Mastering Google App Engine

Build robust and highly scalable web applications with Google App Engine

Mohsin Shafique Hijazee

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Mastering Google App Engine Mohsin Shafique Hijazee,2015-10-08 Build robust and highly scalable web applications with Google App EngineAbout 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 EngineWho This Book Is ForIf 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 EngineIn DetailDeveloping 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 approachThis 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 **Mastering Google App Engine** Mohsin Shafique Hijazee,2015-10-08 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 **Mastering Google App Engine** Mohsin Shafique Hijazee,2015-10-08 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 **Mastering Google Cloud Platform** Cybellium,2023-09-06 Cybellium Ltd is dedicated to empowering individuals and organizations with the knowledge and skills they need to navigate the ever evolving computer science landscape securely and learn only the latest information available on any subject in the category of computer science including Information Technology IT Cyber Security Information Security Big Data Artificial Intelligence AI Engineering Robotics Standards and compliance Our mission is to be at the forefront of computer science education offering a wide and comprehensive range of resources including books courses classes and training programs tailored to meet the diverse needs of any subject in computer science Visit https www cybellium com for more books **Using Google App Engine** Charles Severance,2009-05-07 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 *Python for Google App Engine* Massimiliano Pippi,2015-01-27 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 **Mastering Google Cloud Professional Cloud Architect Certification: Your Comprehensive Guide to Cloud Architecture**

Excellence Anand Vemula, Mastering Google Cloud Professional Cloud Architect Certification serves as an essential resource for IT professionals aspiring to enhance their skills and validate their expertise in cloud architecture through Google Cloud Platform GCP This comprehensive guide equips readers with the knowledge and practical skills necessary to design develop and manage robust secure scalable and highly available cloud solutions The book begins by outlining the significance of the Google Cloud Professional Cloud Architect certification emphasizing its role in demonstrating proficiency in leveraging GCP technologies to meet business objectives It covers the certification s structure including the exam format key topics and recommended prerequisites ensuring that readers are well prepared for the certification journey Throughout the guide readers will explore critical areas such as designing cloud solution architectures that align with organizational needs managing and provisioning cloud infrastructure effectively and implementing security controls to protect sensitive data The book delves into analyzing performance metrics and optimizing technical processes providing insights into best practices for maintaining operational reliability The content is enriched with real world case studies and practical examples that illustrate how to apply theoretical concepts in actual cloud environments Readers will also find hands on exercises and sample questions that simulate the exam experience allowing them to assess their understanding and readiness for the certification test Additionally the book emphasizes the importance of continuous learning and adaptation in the rapidly evolving field of cloud computing It encourages readers to stay updated on emerging trends and technologies while fostering a mindset geared towards innovation and improvement In summary Mastering Google Cloud Professional Cloud Architect Certification is an invaluable guide for anyone looking to excel in cloud architecture It not only prepares candidates for the certification exam but also empowers them with the skills needed to thrive in a cloud centric world Whether you are a seasoned IT professional or new to cloud computing this book provides a pathway to achieving excellence in cloud architecture   **Mastering XenApp®** Sunny Jha,2015-12-11 Master the skills required to implement Citrix XenApp 7 6 to deploy a complete Citrix hosted application from scratch About This Book Learn to implement and configure components of Citrix XenApp 7 6 which are XenServer XenApp Citrix License server PVS Storefront Citrix Receiver and Netscaler to secure WAN traffic Build the XenApp 7 6 environment independently and perform tests to make sure the components are working as expected for internal and external traffic Implement advanced tools in Citrix XenApp to build and manage a cost effective secure and high performing application delivery infrastructure with this comprehensive guide Who This Book Is For This is book is for administrators who are currently managing the implemented environment and want to learn how to deploy the Citrix Hosted virtualization solution for the application in a windows server 2012 R2 environment A reasonable knowledge and understanding of core XenApp elements and concepts used during virtualizing applications are assumed What You Will Learn Understand how to set up Hypervisor install the management console configure the storage repository and create a virtual machine on hypervisor Set up an Infrastructure component and explore ways to tune them up so that they can be used

for Citrix environment Set up a Domain controller DHCP Certificate authority and SQL server for static database for Citrix XenApp Validate the Citrix XenApp 7 6 solution to make sure components are communicating properly Manage the essential Citrix components Director Licensing and Policies with the Help of Citrix studio Optimize the behavior of an Application and share desktop via Policies Installing and configuring Citrix Provisioning services to deliver Citrix XenApp 7 6 virtual machines Secure the external Delivery of an application and shared desktop via netscaler to enjoy mobility In Detail Citrix XenApp is one of the leading pieces of Application delivery software that delivers Windows compatible apps to users on any device anywhere Citrix XenApp also gives administrators the ability to manage and control the freedom of mobility by increasing the security and saving costs at the same time This book will provide you with all the knowledge required to successfully deploy and master a complete Citrix hosted application First it will cover essential concepts of the architecture of XenApp You will then learn how to set up Hypervisor and how to set up Infrastructure components Next you will learn how to Set up Citrix Components XenApp resources PVS and Netscaler We will further look at how to prepare the environment for Rollout Additionally you will learn how to configure the Citrix components such as Citrix Director Moreover you ll learn about shared desktop for delivery to end users and the application of policies for effective and secure delivery Finally you will learn how to implement provisioning services for a Citrix XenApp 7 6 environment Style and approach This book is based on a course outline and hence takes a very practical approach so you will understand how to implement the components of XenApp in a production environment Complemented with many best practices and troubleshooting concepts of XenApp this book will help you master XenApp swiftly   **Streamlining Cloud Infrastructure: Mastering Google Cloud Deployment Manager** Peter Jones,2025-01-11 Explore the power of automating cloud infrastructure with our comprehensive guide to Google Cloud Deployment Manager Whether you re a cloud professional DevOps engineer or system administrator navigating the complexities of cloud infrastructures this book is tailored to advance your skills in leveraging Google Cloud s potent tool for orchestrating cloud resources effectively Streamlining Cloud Infrastructure Mastering Google Cloud Deployment Manager unfolds the secrets to designing deploying and managing scalable and secure cloud resources with precision From understanding the fundamentals to mastering advanced techniques each chapter is meticulously crafted to provide in depth coverage and practical insights into managing infrastructure as code ensuring operational efficiency and optimizing costs Delve into the essentials of resource and configuration management learn the art of designing and templating your infrastructure and unlock advanced deployment strategies to tackle complex scenarios Gain expertise in securing deployments integrating with Google Cloud Services and monitoring your cloud environment to maintain peak performance With a direct and professional approach this book offers a wealth of knowledge best practices and expert tips for transforming your cloud deployment processes Whether you re looking to enhance your existing skills or embark on automating cloud deployments for the first time Streamlining Cloud Infrastructure Mastering Google Cloud Deployment

Manager is your go to resource for mastering cloud infrastructure automation with confidence and efficiency Embrace the future of cloud computing and elevate your cloud management capabilities to new heights **Mastering Disruptive Technologies** Dr. R. K. Dhanaraj,S. R. Jena,A. K. Yadav,Vani Rajasekar,2021-04-30 About the Book The book is divided into 4 modules which consist of 21 chapters that narrates briefly about the top five recent emerging trends such as Cloud Computing Internet of Things IoT Blockchain Artificial Intelligence and Machine Learning At the end of each module authors have provided two Appendices One is Job oriented short type questions with answers and the second one provide us different MCQs with their keys Salient Features of the Book Detailed Coverage on Topics like Introduction to Cloud Computing Cloud Architecture Cloud Applications Cloud Platforms Open Source Cloud Simulation Tools and Mobile Cloud Computing Expanded Coverage on Topics like Introduction to IoT Architecture Core Modules Communication models and protocols IoT Environment IoT Testing IoT and Cloud Computing Focused Coverage on Topics like Introduction to Blockchain Technology Security and Privacy component of Blockchain Technology Consensus Algorithms Blockchain Development Platform and Various Applications Dedicated Coverage on Topics like Introduction to Artificial Intelligence and Machine Learning Techniques Types of Machine Learning Clustering Algorithms K Nearest Neighbor Algorithm Artificial Neural Network Deep Learning and Applications of Machine Learning Pictorial Two Minute Drill to Summarize the Whole Concept Inclusion of 300 Job Oriented Short Type Questions with Answers for the aspirants to have the Thoroughness Practice and Multiplicity Around 178 Job Oriented MCQs with their keys Catch Words and Questions on Self Assessment at Chapter wise Termination About the Authors Dr Rajesh Kumar Dhanaraj is an Associate Professor in the School of Computing Science and Engineering at Galgotias University Greater Noida Uttar Pradesh India He holds a Ph D degree in Information and Communication Engineering from Anna University Chennai India He has published more than 20 authored and edited books on various emerging technologies and more than 35 articles in various peer reviewed journals and international conferences and contributed chapters to the books His research interests include Machine Learning Cyber Physical Systems and Wireless Sensor Networks He is an expert advisory panel member of Texas Instruments Inc USA Mr Soumya Ranjan Jena is currently working as an Assistant Professor in the Department of CSE School of Computing at Vel Tech Rangarajan Dr Sagunthala R D Institute of Science Technology Avadi Chennai Tamil Nadu India He has teaching and research experience from various reputed institutions in India like Galgotias University Greater Noida Uttar Pradesh AKS University Satna Madhya Pradesh K L Deemed to be University Guntur Andhra Pradesh GITA Autonomous Bhubaneswar Odisha He has been awarded M Tech in Information Technology from Utkal University Odisha B Tech in Computer Science Engineering from BPUT Odisha and Cisco Certified Network Associate CCNA from Central Tool Room and Training Centre CTTC Bhubaneswar Odisha He has got the immense experience to teach to graduate as well as post graduate students and author of two books i e Theory of Computation and Application and Design and Analysis of Algorithms He has published more than 25 research papers on

Cloud Computing IoT in various international journals and conferences which are indexed by Scopus Web of Science and also published six patents out of which one is granted in Australia Mr Ashok Kumar Yadav is currently working as Dean Academics and Assistant Professor at Rajkiya Engineering College Azamgarh Uttar Pradesh He has worked as an Assistant Professor on Ad hoc in the Department of Computer Science University of Delhi He has also worked with Cluster Innovation Center University of Delhi New Delhi He qualified for UGC JRF Presently he is pursuing his Ph D in Computer Science from JNU New Delhi He has received M Tech in Computer Science and Technology from JNU New Delhi He has presented and published papers at international conferences and journals on blockchain technology and machine learning He has delivered various expert lectures on reputed institutes Ms Vani Rajasekar completed B Tech Information Technology M Tech Information and Cyber warfare in Department of Information Technology Kongu Engineering College Erode Tamil Nadu India She is pursuing her Ph D Information and Communication Engineering in the area of Biometrics and Network security Presently she is working as an Assistant professor in the Department of Computer Science and Engineering Kongu Engineering College Erode Tamil Nadu India for the past 5 years Her areas of interest include Cryptography Biometrics Network Security and Wireless Networks She has authored around 20 research papers and book chapters published in various international journals and conferences which were indexed in Scopus Web of Science and SCI   Mastering Cloud Computing: Concepts, Technologies, and Future Trends Dr. Shweta Rai,Mr. Veer Bhadra Pratap Singh,Ms. Pooja Upadhyay,Ms. Namita Sharma,2025-04-16   **PaaS Mastery: Platform As A Service** Rob Botwright,2023 Are you ready to master the world of Platform as a Service PaaS and supercharge your cloud computing skills Look no further than the PaaS Mastery book bundle your all in one guide to Azure Pipelines Google Cloud Microsoft Azure and IBM Cloud Book 1 PaaS Mastery Navigating Azure Pipelines and Beyond Are you curious about Azure Pipelines and how it can revolutionize your application deployment processes This book provides hands on guidance best practices and real world examples to help you harness the power of Azure PaaS Whether you re a developer IT professional or decision maker you ll unlock the secrets to streamlining your application development and deployment Book 2 Cloud Powerhouse Mastering PaaS with Google Azure and IBM Dive into the PaaS offerings of three cloud giants Google Cloud Microsoft Azure and IBM Cloud Gain the knowledge to leverage their PaaS platforms effectively and discover how they redefine cloud computing This volume equips you with the skills to navigate the diverse cloud ecosystems of these powerhouses Book 3 Platform as a Service Unleashed A Comprehensive Guide Delve deep into the unique features and capabilities of Google Cloud Microsoft Azure and IBM Cloud This book serves as a valuable reference guide helping you make informed choices about the platform that aligns best with your organization s needs It s an essential resource for anyone looking to maximize the potential of PaaS Book 4 From Novice to Pro PaaS Mastery Across Clouds Ready to go from a PaaS novice to a pro This book is your ultimate guide Explore optimization strategies learn how to combine multiple cloud platforms and advance your skills in cloud computing Whether

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Mastering Linux Administration Alexandru Calcatinge,Julian Balog,2021-06-18 Develop advanced skills for working with Linux systems on premises and in the cloud Key FeaturesBecome proficient in everyday Linux administration tasks by mastering the Linux command line and using automationWork with the Linux filesystem packages users processes and daemonsDeploy Linux to the cloud with AWS Azure and KubernetesBook Description Linux plays a significant role in modern data center management and provides great versatility in deploying and managing your workloads on premises and in the cloud This book covers the important topics you need to know about for your everyday Linux administration tasks The book starts by helping you understand the Linux command line and how to work with files packages and filesystems You ll then begin administering network services and hardening security and learn about cloud computing containers and orchestration Once you ve learned how to work with the command line you ll explore the essential Linux commands for managing users processes and daemons and discover how to secure your Linux environment using application security frameworks and firewall managers As you advance through the chapters you ll work with containers hypervisors virtual machines Ansible and Kubernetes You ll also learn how to deploy Linux to the cloud using AWS and Azure By the end of this Linux book you ll be well versed with Linux and have mastered everyday administrative tasks using workflows spanning from on premises to the cloud If you also find yourself adopting DevOps practices in the process we ll consider our mission accomplished What you will learnUnderstand how Linux works and learn basic to advanced Linux administration skillsExplore the most widely used commands for managing the Linux filesystem network security and moreGet to grips with different networking and messaging protocolsFind out how Linux security works and how to configure SELinux AppArmor and Linux iptablesWork with virtual machines and containers and understand container orchestration with KubernetesWork with containerized workflows using Docker and KubernetesAutomate your configuration management workloads with AnsibleWho this book is for If you are a Linux administrator who wants to understand the fundamentals and as well as modern concepts of Linux system administration this book is for you Windows System Administrators looking to extend their knowledge to the Linux OS will also benefit from this book   **Cloud AI Mastery: Deploying Models at Scale with AWS, Azure, and Google Cloud** Anand Vemula, Cloud AI Mastery Deploying Models at Scale with AWS Azure and Google Cloud is a comprehensive guide for data scientists machine learning engineers and developers seeking to leverage the power of cloud computing for building

training deploying and managing AI models at scale The book begins by establishing a strong foundation in cloud computing principles and core machine learning concepts including supervised unsupervised and reinforcement learning as well as neural network architectures The core of the book dives into the AI ML offerings of the three major cloud providers AWS Azure and Google Cloud For AWS the book explores Amazon SageMaker in detail covering model building training hyperparameter tuning and deployment strategies like real time inference and batch transform It also examines AWS AI services like Rekognition Comprehend Translate and Polly The Azure section focuses on Azure Machine Learning including workspaces automated ML the Designer interface and MLOps integration with Azure DevOps It also covers Azure Cognitive Services exploring Vision Speech Language and Decision APIs The Google Cloud section delves into Vertex AI covering Workbench custom training pre trained models and MLOps with Vertex AI Pipelines It also explores Google Cloud AI APIs like the Vision Natural Language and Translation APIs along with Dialogflow for conversational AI The book then transitions to advanced topics and best practices covering scaling AI deployments with containerization Docker and Kubernetes and serverless computing It also addresses crucial aspects like monitoring logging debugging security compliance GDPR HIPAA PCI DSS and cost optimization strategies The conclusion looks at the future of cloud AI discussing emerging trends like edge AI TinyML explainable AI generative AI and responsible AI practices Throughout the book practical examples code snippets and comparative analyses are provided to enhance understanding and facilitate real world application of the concepts This makes Cloud AI Mastery a practical resource for anyone looking to master cloud based AI deployments *Architecting Google Cloud Solutions* Victor Dantas,2021-05-14 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

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