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Google Cloud Platform for Architects [Book]

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.

Google Cloud Platform for Architects [PDF] - Programmer Books

Judy Raj is a Google Certified Professional Cloud Architect, and she has great experience with the three leading cloud platforms, namely AWS, Azure, and the GCP. She has also worked with a wide range of technologies in machine learning, data science, IoT, robotics, and mobile and web app development.

Google Cloud Platform for Architects - Packt

The 'Google Cloud Platform an Architect's Guide' book 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.

Google Cloud Platform an Architect's Guide: Learn ...

Packt Publishing Release Date: June 26, 2018 Imprint: Packt Publishing ISBN: 9781788833073 Language: English Download options: EPUB 3 (Adobe DRM)

Google Cloud Platform for Architects - Ebook Forest

Google Cloud Platform. Professional Cloud Architect — 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.

What Exactly Is a Cloud Architect and How Do You Become One?

The Google Cloud Console provides a web-based, graphical user interface that you can use to manage your Google Cloud projects and resources. When you use the Cloud Console, you create a new...

Google Cloud overview | Overview
Google Cloud Platform

Google Cloud Platform
Cloud Architects have a thorough understanding of cloud architecture. They design, develop, and manage robust and scalable cloud architecture solutions. In both 2019 and 2020, the Google Cloud...

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Microservices Architecture on Google App Engine

The ability to create GCP architecture diagrams is delivered by Google Cloud Platform solution. This solution contains a set of symbols and templates to visually represent features of and systems that give developers the ability to create their own applications running in a Google cloud infrastructure. Run ConceptDraw DIAGRAM. Select the Google Cloud Platform solution on the solutions panel and click the libraries preview to reveal them on the Library panel.

Creating a Google Cloud Platform Architecture Diagram ...

Google Cloud Platform is a cloud platform developed by Google, that helps people to access the cloud

systems and computing services. GCP offers a large number of services under the compute, database, storage, migration and networking domains of cloud computing.

Top 30 Google Cloud Interview Questions and Answers ...

The Google Cloud Professional Cloud Architect certification was ranked one of the top paying IT certifications of 2019 by Global Knowledge. This program provides the skills you need to advance your career in cloud architecture and provides a pathway to earn the industry-recognized Google Cloud Professional Cloud Architect certification.

Cloud Architecture with Google Cloud Professional ...

Google Cloud Storage provides a global repository for these assets. Our architecture deploys static content to Cloud Storage and then syncs to Compute Engine (GCE) to render dynamic pages. The...

Cloud Architect: How to build architectural diagrams of ...

Judy Raj is a Google Certified Professional Cloud Architect, and she has great experience with the three leading cloud platforms, namely AWS, Azure, and the GCP. She has also worked with a wide range of technologies in machine learning, data science, IoT, robotics, and mobile and web app development.

Google Cloud Platform for Architects: Design and manage ...

Google's Cloud platform is rapidly increasing market share, and the Google Cloud Professional Cloud Architect certification acknowledges your proficiency in all aspects of Google Cloud architecture. Enhance your job prospects by mastering every skill required to achieve this certification.

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.

Learn fundamental to advanced GCP architectural concepts and techniques using 30+ real-world GCP use-cases. The 'Google Cloud Platform an Architect's Guide' book 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.Table of ContentsGoogle Cloud Platform an Architect's GuideChapter 1 - An Introduction to the Google Cloud PlatformChapter 2 - Introduction to Cloud SecurityChapter 3 - Interacting with Google Cloud PlatformChapter 4 - Compute Engine and Virtual MachinesChapter 5 - Cloud Data StorageChapter 6 - Containers and Kubernetes EngineChapter 7 - App EngineChapter 8 - Cloud FunctionsChapter 9 - Using GCP Cloud ToolsChapter 10 - Cloud Big Data SolutionsChapter 11 - Machine LearningChapter 12 - Google Cloud NetworkingChapter 13 - VMs in Compute Engine deep-diveChapter 14 - Identity Access Management a deep-diveChapter 15 - Data Storage Services a deep-diveChapter 16 - Resource and Cost ManagementChapter 17 - Network Interconnects and VPC SharingChapter 18 - Automation, Elasticity and Auto-ScalingChapter 19 - Automating infrastructure with GCP APIs.Chapter 20 - Elastic Cloud: Containers and ServicesChapter 21 - Cloud Service DesignChapter 22 - Use Case: Cloud Service DesignChapter 23 - Cloud Architecture LayersChapter 24 - Resilient or High-Availability DesignChapter 25 - Security by Design and by DefaultChapter 26 - Building an Architecture for IoTChapter 27 - Cloud MigrationChapter 28 - Cloud DimensioningChapter 29 - Monitoring, Alerting, & Incident Response

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An indispensable guide to the newest version of the Google Certified Professional Cloud Architect

certification The newly revised Second Edition of the Google Cloud Certified Professional Cloud Architect Study Guide delivers a proven and effective roadmap to success on the latest Professional Cloud Architect accreditation exam from Google. You'll learn the skills you need to excel on the test and in the field, with coverage of every exam objective and competency, including focus areas of the latest exam such as Kubernetes, Anthos, and multi-cloud architectures. The book explores the design, analysis, development, operations, and migration components of the job, with intuitively organized lessons that align with the real-world job responsibilities of a Google Cloud professional and with the PCA exam topics. Architects need more than the ability to recall facts about cloud services, they need to be able to reason about design decisions. This study guide is unique in how it helps you learn to think like an architect: understand requirements, assess constraints, choose appropriate architecture patterns, and consider the operational characteristics of the systems you design. Review questions and practice exams use scenario-based questions like those on the certification exam to build the test taking skills you will need. In addition to comprehensive material on compute resources, storage systems, networks, security, legal and regulatory compliance, reliability design, technical and business processes, and more, you'll get: The chance to begin or advance your career as an in-demand Google Cloud IT professional Invaluable opportunities to develop and practice the skills you'll need as a Google Cloud Architect Access to the Sybex online learning center, with chapter review questions, full-length practice exams, hundreds of electronic flashcards, and a glossary of key terms The ideal resource for anyone preparing for the Professional Cloud Architect certification from Google, Google Cloud Certified Professional Cloud Architect Study Guide, 2nd Edition is also a must-read resource for aspiring and practicing cloud professionals seeking to expand or improve their technical skillset and improve their effectiveness in the field.

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.

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, you have never had easier to access to world-class production, product development, and infrastructure tools. Google Cloud Platform is your ticket to leveraging your skills and knowledge into making reliable, scalable, and efficient products—just like how Google builds its own products.

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.

Achieve your infrastructure goals and optimize business processes by designing robust, highly available, and dynamic solutions 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.

Google Cloud is growing quickly as companies increasingly adopt multi-cloud strategies. It was once again named a Leader in the 2019 Gartner Infrastructure as a Service Magic Quadrant, and demand for people with Google Cloud skills is running high. To meet this demand and help organizations identify knowledgeable talent, Google has created their Associate Cloud Engineer certification. This book is designed to give students the solid foundation of GCP capability that they will need to later build toward the Google Certified Professional Cloud Architect (PCA) certification--which was recently named as 2019's top-paying IT certification. This book will prepare you to: Set-up and configure Google Cloud accounts using best practices. Use GCP services like Cloud Storage, Compute Engine, and Kubernetes Engine in your everyday work. Pass the GCP Associate Cloud Engineer certification exam. Who this book is for: Sysadmins or other individuals who want to learn how to configure and manage Google Cloud systems and demonstrate those abilities through certification. Developers who want to leverage Google Cloud for the applications they build. Architects and technical managers who want to get hands-on and "stay honest" with the technology.