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Cloud computing provides companies with many capabilities to meet their business needs but can also mean that a hybrid architecture is created that includes on-premise systems and the cloud. Integration is needed to bridge the gap between the on-premise existing systems and the new cloud applications, platform, and infrastructure. IBM® WebSphere® Cast Iron® meets the challenge of integrating cloud applications with on-premise systems, cloud applications-to-cloud applications, and on-premise to on-premise applications. It contains a graphical development environment that provides built-in connectivity to many cloud and on-premise applications and reusable solution templates that can be downloaded from a solution repository. The integration solutions that are created can then run on either an on-premise integration appliance or the multi-tenant WebSphere Cast Iron Live cloud service. This IBM Redbooks® publication is intended for application integrators, integration

designers, and administrators evaluating or already using IBM WebSphere Cast Iron. Executives, leaders, and architects who are looking for a way to integrate cloud applications with their on-premise applications are also shown how WebSphere Cast Iron can help to resolve their integration challenges. The book helps you gain an understanding of Cast Iron and explains how to integrate cloud and on-premise applications quickly and simply. It gives a detailed introduction to the development tool and the administration interfaces and how they are used. It also discusses security, high availability, and re-usability. The book also includes three detailed scenarios covering real-world implementations of a Cast Iron Integration Solution. This IBM Redbooks publication helps you get started with IBM WebSphere Application Server V6 for the IBM eServer iSeries. Designed for new WebSphere users, this book presents the WebSphere architecture, administration, and maintenance topics in an easy-to-follow format. It answers many of the common questions that new users tend to have about starting to use WebSphere Application Server. By reading this book, you will be able to: Install WebSphere Application Server on iSeries Correctly apply the latest WebSphere fixes Use the most typical WebSphere administrative and maintenance tasks While this book is written for new WebSphere users, some of the topics will be of interest to experienced users. Such topics include configuration of the

Internet Information Services server and the WebSphere Application Server. Build real-world robust web applications and APIs using the modern and expressive Koa Node.js framework. Key Features Get up and running with Koa.js and leverage its power with node.js Get the most out of Koa Async functions and generators Create real time dynamic serverside apps efficiently with Koa.js Book Description Every developer wants to build modular and scalable web applications. Modern versions of JavaScript have made this possible in Node.js, and Koa is a Node.js framework that makes it easy. This book is the ideal introduction for JavaScript developers who want to create scalable server side applications using Node.js and Koa.js. The book shows you how Koa can be used to start projects from scratch, register custom and existing middleware, read requests, and send responses to users. We will explore the core concepts in Koa, such as error handling, logging, and request and response handling. We will dive into new concepts in JavaScript development, and see how paradigms such as async/await help with modern Node.js application development. By the end of this book, you will be building robust web applications in Koa using modern development paradigms and techniques of Node.js development. What you will learn Create a simple server in Node.js and Koa Work with custom middleware in Koa Handle errors in Koa Create routes, handle requests, and send responses from APIs Build views and use templates

in Koa Authenticate your application and structure it properly in Koa Who this book is for This book is for serverside developers and JavaScript developers who want to use Koa.js and Node.js to create fast and real time back end applications. In writing this ebook, I have evaluated a large number of programs and selected for inclusion the software I believe is the most useful for someone new to DevOps term. This ebook is an overview only (not a definitive guide) of the issues that DevOps have to deal with in making CI/ CD meet their needs, ranging from the initial installation, setup to implementation. This ebook is not a substitute for the documentation that accompanies the software or services that it describes. We should download, use it and read the documentation related to the software or services. Most of the additional docs available online is quite good, some is truly excellent. This two-volume set (CCIS 175 and CCIS 176) constitutes the refereed proceedings of the International Conference on Computer Education, Simulation and Modeling, CSEM 2011, held in Wuhan, China, in June 2011. The 148 revised full papers presented in both volumes were carefully reviewed and selected from a large number of submissions. The papers cover issues such as multimedia and its application, robotization and automation, mechatronics, computer education, modern education research, control systems, data mining, knowledge management, image processing, communication software, database technology,

artificial intelligence, computational intelligence, simulation and modeling, agent based simulation, biomedical visualization, device simulation & modeling, object-oriented simulation, Web and security visualization, vision and visualization, coupling dynamic modeling theory, discretization method , and modeling method research. Leverage the power of various Google Cloud AI Services by building a smart web application using MEAN Stack Key Features Start working with the Google Cloud Platform and the AI services it offers Build smart web applications by combining the power of Google Cloud AI services and the MEAN stack Build a web-based dashboard of smart applications that perform language processing, translation, and computer vision on the cloud Book Description Cognitive services are the new way of adding intelligence to applications and services. Now we can use Artificial Intelligence as a service that can be consumed by any application or other service, to add smartness and make the end result more practical and useful. Google Cloud AI enables you to consume Artificial Intelligence within your applications, from a REST API. Text, video and speech analysis are among the powerful machine learning features that can be used. This book is the easiest way to get started with the Google Cloud AI services suite and open up the world of smarter applications. This book will help you build a Smart Exchange, a forum application that will let you upload videos,

images and perform text to speech conversions and translation services. You will use the power of Google Cloud AI Services to make our simple forum application smart by validating the images, videos, and text provided by users to Google Cloud AI Services and make sure the content which is uploaded follows the forum standards, without a human curator involvement. You will learn how to work with the Vision API, Video Intelligence API, Speech Recognition API, Cloud Language Process, and Cloud Translation API services to make your application smarter. By the end of this book, you will have a strong understanding of working with Google Cloud AI Services, and be well on the way to building smarter applications.

What you will learn

- Understand Google Cloud Platform and its Cloud AI services
- Explore the Google ML Services
- Work with an Angular 5 MEAN stack application
- Integrate Vision API, Video Intelligence API for computer vision
- Be ready for conversational experiences with the Speech Recognition API, Cloud Language Process and Cloud Translation API services
- Build a smart web application that uses the power of Google Cloud AI services to make apps smarter

Who this book is for

This book is ideal for data professionals and web developers who want to use the power of Google Cloud AI services in their projects, without the going through the pain of mastering machine learning for images, videos and text. Some familiarity with the Google Cloud Platform will be helpful.

Service Component Architecture

(SCA) defines a service-based model for building business process applications using an SOA approach. This ability to drive a business process using individual, reusable services is the heart of the SOA concept. With IBM® WebSphere® Application Server Feature Pack for Service Component Architecture, you can deploy SCA applications to WebSphere Application Server. This IBM Redpaper™ publication provides a starting point for using the Feature Pack for SCA. It provides an architectural view of SCA and of the Feature Pack. In addition, this paper explains how to create simple SCA components from existing Java™ and Spring implementations. It discusses how to apply quality of service to applications, and how to deploy and manage SCA artifacts in WebSphere Application Server. The examples in this paper use Rational® Application Developer to illustrate how to create and package SCA applications.

Perform efficient fast text representation and classification with Facebook's fastText library

Key Features Introduction to Facebook's fastText library for NLP

Perform efficient word representations, sentence classification, vector representation

Build better, more scalable solutions for text representation and classification

Book Description Facebook's fastText library handles text representation and classification, used for Natural Language Processing (NLP). Most organizations have to deal with enormous amounts of text data on a daily basis, and gaining

efficient data insights requires powerful NLP tools such as fastText. This book is your ideal introduction to fastText. You will learn how to create fastText models from the command line, without the need for complicated code. You will explore the algorithms that fastText is built on and how to use them for word representation and text classification. Next, you will use fastText in conjunction with other popular libraries and frameworks such as Keras, TensorFlow, and PyTorch. Finally, you will deploy fastText models to mobile devices. By the end of this book, you will have all the required knowledge to use fastText in your own applications at work or in projects.

What you will learn

- Create models using the default command line options in fastText
- Understand the algorithms used in fastText to create word vectors
- Combine command line text transformation capabilities and the fastText library to implement a training, validation, and prediction pipeline
- Explore word representation and sentence classification using fastText
- Use Gensim and spaCy to load the vectors, transform, lemmatize, and perform other NLP tasks efficiently
- Develop a fastText NLP classifier using popular frameworks, such as Keras, Tensorflow, and PyTorch

Who this book is for

This book is for data analysts, data scientists, and machine learning developers who want to perform efficient word representation and sentence classification using Facebook's fastText library. Basic knowledge of Python programming is

required. IBM® is a Platinum level Partner in the Oracle Partner Network, which delivers the proven combination of industry insight, extensive real-world Oracle applications experience, deep technical skills, and high-performance servers and storage to create a complete business solution with a defined return on investment. From application selection, purchase, and implementation to upgrade and maintenance, we help organizations reduce the total cost of ownership and the complexity of managing their current and future applications environment while building a solid base for business growth. Oracle Database running on Linux is available for deployment on IBM LinuxONE by using Redhat Enterprise Linux (RHEL) or SUSE Linux Enterprise Server (SLES). This enterprise-grade solution is designed to add value to Oracle Database solutions. This IBM Redpaper® publication focuses on accepted good practices for installing and getting started by using Oracle Database, which provides you with an environment that is optimized for performance, scalability, flexibility, and ease-of-management. CATIA V6 (Computer-Aided Three Dimensional Interactive Application) is the world's leading multi-platform CAD/CAM/CAE software suite marketed worldwide by IBM. It allows the user to apply its capabilities to a variety of industries such as automotive, industrial robots, electronics, manufacturing design, aerospace, and consumer goods. CATIA V6 Essentials includes all the major

concepts related to the latest version of CATIA, such as installation, modes, and modeling in an easy-to-understand, step-by-step format. It also covers all the major commands and techniques and provides the reader with all of the details to learn the basics with a clear method of instruction. This comprehensive reference will help you navigate this multifaceted software with ease. This book is intended for those people who would like to learn the basic principles of computer programming but hesitate when they look at the books available on store bookshelves. Most computer books today have scary titles with hundreds and hundreds of pages. Most people starting out would just like a simple little book that shows, describes and demonstrates the basic programming principles. This book will do that. You might consider this book the book to start with before you attempt the bigger books in the stores. Believe me, if I can learn it, ANYBODY CAN! This book will help you get a feel for Graphics, Forms, Controls and basic programming syntax for Visual Basic V6.0. The coding syntax used was copied right off the "Beginner's Test Panel." An extreme effort was made to keep the coding as simple as possible. There are many ways to twist coding around to make it look like you are a well experienced programmer, but you won't find it here. It's impossible to learn coding that is so badly twisted you can't find where it starts and where it ends. You have to learn the basic coding principles first, and that's what

this book does. Once you learn the basics, you can embellish the code until your hearts content. Everybody else does, you can too. The coding examples contained in this book are in their simplest form. You will eventually realize at some point that you can add a few things here and there to the code that would greatly enhance a given routine. The most important thing to be gained from this book is confidence. Confidence that when you see a more advanced book, you won't be scared away as you'll have some idea of what they are talking about. A book like this is how I got started. In the 1970's I went looking for computer books. There weren't many then, but I found one on the original BASIC language. The cover said it all. "Written for 6th Graders"! I thought, if a twelve year old could learn it, why couldn't I? It was a fantastic book and served me well. I hope this book will do the same for you.

Download Supplemental Information: Author: Dick Hart is a retired Schlumberger Well Services employee having worked in the Engineering Dept. for 25 years. My first work experience started out in the United States Air Force maintaining aircraft Radio and Radar Navigation electronics for the Strategic Air Command(SAC). From there I worked at Texas Instruments, Raytheon Co, Welex(a division of Halliburton) and Lockheed Electronics. My work for Lockheed Electronics was at the Johnson Spacecraft Center, known then as The Manned Spacecraft Center. Work there involved the design of payloads for small sounding rockets

to measure the Ozone in the upper atmosphere. After Lockheed, I went to Schlumberger Well Services where work involved the prototyping of down hole oil well logging tools. In 1986, Schlumberger moved me to an engineering group that performed Characterization tests on new Integrated Circuits. This is where I got involved with computer programming. In retirement, my daughter ask me to teach her about Visual Basic, and this notebook is the result. It is hoped that others might benefit from the experience gained in creating this notebook. Today Yahoo! is a top ranked, highly trafficked Web site on the Internet. Word of mouth grew into what is now a publicly traded company. A Yahoo! listing is as important as one in the phone book. Yahoo! has evolved into a multinational Internet and communications phenomenon. 88 percent of adults who purchase items online conduct some sort of online research prior to completing their purchase. If you are in business, you need a Yahoo! store front. Yahoo! bases much of its consumer brand on the fact that it is a leading portal and search engine dedicated to connecting people and hopefully customers to online information quickly and easily and to making the vast, complex Internet into a useful resource. Yahoo! has changed the way products and services are purchased all over the world. In recent years Yahoo! sellers posted an estimated \$60 billion in sales. There are businesses earning \$1 million a year selling products on Yahoo! today. Yahoo!

also allows you to run a business that requires no advertising costs. This expertly written new book will show you how to take advantage of this business phenomenon and arm you with the proper knowledge and insider secrets. Filled with actual examples and anecdotes from real Yahoo! entrepreneurs, this book is as engaging as it is informational. Start making money on Yahoo! today. The book starts with a complete overview of how Yahoo! works. Then, you are guided through the whole process of creating the store front, photography, writing copy, text, formatting, managing the store front, shipping, collecting payments, registering, sources for merchandise, multiple sales, programming tricks, PayPal, accounting, creating marketing, merchandising, managing e-mail lists, advertising plans, taxes and sales tax, the best time to list items and for how long, international customers, electronic commerce, keywords, key word marketing, and Yahoo! secrets; everything you will ever need to get started making money on Yahoo! This complete manual will arm you with everything you need, including sample business forms, contracts, worksheets and checklists and dozens of other valuable, timesaving tools of the trade that no business should be without. Atlantic Publishing is a small, independent publishing company based in Ocala, Florida. Founded over twenty years ago in the company president's garage, Atlantic Publishing has grown to become a renowned resource for non-fiction books. Today, over 450

titles are in print covering subjects such as small business, healthy living, management, finance, careers, and real estate. Atlantic Publishing prides itself on producing award winning, high-quality manuals that give readers up-to-date, pertinent information, real-world examples, and case studies with expert advice. Every book has resources, contact information, and web sites of the products or companies discussed. If you want to build websites, understanding Bootstrap will save you a lot of time and effort. Bootstrap is a user-friendly CSS framework that allows developers to create mobile-friendly and responsive websites. Bootstrap is the most widely used framework for creating mobile-first, responsive websites. It fixes a number of issues that we experienced previously, including cross-browser compatibility. Today, webpages are optimized for all browsers (Internet Explorer, Firefox, and Chrome, to name but a few) and screen sizes (desktop, tablets, phablets, and phones). Regardless of project size, Bootstrap provides a solid foundation for any website. It includes Reboot, which is based on Normalize.css and aids with the smoothing out of browser disparities for various page elements. Bootstrap also has fantastic typography. Checkboxes, radio buttons, choose choices, and other basic HTML form elements have been restyled to give them a more modern look. Bootstrap's scope extends beyond online app design to include devices, allowing for a more seamless user experience.

CSS, reusable segments, and JavaScript portions are some of its key characteristics. It has a much clearer design, JavaScript tools, and CSS, among many other capabilities that front-end developers employ. In short, when it comes to UI, the scope is enormous. Key Features:

- A step-by-step approach to problem-solving and skill development
- A quick run-through of the basic concepts, in the form of a "Crash Course"
- An advanced, hands-on core concepts, with a focus on real-world problems
- An industry-level coding paradigm, practice-oriented explanatory approach
- A special emphasis on writing clean and optimized code, with additional chapters focused on coding methodology

Getting Started for Internet of Things with Launch Pad and ESP8266 provides a platform to get started with the Ti launch pad and IoT modules for Internet of Things applications. The book provides the basic knowledge of Ti launch Pad and ESP8266 based customized modules with their interfacing, along with the programming. The book discusses the application of Internet of Things in different areas. Several examples for rapid prototyping are included, this to make the readers understand the concept of IoT. The book comprises of twenty-seven chapters, which are divided into four sections and which focus on the design of various independent prototypes. Section-A gives a brief introduction to Ti launch pad (MSP430) and Internet of Things platforms like GPRS, NodeMCU and NuttyFi (ESP8266 customized board), and it

shows steps to program these boards. Examples on how to interface these boards with display units, analog sensors, digital sensors and actuators are also included, this to make reader comfortable with the platforms. Section-B discusses the communication modes to relay the data like serial out, PWM and I2C. Section-C explores the IoT data loggers and shows certain steps to design and interact with the servers. Section-D includes few IoT based case studies in various fields. This book is based on the practical experience of the authors while undergoing projects with students and partners from various industries.

Fast-track your web development skills to build high performance SPA with Angular 2 and beyond About This Book Up to date with the latest API changes introduced by Angular 2 and 4 Get familiar with the improvements to directives, change detection, dependency injection, router, and more Understand Angular's new component-based architecture Start using TypeScript to supercharge your Angular applications Who This Book Is For Do you want to jump in at the deep end of Angular? Or perhaps you're interested assessing the changes to AngularJS before moving over? If so, then "Getting Started with Angular" is the book for you. To get the most out of the book, you'll need to be familiar with AngularJS 1.x, and have a good understanding of JavaScript. What You Will Learn Understand the changes made from AngularJS with side-by-side code samples to help demystify the Angular learning curve Start working with

Angular's new method of implementing directives
Use TypeScript to write modern, powerful Angular applications
Dig in to the change detection method, and other architectural changes to make sure you know what's going on under the hood of Angular
Get to work with the new router in Angular
Use the new features of Angular, including pipes, and the updated features such as forms, services, and dependency injection
Learn about the server-side rendering in Angular to keep your new applications SEO-friendly
Enhance your applications using Ahead-of-Time compilation and Web Workers
In Detail I'm delighted to see this new update and hope it helps you build amazing things with Angular. - Misko Hevery, Creator of AngularJS and Angular
Angular is the modern framework you need to build performant and robust web applications. This book is the quickest way to upgrade your AngularJS knowledge to the brave new world of Angular, and get grips with the framework. It starts with an overview putting the changes of the framework in context with version 1. After that, you will be taken on a TypeScript crash-course so you can take advantage of Angular in its native, statically-typed environment. You'll explore the new change detection mechanism in detail, how directives and components have changed, how you create applications with Angular, and much more. Next, you'll understand how to efficiently develop forms, use the router, implement communication with HTTP services, and transform data with

custom pipes. Finally, we will take a look at the Angular's Ahead-of-Time compiler, angular-cli and other such tools that help us build professional applications. By the end of the book, you'll be ready to start building quick and efficient Angular applications compatible with v2 and v4, that take advantage of all the new features on offer. This book is up to date for the 2.4 release and is compatible with the 4.0 release as well. Style and approach Starting with a comparison between Angular versions, this book is filled with side-by-side code examples to help highlight the changes. Each chapter then looks at major changes to the framework and is filled with small examples and sample code to get you started. Learn how to create more dynamic user experiences and build secure web services using Windows Communication Foundation (WCF) and Windows Presentation Foundation (WPF), two of the foundational pillars of .NET 3.0, with this succinct and well-written PDF document. Coauthored by best-selling author Jesse Liberty, this document gets right to the point helping you build a meaningful Windows application. It walks you through the terminology, concepts, and software you need to get started and then jumps to creating Me!Trade, a portfolio management tool. As a bonus, this Short Cut also introduces two additional pillars of .NET 3.0: Windows Workflow Foundation and Windows Card Services. Take the mystery out of .NET 3.0 and get started today. This title is one of the "Essentials" IT

Books published by TechNet Publications Limited. This Book is a very helpful practical guide for beginners in the topic , which can be used as a learning material for students pursuing their studies in undergraduate and graduate levels in universities and colleges and those who want to learn the topic via a short and complete resource. We hope you find this book useful in shaping your future career. This book will be available soon... Mastering NativeScript helps readers master the NativeScript framework for faster and more robust mobile app development. Mobile devices have progressed from a mere means of communication to becoming a critical business tool in recent years. People are increasingly glued to their smartphones as technology advances at breakneck speed. The significance of mobile app development cannot be overstated. And when it comes to mobile app development, NativeScript is a hot topic. NativeScript was introduced by Telerik, and it allows you to develop truly native apps for iOS and Android under a single code base using JavaScript or TypeScript, XML, and a subset of CSS. The charm of NativeScript is that it enables us to code once for multiple platforms (iOS≤7.1 and Android≤4.1), simultaneously sharing code amongst them while still allowing developers to add platform-specific instructions with flawless execution. As a result, you may release an app for both platforms using a single code base. NativeScript is comprised of three parts: a JavaScript (JS)

virtual machine, a runtime, and a bridge module. The JS virtual machine is used for interpretation and execution of JavaScript code. The bridge module then converts the calls to platform-specific API calls and returns the outcome to the caller. NativeScript is a very appealing paradigm, and is rising in popularity as we speak. It can be used to construct practically any program, including communication apps (news and social networking), gaming applications (Chess, Tic-Tac-Toe, Pinball), and chat apps. It can also handle maps and geolocation apps. With *Mastering NativeScript*, learning NativeScript becomes straightforward, which will undoubtedly help readers advance their careers. The *Mastering Computer Science* series is edited by Sufyan bin Uzayr, a writer and educator with over a decade of experience in the computing field. Knowledge of Cascading Style Sheets (CSS) is essential for developing modern, attractive websites, but many beginners are put off by the need to learn about unfamiliar concepts, such as selectors, properties, and classes, before they can achieve anything. *Getting Started with CSS* takes a practical approach by showing you how to use CSS in simple stages, starting by changing the default appearance of HTML tags to improve the look of text and links. It assumes no prior knowledge of CSS and avoids bombarding you with unnecessary technical details. At the same time, it explains all the main points and acts as a reference that you can come back to when you need

to refresh your memory. More advanced concepts are introduced gradually, so that by the end of the book you'll have a solid understanding of all the main aspects of CSS. Particular attention is paid to avoiding the common pitfalls of beginners, enabling you to create websites that not only look good, but also are easy to maintain. Requires no previous knowledge of CSS

Instant results—starts off by showing how improve the look of a website stage by stage Doesn't bombard you with endless rules and jargon

1. Introduction --
2. Booting and startup script --
3. Licenses --
4. User accounts, login, and accounting --
5. Queues --
6. Backup --
7. System monitoring and performance management --
8. Security --
9. Network --
10. Clusters --

Bibliography -- Appendixes: --

- A. The user environment --
- B. VMS and the Web --
- C. Assessing OpenVMS and Linux: The right tool for the right job --
- D. Memory management system services --
- E. Symbols, data, and expressions.

Build an in-depth understanding of the Istio service mesh and see why a service mesh is required for a distributed application. This book covers the Istio architecture and its features using a hands-on approach with language-neutral examples. To get your Istio environment up and running, you will go through its setup and learn the concepts of control plane and data plane. You will become skilled with the new concepts and apply them with best practices to continuously deliver applications. What You Will Learn Discover the

Istio architecture components and the Envoy proxyMaster traffic management for service routing and application deploymentBuild application resiliency using timeout, circuit breakers, and connection poolsMonitor using Prometheus and GrafanaConfigure application security Who This Book Is For Developers and project managers who are trying to run their application using Kubernetes. The book is not specific for any programming language even though all examples will be in Java or Python. WebSphere Process Server and WebSphere Enterprise Service Bus for z/OS enable your organization to run the latest service-oriented architecture (SOA) and Service Component Architecture (SCA) applications on your z/Series hardware. This IBM Redbooks publication provides an introduction to these products on z/OS, gives detailed step-by-step instructions to install and configure these products, and provides examples of common operational tasks. Part one of this book introduces WebSphere Process Server and WebSphere Enterprise Service Bus for z/OS, describing how these products fit into an SOA solution and how they take advantage of z/OS capabilities. Part two provides detailed configuration guidance. Simple WebSphere Process Server and WebSphere Enterprise Service Bus configurations are described to get you started. Subsequent chapters show how to build a more complex WebSphere Process Server environment by introducing DB2, Network Deployment, and clustering. Part three

introduces operational considerations. Administration is discussed, connectivity to backend systems is demonstrated using a scenario to access CICS Transaction Server, and human tasks on z/OS are explained. Please note that the additional material referenced in the text is not available from IBM. IBM® Cloud Manager with OpenStack for z Systems™, V4.2 is an easy-to-use cloud management solution that serves as a control point for cloud managed resources based on the OpenStack Juno distribution. IBM Cloud Manager with OpenStack for z Systems, V4.2 can operate as a cloud management hub that can manage IBM z Systems™, IBM Power Systems™, and x86 resources from a central point of control. This IBM Redbooks® publication gives a broad understanding of the architecture for IBM Cloud Manager with OpenStack for z Systems, V4.2, and how it can be implemented and deployed to support cloud services on the z Systems platform. This publication also helps you plan, install, configure, and use IBM Cloud Manager with OpenStack for z Systems, V4.2. It focuses on planning and design of your cloud environment on z Systems, as well as the installation and configuration definitions that are necessary to build and manage cloud resources under IBM z/VM®. This information is useful to IT architects and system administrators who plan for and install IBM Cloud Manage with OpenStack for z Systems. The reader is expected to have a good understanding of IBM z Systems™ hardware, IBM

z/VM, Linux on z Systems, and cloud concepts. The IBM® Smart Analytics System 9600 is a single, end-to-end business analytics solution to accelerate data warehousing and business intelligence initiatives. It provides integrated hardware, software, and services that enable enterprise customers to quickly and cost-effectively deploy business-changing analytics across their organizations. As a workload-optimized system for business analytics, it leverages the strengths of the System z® platform to drive: Significant savings in hardware, software, operating, and people costs to deliver a complete range of data warehouse and BI capabilities Faster time to value with a reduction in the time and speed associated with deploying Business Intelligence Industry-leading scalability, reliability, availability, and security Simplified and faster access to the data on System z Managing IT systems is difficult. Virtualization brings numerous benefits to the datacenter and system administrators. However, it also creates a new set of choices. More choice implies more decisions, and thus an increased management responsibility. Furthermore, the move toward cloud computing, with a service-based acquisition and delivery model, requires that datacenter managers take a holistic view of the resources that they manage and the actors that access the data center. IBM® Service Delivery Manager addresses this problem domain. Delivered as a set of appliances, it automates provisioning,

deprovisioning, metering, and management of an IT platform, and the services it provides. It addresses the needs of both IT management and service users. This IBM Redbooks® publication is intended for technical professionals who want to understand and deploy IBM ISDM Cloud on a Power platform. Build cross-platform applications of varying complexity for the web, mobile, and VR devices using React tooling Key FeaturesBuild React applications at scale using effective React patterns and best practicesExplore React features such as Hooks, the Context API, and the Suspense APIExtend React's integration with React Native for building cross-platform mobile apps and gamesBook Description Developed by Facebook, React is a popular library for building impressive user interfaces. React extends its capabilities to the mobile platform using the React Native framework and integrates with popular web and mobile tools to build scalable applications. React Projects is your guide to learning React development by using modern development patterns and integrating React with powerful web tools such as GraphQL, Expo, and React 360. You'll start building a real-world project right from the first chapter and get hands on with developing scalable applications as you advance to building more complex projects. Throughout the book, you'll use the latest versions of React and React Native to explore features such as Higher Order Components (HOC), Context, and Hooks on multiple platforms, which

will help you build full stack web and mobile applications efficiently. Finally, you'll delve into unit testing with Jest to build test-driven apps. By the end of this React book, you'll have developed the skills necessary to start building scalable React apps across web and mobile platforms. What you will learn

- Create a wide range of applications using various modern React tools and frameworks
- Discover how React Hooks modernize state management for React apps
- Develop progressive web applications using React components
- Build test-driven React applications using the Jest and Enzyme frameworks
- Understand full stack development using React, Apollo, and GraphQL
- Perform server-side rendering using React and React Router
- Design gestures and animations for a cross-platform game using React Native

Who this book is for The book is for JavaScript developers who want to explore React tooling and frameworks for building cross-platform applications. Basic knowledge of web development, ECMAScript, and React will assist with understanding key concepts covered in this book. This IBM® Redbooks® publication provides a general explanation of data protection through encryption and IBM Z® pervasive encryption with a focus on Linux on IBM Z encryption for data at-rest. It also describes how the various hardware and software components interact in a Linux on Z encryption environment for . In addition, this book concentrates on the planning and preparing of the environment. It offers implementation,

configuration, and operational examples that can be used in Linux on Z volume encryption environments. This publication is intended for IT architects, system administrators, and security administrators who plan for, deploy, and manage security on the Z platform. The reader is expected to have a basic understanding of IBM Z security concepts. IBM® Rational® Application Developer for WebSphere® Software V8 is the full-function Eclipse 3.6 technology-based development platform for developing Java™ Platform, Standard Edition Version 6 (Java SE 6) and Java Platform, Enterprise Edition Version 6 (Java EE 6) applications. Beyond this function, Rational Application Developer provides development tools for technologies, such as OSGi, Service Component Architecture (SCA), Web 2.0, and XML. It has a focus on applications to be deployed to IBM WebSphere Application Server and IBM WebSphere Portal. Rational Application Developer provides integrated development tools for all development roles, including web developers, Java developers, business analysts, architects, and enterprise programmers. This IBM Redbooks® publication is a programming guide that highlights the features and tooling included with Rational Application Developer V8.0.1. Many of the chapters provide working examples that demonstrate how to use the tooling to develop applications and achieve the benefits of visual and rapid application development. This publication is an update of Rational Application Developer V7.5 Programming

Guide, SG24-7672. If you are a system administrator who is interested in implementing and managing open source virtualization infrastructures, this is the book for you. A basic knowledge of virtualization and basic Linux command line experience is needed. WebSphere Process Server and WebSphere Enterprise Service Bus for z/OS enable your organization to run the latest service-oriented architecture (SOA) and Service Component Architecture (SCA) applications on your z/Series hardware. This IBM Redbooks publication provides an introduction to these products on z/OS, gives detailed step-by-step instructions to install and configure these products, and provides examples of common operational tasks. Part one of this book introduces WebSphere Process Server and WebSphere Enterprise Service Bus for z/OS, describing how these products fit into an SOA solution and how they take advantage of z/OS capabilities. Part two provides detailed configuration guidance. Simple WebSphere Process Server and WebSphere Enterprise Service Bus configurations are described to get you started. Subsequent chapters show how to build a more complex WebSphere Process Server environment by introducing DB2, Network Deployment, and clustering. Part three introduces operational considerations. Administration is discussed, connectivity to backend systems is demonstrated using a scenario to access CICS Transaction Server, and human tasks on z/OS are explained. Please note that the

additional material referenced in the text is not available from IBM. Are you new to WebDriverIO and wondering how to start? This handbook will help you to kick start your journey. You will learn about the installations, NodeJS, WDI0, Page-objects, Cucumber, Jenkins integration, etc., in a simple way. Today, organizations engage with customers, business partners, and employees who are increasingly using mobile technology as their primary general-purpose computing platform. These organizations have an opportunity to fully embrace this new mobile technology for many types of transactions, including everything from exchanging information to exchanging goods and services, from employee self-service to customer service. With this mobile engagement, organizations can build new insight into the behavior of their customers so that organizations can better anticipate customer needs and gain a competitive advantage by offering new services. Becoming a mobile enterprise is about re-imagining your business around constantly connected customers and employees. The speed of mobile adoption dictates transformational rather than incremental innovation. This IBM® Redbooks® publication has an end-to-end example of creating a scalable, secure mobile application infrastructure that uses data that is on an IBM mainframe. The book uses an insurance-based application as an example, and shows how the application is built, tested, and deployed into production. This book is for application

architects and decision-makers who want to employ mobile technology in concert with their mainframe environment.

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