

Splunk Operational Intelligence Cookbook

Third Edition

Over 80 recipes for transforming your data into
business-critical insights using Splunk



By Josh Diakun, Paul R. Johnson
and Derek Mock

Packt

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Splunk Operational Intelligence Cookbook

Jit Sinha



Splunk Operational Intelligence Cookbook:

Splunk Operational Intelligence Cookbook Josh Diakun,Paul R Johnson,Derek Mock,2014-10-31 This book is intended for users of all levels who are looking to leverage the Splunk Enterprise platform as a valuable operational intelligence tool The recipes provided in this book will appeal to individuals from all facets of a business IT Security Product Marketing and many more

Splunk Operational Intelligence Cookbook - Second Edition Paul R. Johnson,Derek Mock,Josh Diakun,2016-06-07 With expert guidance and over 70 recipes this book gets you up and running with the latest features of Splunk Enterprise By showing you how to leverage your business insights it equips you with the skills you need to use Splunk for monitoring and analyzing big data through dashboards and visualizations

Splunk Operational Intelligence Cookbook Josh Diakun,Paul R. Johnson,Derek Mock,2018-05-28 Leverage Splunk s operational intelligence capabilities to unlock new hidden business insights and drive success Key Features Tackle any problems related to searching and analyzing your data with Splunk Get the latest information and business insights on Splunk 7 x Explore the all new machine learning toolkit in Splunk 7 x Book Description Splunk makes it easy for you to take control of your data and with Splunk Operational Cookbook you can be confident that you are taking advantage of the Big Data revolution and driving your business with the cutting edge of operational intelligence and business analytics With more than 80 recipes that demonstrate all of Splunk s features not only will you find quick solutions to common problems but you ll also learn a wide range of strategies and uncover new ideas that will make you rethink what operational intelligence means to you and your organization You ll discover recipes on data processing searching and reporting dashboards and visualizations to make data shareable communicable and most importantly meaningful You ll also find step by step demonstrations that walk you through building an operational intelligence application containing vital features essential to understanding data and to help you successfully integrate a data driven way of thinking in your organization Throughout the book you ll dive deeper into Splunk explore data models and pivots to extend your intelligence capabilities and perform advanced searching with machine learning to explore your data in even more sophisticated ways Splunk is changing the business landscape so make sure you re taking advantage of it What you will learn Learn how to use Splunk to gather analyze and report on data Create dashboards and visualizations that make data meaningful Build an intelligent application with extensive functionalities Enrich operational data with lookups and workflows Model and accelerate data and perform pivot based reporting Apply ML algorithms for forecasting and anomaly detection Summarize data for long term trending reporting and analysis Integrate advanced JavaScript charts and leverage Splunk s API Who this book is for This book is intended for data professionals who are looking to leverage the Splunk Enterprise platform as a valuable operational intelligence tool The recipes provided in this book will appeal to individuals from all facets of business IT security product marketing and many more Even the existing users of Splunk who want to upgrade and get up and running with Splunk 7 x will find this book to be of great value

Splunk Operational

Intelligence Cookbook - Third Edition Josh Diakun,Paul Johnson,Derek Mock,2018 Leverage Splunk's operational intelligence capabilities to unlock new hidden business insights and drive success About This Book Tackle any problems related to searching and analyzing your data with Splunk Get the latest information and business insights on Splunk 7.x Explore the all new machine learning toolkit in Splunk 7.x Who This Book Is For This book is intended for data professionals who are looking to leverage the Splunk Enterprise platform as a valuable operational intelligence tool The recipes provided in this book will appeal to individuals from all facets of business IT security product marketing and many more Even the existing users of Splunk who want to upgrade and get up and running with Splunk 7.x will find this book to be of great value What You Will Learn Learn how to use Splunk to gather analyze and report on data Create dashboards and visualizations that make data meaningful Build an intelligent application with extensive functionalities Enrich operational data with lookups and workflows Model and accelerate data and perform pivot based reporting Apply ML algorithms for forecasting and anomaly detection Summarize data for long term trending reporting and analysis Integrate advanced JavaScript charts and leverage Splunk's API In Detail Splunk makes it easy for you to take control of your data and with Splunk Operational Cookbook you can be confident that you are taking advantage of the Big Data revolution and driving your business with the cutting edge of operational intelligence and business analytics With more than 70 recipes that demonstrate all of Splunk's features not only will you find quick solutions to common problems but you'll also learn a wide range of strategies and uncover new ideas that will make you rethink what operational intelligence means to you and your organization You'll discover recipes on data processing searching and reporting dashboards and visualizations to make data shareable communicable and most importantly meaningful You'll also find step by step demonstrations that walk you through building an operational intelligence application containing vital features essential to understanding data and to help you successfully integrate a data driven way of thinking in your organization Throughout the book you'll dive deeper into Splunk explore data models and pivots to extend your intelligence capabilities and perform advanced searching with machine learning to explore your data

Splunk Operational Intelligence Cookbook Josh Diakun,Paul R Johnson,Derek Mock,2016-06-08 Over 70 practical recipes to gain operational data intelligence with Splunk Enterprise About This Book This is the most up to date book on Splunk 6.3 and teaches you how to tackle real world operational intelligence scenarios efficiently Get business insights using machine data using this easy to follow guide Search monitor and analyze your operational data skillfully using this recipe based practical guide Who This Book Is For This book is intended for users of all levels who are looking to leverage the Splunk Enterprise platform as a valuable operational intelligence tool The recipes provided in this book will appeal to individuals from all facets of business IT security product marketing and many more Also existing users of Splunk who want to upgrade and get up and running with Splunk 6.3 will find this book invaluable What You Will Learn Use Splunk to gather analyze and report on data Create dashboards and visualizations that make data meaningful Build an operational intelligence

application with extensive features and functionality Enrich operational data with lookups and workflows Model and accelerate data and perform pivot based reporting Build real time scripted and other intelligence driven alerts Summarize data for longer term trending reporting and analysis Integrate advanced JavaScript charts and leverage Splunk's API In Detail Splunk makes it easy for you to take control of your data and with Splunk Operational Cookbook you can be confident that you are taking advantage of the Big Data revolution and driving your business with the cutting edge of operational intelligence and business analytics With more than 70 recipes that demonstrate all of Splunk's features not only will you find quick solutions to common problems but you'll also learn a wide range of strategies and uncover new ideas that will make you rethink what operational intelligence means to you and your organization You'll discover recipes on data processing searching and reporting dashboards and visualizations to make data shareable communicable and most importantly meaningful You'll also find step by step demonstrations that walk you through building an operational intelligence application containing vital features essential to understanding data and to help you successfully integrate a data driven way of thinking in your organization Throughout the book you'll dive deeper into Splunk explore data models and pivots to extend your intelligence capabilities and perform advanced searching to explore your data in even more sophisticated ways Splunk is changing the business landscape so make sure you're taking advantage of it Style and approach Splunk is an excellent platform that allows you to make sense of machine data with ease The adoption of Splunk has been huge and everyone who has gone beyond installing Splunk wants to know how to make most of it This book will not only teach you how to use Splunk in real world scenarios to get business insights but will also get existing Splunk users up to date with the latest Splunk 6.3 release

Improving Your Splunk Skills James D. Miller, Paul R. Johnson, Josh Diakun, Derek Mock, 2019-08-22 Transform machine generated data into valuable business insights using the powers of Splunk Key Features Explore the all new machine learning toolkit in Splunk 7 xTackle any problems related to searching and analyzing your data with Splunk Get the latest information and business insights on Splunk 7 xBook Description Splunk makes it easy for you to take control of your data and drive your business with the cutting edge of operational intelligence and business analytics Through this Learning Path you'll implement new services and utilize them to quickly and efficiently process machine generated big data You'll begin with an introduction to the new features improvements and offerings of Splunk 7 You'll learn to efficiently use wildcards and modify your search to make it faster You'll learn how to enhance your applications by using XML dashboards and configuring and extending Splunk You'll also find step by step demonstrations that'll walk you through building an operational intelligence application As you progress you'll explore data models and pivots to extend your intelligence capabilities By the end of this Learning Path you'll have the skills and confidence to implement various Splunk services in your projects This Learning Path includes content from the following Packt products Implementing Splunk 7 Third Edition by James Miller Splunk Operational Intelligence Cookbook Third Edition by Paul R Johnson Josh Diakun et al What you will learn Master

the new offerings in Splunk Splunk Cloud and the Machine Learning Toolkit Create efficient and effective searches Master the use of Splunk tables charts and graph enhancements Use Splunk data models and pivots with faster data model acceleration Master all aspects of Splunk XML dashboards with hands on applications Apply ML algorithms for forecasting and anomaly detection Integrate advanced JavaScript charts and leverage Splunk's API Who this book is for This Learning Path is for data analysts business analysts and IT administrators who want to leverage the Splunk enterprise platform as a valuable operational intelligence tool Existing Splunk users who want to upgrade and get up and running with Splunk 7.x will also find this book useful Some knowledge of Splunk services will help you get the most out of this Learning Path

Splunk: Enterprise Operational Intelligence Delivered Betsy Page Sigman, Erickson Delgado, Josh Diakun, Paul R Johnson, Derek Mock, Ashish Kumar Tulsiram Yadav, 2017-02-28 Demystify Big Data and discover how to bring operational intelligence to your data to revolutionize your work About This Book Get maximum use out of your data with Splunk's exceptional analysis and visualization capabilities Analyze and understand your operational data skillfully using this end to end course Full coverage of high level Splunk techniques such as advanced searches manipulations and visualization Who This Book Is For This course is for software developers who wish to use Splunk for operational intelligence to make sense of their machine data The content in this course will appeal to individuals from all facets of business IT security product marketing and many more What You Will Learn Install and configure the latest version of Splunk Use Splunk to gather analyze and report data Create Dashboards and Visualizations that make data meaningful Model and accelerate data and perform pivot based reporting Integrate advanced JavaScript charts and leverage Splunk's APIs Develop and Manage apps in Splunk Integrate Splunk with R and Tableau using SDKs In Detail Splunk is an extremely powerful tool for searching exploring and visualizing data of all types Splunk is becoming increasingly popular as more and more businesses both large and small discover its ease and usefulness Analysts managers students and others can quickly learn how to use the data from their systems networks web traffic and social media to make attractive and informative reports This course will teach everything right from installing and configuring Splunk The first module is for anyone who wants to manage data with Splunk You'll start with very basics of Splunk installing Splunk before then moving on to searching machine data with Splunk You will gather data from different sources isolate them by indexes classify them into source types and tag them with the essential fields With more than 70 recipes on hand in the second module that demonstrate all of Splunk's features not only will you find quick solutions to common problems but you'll also learn a wide range of strategies and uncover new ideas that will make you rethink what operational intelligence means to you and your organization Dive deep into Splunk to find the most efficient solution to your data problems in the third module Create the robust Splunk solutions you need to make informed decisions in big data machine analytics From visualizations to enterprise integration this well organized high level guide has everything you need for Splunk mastery This learning path combines some of the best that Packt has to offer into one complete curated package It

includes content from the following Packt products Splunk Essentials Second Edition Splunk Operational Intelligence Cookbook Second Edition Advanced Splunk Style and approach Packed with several step by step tutorials and a wide range of techniques to take advantage of Splunk and its wide range of capabilities to deliver operational intelligence within your enterprise

Splunk Developer's Guide Kyle Smith, 2016-01-27 Learn the A to Z of building excellent Splunk applications with the latest techniques using this comprehensive guide About This Book This is the most up to date book on Splunk 6.3 for developers Get ahead of being just a Splunk user and start creating custom Splunk applications as per your needs Your one stop solution to Splunk application development Who This Book Is For This book is for those who have some familiarity with Splunk and now want to learn how to develop an efficient Splunk application Previous experience with Splunk writing searches and designing basic dashboards is expected What You Will Learn Implement a Modular Input and a custom D3 data visualization Create a directory structure and set view permissions Create a search view and a dashboard view using advanced XML modules Enhance your application using eventtypes tags and macros Package a Splunk application using best practices Publish a Splunk application to the Splunk community In Detail Splunk provides a platform that allows you to search data stored on a machine analyze it and visualize the analyzed data to make informed decisions The adoption of Splunk in enterprises is huge and it has a wide range of customers right from Adobe to Dominos Using the Splunk platform as a user is one thing but customizing this platform and creating applications specific to your needs takes more than basic knowledge of the platform This book will dive into developing Splunk applications that cater to your needs of making sense of data and will let you visualize this data with the help of stunning dashboards This book includes everything on developing a full fledged Splunk application right from designing to implementing to publishing We will design the fundamentals to build a Splunk application and then move on to creating one During the course of the book we will cover application data objects permissions and more After this we will show you how to enhance the application including branding workflows and enriched data Views dashboards and web frameworks are also covered This book will showcase everything new in the latest version of Splunk including the latest data models alert actions XML forms various dashboard enhancements and visualization options with D3 Finally we take a look at the latest Splunk cloud applications advanced integrations and development as per the latest release Style and approach This book is an easy to follow guide with lots of tips and tricks to help you master all the concepts necessary to develop and deploy your Splunk applications

Splunk 7.x Quick Start Guide James H. Baxter, 2018-11-29 Learn how to architect implement and administer a complex Splunk Enterprise environment and extract valuable insights from business data Key Features Understand the various components of Splunk and how they work together to provide a powerful Big Data analytics solution Collect and index data from a wide variety of common machine data sources Design searches reports and dashboard visualizations to provide business data insights Book Description Splunk is a leading platform and solution for collecting searching and extracting value from ever increasing amounts of big data and big

data is eating the world This book covers all the crucial Splunk topics and gives you the information and examples to get the immediate job done You will find enough insights to support further research and use Splunk to suit any business environment or situation Splunk 7 x Quick Start Guide gives you a thorough understanding of how Splunk works You will learn about all the critical tasks for architecting implementing administering and utilizing Splunk Enterprise to collect store retrieve format analyze and visualize machine data You will find step by step examples based on real world experience and practical use cases that are applicable to all Splunk environments There is a careful balance between adequate coverage of all the critical topics with short but relevant deep dives into the configuration options and steps to carry out the day to day tasks that matter By the end of the book you will be a confident and proficient Splunk architect and administrator What you will learn Design and implement a complex Splunk Enterprise solution Configure your Splunk environment to get machine data in and indexed Build searches to get and format data for analysis and visualization Build reports dashboards and alerts to deliver critical insights Create knowledge objects to enhance the value of your data Install Splunk apps to provide focused views into key technologies Monitor troubleshoot and manage your Splunk environment Who this book is for This book is intended for experienced IT personnel who are just getting started working with Splunk and want to quickly become proficient with its usage Data analysts who need to leverage Splunk to extract critical business insights from application logs and other machine data sources will also benefit from this book

Hands-on Splunk on AWS Jit Sinha, 2024-12-30

DESCRIPTION Hands on Splunk on AWS is a practical tutorial for professionals who wish to set up manage and analyze data with Splunk on AWS This practical guide capitalizes on the scalability and flexibility of Amazon Web Services AWS to streamline your Splunk deployment This book is a complete guide to Splunk a powerful tool for analyzing and visualizing machine generated data It explains Splunk s architecture components and data flow helping you set up configure and index data effectively Learn to write efficient Splunk Processing Language SPL queries create detailed visualizations and optimize searches for deeper insights Discover advanced topics like clustering and integrating Splunk into modern DevOps practices and cloud native environments The book also shares best practices for administration troubleshooting and security By the end of this guide readers will be confident in utilizing Splunk on AWS to make data driven decisions Whether you want to improve your data analysis or use AWS for Splunk this book will teach you the skills and insights you need in today s data driven world

KEY FEATURES Understand Splunk s search language to query analyze and visualize data Create interactive dashboards and reports to communicate insights effectively Integrate Splunk with modern DevOps practices to improve monitoring and troubleshooting

WHAT YOU WILL LEARN How to deploy and configure Splunk effectively on AWS Key concepts and tools in data onboarding and indexing Mastery of the Splunk Processing Language SPL for data queries Techniques for creating and managing interactive dashboards Integration of Splunk with Kubernetes and CI CD pipelines Methods for applying machine learning in data analysis with Splunk

WHO THIS BOOK IS FOR This book is for IT

professionals data analysts Splunk administrators and cloud enthusiasts to improve their understanding of Splunk on AWS and extract valuable insights from their data

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8 Creating Data Visualizations in Splunk
9 Using Splunk Dashboard Studio
10 Advanced Techniques with Lookups and Macros
11 Integrating with Kubernetes and CI CD
12 Natural Language Processing with Splunk
13 Splunk for Hybrid Environments
14 Extending Splunk with Apps and Add ons
15 Configuration and Deployment Management in Splunk
16 Administration Techniques for Experts
17 Effective Troubleshooting in Splunk
18 Conclusion and Next Steps in Splunk

Ultimate Splunk for Cybersecurity Jit Sinha, 2024-01-06

Empower Your Digital Shield with Splunk Expertise

KEY FEATURES

In depth Exploration of Splunk s Security Ecosystem and Capabilities
Practical Scenarios and Real World Implementations of Splunk Security Solutions
Streamline Automation and Orchestration in Splunk Operations

DESCRIPTION

The Ultimate Splunk for Cybersecurity is your practical companion to utilizing Splunk for threat detection and security operations This in depth guide begins with an introduction to Splunk and its role in cybersecurity followed by a detailed discussion on configuring inputs and data sources understanding Splunk architecture and using Splunk Enterprise Security ES It further explores topics such as data ingestion and normalization understanding SIEM and threat detection and response It then delves into advanced analytics for threat detection integration with other security tools and automation and orchestration with Splunk Additionally it covers cloud security with Splunk DevOps and security operations Moreover the book provides practical guidance on best practices for Splunk in cybersecurity compliance and regulatory requirements It concludes with a summary of the key concepts covered throughout the book

WHAT WILL YOU LEARN

Achieve advanced proficiency in Splunk Enterprise Security to bolster your cyber defense capabilities comprehensively
Implement Splunk for cutting edge cybersecurity threat detection and analysis with precision
Expertly integrate Splunk with leading cloud platforms to enhance security measures
Seamlessly incorporate Splunk with a variety of security tools for a unified defense system
Employ Splunk s robust data analytics for sophisticated threat hunting
Enhance operational efficiency and accuracy by automating security tasks with Splunk
Tailor Splunk dashboards for real time security monitoring and insightful analysis

WHO IS THIS BOOK FOR

This book is designed for IT professionals security analysts and network administrators possessing a foundational grasp of cybersecurity principles and a basic familiarity with Splunk If you are an individual seeking to enhance your proficiency in leveraging Splunk for advanced cybersecurity applications and integrations this book is crafted with your skill development in mind

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2 Overview of Splunk Architecture
3 Configuring Inputs and Data Sources
4 Data Ingestion and Normalization
5 Understanding SIEM
6 Splunk Enterprise Security
7 Security Intelligence
8 Forensic Investigation in Security Domains
9 Splunk Integration with Other Security Tools
10 Splunk for Compliance and Regulatory

Requirements 11 Security Orchestration Automation and Response SOAR with Splunk 12 Cloud Security with Splunk 13 DevOps and Security Operations 14 Best Practices for Splunk in Cybersecurity 15 Conclusion and Summary Index

Handbook of Systems Engineering and Risk Management in Control Systems, Communication, Space Technology, Missile, Security and Defense Operations Anna M. Doro-on, 2022-09-27 This book provides multifaceted components and full practical perspectives of systems engineering and risk management in security and defense operations with a focus on infrastructure and manpower control systems missile design space technology satellites intercontinental ballistic missiles and space security While there are many existing selections of systems engineering and risk management textbooks there is no existing work that connects systems engineering and risk management concepts to solidify its usability in the entire security and defense actions With this book Dr Anna M Doro on rectifies the current imbalance She provides a comprehensive overview of systems engineering and risk management before moving to deeper practical engineering principles integrated with newly developed concepts and examples based on industry and government methodologies The chapters also cover related points including design principles for defeating and deactivating improvised explosive devices and land mines and security measures against kinds of threats The book is designed for systems engineers in practice political risk professionals managers policy makers engineers in other engineering fields scientists decision makers in industry and government and to serve as a reference work in systems engineering and risk management courses with focus on security and defense operations

Pro Hadoop Data Analytics Kerry Koitzsch, 2016-12-29 Learn advanced analytical techniques and leverage existing tool kits to make your analytic applications more powerful precise and efficient This book provides the right combination of architecture design and implementation information to create analytical systems that go beyond the basics of classification clustering and recommendation Pro Hadoop Data Analytics emphasizes best practices to ensure coherent efficient development A complete example system will be developed using standard third party components that consist of the tool kits libraries visualization and reporting code as well as support glue to provide a working and extensible end to end system The book also highlights the importance of end to end flexible configurable high performance data pipeline systems with analytical components as well as appropriate visualization results You ll discover the importance of mix and match or hybrid systems using different analytical components in one application This hybrid approach will be prominent in the examples What You ll Learn Build big data analytic systems with the Hadoop ecosystem Use libraries tool kits and algorithms to make development easier and more effective Apply metrics to measure performance and efficiency of components and systems Connect to standard relational databases noSQL data sources and more Follow case studies with example components to create your own systems Who This Book Is For Software engineers architects and data scientists with an interest in the design and implementation of big data analytical systems using Hadoop the Hadoop ecosystem and other associated technologies

Ultimate Certified Kubernetes Administrator (CKA) Certification Guide: Become CKA Certified

with Ease by Mastering Cluster Management and Orchestration with Kubernetes Rajesh Vishnupant,2024-07-09 Unlock the Power of Kubernetes Master Cluster Excellence Key Features Master Kubernetes from the ground up covering foundational to expert level skills Enhance learning with practical examples clear diagrams and real world applications Tailored content to help you confidently pass the CKA certification exam Book DescriptionEmbark on a journey from beginner to pro with this CKA Certification Guide Seamlessly blending theory with hands on practice this indispensable Kubernetes companion provides clear explanations and real world scenarios to guide you to success in Kubernetes administration The book starts by giving a solid understanding of Kubernetes platform and how to confidently set up your clusters with step by step instructions You will dive into Workload Objects to master crucial concepts then explore Service and Ingress for a deep understanding of networking Next it moves to deploy and scale applications ensuring you re ready for any workload This book offers the tools needed to design deploy and maintain efficient scalable and resilient applications in Kubernetes environments It covers essential topics such as Pods Deployments and StatefulSets along with providing insights into Kubernetes architecture and operations The advanced section of the book focuses on enhancing your skills with chapters on security and troubleshooting ensuring you can maintain your clusters effectively and managing microservices with precision The final section of the book covers focused content and practice exercises to prepare you to ace the CKA certification exam What you will learn Gain the skills to set up configure and maintain Kubernetes clusters ensuring secure and efficient operations Learn how to create deploy and manage applications on Kubernetes including handling updates and scaling Acquire in depth knowledge of Kubernetes networking and storage enabling you to design and implement robust solutions Develop expertise in automating application deployments and managing their scaling and availability for optimal performance Build the ability to identify diagnose and resolve common Kubernetes problems ensuring smooth cluster operations Table of Contents1 Introduction to Kubernetes 2 Installing Kubernetes 3 Workload Objects Pod Deploy StatefulSet 4 Service and Ingress Exposing Apps Outside the Cluster 5 Deploy and Scale Stateless Apps 6 Deployment Strategies RollingUpdate Recreate 7 Data Persistence Local and Cloud 8 Deploy and Scale StatefulSet 9 Configure Apps for Production Deployment 10 Cluster Database Backup and Restore 11 Cluster Upgrade kubeadm 12 CoreDNS 13 Networking Pod Service and Ingress 14 Kubernetes CNI 15 Kubernetes Security 16 Troubleshooting 17 Kubernetes Production Essentials 18 Microservices Observability 19 Scalable Jenkins on Kubernetes 20 GitOps using ArgoCD and GitHub 21 CKA Exam Mastery Index

Ultimate Generative AI Solutions on Google Cloud Arun Pandey,2024-12-29 TAGLINE Unlock Generative AI s Potential Transform Ideas into Reality on Google Cloud KEY FEATURES Step by step guidance for building Generative AI apps on Google Cloud Platform Pro tips for fine tuning models to achieve optimal performance Industry specific use cases for practical hands on learning DESCRIPTION Generative AI powered by Google Cloud Platform GCP is reshaping industries with its advanced capabilities in automating and enhancing complex tasks The Ultimate Generative AI Solutions on Google

Cloud is your comprehensive guide to harnessing this powerful combination to innovate and excel in your job role. It explores foundational machine learning concepts and dives deep into Generative AI, providing the essential knowledge needed to conceptualize, develop, and deploy cutting-edge AI solutions. Within these pages, you'll explore Large Language Models (LLMs), Prompt engineering, Fine-tuning techniques, and the latest advancements in AI, with special emphasis on Parameter Efficient Fine Tuning (PEFT) and Reinforcement Learning with Human Feedback (RLHF). You'll also learn about the integration of LangChain and Retrieval-Augmented Generation (RAG) to enhance AI capabilities. By mastering these techniques, you can optimize model performance while conserving resources. The integration of GCP services simplifies the development process, enabling the creation of robust AI applications with ease. By the end of this book, you will not only understand the technical aspects of Generative AI but also gain practical skills that can transform your work to drive innovation and boost operational efficiency with Generative AI on GCP.

WHAT WILL YOU LEARN

- Build and deploy cutting-edge generative AI solutions using Google Cloud LangChain and RAG.
- Fine-tune large language models (LLMs) with PEFT to meet precise business objectives.
- Master prompt engineering techniques to enhance model performance with GCP tools.
- Optimize production AI for efficiency and scalability using GCP's Cloud Functions and Cloud Run.
- Apply real-world industry use cases to drive innovation and solve complex problems with LLMops.
- Manage and streamline AI projects effectively using GCP services like Dataflow, Pub/Sub, and Monitoring.

WHO IS THIS BOOK FOR

This book is tailored for AI practitioners, data scientists, and developers with a foundational knowledge of machine learning and experience using Google Cloud services. Familiarity with Python programming and an interest in generative AI applications will enrich your understanding and support practical implementation of the concepts.

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2. Google Cloud Basics
3. Getting Started with Large Language Models
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8. Model Optimization
9. LLMops for Managing and Monitoring AI Projects
10. Harnessing RAG and LangChain
11. Case Studies and Real World Implementations

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Ultimate Linux Network Security for Enterprises Adarsh Kant, 2024-04-30

Level Up Your Security Skills with Linux Expertise

Key Features

- Comprehensive exploration of Linux network security and advanced techniques to defend against evolving cyber threats.
- Hands-on exercises to reinforce your understanding and gain practical experience in implementing cybersecurity strategies.
- Gain valuable insights from industry best practices to effectively address emerging threats and protect your organization's digital assets within the evolving landscape of Linux network security.

Book Description

The Ultimate Linux Network Security for Enterprises is your essential companion to mastering advanced cybersecurity techniques tailored for Linux systems. The book provides a comprehensive exploration of Linux network security, equipping you with the skills and knowledge needed to defend against evolving cyber threats. Through hands-on exercises, real-world scenarios, and industry best practices, this book empowers you to fortify your organization's networks.

with confidence Discover practical insights and techniques that transcend theoretical knowledge enabling you to apply effective cybersecurity strategies in your job role From understanding fundamental concepts to implementing robust security measures each chapter provides invaluable insights into securing Linux based networks Whether you are tasked with conducting vulnerability assessments designing incident response plans or implementing intrusion detection systems this book equips you with the tools and expertise to excel in your cybersecurity endeavors By the end of this book you will gain the expertise needed to stay ahead of emerging threats and safeguard your organization s digital assets What you will learn Perform thorough vulnerability assessments on Linux networks to pinpoint network weaknesses Develop and deploy resilient security incident response plans Configure and oversee sophisticated firewall and packet filtering rules Employ cryptography techniques to ensure secure data transmission and storage Implement efficient Intrusion Detection and Prevention Systems IDS IPS Enforce industry leading best practices to bolster Linux network security defenses Table of Contents 1 Exploring Linux Network Security Fundamentals 2 Creating a Secure Lab Environment 3 Access Control Mechanism in Linux 4 Implementing Firewalls And Packet Filtering 5 Mastering Cryptography for Network Security 6 Intrusion Detection System and Intrusion Prevention System 7 Conducting Vulnerability Assessment with Linux 8 Creating Effective Disaster Recovery Strategies 9 Robust Security Incident Response Plan 10 Best Practices for Linux Network Security Professionals Index

Effective DevOps with AWS Yogesh Raheja, Giuseppe Borgese, Nathaniel Felsen, 2018-09-28 Scale and maintain outstanding performance in your AWS based infrastructure using DevOps principles Key Features Implement continuous integration and continuous deployment pipelines on AWS Gain insight from an expert who has worked with Silicon Valley s most high profile companies Implement DevOps principles to take full advantage of the AWS stack and services Book Description The DevOps movement has transformed the way modern tech companies work Amazon Web Services AWS which has been at the forefront of the cloud computing revolution has also been a key contributor to the DevOps movement creating a huge range of managed services that help you implement DevOps principles Effective DevOps with AWS Second Edition will help you to understand how the most successful tech start ups launch and scale their services on AWS and will teach you how you can do the same This book explains how to treat infrastructure as code meaning you can bring resources online and offline as easily as you control your software You will also build a continuous integration and continuous deployment pipeline to keep your app up to date Once you have gotten to grips with all this we ll move on to how to scale your applications to offer maximum performance to users even when traffic spikes by using the latest technologies such as containers In addition to this you ll get insights into monitoring and alerting so you can make sure your users have the best experience when using your service In the concluding chapters we ll cover inbuilt AWS tools such as CodeDeploy and CloudFormation which are used by many AWS administrators to perform DevOps By the end of this book you ll have learned how to ensure the security of your platform and data using the latest and most prominent AWS tools What you will

learnImplement automatic AWS instance provisioning using CloudFormationDeploy your application on a provisioned infrastructure with AnsibleManage infrastructure using TerraformBuild and deploy a CI CD pipeline with Automated Testing on AWSUnderstand the container journey for a CI CD pipeline using AWS ECSMonitor and secure your AWS environmentWho this book is for Effective DevOps with AWS is for you if you are a developer DevOps engineer or you work in a team which wants to build and use AWS for software infrastructure Basic computer science knowledge is required to get the most out of this book

Practical Ansible Automation Handbook: An ultimate guide to innovate, accelerate, and maximize efficiency of IT infrastructure on Windows and Linux Luca Berton,2023-07-20 Unleash the Power of Ansible to Automate Workflows Streamline Operations and Revolutionize Infrastructure Management Key Features Automate tasks with Ansible code for error free high performance results Master Ansible language essentials architecture and ad hoc commands Explore Ansible s versatile capabilities to gain expertise in Linux and Windows administration Achieve efficient configuration management deployment and orchestration Unlock advanced Ansible Automation Platform and Morpheus features Book Description Tired of repetitive and time consuming IT tasks Unlock the true potential of automation with Practical Ansible Automation Handbook This comprehensive guide authored by Ansible expert Luca Berton will help you master the art of automation Starting with the basics the book introduces Ansible s workflow architecture and environment setup Through step by step instructions and real world examples you ll gain proficiency in executing core tasks such as provisioning configuration management application deployment automation and orchestration The book covers automating administrative tasks in Linux and Windows advanced topics like Ansible Automation Platform and Morpheus and leveraging cloud computing with Amazon Web Services and Kubernetes container orchestration Practicality and real world scenarios set this book apart It addresses common roadblocks provides best practices and helps you develop a beginner friendly playbook that minimizes errors and maximizes performance With Ansible s commercial viability evident in the market learning it positions you at the forefront of automation expertise Whether you re a system administrator network administrator developer or manager this book empowers you to automate everything with Ansible Embrace the power of automation revolutionize your IT operations and unleash new levels of efficiency and productivity in your organization What you will learn Set up and configure Ansible environments to automate various tasks Execute automation tasks manage configurations and deploy applications Leverage Ansible Automation Platform and Morpheus for performance optimization of complex workflows Design efficient playbooks to streamline operations and troubleshoot using the best practices Efficiently automate routine tasks to achieve Enterprise level scalability Who is this book for This book is targeted towards beginners and developers involved in IT operations and who wish to extract the best from Ansible for task automation It caters to system administrators network administrators developers and managers in IT operations No prior Ansible knowledge is needed as it covers basics and advances gradually Familiarity with Linux and system administration is beneficial By the end readers will have a solid

foundation and be ready to implement automation solutions

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Ultimate Docker for Cloud Native Applications Meysam Azad ,2024-02-19

Unlock the Power of Docker to Revolutionize Your Development and Deployment Strategies

KEY FEATURES Dive into real world Docker expertise through hands on learning and practical exercises Covers Docker fundamentals and extends to advanced orchestration techniques for holistic understanding of the ecosystem Benefit from expert perspectives gaining insider knowledge and practical insights

DESCRIPTION Embark on an enriching Docker journey with this definitive guide meticulously designed to take you from foundational knowledge to advanced mastery This book adopts a holistic approach to containerization starting with essential concepts Docker s intricacies and then moving on to an exploration of core concepts and architecture You will then move seamlessly through building and managing Docker images navigating networking challenges and mastering the art of persistent data management Each chapter builds upon the last ensuring a thorough grasp of Docker s intricacies The book will help you streamline deployment with Docker Compose scale applications through Docker Swarm fortify deployments with security insights and seamlessly integrate Docker into your CI CD pipelines Push the boundaries further with discussions on Docker in cloud platforms an introduction to Kubernetes and advanced Docker concepts Authored by a seasoned Senior Site Reliability Engineer SRE this book goes beyond the theoretical by providing insider insights best practices and real world scenarios Bridging the gap between concepts and application it serves as your trusted companion in navigating Docker complexities

WHAT WILL YOU LEARN Build and manage Docker containers with practical proficiency Create efficient Docker images tailored to diverse application requirements Orchestrate containers seamlessly using Kubernetes for robust and scalable deployments Implement advanced networking solutions within the Docker environment Troubleshoot common issues and optimize Dockerized applications for peak performance Gain expert insights on architecting scalable and resilient software solutions

WHO IS THIS BOOK FOR Tailored for Software Developers System Administrators DevOps Engineers IT Managers Cloud Architects and Infrastructure Engineers this book offers valuable insights and advanced techniques Whether you re a Docker beginner or seeking to deepen your expertise it addresses a variety of roles in the dynamic realms of software development and IT While no prior Docker experience is required a foundational understanding of containerization concepts and familiarity with Linux environments can enhance the learning experience for all readers

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Containerization Appendix A All in One Cheatsheet Index **Splunk Best Practices** Travis Marlette, 2016-09-21 Design implement and publish custom Splunk applications by following best practices About This Book This is the most up to date guide on the market and will help you finish your tasks faster easier and more efficiently Highly practical guide that addresses common and not so common pain points in Splunk Want to explore shortcuts to perform tasks more efficiently with Splunk This is the book for you Who This Book Is For This book is for administrators developers and search ninjas who have been using Splunk for some time A comprehensive coverage makes this book great for Splunk veterans and newbies alike What You Will Learn Use Splunk effectively to gather analyze and report on operational data throughout your environment Expedite your reporting and be empowered to present data in a meaningful way Create robust searches reports and charts using Splunk Modularize your programs for better reusability Build your own Splunk apps and learn why they are important Learn how to integrate with enterprise systems Summarize data for longer term trending reporting and analysis In Detail This book will give you an edge over others through insights that will help you in day to day instances When you re working with data from various sources in Splunk and performing analysis on this data it can be a bit tricky With this book you will learn the best practices of working with Splunk You ll learn about tools and techniques that will ease your life with Splunk and will ultimately save you time In some cases it will adjust your thinking of what Splunk is and what it can and cannot do To start with you ll get to know the best practices to get data into Splunk analyze data and package apps for distribution Next you ll discover the best practices in logging operations knowledge management searching and reporting To finish off we will teach you how to troubleshoot Splunk searches as well as deployment testing and development with Splunk Style and approach If you re stuck or want to find a better way to work with Splunk environment this book will come handy This easy to follow insightful book contains step by step instructions and examples and scenarios that you will connect to

Reviewing **Splunk Operational Intelligence Cookbook**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Splunk Operational Intelligence Cookbook**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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