine, you'll be able to host your workload on virtual machine instances. The later chapters will help you to explore ways to implement authentication and security, Cloud APIs, and command-line and deployment management. As you hone your skills, you'll understand how to integrate your new applications with various data solutions on GCP, including Cloud SQL, Bigtable, and Cloud Storage. Following this, the book will teach you how to streamline your workflow with tools, including Source Repositories, Container Builder, and Stackdriver. You'll also understand how to deploy and debug services with IntelliJ, implement continuous delivery pipelines, and configure robust monitoring and alerts for your production systems. By the end of this Learning Path, you'll be well versed with GCP's development tools and be able to develop, deploy, and manage highly scalable and reliable applications. This Learning Path includes content from the following Packt products: Google Cloud Platform for Developers Ted Hunter and Steven PorterGoogle Cloud Platform Cookbook by Legorie Rajan PSWhat you will learnHost an application using Google Cloud FunctionsMigrate a MySQL database to Cloud SpannerConfigure a network for a highly available application on GCPLearn simple image processing using Storage and Cloud FunctionsAutomate security checks using Policy ScannerDeploy and run services on App Engine and Container EngineMinimize downtime and mitigate issues with Stackdriver Monitoring and DebuggerIntegrate with big data solutions, including BigQuery,

Dataflow, and Pub/SubWho this book is for This Learning Path is for IT professionals, engineers, and developers who want to implement Google Cloud in their organizations. Administrators and architects planning to make their organization more efficient with Google Cloud will also find this Learning Path useful. Basic understanding of GCP and its services is a must.

If you ally infatuation such a referred **Google Cloud Solutions** books that will come up with the money for you worth, get the entirely best seller from us currently from several preferred authors. If you want to witty books, lots of novels, tale, jokes, and more fictions collections are next launched, from best seller to one of the most current released.

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