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Are there any constraints known that bear on the ability to perform Google App Engine work? How is the team addressing them? How important is Google App Engine to the user organizations mission? Does the Google App Engine task fit the client's priorities? What would be the goal or target for a Google App Engine's improvement team? What problems are you facing and how do you consider Google App Engine will circumvent those obstacles? Defining, designing, creating, and implementing a process to solve a business challenge or meet a business objective is the most valuable role... In EVERY company, organization and department. Unless you are talking a one-time, single-use project within a business, there should be a process. Whether that process is managed and implemented by humans, AI, or a combination of the two, it needs to be designed by someone with a complex enough perspective to ask the right questions. Someone capable of asking the right questions and step back and say, 'What are we really trying to accomplish here? And is there a different way to look at it?' For more than twenty years, The Art of Service's Self-Assessments empower people who can do just that - whether their title is marketer, entrepreneur, manager, salesperson, consultant, business process manager, executive assistant, IT Manager, CxO etc... - they are the people who rule the future. They are people who watch the process as it happens, and ask the right questions to make the process work better. This book is for managers, advisors, consultants, specialists, professionals and anyone interested in Google App Engine assessment. All the tools you need to an in-depth

Google App Engine Self-Assessment. Featuring 693 new and updated case-based questions, organized into seven core areas of process design, this Self-Assessment will help you identify areas in which Google App Engine improvements can be made. In using the questions you will be better able to: - diagnose Google App Engine projects, initiatives, organizations, businesses and processes using accepted diagnostic standards and practices - implement evidence-based best practice strategies aligned with overall goals - integrate recent advances in Google App Engine and process design strategies into practice according to best practice guidelines Using a Self-Assessment tool known as the Google App Engine Scorecard, you will develop a clear picture of which Google App Engine areas need attention. Included with your purchase of the book is the Google App Engine Self-Assessment downloadable resource, which contains all questions and Self-Assessment areas of this book in a ready to use Excel dashboard, including the self-assessment, graphic insights, and project planning automation - all with examples to get you started with the assessment right away. Access instructions can be found in the book. You are free to use the Self-Assessment contents in your presentations and materials for customers without asking us - we are here to help. Build robust and highly scalable web applications with Google App Engine About This Book Get an in-depth look at how Google App Engine works under the hood Design and model your application around Google's highly scalable distributed NoSQL datastore to unlock its full potential A comprehensive guide to ensure your mastery

of Google App Engine Who This Book Is For If you have been developing web applications in Python or any other dynamic language but have always wondered how to write highly scalable web applications without getting into system administration and other plumbing, then this is the book for you. No experience in writing scalable applications is required.

What You Will Learn Scale and develop your applications with Google App Engine's runtime environment Get to grips with request handling mechanism and write request handlers Deep dive into Google's distributed NoSQL and highly scalable datastore and design your application around it Implement powerful search with scalable datastore Perform long-running tasks in the background using task queues Write compartmentalized apps using multi tenancy, memcache, and other Google App Engine runtime services Handle web requests using the CGI, WSGI, and multi-threaded configurations Deploy, tweak, and manage apps in production on Google App Engine In Detail Developing web applications that serve millions of users is no easy task, as it involves a number of configurations and administrative tasks for the underlying software and hardware stack. This whole configuration requires not only expertise, but also a fair amount of time as well. Time that could have been spent on actual application functionality. Google App Engine allows you develop highly scalable web applications or backends for mobile applications without worrying about the system administration plumbing or hardware provisioning issues. Just focus writing on your business logic, the meat of the application, and let

Google's powerful infrastructure scale it to thousands of requests per second and millions of users without any effort on your part. This book takes you from explaining how scalable applications work to designing and developing robust scalable web applications of your own, utilizing services available on Google App Engine. Starting with a walkthrough of scalability is and how scalable web applications work, this book introduces you to the environment under which your applications exist on Google App Engine. Next, you will learn about Google's datastore, which is a massively scalable distributed NoSQL solution built on top of BigTable. You will examine the BigTable concepts and operations in detail and reveal how it is used to build Google datastore. Armed with this knowledge, you will then advance towards how to best model your data and query that along with transactions. To augment the powerful distributed dataset, you will deep dive into search functionality offered on Google App Engine. With the search and storage sorted out, you will get a look into performing long running tasks in the background using Google App Engine task queues along with sending and receiving emails. You will also examine the memcache to boost web application performance, image processing for common image manipulation tasks. You will then explore uploading, storing, and serving large files using Blobstore and Cloud storage. Finally, you will be presented with the deployment and monitoring of your applications in production along with a detailed look at dividing applications into different working modules. Style and approach This book is an in-depth guide where you will

examine the problems in the context of highly scalable web applications. This book will take you through the libraries, services, and required configuration and finally puts everything together into a small web application that showcases all the capabilities of Google App Engine. Google App Engine makes it easy to create a web application that can serve millions of people as easily as serving hundreds, with minimal up-front investment. With *Programming Google App Engine*, Google engineer Dan Sanderson provides practical guidance for designing and developing your application on Google's vast infrastructure, using App Engine's scalable services and simple development model. Through clear and concise instructions, you'll learn how to get the most out of App Engine's nearly unlimited computing power. This second edition is fully updated and expanded to cover Python 2.7 and Java 6 support, multithreading, asynchronous service APIs, and the use of frameworks such as Django 1.3 and webapp2. Understand how App Engine handles web requests and executes application code Learn about new datastore features for queries and indexes, transactions, and data modeling Create, manipulate, and serve large data files with the Blobstore Use task queues to parallelize and distribute computation across the infrastructure Employ scalable services for email, instant messaging, and communicating with web services Track resource consumption, and optimize your application for speed and cost effectiveness 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 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 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 and DevOps professionals and for those who wish to learn about Google Cloud services and incorporate them into end-to-end cloud applications. TABLE OF CONTENTS 1. Introducing Cloud Native Apps 2. Developing Cloud Native Apps with Cloud Shell 3. Preparing Source-Code with Cloud Build 4. Create and Deploy Microservices 5. Building and Deploying Containers in Cloud Build 6. Create a Serverless Pipeline with Pub/Sub, Dataflow and BigQuery 7. Container Orchestration with Google Kubernetes Engine 8. Deploying and Managing Kubernetes Applications 9. Optimizing Kubernetes Cluster and Apps in GKE 10. Deploying a CI/CD Pipeline with Kubernetes and Cloud Build 11. Build a Software Delivery Platform with Anthos 12. Application Management with Anthos 13. Securing Cloud Native Apps in Anthos Google App Engine is one of the key technologies to emerge in recent years to help you build scalable web applications even if you have limited previous experience. If you are a Java programmer, this book offers you a Java approach to beginning Google App Engine. You will explore the runtime environment, front-end technologies like Google Web Toolkit, Adobe Flex, and the datastore behind App Engine. You'll also explore Java support on App Engine from end to end. The journey begins with a look at the Google Plugin for Eclipse and finishes with a

working web application that uses Google Web Toolkit, Google Accounts, and Bigtable. Along the way, you'll dig deeply into the services that are available to access the datastore with a focus on Java Data Objects (JDO), JDOQL, and other aspects of Bigtable. With this solid foundation in place, you'll then be ready to tackle some of the more advanced topics like integration with other cloud platforms such as Salesforce.com and Google Wave.

NOTE: The source code files which accompanied this title are no longer available. Neither Apress nor the author is able to supply these files. This practical guide shows intermediate and advanced web and mobile app developers how to build highly scalable Java applications in the cloud with Google App Engine. The flagship of Google's Cloud Platform, App Engine hosts your app on infrastructure that grows automatically with your traffic, minimizing up-front costs and accommodating unexpected visitors. You'll learn hands-on how to perform common development tasks with App Engine services and development tools, including deployment and maintenance. For Java applications, App Engine provides a J2EE standard servlet container with a complete Java 7 JVM and standard library. Because App Engine supports common Java API standards, your code stays clean and portable. Get a hands-on introduction to App Engine's tools and features, using an example application Simulate App Engine on your development machine directly from Eclipse Structure your app into individually addressable modules, each with its own scaling configuration Exploit the power of the scalable Cloud Datastore, using queries,

transactions, and data modeling with JPA Use Cloud SQL for standard relational databases with App Engine applications Learn how to deploy, manage, and inspect your application on Google infrastructure. Build exciting, scalable web applications quickly and confidently using Google App Engine and this book, even if you have little or no experience in programming or web development. App Engine is perhaps the most appealing web technology to appear in the last year, providing an easy-to-use application framework with basic web tools. While Google's own tutorial assumes significant experience, Using Google App Engine will help anyone get started with this platform. By the end of this book, you'll know how to build complete, interactive applications and deploy them to the cloud using the same servers that power Google applications. With this book, you will: Get an overview of the technologies necessary to use Google App Engine Learn how to use Python, HTML, Cascading Style Sheets (CSS), HTTP, and DataStore, App Engine's database Grasp the technical aspects necessary to create sophisticated, dynamic web applications Understand what's required to deploy your applications Using Google App Engine is also an excellent resource for experienced programmers who want to acquire working knowledge of web technologies. Building web applications used to be for experts only, but with Google App Engine-and this book-anyone can create a dynamic web presence. Build cost-effective and robust cloud solutions with Google Cloud Platform (GCP) using these simple and practical recipes Key FeaturesExplore the various service offerings of the GCPHost 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. 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. Learn how to run large-scale, data-intensive workloads with Compute Engine, Google's cloud platform. Written by Google engineers, this tutorial walks you through the

details of this Infrastructure as a Service by showing you how to develop a project with it from beginning to end. You'll learn best practices for using Compute Engine, with a focus on solving practical problems. With programming examples written in Python and JavaScript, you'll also learn how to use Compute Engine with Docker containers and other platforms, frameworks, tools, and services. Discover how this IaaS helps you gain unparalleled performance and scalability with Google's advanced storage and computing technologies. Access and manage Compute Engine resources with a web UI, command-line interface, or RESTful interface Configure, customize, and work with Linux VM instances Explore storage options: persistent disk, Cloud Storage, Cloud SQL (MySQL in the cloud), or Cloud Datastore NoSQL service Use multiple private networks, and multiple instances on each network Build, deploy, and test a simple but comprehensive cloud computing application step-by-step Use Compute Engine with Docker, Node.js, ZeroMQ, Web Starter Kit, AngularJS, WebSocket, and D3.js In Essential App Engine, Adriaan de Jonge shows Java developers how to rapidly build complex, production-quality, performance-driven cloud applications with Google App Engine. Using a start-to-finish case study and extensive Java example code, De Jonge covers the entire lifecycle, from application design and data modeling through security, testing, and deployment. De Jonge introduces breakthrough techniques for creating applications that respond within two seconds, even on cold startup, and allow server responses in hundreds of milliseconds or less throughout the rest of the

session. He also demonstrates how to avoid common mistakes that can dramatically reduce cloud application performance and scalability. He thoroughly covers state-of-the-art user interface development and shows how to make the most of Google App Engine's extensive set of APIs. Coverage includes Setting up a development environment that makes it easy to continually address performance Understanding the anatomy of a Google App Engine application Making the right technical setup and design choices for each new application Efficiently modeling data for App Engine's NoSQL data storage Recognizing when to avoid OR-mapping and pass datastore entities directly to HTML templates Finding alternatives to frameworks and libraries that impair App Engine performance Using JavaScript and AJAX on the client side of your cloud applications Improving browser performance and reducing resource consumption via better use of HTML5 and CSS3 Taking advantage of key App Engine APIs: datastore, blobstore, mail, task scheduling, memory caching, URL retrieval, and messaging Securing cloud-based Web applications with Google Accounts, OpenID, and OAuth Improving your cloud development, quality assurance, and deployment processes Targeting, marketing, and selling cloud solutions, from planning to payment handling 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. If you are a Python developer, whether you have experience in web applications development or not, and want to rapidly deploy a scalable backend service or a modern web application on Google App Engine, then this book is for you. This practical guide shows intermediate and advanced web and mobile app developers how to build highly scalable Python applications in the cloud with Google App Engine. The flagship of Google's Cloud Platform, App Engine hosts your app on infrastructure that grows automatically with your traffic, minimizing up-front costs and accommodating unexpected visitors. You'll learn hands-on how to perform common development tasks with App Engine services and development tools, including deployment and maintenance. App Engine's Python support includes a fast Python 2.7 interpreter, the standard library, and a WSGI-based runtime environment. Choose from many popular web application frameworks, including Django and Flask. Get a hands-on introduction to App Engine's tools and features, using an example application Simulate App Engine on your development machine with tools from Google Cloud SDK Structure your app into individually addressable modules, each with its own scaling configuration Exploit the power of the scalable Cloud Datastore, using queries, transactions, and data modeling with the ndb library Use Cloud SQL for standard relational databases

with App Engine applications Learn how to deploy, manage, and inspect your application on Google infrastructure Developing with Google App Engine introduces development with Google App Engine, a platform that provides developers and users with infrastructure Google itself uses to develop and deploy massively scalable applications. Introduction to concepts Development with App Engine Deployment into App Engine Building Your Next Big Thing with Google Cloud Platform shows you how to take advantage of the Google Cloud Platform technologies to build all kinds of cloud-hosted software and services for both public and private consumption. Whether you need a simple virtual server to run your legacy application or you need to architect a sophisticated high-traffic web application, Cloud Platform provides all the tools and products required to create innovative applications and a robust infrastructure to manage them. Google is known for the scalability, reliability, and efficiency of its various online products, from Google Search to Gmail. And, the results are impressive. Google Search, for example, returns results literally within fractions of second. How is this possible? Google custom-builds both hardware and software, including servers, switches, networks, data centers, the operating system's stack, application frameworks, applications, and APIs. Have you ever imagined what you could build if you were able to tap the same infrastructure that Google uses to create and manage its products? Now you can! Building Your Next Big Thing with Google Cloud Platform shows you how to take advantage of the Google Cloud Platform technologies to build all kinds of cloud-

hosted software and services for both public and private consumption. Whether you need a simple virtual server to run your legacy application or you need to architect a sophisticated high-traffic web application, Cloud Platform provides all the tools and products required to create innovative applications and a robust infrastructure to manage them. Using this book as your compass, you can navigate your way through the Google Cloud Platform and turn your ideas into reality. The authors, both Google Developer Experts in Google Cloud Platform, systematically introduce various Cloud Platform products one at a time and discuss their strengths and scenarios where they are a suitable fit. But rather than a manual-like "tell all" approach, the emphasis is on how to Get Things Done so that you get up to speed with Google Cloud Platform as quickly as possible. You will learn how to use the following technologies, among others: Google Compute Engine Google App Engine Google Container Engine Google App Engine Managed VMs Google Cloud SQL Google Cloud Storage Google Cloud Datastore Google BigQuery Google Cloud Dataflow Google Cloud DNS Google Cloud Pub/Sub Google Cloud Endpoints Google Cloud Deployment Manager Author on Google Cloud Platform Google APIs and Translate API Using real-world examples, the authors first walk you through the basics of cloud computing, cloud terminologies and public cloud services. Then they dive right into Google Cloud Platform and how you can use it to tackle your challenges, build new products, analyze big data, and much more. Whether you're an independent developer, startup, or Fortune 500 company,

is known for the scalability, reliability, and efficiency of its various online products, from Google Search to Gmail. And, the results are impressive. Google Search, for example, returns results literally within fractions of second. How is this possible? Google custom-builds both hardware and software, including servers, switches, networks, data centers, the operating system's stack, application frameworks, applications, and APIs. Have you ever imagined what you could build if you were able to tap the same infrastructure that Google uses to create and manage its products? Now you can! **Building Your Next Big Thing with Google Cloud Platform** shows you how to take advantage of the Google Cloud Platform technologies to build all kinds of cloud-hosted software and services for both public and private consumption. Whether you need a simple virtual server to run your legacy application or you need to architect a sophisticated high-traffic web application, Cloud Platform provides all the tools and products required to create innovative applications and a robust infrastructure to manage them. Using this book as your compass, you can navigate your way through the Google Cloud Platform and turn your ideas into reality. The authors, both Google Developer Experts in Google Cloud Platform, systematically introduce various Cloud Platform products one at a time and discuss their strengths and scenarios where they are a suitable fit. But rather than a manual-like "tell all" approach, the emphasis is on how to Get Things Done so that you get up to speed with Google Cloud Platform as quickly as possible. You will learn how to use the following technologies, among others: • Google

Compute Engine • Google App Engine • Google Container Engine • Google App Engine Managed VMs • Google Cloud SQL • Google Cloud Storage • Google Cloud Datastore • Google BigQuery • Google Cloud Dataflow • Google Cloud DNS • Google Cloud Pub/Sub • Google Cloud Endpoints • Google Cloud Deployment Manager • Author on Google Cloud Platform • Google APIs and Translate API Using real-world examples, the authors first walk you through the basics of cloud computing, cloud terminologies and public cloud services. Then they dive right into Google Cloud Platform and how you can use it to tackle your challenges, build new products, analyze big data, and much more. Whether you're an independent developer, startup, or Fortune 500 company, you have never had easier to access to world-class prod... Developing with Google App Engine introduces development with Google App Engine, a platform that provides developers and users with infrastructure Google itself uses to develop and deploy massively scalable applications. Introduction to concepts Development with App Engine Deployment into App Engine Summary Google Cloud Platform in Action teaches you to build and launch applications that scale, leveraging the many services on GCP to move faster than ever. You'll learn how to choose exactly the services that best suit your needs, and you'll be able to build applications that run on Google Cloud Platform and start more quickly, suffer fewer disasters, and require less maintenance. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Thousands of developers worldwide trust

Google Cloud Platform, and for good reason. With GCP, you can host your applications on the same infrastructure that powers Search, Maps, and the other Google tools you use daily. You get rock-solid reliability, an incredible array of prebuilt services, and a cost-effective, pay-only-for-what-you-use model. This book gets you started. About the Book Google Cloud Platform in Action teaches you how to deploy scalable cloud applications on GCP. Author and Google software engineer JJ Geewax is your guide as you try everything from hosting a simple WordPress web app to commanding cloud-based AI services for computer vision and natural language processing. Along the way, you'll discover how to maximize cloud-based data storage, roll out serverless applications with Cloud Functions, and manage containers with Kubernetes. Broad, deep, and complete, this authoritative book has everything you need. What's inside The many varieties of cloud storage and computing How to make cost-effective choices Hands-on code examples Cloud-based machine learning About the Reader Written for intermediate developers. No prior cloud or GCP experience required. About the Author JJ Geewax is a software engineer at Google, focusing on Google Cloud Platform and API design. Table of Contents PART 1 - GETTING STARTED What is "cloud"? Trying it out: deploying WordPress on Google Cloud The cloud data center PART 2 - STORAGE Cloud SQL: managed relational storage Cloud Datastore: document storage Cloud Spanner: large-scale SQL Cloud Bigtable: large-scale structured data Cloud Storage: object storage PART 3 - COMPUTING Compute

Engine: virtual machines Kubernetes Engine: managed Kubernetes clusters App Engine: fully managed applications Cloud Functions: serverless applications Cloud DNS: managed DNS hosting PART 4 - MACHINE LEARNING Cloud Vision: image recognition Cloud Natural Language: text analysis Cloud Speech: audio-to-text conversion Cloud Translation: multilanguage machine translation Cloud Machine Learning Engine: managed machine learning PART 5 - DATA PROCESSING AND ANALYTICS BigQuery: highly scalable data warehouse Cloud Dataflow: large-scale data processing Cloud Pub/Sub: managed event publishing 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 Features Discover how a sample legacy application can be transformed into a cloud-native application on Google Cloud Learn where to start and how to apply application modernization techniques and tooling Work with real-world use cases and instructions to modernize an application on Google Cloud Book 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 learn

Discover the principles and best practices for building cloud-native applications

Study the six Rs of migration strategy and learn when to choose which strategy

Rehost a legacy enterprise application on Google Compute Engine

Replatform an application to use Google Load Balancer and Google Cloud SQL

Refactor into a single-page application (SPA) supported by REST services

Replatform an application to use Google Identity Platform and Firebase Authentication

Refactor to microservices using the strangler pattern

Automate the deployment process using a CI/CD pipeline with Google Cloud Build

Who 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. 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. 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 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 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. Does Google App Engine analysis show the relationships among important Google App Engine factors? Among the Google App Engine product and service cost to be estimated, which is considered hardest to

estimate? Will team members perform Google App Engine work when assigned and in a timely fashion? Does our organization need more Google App Engine education? What vendors make products that address the Google App Engine needs? Defining, designing, creating, and implementing a process to solve a challenge or meet an objective is the most valuable role... In EVERY group, company, organization and department. Unless you are talking a one-time, single-use project, there should be a process. Whether that process is managed and implemented by humans, AI, or a combination of the two, it needs to be designed by someone with a complex enough perspective to ask the right questions. Someone capable of asking the right questions and step back and say, 'What are we really trying to accomplish here? And is there a different way to look at it?' This Self-Assessment empowers people to do just that - whether their title is entrepreneur, manager, consultant, (Vice-)President, CxO etc... - they are the people who rule the future. They are the person who asks the right questions to make Google App Engine investments work better. This Google App Engine All-Inclusive Self-Assessment enables You to be that person. All the tools you need to an in-depth Google App Engine Self-Assessment. Featuring 693 new and updated case-based questions, organized into seven core areas of process design, this Self-Assessment will help you identify areas in which Google App Engine improvements can be made. In using the questions you will be better able to: - diagnose Google App Engine projects, initiatives, organizations, businesses and processes using accepted diagnostic

standards and practices - implement evidence-based best practice strategies aligned with overall goals - integrate recent advances in Google App Engine and process design strategies into practice according to best practice guidelines Using a Self-Assessment tool known as the Google App Engine Scorecard, you will develop a clear picture of which Google App Engine areas need attention. Your purchase includes access details to the Google App Engine self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows your organization exactly what to do next. Your exclusive instant access details can be found in your book. 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 Google App Engine' (often referenced to like 'GAE' either plainly 'app Engine') is a program like a facility (PaaS) cloud computing program for elaborating and servicing net applications in Google-managed information hubs. Applications are sandboxed and run athwart numerous servers. App Engine provides automated gauging for net applications-as the numeral of calls upsurges for an program, App Engine automatically allocates further assets for the net program to cover the extra request. There has never been a Google App Engine Guide like this. It contains 72 answers, much more than you can imagine; comprehensive answers and extensive details and references, with insights that have never before been offered in print. Get the information you need--fast! This all-embracing guide offers a thorough view of key knowledge and detailed insight. This Guide introduces what you want to know about Google App Engine. A quick look inside of some of the subjects covered: Google App Engine, Embedded database - H2, Google App Engine Usage quotas, MongoDB - History, Amazon EC2 - Competitors, Google App Engine - Portability concerns, Comet (programming) - Alternatives, Comparison of CRM systems General, Platform as a service - Types, Django (web framework) - Server arrangements, Cloud infrastructure - Research, HDFS - Commercial support, Red Hat OpenShift - Competitors,

OrangeScape - Product, Google App Engine Differences between SQL and GQL, Stripes (framework) - Features, BigTable, Spring Roo - Standards and Technology Compatibility, Cloud computing - Research, AppScale, Optimistic concurrency control - Examples, Google Code, Cloud computing - Hosted services, Hadoop - Commercially supported Hadoop-related products, Vaadin - Features, Jetty (web server), Heroku - Competitors, Heroku - Competitors, Appengine, Apache Hadoop Commercially supported Hadoop-related products, Cloud computing Research, and much more... This practical guide shows intermediate and advanced web and mobile app developers how to build highly scalable Java applications in the cloud with Google App Engine. The flagship of Google's Cloud Platform, App Engine hosts your app on infrastructure that grows automatically with your traffic, minimizing up-front costs and accommodating unexpected visitors. You'll learn hands-on how to perform common development tasks with App Engine services and development tools, including deployment and maintenance. For Java applications, App Engine provides a J2EE standard servlet container with a complete Java 7 JVM and standard library. Because App Engine supports common Java API standards, your code stays clean and portable. Get a hands-on introduction to App Engine's tools and features, using an example application Simulate App Engine on your development machine directly from Eclipse Structure your app into individually addressable modules, each with its own scaling configuration Exploit the power of the scalable Cloud Datastore, using queries,

transactions, and data modeling with JPA Use Cloud SQL for standard relational databases with App Engine applications Learn how to deploy, manage, and inspect your application on Google infrastructure This practical guide shows intermediate and advanced web and mobile app developers how to build highly scalable Java applications in the cloud with Google App Engine. The flagship of Google's Cloud Platform, App Engine hosts your app on infrastructure that grows automatically with your traffic, minimizing up-front costs and accommodating unexpected visitors. You'll learn hands-on how to perform common development tasks with App Engine services and development tools, including deployment and maintenance. For Java applications, App Engine provides a J2EE standard servlet container with a complete Java 7 JVM and standard library. Because App Engine supports common Java API standards, your code stays clean and portable. Get a hands-on introduction to App Engine's tools and features, using an example application Simulate App Engine on your development machine directly from Eclipse Structure your app into individually addressable modules, each with its own scaling configuration Exploit the power of the scalable Cloud Datastore, using queries, transactions, and data modeling with JPA Use Cloud SQL for standard relational databases with App Engine applications Learn how to deploy, manage, and inspect your application on Google infrastructure Managing Real-world Production-grade Challenges at Scale KEY FEATURES ? Built for GCP professionals and Cloud enthusiasts with cloud-agnostic tactics. ? Exhaustive coverage of

automatic, manual, and predictive scaling and specialized strategies. ? Every concept is pragmatized with real-time production scenarios derived from prominent technologists.

DESCRIPTION ‘Scaling Google Cloud Platform’ equips developers with the know-how to get the most out of its services in storage, serverless computing, networking, infrastructure monitoring, and other IT tasks. This book explains the fundamentals of cloud scaling, including Cloud Elasticity, creating cloud workloads, and selecting the appropriate cloud scaling key performance indicators (KPIs). The book explains the sections of GCP resources that can be scaled, as well as their architecture and internals, and best practices for using these components in an operational setting in detail. The book also discusses scaling techniques such as predictive scaling, auto-scaling, and manual scaling. This book includes real-world examples illustrating how to scale many Google Cloud services, including the compute engine, GKE, VMWare Engine, Cloud Function, Cloud Run, App Engine, BigTable, Spanner, Composer, Dataproc, and Dataflow. At the end of the book, the author delves into the two most common architectures—Microservices and Bigdata to examine how you can perform reliability engineering for them on GCP.

WHAT YOU WILL LEARN ? Learn workload migration strategy and execution, both within and between clouds. ? Explore methods of increasing Google Cloud capacity for running VMware Engine and containerized applications. ? Scaling up and down methods include manual, predictive, and automatic approaches. ? Increase the capacity of your Dataproc cluster to

handle your big data computing needs. ? Learn Google Dataflow's scalability considerations for large-scale installations. ? Explore Google Composer 2 and scale up your Cloud Spanner instances. ? Learn to set up Cloud functions and Cloud run. ? Discuss general SRE procedures on microservices and big data. WHO THIS BOOK IS FOR This book is designed for Cloud professionals, software developers, architects, DevOps team, and engineering managers to explain scaling strategies for GCP services and assumes readers know GCP basics. TABLE OF CONTENTS 1. Basics of Scaling Cloud Resources 2. KPI for Cloud Scalability 3. Cloud Elasticity 4. Challenges of Infrastructure Complexity and the Way Forward 5. Scaling Compute Engine 6. Scaling Kubernetes Engine 7. Scaling VMware Engine 8. Scaling App Engine 9. Scaling Google Cloud Function and Cloud Run 10. Configuring Bigtable for Scale 11. Configuring Cloud Spanner for Scale 12. Scaling Google Composer 2 13. Scaling Google Dataproc 14. Scaling Google Dataflow 15. Site Reliability Engineering 16. SRE Use Cases Are there any constraints known that bear on the ability to perform Google App Engine work? How is the team addressing them? How important is Google App Engine to the user organizations mission? Does the Google App Engine task fit the client's priorities? What would be the goal or target for a Google App Engine's improvement team? What problems are you facing and how do you consider Google App Engine will circumvent those obstacles? Defining, designing, creating, and implementing a process to solve a business challenge or meet a business objective is the most valuable

role... In EVERY company, organization and department. Unless you are talking a one-time, single-use project within a business, there should be a process. Whether that process is managed and implemented by humans, AI, or a combination of the two, it needs to be designed by someone with a complex enough perspective to ask the right questions. Someone capable of asking the right questions and step back and say, 'What are we really trying to accomplish here? And is there a different way to look at it?' For more than twenty years, The Art of Service's Self-Assessments empower people who can do just that - whether their title is marketer, entrepreneur, manager, salesperson, consultant, business process manager, executive assistant, IT Manager, CxO etc... - they are the people who rule the future. They are people who watch the process as it happens, and ask the right questions to make the process work better. This book is for managers, advisors, consultants, specialists, professionals and anyone interested in Google App Engine assessment. All the tools you need to an in-depth Google App Engine Self-Assessment. Featuring 693 new and updated case-based questions, organized into seven core areas of process design, this Self-Assessment will help you identify areas in which Google App Engine improvements can be made. In using the questions you will be better able to: - diagnose Google App Engine projects, initiatives, organizations, businesses and processes using accepted diagnostic standards and practices - implement evidence-based best practice strategies aligned with overall goals - integrate recent advances in Google App Engine and process design

strategies into practice according to best practice guidelines Using a Self-Assessment tool known as the Google App Engine Scorecard, you will develop a clear picture of which Google App Engine areas need attention. Included with your purchase of the book is the Google App Engine Self-Assessment downloadable resource, which contains all questions and Self-Assessment areas of this book in a ready to use Excel dashboard, including the self-assessment, graphic insights, and project planning automation - all with examples to get you started with the assessment right away. Access instructions can be found in the book. You are free to use the Self-Assessment contents in your presentations and materials for customers without asking us - we are here to help. Provides information on building Web applications using Google App Engine. 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. "Code

in the Cloud" will teach users what a cloud service is, and how it differs from traditional applications. It will show readers how to build a cloud service, taking advantage of the services that AppEngine makes available to them. Think about the functions involved in your Google App Engine project, what processes flow from these functions? Do you combine technical expertise with business knowledge and Google App Engine Key topics include lifecycles, development approaches, requirements and how to make a business case? What happens if Google App Engine's scope changes? How sensitive must the Google App Engine strategy be to cost? What Google App Engine data should be managed? This astounding Google App Engine self-assessment will make you the principal Google App Engine domain veteran by revealing just what you need to know to be fluent and ready for any Google App Engine challenge. How do I reduce the effort in the Google App Engine work to be done to get problems solved? How can I ensure that plans of action include every Google App Engine task and that every Google App Engine outcome is in place? How will I save time investigating strategic and tactical options and ensuring Google App Engine costs are low? How can I deliver tailored Google App Engine advice instantly with structured going-forward plans? There's no better guide through these mind-expanding questions than acclaimed best-selling author Gerard Blokdyk. Blokdyk ensures all Google App Engine essentials are covered, from every angle: the Google App Engine self-assessment shows succinctly and clearly that what needs to be clarified to organize the

required activities and processes so that Google App Engine outcomes are achieved. Contains extensive criteria grounded in past and current successful projects and activities by experienced Google App Engine practitioners. Their mastery, combined with the easy elegance of the self-assessment, provides its superior value to you in knowing how to ensure the outcome of any efforts in Google App Engine are maximized with professional results. Your purchase includes access details to the Google App Engine self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows you exactly what to do next. Your exclusive instant access details can be found in your book. You will receive the following contents with New and Updated specific criteria:

- The latest quick edition of the book in PDF
- The latest complete edition of the book in PDF, which criteria correspond to the criteria in...
- The Self-Assessment Excel Dashboard - Example pre-filled Self-Assessment Excel Dashboard to get familiar with results generation
- In-depth and specific Google App Engine Checklists - Project management checklists and templates to assist with implementation

INCLUDES LIFETIME SELF ASSESSMENT UPDATES Every self assessment comes with Lifetime Updates and Lifetime Free Updated Books. Lifetime Updates is an industry-first feature which allows you to receive verified self assessment updates, ensuring you always have the most accurate information at your fingertips. Discover how Google Cloud services can help you to reduce operational tasks and focus on delivering business value with your applications

Key Features Design, develop,

and deploy end-to-end cloud-native applications using Google Cloud services Prepare for the GCP developer exam with the help of a fictitious business case and a Q&A section Get hands-on with implementing code examples of different GCP services in your applications

Book Description 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 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

Get to grips with the fundamentals of Google Cloud Platform development Discover security best practices for applications in the

cloudFind ways to create and modernize legacy applicationsUnderstand how to manage data and databases in Google CloudExplore best practices for site reliability engineering, monitoring, logging, and debuggingBecome well-versed with the practical implementation of GCP with the help of a case studyWho 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. As one of today's cloud computing services, Google App Engine does more than provide access to a large system of servers. It also offers you a simple model for building applications that scale automatically to accommodate millions of users. With Programming Google App Engine, you'll get expert practical guidance that will help you make the best use of this powerful platform. Google engineer Dan Sanderson shows you how to design your applications for scalability, including ways to perform common development tasks using App Engine's APIs and scalable services. You'll learn about App Engine's application server architecture, runtime environments, and scalable datastore for distributing data, as well as techniques for optimizing your application. App Engine offers nearly unlimited computing power, and this book provides clear and concise instructions for getting the most from it right from the source. Discover the differences between traditional web development and development with App Engine Learn the details of App Engine's Python and Java runtime environments Understand how App Engine

handles web requests and executes application code Learn how to use App Engine's scalable datastore, including queries and indexes, transactions, and data modeling Use task queues to parallelize and distribute work across the infrastructure Deploy and manage applications with ease 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

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