

Mastering Zabbix Second Edition

Mastering Zabbix – Second Edition Zabbix 6 IT Infrastructure Monitoring Cookbook Mastering pfSense, Zabbix 6 IT Infrastructure Monitoring Cookbook C++ Networking 101, Second Edition Mastering Ansible Hands-On Infrastructure Monitoring with Prometheus Applied Computer Science for GGOS Observatories Zabbix 1.8 Network Monitoring Zabbix: Enterprise Network Monitoring Made Easy Mastering OpenStack Cloud Computing Security Zabbix Performance Tuning Mike Meyers' CompTIA Network+ Guide to Managing and Troubleshooting Networks, Sixth Edition (Exam N10-008) CompTIA Network+ Certification All-in-One Exam Guide, Eighth Edition (Exam N10-008) Mastering Zabbix Mike Meyers' CompTIA Network+ Certification Passport, Seventh Edition (Exam N10-008) Zabbix 4 Network Monitoring Twenty-sixth AIAA International Communication Satellite Systems Conference 2008 Zabbix Certified Professional Certification Prep Guide : 350 Questions & Answers Andrea Dalle Vacche Nathan Liefting David Zientara Nathan Liefting Anais Sutherland Jesse Keating Joel Bastos Alexander N.J. Neidhardt Rihards Olups Rihards Olups Omar Khedher John R. Vacca Luciano Alves Mike Meyers Mike Meyers Andrea Dalle Vacche Mike Meyers Patrik Uytterhoeven CloudRoar Consulting Services

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International Communication Satellite Systems Conference 2008 Zabbix Certified

Professional Certification Prep Guide : 350 Questions & Answers *Andrea Dalle Vacche Nathan*

Liefting David Zientara Nathan Liefting Anaïs Sutherland Jesse Keating Joel Bastos Alexander

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Consulting Services

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

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 descriptionthis 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

the point of this edition is to help c programmers get the skills and confidence they need to do a wide range of networking tasks the book gives lots of practical easy to follow examples and covers most key areas of network programming but intentionally leaves out highly complex scenarios it starts with the basics of how c works with tcp ip and gradually builds on that as you learn to write client server applications configure ip addressing and subnets implement protocols like http ftp smtp imap and dns and handle network communication errors effectively it s packed with clear explanations and real code that works you ll dive into vpn setups wireless networking standards asynchronous programming models and network simulations using modern c 23 features throughout as the chapters go on the focus moves on to getting the most out of devices and making them run smoothly this includes using netconf to automate device configurations managing firmware updates tweaking socket behavior for better performance setting up recovery systems and making diagnostic tools you ll also set up network monitoring using nagios along with custom c checks to track faults performance metrics and security events in real time after finishing you ll be able to think and work like a network programmer and administrator and you ll be ready to use your skills in real world situations key features build strong foundations in tcp ip networking using modern c coding examples work on client server applications with tcp and udp sockets and get to know real world communication patterns get hands on with ip addressing subnets and routing through

practical demonstrations and progressive programming exercises put core application protocols like http ftp smtp imap and dns in c take advantage of netconf and c to automate configuration tasks across network devices efficiently and consistently employ asynchronous programming multithreading and event driven models to handle high performance networking scenarios program your devices to automatically update their firmware adjust their settings and recover if something goes wrong combine nagios monitoring with custom c checks for fault performance and security visibility simulate and test networks using ns 3 and diagnostic tools for real time problem solving table of content introduction to networking and c understanding tcp and udp network interfaces and addressing application layer protocols vpns wireless networks asynchronous programming network testing and simulation network configuration management network monitoring

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

build prometheus ecosystems with metric centric visualization alerting and querying key featuresintegrate prometheus with alertmanager and grafana for building a complete monitoring systemexplore promql prometheus functional query language with easy to follow exampleslearn how to deploy prometheus components using kubernetes and traditional instancesbook 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

this book combines elementary theory from computer science with real world challenges in global geodetic observation based on examples from the geodetic observatory wettzell germany it starts with a step by step introduction to developing stable and safe scientific software to run successful software projects the use of software toolboxes is another essential aspect that leads to the application of generative programming an example is a generative network middleware that simplifies communication one of the book s main focuses is on explaining a potential strategy involving autonomous production cells for space geodetic techniques the complete software design of a satellite laser ranging system is taken as an example such automated systems are then combined for global interaction using secure communication tunnels for remote access the network of radio telescopes is used as a reference combined observatories form coordinated multi agent systems and offer solutions for operational aspects of the global geodetic observing system ggoss with

regard to industry 4 0

monitor your network hardware servers and web performance effectively and efficiently

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

this comprehensive guide will help you to choose the right practical option and make strategic decisions about the openstack cloud environment to fit your infrastructure in production at the start this book will explain the openstack core architecture you will soon be shown how to create your own openstack private cloud next you will move on to cover the key security layer and network troubleshooting skills along with some advanced networking features finally you will gain experience of centralizing and logging openstack the book will show you how to carry out performance tuning based on openstack service logs by the end of this book you will be ready to take steps to deploy and manage an openstack cloud with the latest open source technologies

this handbook offers a comprehensive overview of cloud computing security technology and implementation while exploring practical solutions to a wide range of cloud computing security issues with more organizations using cloud computing and cloud providers for data operations proper security in these and other potentially vulnerable areas have become a priority for organizations of all sizes across the globe research efforts from both academia and industry in all security aspects related to cloud computing are gathered within one

reference guide

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 lighttpd 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

this fully updated four color textbook is designed for classroom use and covers every topic on the latest version of the challenging comptia network exam written by mike meyers the leading comptia certification and training expert this full color resource prepares students for the comptia network exam and puts you on the path to becoming an expert networking professional thoroughly revised for the current version of the comptia network exam the book contains helpful on the job advice hands on examples chapter summaries key terms quizzes review questions lab projects and hundreds of photographs and illustrations mike meyers comptia network guide to managing and troubleshooting networks sixth edition exam n10-008 covers the latest concepts and technologies including basic datacenter cloud and virtual networking concepts students will learn networking fundamentals and best practices and networking fundamentals while following the path to becoming an effective networking professional special design elements throughout reinforce salient points while preparing you for exam day contains 100% coverage of every objective for comptia network exam n10-008 online content includes 100 accurate practice questions a self assessment

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monitoring systems can be extremely useful not only to identify specific problems but also to measure your system s performance and find the best way to improve it however they can be misleading and confusing if not correctly configured and managed zabbix 2 2 allows you to customize and implement ideas by extending adding or customizing functionality giving an added value to that technology this comprehensive guide will help you to make both strategic and practical decisions about the zabbix monitoring system so that it will fit your environment and monitoring needs like a glove

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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

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