

Mastering Zabbix Second Edition

Mastering Zabbix - Second Edition Zabbix 6 IT Infrastructure Monitoring Cookbook Mastering pfSense, Mastering Zabbix Zabbix 4 Network Monitoring Zabbix: Enterprise Network Monitoring Made Easy Zabbix Network Monitoring Zabbix Cookbook AWS Administration - The Definitive Guide Enterprise DevOps for Architects Zabbix 7 IT Infrastructure Monitoring Cookbook Zabbix Certified Professional Certification Prep Guide : 350 Questions & Answers Zabbix Network Monitoring Essentials Zabbix Performance Tuning Zabbix 5 IT Infrastructure Monitoring Cookbook Zabbix 1.8 Network Monitoring Zabbix 6 IT Infrastructure Monitoring Cookbook Mastering Ansible Linux Server Hacks, Volume Two Hands-On Infrastructure Monitoring with Prometheus Andrea Dalle Vacche Nathan Liefting David Zientara Andrea Dalle Vacche Patrik Uytterhoeven Rihards Olups Rihards Olups Patrik Uytterhoeven Yohan Wadia Jeroen Mulder Nathan Liefting CloudRoar Consulting Services Andrea Dalle Vacche Luciano Alves Nathan Liefting Rihards Olups Nathan Liefting Jesse Keating William von Hagen Joel Bastos

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learn how to monitor your large it environments using zabbix with this one stop comprehensive guide to the zabbix world about this book create a tailor made monitoring solution based on your specific needs learn advanced techniques of zabbix to monitor networks performances and other critical features in large environments integrate customize and extend your monitoring solutions with external components and software who this book is for this book is intended for system administrators and it architects who need to better integrate their zabbix installation with their surrounding environment a basic working knowledge of zabbix and linux is assumed so that the book can focus on how to use every component to its full advantage it will also be helpful to be familiar with programming concepts and languages but if not all the content in the book is thorough and well documented what you will learn efficiently collect data from a large variety of monitoring objects organize your data in graphs charts maps and slide shows build intelligent triggers and alarms to monitor your network proactively write your own custom probes and monitoring scripts to extend zabbix configure zabbix and its database to be high available and fault tolerant automate repetitive procedures using zabbix s api integrate zabbix with external systems understand the protocol and how to interact with it by writing your own custom agent in detail nowadays

monitoring systems play a crucial role in any it environment they are extensively used to not only measure your system s performance but also to forecast capacity issues this is where zabbix one of the most popular monitoring solutions for networks and applications comes into the picture with an efficient monitoring system in place you ll be able to foresee when your infrastructure runs under capacity and react accordingly due to the critical role a monitoring system plays it is fundamental to implement it in the best way from its initial setup this avoids misleading confusing or even worse false alarms which can disrupt an efficient and healthy it department this new edition will provide you with all the knowledge you need to make strategic and practical decisions about the zabbix monitoring system the setup you ll do with this book will fit your environment and monitoring needs like a glove you will be guided through the initial steps of choosing the correct size and configuration for your system to what to monitor and how to implement your own custom monitoring component exporting and integrating your data with other systems is also covered by the end of this book you will have a tailor made and well configured monitoring system and will understand with absolute clarity how crucial it is to your it environment style and approach this book is an easy to follow step by step guide to monitoring network and performance in large environments with zabbix it is designed for real world zabbix administrators and is comprised of a perfect mix of theoretical explanations and practical applications making it your perfect companion

discover practical recipes to help you efficiently monitor enterprise it infrastructure for microsoft windows linux networking and more this updated second edition of the zabbix 6 it infrastructure monitoring cookbook brings you new recipes updated with zabbix 6 functionality you ll learn how to set up zabbix with built in high availability use the improved business service monitoring set up automatic reporting and create advanced triggers zabbix offers useful insights into your infrastructure performance and issues and enables you to enhance your monitoring setup with its powerful features this book covers hands on easy to follow recipes for using zabbix 6 to monitor effectively the performance of devices and applications over the network you ll start by working your way through the installation and most prominent features of zabbix and make the right design choices for building a scalable and easily manageable environment this zabbix book contains recipes for building items and triggers for different types of monitoring building templates and using zabbix proxies next you ll 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 zabbix monitoring work by the end of this book you ll be able to use zabbix for all your monitoring needs and build a solid zabbix setup by leveraging its key functionalities

install and configure a pfSense router firewall and become a pfSense expert in the process key features you can always do more to secure your software so extend and customize your pfSense firewall build a high availability security system that s fault tolerant and capable of blocking potential threats put the principles of better security into practice by implementing examples provided in the text book description pfSense has the same reliability and stability as even the most popular commercial firewall offerings on the market but like the very best open source software it doesn t limit you you re in control you can exploit and customize pfSense around your security needs mastering pfSense second edition covers features that have long been part of pfSense such as captive portal vlans traffic shaping vpns load balancing common address redundancy protocol carp multi wan and routing it also covers features that have been added with the release of 2.4 such as support for zfs partitions and openvpn 2.4 this book takes into account the fact that in order to support increased cryptographic loads pfSense version 2.5 will require a cpu that supports aes ni the second edition of this book places more of an emphasis on the practical side of utilizing pfSense than the previous edition and as a result more examples are provided which show in step by step fashion

how to implement many features what you will learn configure pfsense services such as dhcp dynamic dns captive portal dns ntp and snmp set up a managed switch to work with vlans use pfsense to allow block and deny traffic and to implement network address translation nat make use of the traffic shaper to lower and raise the priority of certain types of traffic set up and connect to a vpn tunnel with pfsense incorporate redundancy and high availability by utilizing load balancing and the common address redundancy protocol carp explore diagnostic tools in pfsense to solve network problems who this book is for this book is for those with at least an intermediate understanding of networking prior knowledge of pfsense would be helpful but is not required those who have the resources to set up a pfsense firewall either in a real or virtual environment will especially benefit as they will be able to follow along with the examples in the book

learn how to monitor your large it environments using zabbix with this one stop comprehensive guide to the zabbix world about this book create a tailor made monitoring solution based on your specific needs learn advanced techniques of zabbix to monitor networks performances and other critical features in large environments integrate customize and extend your monitoring solutions with external components and software who this book is for this book is intended for system administrators and it architects who need to better integrate their zabbix installation with their surrounding environment a basic working knowledge of zabbix and linux is assumed so that the book can focus on how to use every component to its full advantage it will also be helpful to be familiar with programming concepts and languages but if not all the content in the book is thorough and well documented what you will learn efficiently collect data from a large variety of monitoring objects organize your data in graphs charts maps and slide shows build intelligent triggers and alarms to monitor your network proactively write your own custom probes and monitoring scripts to extend zabbix configure zabbix and its database to be high available and fault tolerant automate repetitive procedures using zabbix s api integrate zabbix with external systems understand the protocol and how to interact with it by writing your own custom agent in detail nowadays monitoring systems play a crucial role in any it environment they are extensively used to not only measure your system s performance but also to forecast capacity issues this is where zabbix one of the most popular monitoring solutions for networks and applications comes into the picture with an efficient monitoring system in place you ll be able to foresee when your infrastructure runs under capacity and react accordingly due to the critical role a monitoring system plays it is fundamental to implement it in the best way from its initial setup this avoids misleading confusing or even worse false alarms which can disrupt an efficient and healthy it department this new edition will provide you with all the knowledge you need to make strategic and practical decisions about the zabbix monitoring system the setup you ll do with this book will fit your environment and monitoring needs like a glove you will be guided through the initial steps of choosing the correct size and configuration for your system to what to monitor and how to implement your own custom monitoring component exporting and integrating your data with other systems is also covered by the end of this book you will have a tailor made and well configured monitoring system and will understand with absolute clarity how crucial it is to your it environment style and approach this book is an easy to follow step by step guide to monitoring network and performance in large environments with zabbix it is designed for real world zabbix administrators and is comprised of a perfect mix of theoretical explanations and practical applications making it your perfect companion

gather detailed statistics and deploy impressive business solutions with zabbix 4 0 key featuresexperience the full impact of zabbix 4 0 a useful and increasingly popular toolenhance your network s performance and manage hosts and systemsa step by step guide to smarter network monitoringbook description zabbix 4 network monitoring is the perfect starting point for monitoring the performance of your network devices

and applications with zabbix even if you've never used a monitoring solution before this book will get you up and running quickly you'll learn to monitor more sophisticated operations with ease and soon feel in complete control of your network ready to meet any challenges you might face starting with the installation you will discover the new features in zabbix 4.0 you will then get to grips with native zabbix agents and simple network management protocol (snmp) devices you will also explore zabbix's integrated functionality for monitoring java application servers and vmware this book also covers notifications permission management system maintenance and troubleshooting so you can be confident that every potential challenge and task is under your control if you're working with larger environments you'll also be able to find out more about distributed data collection using zabbix proxies once you're confident and ready to put these concepts into practice you will understand how to optimize and improve performance troubleshooting network issues is vital for anyone working with zabbix so the book also helps you work through any technical snags and glitches you might face by the end of this book you will have learned more advanced techniques to fine-tune your system and make sure it is in a healthy state what you will learn install zabbix server and an agent from source manage hosts users and permissions while acting upon monitored conditions visualize data with the help of ad hoc graphs custom graphs and maps simplify complex configurations and learn to automate them monitor everything from web pages to ipmi devices and java applications to vmware stats configure zabbix to send alerts including problem severity and time periods troubleshoot any network issue who this book is for if you're new to zabbix look no further than this book zabbix 4 network monitoring is for system and network administrators who are looking to put their knowledge to work with zabbix 4.0

learn how to gather detailed statistics and data with this one-stop comprehensive course along with hands-on recipes to get your infrastructure up and running with zabbix about this book monitor your network and deploy impressive business solutions with zabbix get practical recipes to automate your zabbix infrastructure and create impressive graphs integrate customize and extend your monitoring solutions with external components and software who this book is for this course is for system administrators who have been managing and monitoring infrastructure you do not need any knowledge about zabbix what you will learn efficiently collect data from a large variety of monitoring objects organize your data in graphs charts maps and slide shows write your own custom probes and monitoring scripts to extend zabbix configure zabbix and its database to be high available and fault tolerant automate repetitive procedures using zabbix's api find out how to monitor snmp devices manage hosts users and permissions while acting upon monitored conditions set up your zabbix infrastructure efficiently customize the zabbix interface to suit your system needs monitor your vmware infrastructure in a quick and easy way with zabbix in detail nowadays monitoring systems play a crucial role in any it environment they are extensively used to not only measure your system's performance but also to forecast capacity issues this is where zabbix one of the most popular monitoring solutions for networks and applications comes into the picture with an efficient monitoring system in place you'll be able to foresee when your infrastructure runs under capacity and react accordingly due to the critical role a monitoring system plays it is fundamental to implement it in the best way from its initial setup this avoids misleading confusing or even worse false alarms that can disrupt an efficient and healthy it department this course is for administrators who are looking for an end-to-end monitoring solution it will get you accustomed with the powerful monitoring solution starting with installation and explaining the fundamentals of zabbix moving on we explore the complex functionalities of zabbix in the form of enticing recipes these recipes will help you to gain control of your infrastructure you will be able to organize your data in the form of graphs and charts along with building intelligent triggers for monitoring your network proactively toward the end you will gain expertise in monitoring your networks and applications using zabbix 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 zabbix network monitoring second edition zabbix cookbook mastering zabbix second edition style and approach this course is a compact practical guide that starts from the fundamentals of zabbix and takes you all the way to building a monitoring solution that gathers data from a large variety of systems along the way we will discuss the low level operational details that should benefit you even if you have used zabbix for a while it also follows a step by step approach that is easy to follow full of engaging examples and will help you apply the theory to practice

gather detailed statistics and data while monitoring the performance and availability of network devices and applications using the all new zabbix 3.0 about this book monitor your network and deploy impressive business solutions with zabbix 3.0 manage hosts and system maintenance to keep your network performing for the people who use it a step by step guide to smarter network monitoring who this book is for if you're new to zabbix look no further than this book it will show you how to put your sysadmin knowledge to work with zabbix 3.0 so you can experience the full impact of this useful and increasingly popular tool what you will learn get to grips with the fundamentals of zabbix find out how zabbix's features let you monitor your network with confidence and precision learn how to monitor snmp devices manage hosts users and permissions while acting upon monitored conditions visualize data with the help of ad hoc graphs custom graphs maps and reports simplify complex configurations and learn to automate them monitor everything from web pages to ipmi devices and java applications to and vmware stats troubleshoot any network issue fast in detail this book is a perfect starting point for monitoring with zabbix even if you have never used a monitoring solution before this book will get you up and running quickly before guiding you into more sophisticated operations with ease you'll soon feel in complete control of your network ready to meet any challenges you might face beginning with installation you'll learn the basics of data collection before diving deeper to get to grips with native zabbix agents and snmp devices you will also explore zabbix's integrated functionality for monitoring java application servers and vmware beyond this zabbix network monitoring also covers notifications permission management system maintenance and troubleshooting so you can be confident that every potential challenge and task is under your control if you're working with larger environments you'll also be able to find out more about distributed data collection using zabbix proxies once you're confident and ready to put these concepts into practice you'll find out how to optimize and improve performance troubleshooting network issues is vital for anyone working with zabbix so the book is also on hand to help you work through any technical snags and glitches you might face network monitoring doesn't have to be a chore learn the tricks of the zabbix trade and make sure your network is performing for everyone who depends upon it style and approach this book is a detailed and practical guide that starts from the fundamentals of zabbix and takes you all the way to building a network monitoring solution that is capable of gathering data from range of different systems with tips on low level details that will boost any zabbix users confidence and fluency it's an unmissable resource for anyone interested in what's possible with zabbix

if you have some experience with zabbix and wish to take your infrastructure to the next level then this book is for you before you start with zabbix or monitoring in general it is best to have some basic linux knowledge and a good understanding of snmp virtualization and scripting

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 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

an architect s guide to designing implementing and integrating devops in the enterprise key featuresdesign a devops architecture that is aligned with the overall enterprise architecturedesign systems that are ready for aiops and make the move toward noopsarchitect and implement devsecops pipelines securing the devops enterprisebook description digital transformation is the new paradigm in enterprises but the big question remains is the enterprise ready for transformation using native technology embedded in agile devops with this book you ll see how to design implement and integrate devops in the enterprise architecture while keeping the ops team on board and remaining resilient the focus of the book is not to introduce the hundreds of different tools that are available for implementing devops but instead to show you how to create a successful devops architecture this book provides an architectural overview of devops aiops and devsecops the three domains that drive and accelerate digital transformation complete with step by step explanations of essential concepts practical examples and self assessment questions this devops book will help you to successfully integrate devops into enterprise architecture you ll learn what aiops is and what value it can bring to an enterprise lastly you will learn how to integrate security principles such as zero trust and industry security frameworks into devops with devsecops by the end of this devops book you ll be able to develop robust devops architectures know which toolsets you can use for your devops implementation and have a deeper understanding of next level devops by implementing site reliability engineering sre what you will learncreate devops architecture and integrate it with the enterprise architecturediscover how devops can add value to the quality of it deliveryexplore strategies to scale devops for an enterprisearchitect sre for an enterprise as next level devopsunderstand aiops and what value it can bring to an enterprisecreate your aiops architecture and integrate it into devopscreate your devsecops architecture and integrate it with the existing devops setupapply zero trust principles and industry security frameworks to devopswho this book is for this book is for enterprise architects and consultants who want to design devops systems for the enterprise it provides an architectural overview of devops aiops and devsecops if you re looking to learn about the implementation of various tools within

the devops toolchain in detail this book is not for you

discover practical recipes to help you efficiently monitor enterprise it infrastructure for microsoft windows linux networking and more key features master the redesigned frontend of zabbix 7 with improved navigation and a streamlined menu structure automate alert workflows by integrating zabbix with external services like slack microsoft teams and opsgenie perform professional it infrastructure and application monitoring across multiple platforms purchase of the print or kindle book includes a free pdf ebook book description realize the full potential of zabbix 7 with this updated third edition of the zabbix 7 it infrastructure monitoring cookbook packed with new recipes and updated with the latest zabbix functionalities this guide covers everything you need whether you re setting up zabbix with built in proxy high availability using ldap jit user provisioning implementing low level host discovery or creating advanced triggers this hands on guide offers easy to follow recipes to use zabbix 7 to monitor the performance of devices and applications across your network you ll start by learning how to install zabbix and examine its most prominent features ensuring you make the right design choices to build a scalable and easily manageable environment each recipe is crafted to help you build items and triggers for different types of monitoring create templates and use zabbix proxies you ll also get to grips with using the zabbix api for customization and managing your zabbix server and database finally you ll find quick solutions to the common and not so common problems that you may encounter in your zabbix monitoring work by the end of this book you ll have expert insights into using zabbix for all your monitoring needs and be able to build a solid zabbix setup by leveraging its key functionalities what you will learn implement a high availability zabbix setup for both server and proxies build templates and explore various monitoring types available in zabbix 7 use zabbix proxies to scale your environment effectively work with custom integrations and the zabbix api set up advanced triggers and alerting maintain your zabbix setup for scaling backups and upgrades perform advanced zabbix database management monitor cloud based products such as amazon services aws azure and docker who this book is for this book is for network and it engineers who want to get started with zabbix as well as those with an intermediate level understanding of zabbix looking to extend their knowledge while prior experience with zabbix is not a prerequisite it will help you make the most of this book

get ready for the zabbix certified professional exam with 350 questions and answers covering monitoring setup alerts templates graphs network devices and best practices each question provides practical examples and detailed explanations to ensure exam readiness ideal for it operations and monitoring specialists zabbix certified professional monitoring alerts templates graphs network devices best practices exam preparation career growth professional development it ops monitoring skills infrastructure it certifications

if you are an experienced network administrator looking for a comprehensive monitoring solution that will keep a watchful eye on networks then this book is for you

performance is one of the main issues that every administrator faces at one point or another this book will help you to identify and mitigate it the book starts with an introduction to zabbix and the most common mistakes that are usually overlooked while deploying it you will discover the importance of an impressive and easy to use front end and how to develop one along with comparisons between apache nginx and lig d web servers storage as an important aspect of every deployment is covered and you will be shown how to choose the right storage system for you and configure it to suit your deployment towards the end of the book you will walk through the intricacies of the operating system the final piece of the puzzle that holds

all the components together you will then dive into advanced topics including using a specific piece of hardware for each of the components the zabbix proxy and firewall settings by the end of the book you will be able to tune your zabbix implementation to achieve maximum performance

discover practical recipes to help you efficiently monitor enterprise it infrastructure for windows linux and networking key features find out how you can leverage some of the most exciting features of zabbix 5 perform professional it infrastructure and application monitoring on multiple platforms discover easy to follow practical solutions to problems in network monitoring with zabbix book 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 learn explore the different types of monitoring available in zabbix 5 find out how to build your own zabbix templates use zabbix proxies for effective load balancing scaling work with custom integrations and the zabbix api set up triggers and alerting with zabbix 5 maintain your zabbix setup for scaling backups and upgrades discover how to perform advanced zabbix database management monitor cloud based products such as amazon services aws azure and docker who 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

monitor your network hardware servers and web performance effectively and efficiently

discover practical recipes to help you efficiently monitor enterprise it infrastructure for microsoft windows linux networking and more key features find out how you can leverage some of the most exciting features of zabbix 6 perform professional it infrastructure and application monitoring on multiple platforms discover easy to follow practical solutions to problems in network monitoring with zabbix book description this updated second edition of the zabbix 6 it infrastructure monitoring cookbook brings you new recipes updated with zabbix 6 functionality you ll learn how to set up zabbix with built in high availability use the improved business service monitoring set up automatic reporting and create advanced triggers zabbix offers useful insights into your infrastructure performance and issues and enables you to enhance your monitoring setup with its powerful features this book covers hands on easy to follow recipes for using zabbix 6 to monitor effectively the performance of devices and applications over the network you ll start by working your way through the installation and most prominent features of zabbix and make the right design choices for building a scalable and easily manageable environment this zabbix book contains recipes for building items and triggers for different types of monitoring building templates and using zabbix proxies next you ll 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 zabbix monitoring work by the end of this book you ll be able to use zabbix

for all your monitoring needs and build a solid zabbix setup by leveraging its key functionalities what you will learn implement your high availability zabbix setup build templates and explore the different types of monitoring available in zabbix 6 use zabbix proxies to scale your environment effectively work with custom integrations and the zabbix api set up advanced triggers and effective alerting maintain your zabbix setup for scaling backups and upgrades discover how to perform advanced zabbix database management monitor cloud based products such as amazon services aws azure and docker who this book is for this book is for it engineers who want to get started with zabbix and anyone with an intermediate level 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

design develop and solve real world automation and orchestration needs by unlocking the automation capabilities of ansible about this book discover how ansible works in detail explore use cases for ansible s advanced features including task delegation fast failures and serial task execution extend ansible with custom modules plugins and inventory sources who this book is for this book is intended for ansible developers and operators who have an understanding of the core elements and applications but are now looking to enhance their skills in applying automation using ansible what you will learn understand ansible s code and logic flow safeguard sensitive data within ansible access and manipulate complex variable data within ansible playbooks handle task results to manipulate change and failure definitions organize ansible content into a simple structure craft a multi tier rollout playbook utilizing load balancers and manipulating your monitoring system utilize advanced ansible features to orchestrate rolling updates with almost no service disruptions troubleshoot ansible failures to understand and resolve issues extend ansible with custom modules plugins or inventory sources in detail automation is critical to success in the world of devops how quickly and efficiently an application deployment can be automated or a new infrastructure can be built up can be the difference between a successful product or a failure ansible provides a simple yet powerful automation engine beyond the basics of ansible lie a host of advanced features which are available to help you increase efficiency and accomplish complex orchestrations with ease this book provides you with the knowledge you need to understand how ansible works at a fundamental level and leverage its advanced capabilities you ll learn how to encrypt ansible content at rest and decrypt data at runtime you will master the advanced features and capabilities required to tackle the complex automation challenges of today and beyond you will gain detailed knowledge of ansible workflows explore use cases for advanced features craft well thought out orchestrations troubleshoot unexpected behaviour and extend ansible through customizations finally you will discover the methods used to examine and debug ansible operations helping you to understand and resolve issues style and approach a clear practical guide that covers best practise system architecture and design aspects that will help you master ansible with ease

for anyone running a network of linux servers whether it s a large data center or a small home network this engaging book provides short targeted lessons to improve their productivity and sharpen their administration skills

build prometheus ecosystems with metric centric visualization alerting and querying key features integrate prometheus with alertmanager and grafana for building a complete monitoring system explore promql prometheus functional query language with easy to follow examples learn how to deploy prometheus components using kubernetes and traditional instances book description prometheus is an open source monitoring system it provides a modern time series database a robust query language several metric visualization possibilities and a reliable alerting solution for traditional and cloud native infrastructure this

book covers the fundamental concepts of monitoring and explores prometheus architecture its data model and how metric aggregation works multiple test environments are included to help explore different configuration scenarios such as the use of various exporters and integrations you ll delve into promql supported by several examples and then apply that knowledge to alerting and recording rules as well as how to test them after that alert routing with alertmanager and creating visualizations with grafana is thoroughly covered in addition this book covers several service discovery mechanisms and even provides an example of how to create your own finally you ll learn about prometheus federation cross sharding aggregation and also long term storage with the help of thanos by the end of this book you ll be able to implement and scale prometheus as a full monitoring system on premises in cloud environments in standalone instances or using container orchestration with kubernetes what you will learn grasp monitoring fundamentals and implement them using prometheus discover how to extract metrics from common infrastructure services find out how to take full advantage of promql design a highly available resilient and scalable prometheus stack explore the power of kubernetes prometheus operator understand concepts such as federation and cross shard aggregation unlock seamless global views and long term retention in cloud native apps with thanos who this book is for if you re a software developer cloud administrator site reliability engineer devops enthusiast or system admin looking to set up a fail safe monitoring and alerting system for sustaining infrastructure security and performance this book is for you basic networking and infrastructure monitoring knowledge will help you understand the concepts covered in this book

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