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0   Past 7 days

Scheduled changes
0   Upcoming and past 7 days

Other notifications
0   Past 7 days

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Current month costs
$24.32

Forecasted month end costs
$24.32   Up 3% over last month

Last month costs
$23.64

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Top costs for current month

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Amazon Route 53		$7.51
Tax		$3.18
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Getting Started With Aws English Edition

Yohan Wadia,Rowan Udell,Lucas Chan,Udita Gupta

Getting Started With Aws English Edition:

Terraform Cookbook Mikael Krief,2023-08-31 Explore how to provision manage and scale your infrastructure using Infrastructure as Code IaC with Terraform Purchase of the print or Kindle book includes a free PDF eBook Key Features Get up and running with the latest version of Terraform v1 CLI Discover how to deploy Kubernetes resources with Terraform Learn how to troubleshoot common Terraform issues Book DescriptionHashiCorp Configuration Language HCL has changed how we define and provision data center infrastructure with the launch of Terraform a top tier product for building Infrastructure as Code IaC Terraform Cookbook shows you how to leverage Terraform to manage complex infrastructure with ease This new edition has been updated to include real world examples for provisioning Azure AWS and GCP infrastructure with Terraform You ll delve into manual and automated testing with Terraform configurations creating and managing a balanced efficient and reusable infrastructure with Terraform modules You ll learn how to automate the deployment of Terraform configuration with continuous integration and continuous delivery CI CD Besides that several new chapters have been added that describe the use of Terraform for Docker and Kubernetes examine advanced topics on GitOps practices and explain how to test Terraform configurations using different tools to check code and security compliance The final chapter covers troubleshooting common Terraform issues and provides solutions for frequently encountered errors By the end of this book you ll have developed the skills needed to get the most value out of Terraform and to effectively manage your infrastructure What you will learn Use Terraform to build and run cloud and Kubernetes infrastructure using IaC best practices Adapt the Terraform command line adapted to appropriate use cases Automate the deployment of Terraform confi guration with CI CD Discover manipulation of the Terraform state by adding or removing resources Explore Terraform for Docker and Kubernetes deployment advanced topics on GitOps practices and Cloud Development Kit CDK Add and apply test code and compliance security in Terraform configuration Debug and troubleshoot common Terraform errors Who this book is for This book is for developers operators and DevOps engineers looking to improve their workflow and use Infrastructure as Code Experience with Microsoft Azure Jenkins shell scripting and DevOps practices is required to get the most out of this Terraform book   **Applied Data Science Using PySpark** Ramcharan Kakarla,Sundar Krishnan,Balaji Dhamodharan,Venkata Gunnu,2024-12-01 This comprehensive guide featuring hand picked examples of daily use cases will walk you through the end to end predictive model building cycle using the latest techniques and industry tricks In Chapters 1 2 and 3 we will begin by setting up the environment and covering the basics of PySpark focusing on data manipulation Chapter 4 delves into the art of variable selection demonstrating various techniques available in PySpark In Chapters 5 6 and 7 we explore machine learning algorithms their implementations and fine tuning techniques Chapters 8 and 9 will guide you through machine learning pipelines and various methods to operationalize and serve models using Docker API Chapter 10 will demonstrate how to unlock the power of predictive models to create a meaningful impact on your business Chapter 11

introduces some of the most widely used and powerful modeling frameworks to unlock real value from data In this new edition you will learn predictive modeling frameworks that can quantify customer lifetime values and estimate the return on your predictive modeling investments This edition also includes methods to measure engagement and identify actionable populations for effective churn treatments Additionally a dedicated chapter on experimentation design has been added covering steps to efficiently design conduct test and measure the results of your models All code examples have been updated to reflect the latest stable version of Spark You will Gain an overview of end to end predictive model building Understand multiple variable selection techniques and their implementations Learn how to operationalize models Perform data science experiments and learn useful tips   Getting Started with Terraform Kirill Shirinkin,2017-07-31 Build Manage and Improve your infrastructure effortlessly About This Book An up to date and comprehensive resource on Terraform that lets you quickly and efficiently launch your infrastructure Learn how to implement your infrastructure as code and make secure effective changes to your infrastructure Learn to build multi cloud fault tolerant systems and simplify the management and orchestration of even the largest scale and most complex cloud infrastructures Who This Book Is For This book is for developers and operators who already have some exposure to working with infrastructure but want to improve their workflow and introduce infrastructure as a code practice Knowledge of essential Amazon Web Services components EC2 VPC IAM would help contextualize the examples provided Basic understanding of Jenkins and Shell scripts will be helpful for the chapters on the production usage of Terraform What You Will Learn Understand what Infrastructure as Code IaC means and why it matters Install configure and deploy Terraform Take full control of your infrastructure in the form of code Manage complete infrastructure starting with a single server and scaling beyond any limits Discover a great set of production ready practices to manage infrastructure Set up CI CD pipelines to test and deliver Terraform stacks Construct templates to simplify more complex provisioning tasks In Detail Terraform is a tool used to efficiently build configure and improve the production infrastructure It can manage the existing infrastructure as well as create custom in house solutions This book shows you when and how to implement infrastructure as a code practices with Terraform It covers everything necessary to set up the complete management of infrastructure with Terraform starting with the basics of using providers and resources It is a comprehensive guide that begins with very small infrastructure templates and takes you all the way to managing complex systems all using concrete examples that evolve over the course of the book The book ends with the complete workflow of managing a production infrastructure as code this is achieved with the help of version control and continuous integration The readers will also learn how to combine multiple providers in a single template and manage different code bases with many complex modules It focuses on how to set up continuous integration for the infrastructure code The readers will be able to use Terraform to build change and combine infrastructure safely and efficiently Style and approach This book will help and guide you to implement Terraform in your infrastructure The readers will start by working

on very small infrastructure templates and then slowly move on to manage complex systems all by using concrete examples that will evolve during the course of the book **Getting Started with Kubernetes** Jonathan Baier,Jesse White,2018-10-30 Schedule and run application containers using Kubernetes Key FeaturesGet to grips with a wide range of tools to monitor and secure your deploymentsManage your container clusters and networks using KubernetesGet well versed with the fundamentals of KubernetesBook Description Kubernetes has continued to grow and achieve broad adoption across various industries helping you to orchestrate and automate container deployments on a massive scale Based on the recent release of Kubernetes 1 12 Getting Started with Kubernetes gives you a complete understanding of how to install a Kubernetes cluster The book focuses on core Kubernetes constructs such as pods services replica sets replication controllers and labels You will understand cluster level networking in Kubernetes and learn to set up external access to applications running in the cluster As you make your way through the book you ll understand how to manage deployments and perform updates with minimal downtime In addition to this you will explore operational aspects of Kubernetes such as monitoring and logging later moving on to advanced concepts such as container security and cluster federation You ll get to grips with integrating your build pipeline and deployments within a Kubernetes cluster and be able to understand and interact with open source projects In the concluding chapters you ll orchestrate updates behind the scenes avoid downtime on your cluster and deal with underlying cloud provider instability within your cluster By the end of this book you ll have a complete understanding of the Kubernetes platform and will start deploying applications on it What you will learnDownload install and configure the Kubernetes code baseSet up and access monitoring and logging for Kubernetes clustersSet up external access to applications running in the clusterLearn how to manage and scale kubernetes with hosted platforms on AWS Azure and GCPRun multiple clusters and manage them from a single control planeDiscover top tools for deploying and managing a Kubernetes clusterLearn how to get production ready and harden Kubernetes operations networking and storageWho this book is for Getting Started with Kubernetes is for developers system administrators and DevOps engineers who want to automate the deployment process and scale their applications No prior knowledge of Kubernetes is required **Linux Bible** Christopher Negus,2020-06-10 The industry favorite Linux guide Linux Bible 10th Edition is the ultimate hands on Linux user guide whether you re a true beginner or a more advanced user navigating recent changes this updated tenth edition covers the latest versions of Red Hat Enterprise Linux RHEL 8 Fedora 30 and Ubuntu 18 04 LTS It includes information on cloud computing with new guidance on containerization Ansible automation and Kubernetes and OpenShift With a focus on RHEL 8 this new edition teaches techniques for managing storage users and security while emphasizing simplified administrative techniques with Cockpit Written by a Red Hat expert this book provides the clear explanations and step by step instructions that demystify Linux and bring the new features seamlessly into your workflow This useful guide assumes a base of little or no Linux knowledge and takes you step by step through what you need to know to get the job done Get Linux up and running

quickly Master basic operations and tackle more advanced tasks Get up to date on the recent changes to Linux server system management Bring Linux to the cloud using Openstack and Cloudforms Simplified Linux administration through the Cockpit Web Interface Automated Linux Deployment with Ansible Learn to navigate Linux with Amazon AWS Google GCE and Microsofr Azure Cloud services Linux Bible 10th Edition is the one resource you need and provides the hands on training that gets you on track in a flash **Practical MLOps** Noah Gift,Alfredo Deza,2021-09-14 Getting your models into production is the fundamental challenge of machine learning MLOps offers a set of proven principles aimed at solving this problem in a reliable and automated way This insightful guide takes you through what MLOps is and how it differs from DevOps and shows you how to put it into practice to operationalize your machine learning models Current and aspiring machine learning engineers or anyone familiar with data science and Python will build a foundation in MLOps tools and methods along with AutoML and monitoring and logging then learn how to implement them in AWS Microsoft Azure and Google Cloud The faster you deliver a machine learning system that works the faster you can focus on the business problems you re trying to crack This book gives you a head start You ll discover how to Apply DevOps best practices to machine learning Build production machine learning systems and maintain them Monitor instrument load test and operationalize machine learning systems Choose the correct MLOps tools for a given machine learning task Run machine learning models on a variety of platforms and devices including mobile phones and specialized hardware *Mastering GitLab 12* Joost Evertse,2019-08-02 An expert guide to helping you use DevOps techniques with the latest GitLab version to optimize and manage your software workflow Key FeaturesDelve into GitLab s architecture and install and configure it to fit your environmentLearn about the underlying principles of Agile software development and DevOpsExplore Gitlab s features to manage enterprise cloud native applications and servicesBook Description GitLab is an open source repository management and version control toolkit with functions for enterprises and personal software projects It offers configurability options extensions and APIs that make it an ideal tool for enterprises to manage the software development life cycle This book begins by explaining GitLab options and the components of the GitLab architecture You will learn how to install and set up GitLab on premises and in the cloud along with understanding how to migrate code bases from different systems such as GitHub Concurrent Versions System Team Foundation Version Control and Subversion Later chapters will help you implement DevOps culture by introducing the workflow management tools in GitLab and continuous integration continuous deployment CI CD In addition to this the book will guide you through installing GitLab on a range of cloud platforms monitoring with Prometheus and deploying an environment with GitLab You ll also focus on the GitLab CI component to assist you with creating development pipelines and jobs along with helping you set up GitLab runners for your own project Finally you will be able to choose a high availability setup that fits your needs and helps you monitor and act on results obtained after testing By the end of this book you will have gained the expertise you need to use GitLab features effectively and be able to integrate all phases in the development

process What you will learnInstall GitLab on premises and in the cloud using a variety of configurationsConduct data migration from the SVN TFS CVS and GitHub platforms to GitLabUse GitLab runners to develop different types of configurations in software developmentPlan and perform CI CD by using GitLab featuresMonitor and secure your software architecture using Prometheus and GrafanaImplement DevOps culture by introducing workflow management tools in GitLabWho this book is for If you are a software developer DevOps professional or any developer who wants to master GitLab for productive repository management in your day to day tasks this book is for you Basic understanding of the software development workflow is assumed   Developing on AWS with C# Noah Gift,James Charlesworth,2022-10-04 Many organizations today have begun to modernize their Windows workloads to take full advantage of cloud economics If you re a C developer at one of these companies you need options for rehosting replatforming and refactoring your existing NET Framework applications This practical book guides you through the process of converting your monolithic application to microservices on AWS Authors Noah Gift founder of Pragmatic AI Labs and James Charlesworth engineering manager at Pendo take you through the depth and breadth of NET tools on AWS You ll examine modernization techniques and pathways for incorporating Linux and Windows containers and serverless architecture to build maintain and scale modern NET apps on AWS With this book you ll learn how to make your applications more modern resilient and cost effective Get started building solutions with C on AWS Learn DevOps best practices for AWS Explore the development tools and services that AWS provides Successfully migrate a legacy NET application to AWS Develop serverless NET microservices on AWS Containerize your NET applications and move into the cloud Monitor and test your AWS NET applications Build cloud native solutions that combine the best of the NET platform and AWS   **Python Networking Solutions Guide** Tolga Koca,2023-01-21 Automate Your Network Configuration Management and Operation Tasks with Python KEY FEATURES Get familiar with the basics of network automation Understand how to automate various network devices like Routers Switches Servers and Firewalls Learn how to create customized scripts to manage multiple devices using Python DESCRIPTION Python is the de facto standard for automated network operations nowadays With the power of Python network devices can be automated easily with basic scripts Written in direct and intuitive language this practical guide will help you to automate your network with Python In this book you will understand what network automation is precisely The book will help you get familiar with the basics of the Python language It will also help you learn how to monitor maintain and deploy configurations in network and system devices such as routers switches servers and storage The book will explain how to automate cloud infrastructures like AWS Amazon Web Services with Python By the end of the book you will be able to decrease your routine workload and improve productivity by automating your networking tasks WHAT YOU WILL LEARN Get familiar and work with Python libraries like Paramiko and Netmiko Write and deploy scripts to configure network devices such as Firewalls Routers and Switches Understand how to use Python scripts for network security Learn how to combine all micro scripts in the main Python script

Create configure operate and maintain AWS services through Python scripts using Boto3 WHO THIS BOOK IS FOR This book is specially designed for system administrators infrastructure automation engineers IT engineers and network engineers to leverage Python s potential as an automation tool to centrally manage routers servers and cloud infrastructures in an organizational network and beyond TABLE OF CONTENTS 1 Introduction to Network Automation 2 Python Basics 3 Python Networking Modules 4 Collecting and Monitoring Logs 5 Deploy Configurations in Network Devices 6 File Transfer and Plotting 7 Maintain and Troubleshoot Network Issues 8 Monitor and Manage Servers 9 Network Security with Python 10 Deploying Automation Software 11 Automate Cloud Infrastructures with Python   **AWS Administration – The Definitive Guide** Yohan Wadia,2016-02-12 Learn to design build and manage your infrastructure on the most popular of all the Cloud platforms Amazon Web Services About This Book Learn how to leverage various Amazon Web Services AWS components and services to build a secure reliable and robust environment to host your applications on Deep dive into the core AWS service offerings with hands on tutorials real world use case scenarios and best practices A self paced systematic and step by step guide to learning and implementing AWS in your own environment Who This Book Is For This book is for those who want to learn and leverage AWS Although no prior experience with AWS is required it is recommended that you have some hands on experienceofLinux Web Services and basic networking What You Will Learn A brief introduction to Cloud Computing and AWS accompanied by steps to sign up for your first AWS account Create and manage users groups and permissions using AWSS Identity and Access Management services Get started with deploying and accessing EC2 instances working with EBS Volumes and Snapshots Customize and create your very own Amazon Machine Image Design and deploy your instances on a highly secured network isolated environment using Amazon VPC Effectively monitor your AWS environment using specialized alarms custom monitoring metrics and much more Explore the various benefits of Database as a Service offerings and leverage them using Amazon RDS and Amazon DynamoDB Take an in depth look at what s new with AWS including EC2 Container Service and Elastic File System In Detail AWS is at the forefront of Cloud Computing today Many businesses are moving away from traditional datacenters and toward AWS because of its reliability vast service offerings lower costs and high rate of innovation Because of its versatility and flexible design AWS can be used to accomplish a variety of simple and complicated tasks such as hosting multitier websites running large scale parallel processing content delivery petabyte storage and archival and lots more Whether you are a seasoned sysadmin or a rookie this book will provide you with all the necessary skills to design deploy and manage your applications on the AWS cloud platform The book guides you through the core AWS services such as IAM EC2 VPC RDS and S3 using a simple real world application hosting example that you can relate to Each chapter is designed to provide you with the most information possible about a particular AWS service coupled with easy to follow hands on steps best practices tips and recommendations By the end of the book you will be able to create a highly secure fault tolerant and scalable environment for your applications to run on Style and approach This in depth and

insightful guide is filled with easy to follow examples real world use cases best practices and recommendations that will help you design and leverage AWS   *HashiCorp Terraform Associate (003) Exam Guide* Chandra Mohan Dhanasekaran,Manjunath H. Gowda,2024-05-31 Master Terraform concepts and the workflow to successfully gain HashiCorp Terraform Associate 003 certification Key Features Familiarize yourself with every aspect of the latest Terraform Associate 003 exam objectives Learn essential topics with detailed explanations and real world examples Focus on best practices for Infrastructure as Code IaC and Terraform Purchase of this book unlocks access to web based exam prep resources including mock exams flashcards exam tips and the eBook PDF Book DescriptionThis HashiCorp Terraform Associate 003 exam guide simplifies technical content relating to the exam and helps you learn using real world examples The book is aligned with the latest exam objectives which enables you to streamline your learning experience instead of referring to multiple sources for preparation Moreover the book is designed to serve as a one stop solution for readers with varied levels of experience in Terraform You ll learn how to efficiently provision and manage cloud and on premises infrastructure using Terraform As you progress you ll focus on essential commands state management techniques and best practices Later chapters will show you how to harness the power of Terraform modules for code reusability and scalability You ll also gain insights into advanced topics such as debugging troubleshooting and leveraging Terraform Cloud and Terraform Enterprise for collaborative infrastructure management This book provides you with lifetime access to supplementary practice resources such as mock exams flashcards and exam tips from experts By the end of this book you ll have the knowledge and skills you need to confidently tackle the Terraform Associate certification exam and excel in your career What you will learn Understand the concepts around Infrastructure as Code IaC Interact with modules seamlessly for scalable and reusable code Use the core building blocks of Terraform effectively in multi cloud environments Apply Terraform functions to enhance configuration capabilities Write configuration scripts and make use of workspaces Understand the importance of Terraform state and its efficient management Who this book is for This HashiCorp Terraform Associate 003 preparation guide is tailored to individuals preparing for the latest Terraform Associate Certification 003 exam by HashiCorp Cloud engineers specializing in automated provisioning of cloud infrastructure and related operations will also benefit significantly from this book

  Docker on Amazon Web Services Justin Menga,2018-08-30 Run Docker on AWS and build real world secure and scalable container platforms on cloud Key Features Configure Docker for the ECS environment Integrate Docker with different AWS tools Implement container networking and deployment at scale Book Description Over the last few years Docker has been the gold standard for building and distributing container applications Amazon Web Services AWS is a leader in public cloud computing and was the first to offer a managed container platform in the form of the Elastic Container Service ECS Docker on Amazon Web Services starts with the basics of containers Docker and AWS before teaching you how to install Docker on your local machine and establish access to your AWS account You ll then dig deeper into the ECS a

native container management platform provided by AWS that simplifies management and operation of your Docker clusters and applications for no additional cost Once you have got to grips with the basics you ll solve key operational challenges including secrets management and auto scaling your infrastructure and applications You ll explore alternative strategies for deploying and running your Docker applications on AWS including Fargate and ECS Service Discovery Elastic Beanstalk Docker Swarm and Elastic Kubernetes Service EKS In addition to this there will be a strong focus on adopting an Infrastructure as Code IaC approach using AWS CloudFormation By the end of this book you ll not only understand how to run Docker on AWS but also be able to build real world secure and scalable container platforms in the cloud What you will learn Build deploy and operate Docker applications using AWS Solve key operational challenges such as secrets management Exploit the powerful capabilities and tight integration of other AWS services Design and operate Docker applications running on ECS Deploy Docker applications quickly consistently and reliably using IaC Manage and operate Docker clusters and applications for no additional cost Who this book is for Docker on Amazon Web Services is for you if you want to build deploy and operate applications using the power of containers Docker and Amazon Web Services Basic understanding of containers and Amazon Web Services or any other cloud provider will be helpful although no previous experience of working with these is required   Architecting Enterprise Blockchain Solutions Joseph Holbrook,2020-01-20 Demystify architecting complex blockchain applications in enterprise environments Architecting Enterprise Blockchain Solutions helps engineers and IT administrators understand how to architect complex blockchain applications in enterprise environments The book takes a deep dive into the intricacies of supporting and securing blockchain technology creating and implementing decentralized applications and incorporating blockchain into an existing enterprise IT infrastructure Blockchain is a technology that is experiencing massive growth in many facets of business and the enterprise Most books around blockchain primarily deal with how blockchains are related to cryptocurrency or focus on pure blockchain development This book teaches what blockchain technology is and offers insights into its current and future uses in high performance networks and complex ecosystems Provides a practical hands on approach Demonstrates the power and flexibility of enterprise blockchains such as Hyperledger and R3 Corda Explores how blockchain can be used to solve complex IT support and infrastructure problems Offers numerous hands on examples and diagrams Get ready to learn how to harness the power and flexibility of enterprise blockchains   **Alexa Skills Projects** Madhur Bhargava,2018-06-29 Get up and running with the fundamentals of Amazon Alexa and build exciting IoT projects Key Features Gain hands on experience of working with Amazon Echo and Alexa Build exciting IoT projects using Amazon Echo Learn about voice enabled smart devices Book Description Amazon Echo is a smart speaker developed by Amazon which connects to Amazon s Alexa Voice Service and is entirely controlled by voice commands Amazon Echo is currently being used for a variety of purposes such as home automation asking generic queries and even ordering a cab or pizza Alexa Skills Projects starts with a basic introduction to Amazon Alexa and Echo You will then deep

dive into Alexa Programming concepts such as Intents Slots Lambdas and maintaining your skill s state using DynamoDB You will get a clear understanding of how some of the most popular Alexa Skills work and gain experience of working with real world Amazon Echo applications In the concluding chapters you will explore the future of voice enabled applications and their coverage with respect to the Internet of Things By the end of the book you will have learned to design Alexa Skills for specific purposes and interact with Amazon Echo to execute these skills What you will learn Understand how Amazon Echo is already being used in various domains Discover how an Alexa Skill is architected Get a clear understanding of how some of the most popular Alexa Skills work Design Alexa Skills for specific purposes and interact with Amazon Echo to execute them Gain experience of programming for Amazon Echo Explore future applications of Amazon Echo and other voice activated devices Who this book is for Alexa Skills Projects is for individuals who want to have a deep understanding of the underlying technology that drives Amazon Echo and Alexa and how it can be integrated with the Internet of Things to develop hands on projects   *Mastering Python Networking* Eric Chou,Michael Kennedy,Mandy Whaley,2020-01-30 New edition of the bestselling guide to mastering Python Networking updated to Python 3 and including the latest on network data analysis Cloud Networking Ansible 2 8 and new libraries Key FeaturesExplore the power of Python libraries to tackle difficult network problems efficiently and effectively including pyATS Nornir and Ansible 2 8Use Python and Ansible for DevOps network device automation DevOps and software defined networkingBecome an expert in implementing advanced network related tasks with Python 3Book Description Networks in your infrastructure set the foundation for how your application can be deployed maintained and serviced Python is the ideal language for network engineers to explore tools that were previously available to systems engineers and application developers In Mastering Python Networking Third edition you ll embark on a Python based journey to transition from traditional network engineers to network developers ready for the next generation of networks This new edition is completely revised and updated to work with Python 3 In addition to new chapters on network data analysis with ELK stack Elasticsearch Logstash Kibana and Beats and Azure Cloud Networking it includes updates on using newer libraries such as pyATS and Nornir as well as Ansible 2 8 Each chapter is updated with the latest libraries with working examples to ensure compatibility and understanding of the concepts Starting with a basic overview of Python the book teaches you how it can interact with both legacy and API enabled network devices You will learn to leverage high level Python packages and frameworks to perform network automation tasks monitoring management and enhanced network security followed by Azure and AWS Cloud networking Finally you will use Jenkins for continuous integration as well as testing tools to verify your network What you will learnUse Python libraries to interact with your networkIntegrate Ansible 2 8 using Python to control Cisco Juniper and Arista network devicesLeverage existing Flask web frameworks to construct high level APIsLearn how to build virtual networks in the AWS Azure CloudLearn how to use Elastic Stack for network data analysisUnderstand how Jenkins can be used to automatically deploy changes in your networkUse PyTest and Unittest for

Test Driven Network Development in networking engineering with PythonWho this book is for Mastering Python Networking Third edition is for network engineers developers and SREs who want to use Python for network automation programmability and data analysis Basic familiarity with Python programming and networking related concepts such as Transmission Control Protocol Internet Protocol TCP IP will be useful   *Learning DevOps: Continuously Deliver Better Software* Joakim Verona,Michael Duffy,Paul Swartout,2016-09-22 Learn to use some of the most exciting and powerful tools to deliver world class quality software with continuous delivery and DevOps About This Book Get to know the background of DevOps so you understand the collaboration between different aspects of an IT organization and a software developer Deploy top quality software and ensure software maintenance and release management with this practical guide This course covers some of the most exciting technology available to DevOps engineers and demonstrates multiple techniques for using them Real world and realistic examples are provided to help you as you go about the implementation and adoption of continuous delivery and DevOps Who This Book Is For This course is for developers who want to understand how the infrastructure that builds today s enterprises works and how to painlessly and regularly ship quality software What You Will Learn Set up and familiarize yourself with all the tools you need to be efficient with DevOps Design an application that is suitable for continuous deployment systems with DevOps in mind Test the code using automated regression testing with Jenkins Selenium Managing the lifecycle of hosts from creation to ongoing management using Puppet Razor Find out how to manage use and work with Code in the Git version management system See what traps pitfalls and hurdles to look out for as you implement continuous delivery and DevOps In Detail Harness the power of DevOps to boost your skill set and make your IT organization perform better If you re keen to employ DevOps techniques to better your software development this course contains all you need to overcome the day to day complications of managing complex infrastructures the DevOps way Start with your first module Practical DevOps that encompasses the entire flow from code from testing to production Get a solid ground level knowledge of how to monitor code for any anomalies perform code testing and make sure the code is running smoothly through a series of real world exercise and develop practical skills by creating a sample enterprise Java application In the second module run through a series of tailored mini tutorials designed to give you a complete understanding of every DevOps automation technique Create real change in the way you deliver your projects by utilizing some of the most commendable software available today Go from your first steps of managing code in Git to configuration management in Puppet monitoring using Sensu and more In the final module get to grips with the continuous delivery techniques that will help you reduce the time and effort that goes into the delivery and support of software This Learning Path combines some of the best that Packt has to offer in one complete curated package It includes content from the following Packt products Practical DevOps by Joakim Verona DevOps Automation Cookbook by Michael Duffy Continuous Delivery and DevOps A Quickstart Guide Second Edition by Paul Swartout Style and approach This course is an easy to follow project based guide for all those with a keen interest in

deploying world class software using some of the most effective and remarkable technologies available *Getting Started with Amazon SageMaker Studio* Michael Hsieh,2022-03-31 Build production grade machine learning models with Amazon SageMaker Studio the first integrated development environment in the cloud using real life machine learning examples and code Key FeaturesUnderstand the ML lifecycle in the cloud and its development on Amazon SageMaker StudioLearn to apply SageMaker features in SageMaker Studio for ML use casesScale and operationalize the ML lifecycle effectively using SageMaker StudioBook Description Amazon SageMaker Studio is the first integrated development environment IDE for machine learning ML and is designed to integrate ML workflows data preparation feature engineering statistical bias detection automated machine learning AutoML training hosting ML explainability monitoring and MLOps in one environment In this book you ll start by exploring the features available in Amazon SageMaker Studio to analyze data develop ML models and productionize models to meet your goals As you progress you will learn how these features work together to address common challenges when building ML models in production After that you ll understand how to effectively scale and operationalize the ML life cycle using SageMaker Studio By the end of this book you ll have learned ML best practices regarding Amazon SageMaker Studio as well as being able to improve productivity in the ML development life cycle and build and deploy models easily for your ML use cases What you will learnExplore the ML development life cycle in the cloudUnderstand SageMaker Studio features and the user interfaceBuild a dataset with clicks and host a feature store for MLTrain ML models with ease and scaleCreate ML models and solutions with little codeHost ML models in the cloud with optimal cloud resourcesEnsure optimal model performance with model monitoringApply governance and operational excellence to ML projectsWho this book is for This book is for data scientists and machine learning engineers who are looking to become well versed with Amazon SageMaker Studio and gain hands on machine learning experience to handle every step in the ML lifecycle including building data as well as training and hosting models Although basic knowledge of machine learning and data science is necessary no previous knowledge of SageMaker Studio and cloud experience is required Getting started with Deep Learning for Natural Language Processing Sunil Patel,2021-01-13 Learn how to redesign NLP applications from scratch KEY FEATURES Get familiar with the basics of any Machine Learning or Deep Learning application Understand how does preprocessing work in NLP pipeline Use simple PyTorch snippets to create basic building blocks of the network commonly used in NLP Learn how to build a complex NLP application Get familiar with the advanced embedding technique Generative network and Audio signal processing techniques DESCRIPTION Natural language processing NLP is one of the areas where many Machine Learning and Deep Learning techniques are applied This book covers wide areas including the fundamentals of Machine Learning Understanding and optimizing Hyperparameters Convolution Neural Networks CNN and Recurrent Neural Networks RNN This book not only covers the classical concept of text processing but also shares the recent advancements This book will empower users in designing networks with the least

computational and time complexity This book not only covers basics of Natural Language Processing but also helps in deciphering the logic behind advanced concepts architecture such as Batch Normalization Position Embedding DenseNet Attention Mechanism Highway Networks Transformer models and Siamese Networks This book also covers recent advancements such as ELMo BiLM SkipThought and Bert This book also covers practical implementation with step by step explanation of deep learning techniques in Topic Modelling Text Generation Named Entity Recognition Text Summarization and Language Translation In addition to this very advanced and open to research topics such as Generative Adversarial Network and Speech Processing are also covered WHAT YOU WILL LEARN Learn how to leveraging GPU for Deep Learning Learn how to use complex embedding models such as BERT Get familiar with the common NLP applications Learn how to use GANs in NLP Learn how to process Speech data and implementing it in Speech applications WHO THIS BOOK IS FOR This book is a must read to everyone who wishes to start the career with Machine learning and Deep Learning This book is also for those who want to use GPU for developing Deep Learning applications TABLE OF CONTENTS 1 Understanding the basics of learning Process 2 Text Processing Techniques 3 Representing Language Mathematically 4 Using RNN for NLP 5 Applying CNN In NLP Tasks 6 Accelerating NLP with Advanced Embeddings 7 Applying Deep Learning to NLP tasks 8 Application of Complex Architectures in NLP 9 Understanding Generative Networks 10 Techniques of Speech Processing 11 The Road Ahead   **No-code Ai: Concepts And Applications In Machine Learning, Visualization, And Cloud Platforms** Minsoo Kang,Park Sung Yul,Myeong-ae Chung,Dong-hun Han,2024-07-19 This book is a beginner friendly guide to artificial intelligence AI ideal for those with no technical background It introduces AI machine learning and deep learning basics focusing on no code methods for easy understanding The book also covers data science data mining and big data processing maintaining a no code approach throughout Practical applications are explored using no code platforms like Microsoft Azure Machine Learning and AWS SageMaker Readers are guided through step by step instructions and real data examples to apply learning algorithms without coding Additionally it includes the integration of business intelligence tools like Power BI and AWS QuickSight into machine learning projects This guide bridges the gap between AI theory and practice making it a valuable resource for beginners in the field   Kubeflow Operations Guide Josh Patterson,Michael Katzenellenbogen,Austin Harris,2020-12-04 Building models is a small part of the story when it comes to deploying machine learning applications The entire process involves developing orchestrating deploying and running scalable and portable machine learning workloads a process Kubeflow makes much easier This practical book shows data scientists data engineers and platform architects how to plan and execute a Kubeflow project to make their Kubernetes workflows portable and scalable Authors Josh Patterson Michael Katzenellenbogen and Austin Harris demonstrate how this open source platform orchestrates workflows by managing machine learning pipelines You ll learn how to plan and execute a Kubeflow platform that can support workflows from on premises to cloud providers including Google Amazon and Microsoft Dive into Kubeflow architecture and learn best

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