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Infrastructure as Code for Beginners Puppet 8 for DevOps Engineers Prometheus: Up & Running
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Infrastructure Automation with Terraform 2022-05-11 use terraform and jenkins to implement infrastructure as code and pipeline as code across multi cloud environments key features step by step guidelines for managing infrastructure across multiple cloud platforms expert led coverage on managing pipeline as code using jenkins includes images demonstrating how to manage aws and azure resources using terraform modules description this book explains how to quickly learn and utilize terraform to incorporate infrastructure as code into a continuous integration and continuous delivery pipeline the book gives you the step by step instructions with screenshots and diagrams to make the learning more accessible and fun this book discusses the necessity of infrastructure as a code iac and the many tools available for implementing iac you will gain the knowledge of resource creation iam roles ec2 instances elastic load balancers and building terraform scripts among other learnings next you will explore projects and use cases for implementing devops concepts like continuous integration infrastructure as code and continuous delivery finally you learn about the terraform modules and how to establish networks and kubernetes clusters on various cloud providers installing and configuring jenkins and sonarqube in cloud environments will also be discussed as a result of reading this book you will be able to apply infrastructure as code and pipeline as code principles to major cloud providers such as aws and azure what you will learn create manage and maintain aws and microsoft azure infrastructure using packer create amis and ec2 instances utilize terraform modules to create vpc and kubernetes clusters put the pipeline and infrastructure as code principles into practice utilize jenkins to automate the application lifecycle management process who this book is for this book will primarily help devops cloud operations agile teams cloud native developers and networking professionals being familiar with the fundamentals of cloud computing and devops will be beneficial

AWS for System Administrators 2021-02-12 take your aws sysops skills to the next level by learning infrastructure automation techniques using cloudformation terraform and boto3 key features explore aws automation using cloudformation terraform and boto3 leverage aws to make your infrastructure flexible and highly available discover various aws features for building a secure and reliable environment to host your application book description amazon services aws is one of the most popular and efficient cloud platforms for administering and deploying your applications to make them resilient and robust aws for system administrators will help you to learn several advanced cloud administration concepts for deploying managing and operating highly available systems on aws starting with the fundamentals of identity and access management iam for securing your environment this book will gradually take you through aws networking and monitoring tools as you make your way through the chapters you ll get to grips with vpc ec2 load balancer auto scaling rds database and data management the book will also show you how to initiate aws automated backups and store and keep track of log files later you ll work with aws apis and understand how to use them along with cloudformation python boto3 script and terraform to automate infrastructure by the end of this aws book you ll be ready to build your two tier startup with all the necessary infrastructure monitoring and logging components in place what you will learn adopt a security first approach by giving users minimum access using iam policies build your first amazon elastic compute cloud ec2 instance using the aws cli boto3 and terraform set up your datacenter in aws cloud using vpc scale your application based on demand using auto scaling monitor services using cloudwatch and sns work with centralized logs for analysis cloudwatch logs back up your data using amazon simple storage service amazon s3 data lifecycle manager and aws backup who this book is for this amazon services book is for system administrators and solution architects who want to build highly available and flexible aws cloud platforms for their applications software engineers and programmers looking to deploy their applications to aws cloud will also find this book useful basic knowledge of linux and aws is necessary to get started

Cloud Native Infrastructure 2017-10-25 cloud native infrastructure is more than servers network and storage in the cloud it is as much about operational hygiene as it is about elasticity and scalability in this book you ll learn practices patterns and requirements for creating infrastructure that meets your needs capable of managing the full life cycle of cloud native applications justin garrison and kris nova reveal hard earned lessons on architecting infrastructure from companies such as google amazon and netflix they draw inspiration from projects adopted by the cloud native computing foundation cncf and provide examples of patterns seen in existing tools such as kubernetes with this book you will understand why cloud native infrastructure is necessary to effectively run cloud native applications use guidelines to decide when and if your business should adopt cloud native practices learn patterns for deploying and managing infrastructure and applications design tests to prove that your infrastructure works as intended even in a variety of edge cases learn how to secure infrastructure with policy as code

Implementing AWS: Design, Build, and Manage your Infrastructure 2019-01-31 work through exciting recipes to administer your aws cloud key features build secure environments using aws components and services explore core aws features with real world applications and best practices design and build lambda functions using real world examples book description with this learning path you ll explore techniques to easily manage applications on the aws cloud you ll begin with an introduction to serverless computing its advantages and the fundamentals of aws the following chapters will guide you on how to manage multiple accounts by setting up consolidated billing enhancing your application delivery skills with the latest aws services such as codecommit codedeploy and codepipeline to provide continuous delivery and deployment while also securing and monitoring your environment s workflow it ll also add to your understanding of the services aws lambda provides to developers to refine your skills further it demonstrates how to design write test monitor and troubleshoot lambda functions by the end of this learning path you ll be able to create a highly secure fault tolerant and scalable environment for your applications this learning path includes content from the following packt products aws administration the definitive guide second edition by yohan wadia aws administration cookbook by rowan udell lucas

chanmastering aws lambda by yohan wadia udit guptawhat you will learn explore the benefits of serverless computing and applications deploy apps with aws elastic beanstalk and amazon elastic file system secure environments with aws cloudtrail aws config and aws shield run big data analytics with amazon emr and amazon redshift back up and safeguard data using aws data pipeline create monitoring and alerting dashboards using cloudwatch effectively monitor and troubleshoot serverless applications with aws design serverless apps via aws lambda dynamodb and api gateway who this book is for this learning path is specifically designed for it system and network administrators aws architects and devops engineers who want to effectively implement aws in their organization and easily manage daily activities familiarity with linux web services cloud computing platforms virtualization networking and other administration related tasks will assist in understanding the concepts in the book prior hands on experience with aws core services such as ec2 iam s3 and programming languages such as node js java and c will also prove beneficial

Mastering AWS CloudFormation 2020-05-08 build scalable and production ready infrastructure in amazon services with cloudformation key features leverage aws cloudformation templates to manage your entire infrastructure get up and running with writing your infrastructure as code and automating your environment simplify infrastructure management and increase productivity with aws cloudformation book description devops and the cloud revolution have forced software engineers and operations teams to rethink how to manage infrastructures with this aws book you ll understand how you can use infrastructure as code iac to simplify it operations and manage the modern cloud infrastructure effectively with aws cloudformation this comprehensive guide will help you explore aws cloudformation from template structures through to developing complex and reusable infrastructure stacks you ll then delve into validating templates deploying stacks and handling deployment failures the book will also show you how to leverage aws codebuild and codepipeline to automate resource delivery and apply continuous integration and continuous delivery ci cd practices to the stack as you advance you ll learn how to generate templates on the fly using macros and create resources outside aws with custom resources finally you ll improve the way you manage the modern cloud in aws by extending cloudformation using aws serverless application model sam and aws cloud development kit cdk by the end of this book you ll have mastered all the major aws cloudformation concepts and be able to simplify infrastructure management what you will learn understand modern approaches to iac develop universal and reusable cloudformation templates discover ways to apply continuous delivery with cloudformation implement iac best practices for the aws cloud provision massive applications across multiple regions and accounts automate template generation and software provisioning for aws extend cloudformation with custom resources and template macros who this book is for if you are a developer who wants to learn how to write templates a devops engineer interested in deployment and orchestration or a solutions architect looking to understand the benefits of managing infrastructure with ease this book is for you prior understanding of the aws cloud is necessary

Terraform: Up and Running 2017-03-13 terraform has emerged as a key player in the devops world for defining launching and managing infrastructure as code iac across a variety of cloud and virtualization platforms including aws google cloud and azure this hands on book is the fastest way to get up and running with terraform gruntwork co founder yevgeniy jim brikman walks you through dozens of code examples that demonstrate how to use terraform s simple declarative programming language to deploy and manage infrastructure with just a few commands whether you re a novice developer aspiring devops engineer or veteran sysadmin this book will take you from terraform basics to running a full tech stack capable of supporting a massive amount of traffic and a large team of developers compare terraform to other iac tools such as chef puppet ansible and salt stack use terraform to deploy server clusters load balancers and databases learn how terraform manages the state of your infrastructure and how it impacts file layout isolation and locking create reusable infrastructure with terraform modules try out advanced terraform syntax to implement loops if statements and zero downtime deployment use terraform as a team including best practices for writing testing and versioning terraform code

AWS Administration - The Definitive Guide 2018-03-23 leverage this step by step guide to build a highly secure fault tolerant and scalable cloud environment key features learn how to leverage various amazon services aws components and services to build a secure reliable and robust environment to host your applications on delve into 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 book description many businesses are moving from traditional data centers to aws because of its reliability vast service offerings lower costs and high rate of innovation aws can be used to accomplish a variety of both simple and tedious tasks whether you are a seasoned system admin or a rookie this book will help you to learn all the skills you need to work with the aws cloud this book guides you through some of the most popular aws services such as ec2 elastic beanstalk efs cloudtrail redshift emr data pipeline and iot using a simple real world application hosting example this book will also enhance your application delivery skills with the latest aws services such as codecommit codedeploy and codepipeline to provide continuous delivery and deployment while also securing and monitoring your environment s workflow each chapter is designed to provide you with maximal information about each 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 what you will learn take an in depth look at what s new with aws along with how to effectively manage and automate your ec2 infrastructure with aws systems manager deploy and scale your applications with ease using aws elastic beanstalk and amazon elastic file system secure and govern your environments using aws cloudtrail aws config and aws shield learn the devops way using a combination of aws codecommit aws codedeploy and aws codepipeline run big data analytics and workloads using amazon emr and amazon redshift learn to back up and safeguard your data using aws data pipeline get started with the internet of things using aws iot and aws greengrass who this

book is for those who want to learn and leverage the rich plethora of services provided by aws although no prior experience with aws is required it is recommended that you have some hands on experience of linux services and basic networking

Terraform Cookbook 2020-10-15 discover how to manage and scale your infrastructure using infrastructure as code iac with terraform key features get up and running with the latest version of terraform v0.13 design and manage infrastructure that can be shared tested modified provisioned and deployed work through practical recipes to achieve zero downtime deployment and scale your infrastructure effectively book description hashicorp configuration language hcl has changed how we define and provision a data center infrastructure with the launch of terraform one of the most popular and powerful products for building infrastructure as code this practical guide will show you how to leverage hashicorp's terraform tool to manage a complex infrastructure with ease starting with recipes for setting up the environment this book will gradually guide you in configuring provisioning collaborating and building a multi environment architecture unlike other books you'll also be able to explore recipes with real world examples to provision your azure infrastructure with terraform once you've covered topics such as azure template azure cli terraform configuration and terragrunt you'll delve into manual and automated testing with terraform configurations the next set of chapters will show you how to manage a balanced and efficient infrastructure and create reusable infrastructure with terraform modules finally you'll explore the latest devops trends such as continuous integration and continuous delivery ci/cd and zero downtime deployments by the end of this book you'll have developed the skills you need to get the most value out of terraform and manage your infrastructure effectively what you will learn understand how to install terraform for local development get to grips with writing terraform configuration for infrastructure provisioning use terraform for advanced infrastructure use cases understand how to write and use terraform modules discover how to use terraform for azure infrastructure provisioning become well versed in testing terraform configuration execute terraform configuration in ci/cd pipelines explore how to use terraform cloud 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

Amazon Web Services in Action 2018-09-15 summary amazon services in action second edition is a comprehensive introduction to computing storing and networking in the aws cloud you'll find clear relevant coverage of all the essential aws services you to know emphasizing best practices for security high availability and scalability foreword by ben whaley aws community hero and author purchase of the print book includes a free ebook in pdf kindle and epub formats from manning publications about the technology the largest and most mature of the cloud platforms aws offers over 100 prebuilt services practically limitless compute resources bottomless secure storage as well as top notch automation capabilities this book shows you how to develop host and manage applications on aws about the book amazon services in action second edition is a comprehensive introduction to deploying web applications in the aws cloud you'll find clear relevant coverage of all essential aws services with a focus on automation security high availability and scalability this thoroughly revised edition covers the latest additions to aws including serverless infrastructure with aws lambda sharing data with efs and in memory storage with elasticache what's inside completely revised bestseller secure and scale distributed applications deploy applications on aws design for failure to achieve high availability automate your infrastructure about the reader written for mid level developers and devops engineers about the author andreas wittig and michael wittig are software engineers and devops consultants focused on aws together they migrated the first bank in germany to aws in 2013 table of contents part 1 getting started what is amazon services a simple example wordpress in five minutes part 2 building virtual infrastructure consisting of computers and networking using virtual machines ec2 programming your infrastructure the command line sdks and cloudformation automating deployment cloudformation elastic beanstalk and opsworks securing your system iam security groups and vpc automating operational tasks with lambda part 3 storing data in the cloud storing your objects s3 and glacier storing data on hard drives ebs and instance store sharing data volumes between machines efs using a relational database service rds caching data in memory amazon elasticache programming for the nosql database service dynamodb part 4 architecting on aws achieving high availability availability zones auto scaling and cloudwatch decoupling your infrastructure elastic load balancing and simple queue service designing for fault tolerance scaling up and down auto scaling and cloudwatch

Nginx HTTP Server 2013 this tutorial book includes detailed instructions for each of the processes it describes downloading and installing the application configuring and using modules and much more it provides a step by step tutorial to replace your existing web server with nginx with commented configuration sections and in depth module descriptions you will be able to make the most of the performance potential offered by nginx by covering both early setup stages and advanced topics this book will suit web administrators interested in solutions to optimize their infrastructure whether they are looking into replacing existing web server software or integrating a new tool cooperating with applications already up and running if you your visitors and your operating system have been disappointed by apache this book is exactly what you need

Terraform Automation And Orchestration 2022-12-25 if you want to discover how to automate your infrastructure on any cloud with terraform this book is for you 3 books in 1 deal book 1 terraform fundamentals infrastructure deployment across multiple services book 2 automation with terraform advanced concepts and functionality book 3 terraform cloud deployment automation orchestration and collaboration terraform is simply a tool to automate the deployment and management of your infrastructure on aws azure digitalocean vmware and the list goes on this book will help you become a terraform pro get this book now to discover aws cloud today

Practical GitOps 2020-01-31 infrastructure as code iac is gaining popularity and developers today are deploying their application environments through iac tools to the cloud however it can become

extremely difficult and time consuming to manage the state of the infrastructure that has been deployed this book will provide a complete walkthrough of deploying a springboot application on aws with multiple environments like production staging and development everything is orchestrated through github actions and executed through terraform cloud to monitor changes in your infrastructure and manage its state you ll start by reviewing how your infrastructure can be stored in code by spinning up an ec2 server first through the console then aws cli and then using terraform you ll then be presented with a practical scenario of setting up a simple ec2 server in a multi environment production staging and development using github actions and terraform cloud in the advanced section that follows this simple ec2 server is expanded into an application that is deployed on an aws eks elastic kubernetes service using aws rds relational database service exposed through an aws alb application load balancer protected using aws acm aws certificate manager and accessible by setting the aws route53 the book then builds up on this infrastructure and demonstrates how it can be deployed in a multi environment scenario by implementing accounts through aws organizations you ll see how to put in restrictions through service control policies how to protect secrets using aws secrets manager and how to work with least privileges using irsa iam roles for service accounts finally you ll make the infrastructure more observable using graphana prometheus and aws opensearch run security tools host route53 zones dynamically based on environments and implement cloudwatch alarms for various use cases

Practical Oracle Cloud Infrastructure 2016-06-09 use this fast paced and comprehensive guide to build cloud based solutions on oracle cloud infrastructure you will understand cloud infrastructure and learn how to launch new applications and move existing applications to oracle cloud emerging trends in software architecture are covered such as autonomous platforms infrastructure as code containerized applications cloud based container orchestration with managed kubernetes and running serverless workloads using open source tools practical examples are provided this book teaches you how to self provision the cloud resources you require to run and scale your custom cloud based applications using a convenient web console and programmable apis and you will learn how to manage your infrastructure as code with terraform you will be able to plan design implement deploy run and monitor your production grade and fault tolerant cloud software solutions in oracle s data centers across the world paying only for the resources you actually use oracle cloud infrastructure is part of oracle s new generation cloud that delivers a complete and well integrated set of infrastructure as a service iaas capabilities compute storage networking edge services dns web application firewall and platform as a service paas capabilities such as oracle autonomous database which supports both transactional and analytical workloads the certified and fully managed oracle kubernetes engine and a serverless platform based on an open source fn project what you will learn build software solutions on oracle cloud automate cloud infrastructure with cli and terraform follow best practices for architecting on oracle cloud deploy oracle autonomous database to obtain valuable data insights run containerized applications on oracle s container engine for kubernetes understand the emerging cloud native ecosystem who this book is for cloud architects developers devops engineers and technology students and others who want to learn how to build cloud based systems on oracle cloud infrastructure oci leveraging a broad range of oci infrastructure as a service iaas capabilities oracle autonomous database and oracle s container engine for kubernetes readers should have a working knowledge of linux exposure to programming and a basic understanding of networking concepts all exercises in the book can be done at no cost with a 30 day oracle cloud trial

Infrastructure as Code 2016-06-30 virtualization cloud containers server automation and software defined networking are meant to simplify it operations but many organizations adopting these technologies have found that it only leads to a faster growing sprawl of unmanageable systems this is where infrastructure as code can help with this practical guide author kief morris of thoughtworks shows you how to effectively use principles practices and patterns pioneered through the devops movement to manage cloud age infrastructure ideal for system administrators infrastructure engineers team leads and architects this book demonstrates various tools techniques and patterns you can use to implement infrastructure as code in three parts you ll learn about the platforms and tooling involved in creating and configuring infrastructure elements patterns for using these tools and practices for making infrastructure as code work in your environment examine the pitfalls that organizations fall into when adopting the new generation of infrastructure technologies understand the capabilities and service models of dynamic infrastructure platforms learn about tools that provide provision and configure core infrastructure resources explore services and tools for managing a dynamic infrastructure learn specific patterns and practices for provisioning servers building server templates and updating running servers

Learning SaltStack 2023-05-31 build manage and secure your infrastructure by utilizing the power of saltstack about this book first book in the market to incorporate all the latest features of saltstack leverage the power of saltstack for building managing and securing your infrastructure effectively use commands and control the state of your infrastructure in a jiffy who this book is for this book is aimed at system administrators who are looking forward to manage their infrastructure using saltstack with no prior knowledge about it what you will learn install salt on your servers run commands on all or some of your minions instantly from a central managing server write custom salt modules to handle your infrastructure s unique needs define the state of your infrastructure and use salt to enforce that state create platform agnostic state definitions for greater flexibility and power manage virtual servers on public or private clouds using salt cloud use the event system in salt to create a reactive and self healing infrastructure in detail saltstack is one of the best infrastructure management platforms available it provides powerful tools for defining and enforcing the state of your infrastructure in a clear concise way with this book learn how to use these tools for your own infrastructure by understanding the core pieces of salt in this book we will take you from the initial installation of salt through running their first commands and then talk about extending salt for individual use cases from

there you will explore the state system inside of salt learning to define the desired state of our infrastructure in such a way that salt can enforce that state with a single command finally you will learn about some of the additional tools that salt provides including salt cloud the reactor and the event system well finish by exploring how to get involved with salt and what's new in the salt community finally by the end of the book you'll be able to build a reliable scalable secure high performance infrastructure and fully utilize the power of cloud computing style and approach this will be a comprehensive guide on saltstack along with installation and setting up of salt on couple of platforms then enlightening the readers about remote execution system and configuration management system and ending with concepts of security and best practices

Infrastructure as Code for Beginners 2023-06-28 master infrastructure as code iac and streamline your devops workflows using terraform and ansible purchase of the print or kindle book includes a free ebook in the pdf format key features employ effective strategies and approach iac projects efficiently by diving deep into its fundamentals understand the working of terraform and ansible and integrate them into your ci cd workflows work with real world examples of iac across multiple cloud providers azure aws book description the infrastructure as code iac approach ensures consistent and repeatable deployment of cloud based iaas paas services saving you time while delivering impeccable results infrastructure as code for beginners is a practical implementation guide that helps you gain a clear understanding of the foundations of infrastructure as code and make informed decisions when implementing it with this book you'll uncover essential iac concepts including planning selecting and implementing the right tools for your project with step by step explanations and real world examples you'll gain a solid understanding of the benefits of iac and the scope of application in your projects you'll learn about the pros cons and best practices of different iac tools such as terraform and ansible and their use at different stages of the deployment process along with github actions using these tools you'll be able to design deploy and secure your infrastructure on two major cloud platforms microsoft azure and amazon services in addition you'll explore other iac tools such as pulumi aws cloudformation and azure bicep by the end of this book you'll be well equipped to approach your iac projects confidently what you will learn determine the right time to implement infrastructure as code for your workload select the appropriate approach for infrastructure as code deployment get hands on experience with ansible and terraform and understand their use cases plan and deploy a workload to azure and aws clouds using infrastructure as code leverage ci cd in the cloud to deploy your infrastructure using your code discover troubleshooting tips and tricks to avoid pitfalls during deployment who this book is for this book is for cloud engineers software developers or system administrators responsible for deploying resources to host applications ideal for both beginners and experienced professionals seeking to deepen their knowledge experience in manually deploying resources for applications in public clouds such as aws or microsoft azure is a must a basic understanding of programming or scripting languages such as python bash powershell etc as well as familiarity with version control systems like git is a prerequisite

Puppet 8 for DevOps Engineers 2023-04-05 harness the power of this popular declarative configuration management tool to automate your infrastructure configuration purchase of the print or kindle book includes a free pdf ebook key features understand the core concepts and best approaches to the latest version of the puppet language learn the key components of the puppet platform and see how they deploy and apply puppet code to infrastructure discover approaches to collaborative working by using the right structure of code and deployment book description as devops and platform engineering drive the demand for robust internal development platforms the need for infrastructure configuration tools has never been greater puppet a powerful configuration management tool is widely used by leading enterprises and boasts a thriving open source community this book provides a comprehensive explanation of both the puppet language and the platform it begins by helping you grasp the basic concepts and approach of puppet as a stateful language and then builds up to explaining how to structure puppet code to scale and allow flexibility and collaboration among teams as you advance you'll find out how the puppet platform allows the management and reporting of infrastructure configuration the book also shows you how the platform can be integrated with other tooling such as servicenow and splunk the concluding chapters help you implement puppet to fit in heavily regulated and audited environments as well as modern hybrid cloud environments by the end of this book you'll have gained a solid understanding of the capabilities of both the puppet language and platform and you will have learned how to structure and scale puppet to create a platform to provide enterprise grade infrastructure configuration what you will learn find out how to structure puppet code and data to scale and be secure discover the core components of the puppet platform and how to achieve performance get to grips with classifying infrastructure and deploying code for different environments understand how bolt can provide procedural orchestration alongside puppet code use puppet's integrations and forge modules that allow puppet to integrate with other systems adopt approaches to adoption to ensure your puppet implementation will succeed in regulated environments the cloud and with change control who this book is for this book is for devops engineers looking to automate infrastructure with puppet as a configuration management tool it will allow both beginners and current puppet users to understand the full power of the puppet language and platform a basic understanding of unix system administration and windows systems and core development concepts such as revision control tools like git virtualization testing and coding tooling like vi or visual studio code is a prerequisite

Prometheus: Up & Running 2016-12-20 get up to speed with prometheus the metrics based monitoring system used in production by tens of thousands of organizations this updated second edition provides site reliability engineers kubernetes administrators and software developers with a hands on introduction to the most important aspects of prometheus including dashboarding and alerting direct code instrumentation and metric collection from third party systems with exporters prometheus server maintainer julien pivotto and core developer brian brazil demonstrate

how you can use prometheus for application and infrastructure monitoring this book guides you through prometheus setup the node exporter and the alertmanager and then shows you how to use these tools for application and infrastructure monitoring you ll understand why this open source system has continued to gain popularity in recent years you will know where and how much instrumentation to apply to your application code monitor your infrastructure with node exporter and use new collectors for network system pressure metrics get an introduction to grafana a popular tool for building dashboards use service discovery and the new http sd monitoring system to provide different views of your machines and services use prometheus with kubernetes and examine exporters you can use with containers discover prom s new improvements and features including trigonometry functions learn how prometheus supports important security features including tls and basic authentication

Applied OpenStack Design Patterns 2018-03-23 learn practical and applied openstack cloud design solutions to gain maximum control over your infrastructure you will achieve a complete controlled and customizable platform applied openstack design patterns teaches you how to map your application flow once you set up components and architectural design patterns also covered is storage management and computing to map user requests and allocations best practices of high availability and native cluster management are included solutions are presented to network components of openstack and to reduce latency and enable faster communication gateways between components of openstack and native applications what you will learn design a modern cloud infrastructure solve complex infrastructure application problems understand openstack cloud infrastructure components adopt a business impact analysis to support existing new cloud infrastructure use specific components to integrate an existing tool chain set to gain agility and a quick continuous delivery model who this book is for seasoned solution architects devops and system engineers and analysts

Aws Administration - The Definitive Guide - Second Edition 2019-09-06 many businesses are moving from traditional data centers to aws because of its reliability vast service offerings lower costs and high rate of innovation aws can be used to accomplish a variety of both simple and tedious tasks whether you are a seasoned system admin or a rookie this book will help you to learn all the skills you need to work with the aws cloud this book guides you through some of the most popular aws services such as ec2 elastic beanstalk efs cloudtrail redshift emr data pipeline and iot using a simple real world application hosting example this book will also enhance your application delivery skills with the latest aws services such as codecommit codedeploy and codepipeline to provide continuous delivery and deployment while also securing and monitoring your environment s workflow each chapter is designed to provide you with maximal information about each 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

Terraform: Up & Running 2018-02-14 terraform has become a key player in the devops world for defining launching and managing infrastructure as code iac across a variety of cloud and virtualization platforms including aws google cloud azure and more this hands on second edition expanded and thoroughly updated for terraform version 0 12 and beyond shows you the fastest way to get up and running gruntwork cofounder yevgeniy jim brikman walks you through code examples that demonstrate terraform s simple declarative programming language for deploying and managing infrastructure with a few commands veteran sysadmins devops engineers and novice developers will quickly go from terraform basics to running a full stack that can support a massive amount of traffic and a large team of developers explore changes from terraform 0 9 through 0 12 including backends workspaces and first class expressions learn how to write production grade terraform modules dive into manual and automated testing for terraform code compare terraform to chef puppet ansible cloudformation and salt stack deploy server clusters load balancers and databases use terraform to manage the state of your infrastructure create reusable infrastructure with terraform modules use advanced terraform syntax to achieve zero downtime deployment

Nginx HTTP Server 2017-07-31 nginx is a lightweight http server designed for high traffic websites with network scalability as the primary objective with the advent of high speed internet access short loading times and faster transfer rates have become a necessity this book is a detailed guide to setting up nginx in different ways that correspond to actual production

Getting Started with Terraform - Second Edition 2014-12-29 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 infrastructureswho this book is forthis 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 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 tasksin detailterraform 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

Practical Linux Infrastructure 2017-02-17 practical linux infrastructure teaches you how to use the best open source tools to build a new linux infrastructure or alter an existing infrastructure to ensure it stands up to enterprise level needs each chapter covers a key area of implementation with clear examples and step by step instructions using this book you ll understand why scale matters and what considerations you need to make you ll see how to switch to using google cloud platform for your hosted solution how to use kvm for your virtualization how to use git postfix and mysql for your version control email and database and how to use puppet for your configuration management for enterprise level fault tolerance you ll use apache and for load balancing and high availability you ll use haproxy and keepalived for trend analysis you ll learn how to use cacti and for notification you ll use nagios you ll also learn how to utilize bind to implement dns how to use dhcp dynamic host configuration protocol and how to setup remote access for your infrastructure using vpn and iptables you will finish by looking at the various tools you will need to troubleshoot issues that may occur with your hosted infrastructure this includes how to use cpu network disk and memory management tools such as top netstat iostat and vmstat author syed ali is a senior site reliability engineering manager who has extensive experience with virtualization and linux cloud based infrastructure his previous experience as an entrepreneur in infrastructure computing offers him deep insight into how a business can leverage the power of linux to their advantage he brings his expert knowledge to this book to teach others how to perfect their linux environments become a linux infrastructure pro with practical linux infrastructure today

Infrastructure as Code (IAC) Cookbook 2017-07-31 over 90 practical actionable recipes to automate test and manage your infrastructure quickly and effectively about this book bring down your delivery timeline from days to hours by treating your server configurations and vms as code just like you would with software code take your existing knowledge and skill set with your existing tools puppet chef or docker to the next level and solve it infrastructure challenges use practical recipes to use code to provision and deploy servers and applications and have greater control of your infrastructure who this book is for this book is for devops engineers and developers working in cross functional teams or operations and would now switch to iac to manage complex infrastructures what you will learn provision local and remote development environments with vagrant automate production infrastructures with terraform ansible and cloud init on aws openstack google cloud digital ocean and more manage and test automated systems using chef and puppet build ship and debug optimized docker containers explore the best practices to automate and test everything from cloud infrastructures to operating system configuration in detail infrastructure as code iac is a key aspect of the devops movement and this book will show you how to transform the way you work with your infrastructure by treating it as software this book is dedicated to helping you discover the essentials of infrastructure automation and its related practices the over 90 organized practical solutions will demonstrate how to work with some of the very best tools and cloud solutions you will learn how to deploy repeatable infrastructures and services on aws openstack google cloud and digital ocean you will see both ansible and terraform in action manipulate the best bits from cloud init to easily bootstrap instances and simulate consistent environments locally or remotely using vagrant you will discover how to automate and test a range of system tasks using chef or puppet you will also build test and debug various docker containers having developers interests in mind this book will help you to use the right tools techniques and approaches to deliver working solutions for today s modern infrastructure challenges style and approach this is a recipe based book that allows you to venture into some of the most cutting edge practices and techniques about iac and solve immediate problems when trying to implement them

Getting Started with Terraform 2009-04-01 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 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

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Cloud Application Architectures 2021-04-16 if you re involved in planning it infrastructure as a network or system architect system administrator or developer this book will help you adapt your skills to work with these highly scalable highly redundant infrastructure services while analysts hotly debate the advantages and risks of cloud computing it staff and programmers are left to determine whether and how to put their applications into these virtualized services cloud application architectures provides answers and critical guidance on issues of cost availability performance scaling privacy and security with cloud application architectures you will understand the differences between traditional deployment and cloud computing determine whether moving existing applications to the cloud makes technical and business sense analyze and compare the long term costs of cloud services traditional hosting and owning dedicated servers learn how to build a transactional web application for the cloud or migrate one to it understand how the cloud helps you better prepare for disaster recovery change your perspective on application scaling to provide realistic examples of the book s principles in action the author delves into some of the choices and operations available on amazon services and includes high level summaries of several of the other services available on the market today cloud application architectures provides best practices that apply to every available cloud service learn how to make the transition to the cloud and prepare your web applications to succeed

Infrastructure Monitoring with Amazon CloudWatch 2018-07-09 explore real world examples of issues with systems and find ways to resolve them using amazon cloudwatch as a monitoring service key featuresbecome well versed with monitoring fundamentals such as understanding the building blocks and architecture of networkinglearn how to ensure your applications never face downtimeget hands on with observing serverless applications and servicesbook description cloudwatch is amazon s monitoring and observability service designed to help those in the it industry who are interested in optimizing resource utilization visualizing operational health and eventually increasing infrastructure performance this book helps it administrators devops engineers network engineers and solutions architects to make optimum use of this cloud service for effective infrastructure productivity you ll start with a brief introduction to monitoring and amazon cloudwatch and its core functionalities next you ll get to grips with cloudwatch features and their usability once the book has helped you develop your foundational knowledge of cloudwatch you ll be able to build your practical skills in monitoring and alerting various amazon services such as ec2 ebs rds ecs eks dynamodb aws lambda and elb with the help of real world use cases as you progress you ll also learn how to use cloudwatch to detect anomalous behavior set alarms visualize logs and metrics define automated actions and rapidly troubleshoot issues finally the book will take you through monitoring aws billing and costs by the end of this book you ll be capable of making decisions that enhance your infrastructure performance and maintain it at its peak what you will learnunderstand the meaning and importance of monitoringexplore the components of a basic monitoring systemunderstand the functions of cloudwatch logs metrics and dashboardsdiscover how to collect different types of metrics from ec2configure amazon eventbridge to integrate with different aws servicesget up to speed with the fundamentals of observability and the aws services used for observabilityfind out about the role infrastructure as code iac plays in monitoringgain insights into how billing works using different cloudwatch featureswho this book is for this book is for developers devops engineers site reliability engineers or any it individual with hands on intermediate level experience in networking cloud computing and infrastructure management a beginner level understanding of aws and application monitoring will also be helpful to grasp the concepts covered in the book more effectively

Prometheus: Up & Running 2015-10-08 get up to speed with prometheus the metrics based monitoring system used by tens of thousands of organizations in production this practical guide provides application developers sysadmins and devops practitioners with a hands on introduction to the most important aspects of prometheus including dashboarding and alerting direct code instrumentation and metric collection from third party systems with exporters this open source system has gained popularity over the past few years for good reason with its simple yet powerful data model and query language prometheus does one thing and it does it well author and prometheus developer brian brazil guides you through prometheus setup the node exporter and the alertmanager then demonstrates how to use them for application and infrastructure monitoring know where and how much to apply instrumentation to your application code identify metrics with labels using unique key value pairs get an introduction to grafana a popular tool for building dashboards learn how to use the node exporter to monitor your infrastructure use service discovery to provide different views of your machines and services use prometheus with kubernetes and examine exporters you can use with containers convert data from other monitoring systems into the prometheus format

Microsoft Azure 2010 written for it and business professionals this book provides the technical and business insight needed to plan deploy and manage the services provided by the microsoft azure cloud find out how to integrate the infrastructure as a service iaas and platform as a service paas models with your existing business infrastructure while maximizing availability

ensuring continuity and safety of your data and keeping costs to a minimum the book starts with an introduction to microsoft azure and how it differs from office 365 microsoft's other cloud you'll also get a useful overview of the services available part ii then takes you through setting up your azure account and gets you up and running on some of the core azure services including creating web sites and virtual machines and choosing between fully cloud based and hybrid storage solutions depending on your needs part iii now takes an in depth look at how to integrate azure with your existing infrastructure the authors anthony puca mike manning brent rush marshall copeland and julian soh bring their depth of experience in cloud technology and customer support to guide you through the whole process through each layer of your infrastructure from networking to operations high availability and disaster recovery are the topics on everyone's minds when considering a move to the cloud and this book provides key insights and step by step guidance to help you set up and manage your resources correctly to optimize for these scenarios you'll also get expert advice on migrating your existing vms to azure using inimage mail in and the best 3rd party tools available helping you ensure continuity of service with minimum disruption to the business in the book's final chapters you'll find cutting edge examples of cloud technology in action from machine learning to business intelligence for a taste of some exciting ways your business could benefit from your new microsoft azure deployment

Nginx HTTP Server 2018 the book includes detailed instructions for each of the processes it describes downloading and installing the application configuring and using modules and much more it provides a step by step tutorial to replace your existing web server with nginx with commented configuration sections and in depth module descriptions you will be able to make the most of the performance potential offered by nginx by covering both early setup stages and advanced topics this book will suit web administrators interested in solutions to optimize their infrastructure whether they are looking into replacing existing web server software or integrating a new tool cooperating with applications already up and running if you your visitors and your operating system have been disappointed by apache this book is exactly what you need

DevOps Automate Your Infrastructure Using Ansible and IaC 2019-10-18 this online devops course will teach you how to build sophisticated infrastructure as code iac playbooks and roles using ansible and many of its modules and plugins this course is designed to teach you the ins and outs of ansible and setting up devops pipelines even if you have little to no experience with it to help implement these devops practices which will streamline your development processes master ansible and ansible tasks playbooks modules and roles get familiar with advanced devops techniques and take your devops career to the next level while there are plenty of devops courses that focus on generic continuous integration and continuous delivery practices it's hard to find a comprehensive course like this one which focuses on teaching you infrastructure as code from the ground up using some of the most useful modules in the ansible ecosystem this course is designed for all levels of devops practitioners who want to improve their skills implement automation in their environments and continue to be in great demand as devops engineers resource description page

Professional Cloud Architect – Google Cloud Certification Guide 2015-01-27 become a professional cloud architect by exploring essential concepts tools and services in gcp and working through tests designed to help you get certified key features plan and design a gcp cloud solution architecture ensure the security and reliability of your cloud solutions and operationstest yourself by taking mock tests with up to date exam questionsbook description google cloud platform gcp is one of the leading cloud service suites and offers solutions for storage analytics big data machine learning and application development it features an array of services that can help organizations to get the best out of their infrastructure this comprehensive guide covers a variety of topics specific to google's professional cloud architect official exam syllabus and guides you in using the right methods for effective use of gcp services you'll start by exploring gcp understanding the benefits of becoming a certified architect and learning how to register for the exam you'll then delve into the core services that gcp offers such as computing storage and security as you advance this gcp book will help you get up to speed with methods to scale and automate your cloud infrastructure and delve into containers and services in the concluding chapters you'll discover security best practices and even gain insights into designing applications with gcp services and monitoring your infrastructure as a gcp architect by the end of this book you will be well versed in all the topics required to pass google's professional cloud architect exam and use gcp services effectively what you will learnmanage your gcp infrastructure with google cloud management options such as cloudshell and sdkunderstand the use cases for different storage optionsdesign a solution with security and compliance in mindmonitor gcp compute optionsdiscover machine learning and the different machine learning models offered by gcpunderstand what services need to be used when planning and designing your architecturewho this book is for if you are a cloud architect cloud engineer administrator or any it professional who wants to learn how to implement google cloud services in your organization and become a gcp certified professional cloud architect this book is for you basic knowledge of server infrastructure including linux and windows servers is assumed knowledge of network and storage will also be helpful

Deploying and Managing a Cloud Infrastructure 2018-06-28 learn in demand cloud computing skills from industry experts deploying and managing a cloud infrastructure is an excellent resource for it professionals seeking to tap into the demand for cloud administrators this book helps prepare candidates for the comptia cloud certification cv0-001 cloud computing certification exam designed for it professionals with 2-3 years of networking experience this certification provides validation of your cloud infrastructure knowledge with over 30 years of combined experience in cloud computing the author team provides the latest expert perspectives on enterprise level mobile computing and covers the most essential topics for building and maintaining cloud based systems including understanding basic cloud related computing concepts terminology and characteristics identifying cloud delivery solutions and deploying new infrastructure managing

cloud technologies services and networks monitoring hardware and software performance featuring real world examples and interactive exercises deploying and managing cloud infrastructure delivers practical knowledge you can apply immediately and in addition you also get access to a full set of electronic study tools including interactive test environment electronic flashcards glossary of key terms now is the time to learn the cloud computing skills you need to take that next step in your it career

Learn Ansible 2023-01-27 run ansible playbooks to launch complex multi tier applications hosted in public clouds key features build your learning curve using ansible automate cloud network and security infrastructures with ease gain hands on exposure on ansible book description ansible has grown from a small open source orchestration tool to a full blown orchestration and configuration management tool owned by red hat its powerful core modules cover a wide range of infrastructures including on premises systems and public clouds operating systems devices and services meaning it can be used to manage pretty much your entire end to end environment trends and surveys say that ansible is the first choice of tool among system administrators as it is so easy to use this end to end practical guide will take you on a learning curve from beginner to pro you ll start by installing and configuring the ansible to perform various automation tasks then we ll dive deep into the various facets of infrastructure such as cloud compute and network infrastructure along with security by the end of this book you ll have an end to end understanding of ansible and how you can apply it to your own environments what you will learn write your own playbooks to configure servers running centos ubuntu and windows identify repeatable tasks and write playbooks to automate them define a highly available public cloud infrastructure in code making it easy to distribute your infrastructure configuration deploy and configure ansible tower and ansible awx learn to use community contributed roles use ansible in your day to day role and projects who this book is for learn ansible is perfect for system administrators and developers who want to take their current workflows and transform them into repeatable playbooks using ansible no prior knowledge of ansible is required

Ansible for Beginners 2023-11-10 ansible for beginners managing infrastructure with ease is a comprehensive guide for anyone looking to learn and master ansible the popular open source automation tool this book is designed for beginners who have little to no experience with ansible but are eager to learn how to use it to manage their infrastructure efficiently the book starts with a brief introduction to ansible its history and why it has become such a popular tool among it professionals it then covers the basics of setting up ansible and running your first command the book also delves into more advanced topics such as inventory management ad hoc commands playbooks yaml syntax and modules additionally it covers various use cases such as managing files and directories services packages users and groups and variables throughout the book practical examples and hands on exercises are provided to help readers understand and apply the concepts being discussed the book also covers important topics such as security considerations debugging and troubleshooting and automating your workflow this book is an ideal resource for it professionals system administrators and developers who want to learn how to use ansible to manage their infrastructure and automate repetitive tasks it is also a great resource for anyone interested in learning more about it automation in general the book concludes with a glossary of terms index and resources for further learning this book ansible for beginners managing infrastructure with ease is designed to help new users get up and running with ansible quickly and easily it covers the basics of ansible including installation inventory management and ad hoc commands as well as more advanced topics like playbooks variables loops and conditionals the book also includes practical examples and real world scenarios to help you understand how ansible can be used to manage your infrastructure whether you are a system administrator a devops professional or just someone who wants to automate their infrastructure this book will help you get started with ansible and start managing your infrastructure with ease

Mastering AWS CloudFormation 2015-05-29 achieve operational excellence by running scalable testable modular repeatable extendable and customizable infrastructure key features leverage aws cloudformation to manage your entire infrastructure get up and running with maintaining your infrastructure as code and automating your environment simplify infrastructure management and increase productivity with aws cloudformation purchase of the print or kindle book includes a free pdf ebook book description the advent of devops and the cloud revolution has compelled software engineers and operations teams to rethink how to manage complex infrastructures and build resilient solutions with this aws book you ll find out how you can use infrastructure as code iac to simplify infrastructure operations and manage the modern cloud with aws cloudformation this guide covers aws cloudformation comprehensively from template structures to developing complex and reusable infrastructure stacks it takes you through template validation stack deployment and handling deployment failures it also demonstrates the use of aws codebuild and codepipeline for automating resource delivery and implementing continuous integration and continuous delivery ci cd practices as you advance you ll learn how to modularize and unify your template on the fly using macros or by fixating the version using modules you ll create resources outside of aws with custom resources and catalog them with the cloudformation registry finally you ll improve the way you manage the modern cloud environment on aws by extending cloudformation through the aws serverless application model sam and the aws cloud development kit cdk by the end of this book you ll have mastered key aws cloudformation concepts and will be able to extend its capabilities for developing and deploying your own infrastructure what you will learn understand modern approaches to iac develop universal modular and reusable cloudformation templates discover ways of applying continuous delivery with cloudformation implement iac best practices in the aws cloud provision massive applications across multiple regions and accounts automate template generation and software provisioning for aws extend cloudformation features with custom resources and the registry modularize and unify templates using modules and macros who this book is for if you are a developer who wants to learn how to write templates a devops engineer or sre interested in deployment and orchestration or a solutions architect looking to understand the benefits of

streamlined and scalable infrastructure management this book is for you prior understanding of the aws cloud is necessary

Chef Infrastructure Automation Cookbook - Second Edition 2020-01-24 this book is for system engineers and administrators who have a fundamental understanding of information management systems and infrastructure it helps if you ve already played around with chef however this book covers all the important topics you will need to know if you don t want to dig through a whole book before you can get started this book is for you as it features a set of independent recipes you can try out immediately

Hands-On Enterprise Automation on Linux 2021-02-26 achieve enterprise automation in your linux environment with this comprehensive guide key featuresautomate your linux infrastructure with the help of practical use cases and real world scenarioslearn to plan build manage and customize os releases in your environmentenhance the scalability and efficiency of your infrastructure with advanced linux system administration conceptsbook description automation is paramount if you want to run linux in your enterprise effectively it helps you minimize costs by reducing manual operations ensuring compliance across data centers and accelerating deployments for your cloud infrastructures complete with detailed explanations practical examples and self assessment questions this book will teach you how to manage your linux estate and leverage ansible to achieve effective levels of automation you ll learn important concepts on standard operating environments that lend themselves to automation and then build on this knowledge by applying ansible to achieve standardization throughout your linux environments by the end of this linux automation book you ll be able to build deploy and manage an entire estate of linux servers with higher reliability and lower overheads than ever before what you will learnperform large scale automation of linux environments in an enterpriseovercome the common challenges and pitfalls of extensive automationdefine the business processes needed to support a large scale linux environmentget well versed with the most effective and reliable patch management strategiesautomate a range of tasks from simple user account changes to complex security policy enforcementlearn best practices and procedures to make your linux environment automatablewho this book is for this book is for anyone who has a linux environment to design implement and maintain open source professionals including infrastructure architects and system administrators will find this book useful you re expected to have experience in implementing and maintaining linux servers along with knowledge of building patching and maintaining server infrastructure although not necessary knowledge of ansible or other automation technologies will be beneficial

Zabbix 5 IT Infrastructure Monitoring Cookbook discover practical recipes to help you efficiently monitor enterprise it infrastructure for windows linux and networking key featuresfind out how you can leverage some of the most exciting features of zabbix 5perform professional it infrastructure and application monitoring on multiple platformsdiscover easy to follow practical solutions to problems in network monitoring with zabbixbook description zabbix offers useful insights into your infrastructure performance and issues and enables you to enhance your monitoring setup with its variety of powerful features this book covers hands on easy to follow recipes for using zabbix 5 for effectively monitoring the performance of devices and applications over networks the book starts by guiding you through the installation of zabbix and using the zabbix frontend you ll then work your way through the most prominent features of zabbix and make the right design choices for building a scalable and easily manageable environment the book contains recipes for building items and triggers for different types of monitoring building templates and using zabbix proxies as you advance you ll learn how to use the zabbix api for customization and manage your zabbix server and database efficiently finally you ll find quick solutions to the common and not so common problems that you may encounter in your everyday zabbix monitoring work by the end of this zabbix book you ll have learned how to use zabbix for all your monitoring needs and be able to build a solid zabbix setup by leveraging its key functionalities what you will learnexplore the different types of monitoring available in zabbix 5find out how to build your own zabbix templatesuse zabbix proxies for effective load balancing scalingwork with custom integrations and the zabbix apiset up triggers and alerting with zabbix 5maintain your zabbix setup for scaling backups and upgradesdiscover how to perform advanced zabbix database managementmonitor cloud based products such as amazon services aws azure and dockerwho this book is for this book is for it engineers who want to get started with zabbix and anyone with an intermediate understanding of zabbix looking to extend their knowledge although not necessary prior experience with zabbix will help you to make the most of this book

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