



Community Experience Distilled

Zabbix Network Monitoring

Second Edition

Gather detailed statistics and data while monitoring the performance and availability of network devices and applications using the all-new Zabbix 3.0

Rihards Olups

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Zabbix Network Monitoring Second Edition

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Zabbix 1.8 Network Monitoring Rihards Olups, 2010-03-29 Monitor your network hardware servers and web performance effectively and efficiently

Zabbix 6 IT Infrastructure Monitoring Cookbook Nathan Liefting, Brian van Baekel, 2022-03-17 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 Web 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

Zabbix Network Monitoring Rihards Olups, 2016-08-10 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 you re 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

[Zabbix 4 Network Monitoring](#) Patrik Uytterhoeven,Rihards Olups,2019-01-21 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 **Zabbix: Enterprise Network**

Monitoring Made Easy Rihards Olups, Andrea Dalle Vacche, Patrik Uytterhoeven, 2017-02-08 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 **Mastering Zabbix - Second Edition**

Andrea Dalle Vacche,2015-09-15 Learn how to monitor your large IT environments using Zabbix with this one stop comprehensive guide to the Zabbix worldAbout 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 softwareWho This Book Is ForThis 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 agentIn DetailNowadays 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

Networking and Security for the 21st Century Pasquale De Marco, 2025-08-09 *Networking and Security for the 21st Century* is a comprehensive guide to the fundamentals of networking and security This book is essential reading for anyone who wants to understand how networks work and how to protect them from threats *Networking and Security for the 21st Century* covers a wide range of topics including The different types of networks and network protocols The different types of network security threats The measures that can be taken to protect against network security threats The future of networking and security This book is written in a clear and concise style and it is packed with real world examples and case studies *Networking and Security for the 21st Century* is the perfect resource for anyone who wants to learn more about networking and security What you will learn You will learn about the different types of networks and network protocols You will learn about the different types of network security threats You will learn about the measures that can be taken to protect against network security threats You will learn about the future of networking and security Who this book is for This book is intended for a wide audience including IT professionals business owners and anyone who wants to learn more about networking and security No prior knowledge of networking or security is required About the author Pasquale De Marco is a leading expert in networking and security He has over 20 years of experience in the IT industry and he has worked with some of the world's largest companies Pasquale De Marco is the author of several books and articles on networking and security and he is a frequent speaker at industry conferences If you like this book write a review

SNMP: Mastering Monitoring and Management Pasquale De Marco, 2025-05-14 *SNMP Mastering Monitoring and Management* is the definitive guide to SNMP the Simple Network Management Protocol This widely used protocol is essential for monitoring and managing networks of all sizes *SNMP Mastering Monitoring and Management* provides a comprehensive overview of SNMP from its history and architecture to its operation and use The book is written in a clear and concise style with practical examples and illustrations throughout Whether you are new to SNMP or an experienced user *SNMP Mastering Monitoring and Management* has something to offer you The book covers all aspects of SNMP including Configuring SNMP agents Monitoring networks with SNMP Managing devices with SNMP Troubleshooting SNMP issues Advanced SNMP techniques With its clear explanations and practical examples *SNMP Mastering Monitoring and Management* is the perfect guide to SNMP for network engineers system administrators and anyone else who needs to understand and use SNMP In this book you will learn The basics of SNMP including its history architecture and operation How to configure SNMP agents on network devices How to monitor networks with SNMP and identify performance issues How to manage devices with SNMP

and automate management tasks How to troubleshoot SNMP issues and resolve network problems Advanced SNMP techniques such as SNMPv3 security and creating custom MIBs Pasquale De Marco is a network engineer with over 15 years of experience in designing deploying and managing networks He is a certified Cisco Network Associate CCNA and a Microsoft Certified Solutions Expert MCSE Pasquale De Marco is also the author of several other books on networking and IT topics If you like this book write a review on google books *Zabbix 7 IT Infrastructure Monitoring Cookbook* Nathan Liefting,Brian van Baekel,2024-07-12 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 DescriptionRealize 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 Web 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

Radio Monitoring Anatoly M. Rembovsky,Alexander V. Ashikhmin,Vladimir A. Kozmin,Sergey M. Smolskiy,2018-04-25 This book discusses the architecture of modern automated systems for spectrum monitoring including automation components technical means for spectrum monitoring special software and engineering infrastructure The problems of

automated system development for search and localization of unauthorized radio emission sources in open localities mathematical methods and algorithms for modulation of parameter measurements for wireless communication as well as issues of identification and localization of radio emission sources are considered Constructive solutions and modern technical means for radio monitoring and their application are given Numerous examples are described for the implementation of automated systems digital radio receivers and radio direction finders analyzers of parameters for GSM CDMA LTE DVB T T2 Wi Fi DMR P25 TETRA and DECT signals Practical implementations of the described methods are presented in applied software packages and in radio monitoring equipment **Zabbix Network Monitoring Essentials** Andrea Dalle

Vacche,Stefano Kewan Lee,2015-02-26 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 AI and Its Convergence With Communication Technologies Muneer, Badar,Shaikh, Faisal Karim,Mahoto, Naeem,Talpur, Shah Nawaz,Garcia, Jordi,2023-08-25 The integration of Artificial Intelligence AI with Communication Technologies ICT is a critical aspect of research and development today but it poses numerous challenges and bottlenecks To address these issues the book AI and Its Convergence with Communication Technologies edited by a team of expert scholars provides a comprehensive overview of the state of the art research and practical challenges related to AI s convergence with ICT It is designed to benefit engineers professionals scientists and academicians providing them with insights into the ICT industry and research from an AI perspective The book covers a wide range of topics including recent advancements and applications in AI AI in signal processing AI in mobile and modern wireless networks and AI towards automation It also addresses potential applications of AI in national defense military technology hybrid warfare medical and health sciences and energy efficient systems Furthermore the book highlights the strengths and weaknesses of AI convergence with ICT along with emerging frontiers and recommendations It provides a brief history of AI in ICT and a comprehensive introduction to ICT related methods and techniques in artificial intelligence and machine learning The book emphasizes the role of AI in extracting knowledge and making predictions in decision making strategies for businesses management and governance Overall this book offers a significant contribution to the understanding of AI and its convergence with communication technologies making it a must read for scholars and researchers who seek to understand the intersection of AI and ICT and how it impacts modern industries and research **Intelligent Signal Processing and RF Energy Harvesting for State of art 5G and B5G**

Networks Javaid A. Sheikh,Taimoor Khan,Binod Kumar Kanaujia,2024-02-24 The book covers all the emerging paradigms of machine learning and bio inspired algorithms and their synergies with communication networks which may prove to a core 5G and 6G enablers It consists of 11 chapters with varied fields The book introduces the fundamentals of broadband wireless networks and issues related to energy efficiency and optimization Also it discusses the efficient bio inspired algorithms and their utility in wireless networks for 5G B5G and IoT Different fitness functions for different bio inspired and other artificial

intelligence algorithms are described in the book More importantly it also introduces the concept implementation and technological challenges of efficient wireless energy harvesting methods The book discusses different methodologies for efficient antenna designs It also covers real time applications on the Internet of Medical Things IOMT The book helps the readers to understand the subject and solve many real time issues It proves a ready reference to the researchers working in RF artificial intelligence machine learning and communication networks Mastering pfSense, David Zientara,2018-05-09

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 is 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

Guide to Networking Technologies and Support for the Modern Age Pasquale De Marco,2025-04-08 In the dynamic and ever evolving realm of networking Guide to Networking Technologies and Support for the Modern Age emerges as an invaluable resource providing comprehensive insights into the intricate world of networking technologies and support systems This meticulously crafted guide is designed to empower readers with a deep understanding of the fundamental principles and cutting edge advancements that shape modern networks With an engaging and accessible writing style Guide to Networking Technologies and Support for the Modern Age delves into the depths of network

architectures protocols and emerging trends catering to both aspiring and experienced network professionals Its comprehensive coverage encompasses a wide spectrum of essential topics ensuring that readers gain a thorough understanding of the underlying mechanisms that drive the seamless flow of information across networks Recognizing the importance of practical application Guide to Networking Technologies and Support for the Modern Age incorporates immersive case studies and real world scenarios allowing readers to apply their knowledge to tangible networking challenges This interactive approach fosters a deeper comprehension of the material and cultivates a skillset that translates seamlessly into real world scenarios Authored by renowned experts in the field of networking Guide to Networking Technologies and Support for the Modern Age is not just a textbook it is a gateway to a world of possibilities Its rigorous attention to detail and unwavering commitment to clarity make it an indispensable resource for network professionals seeking to expand their knowledge and advance their careers As technology continues to reshape the world around us Guide to Networking Technologies and Support for the Modern Age stands as a timeless resource a beacon of knowledge that illuminates the intricate workings of modern networking systems With its accessible writing style and comprehensive insights this book empowers readers to navigate the complexities of networking with confidence and expertise Whether you are a seasoned network professional seeking to stay abreast of the latest advancements or an aspiring network engineer eager to build a solid foundation Guide to Networking Technologies and Support for the Modern Age is the definitive guide to mastering the art of networking Its comprehensive coverage practical orientation and engaging writing style make it an invaluable resource for anyone seeking to thrive in the ever changing landscape of networking technologies and support systems If you like this book write a review [Hands-On Infrastructure Monitoring with Prometheus](#) Joel Bastos, Pedro Araújo, 2019-05-31 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 PrometheusQL 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 *Zabbix 6 IT Infrastructure Monitoring Cookbook* Nathan Liefting, Brian van Baekel, 2022 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 *Networking Fundamentals Explained: A Comprehensive Guide to Building and Managing Networks* Pasquale De Marco, 2025-04-11 In *Networking Fundamentals Explained A Comprehensive Guide to Building and Managing Networks* you'll embark on a comprehensive journey into the captivating world of networking gaining a deep understanding of the principles technologies and best practices that underpin the interconnected digital landscape we rely on today This comprehensive guide is meticulously crafted to empower you with the knowledge and skills necessary to confidently design implement and manage robust and reliable networks As you delve into this guide you'll unravel the fundamental concepts of networking exploring the different types of networks their components and the protocols that govern their operation You'll delve into the realm of IP addressing understanding how devices identify and communicate with each other over the internet Moving forward you'll explore the intricacies of network topologies examining

the various physical arrangements of devices within a network and their impact on performance and reliability You ll investigate the different types of network devices such as switches routers and firewalls gaining insights into their functions and configurations Additionally you ll delve into the essential network protocols the languages that devices use to communicate with each other appreciating their role in ensuring efficient and secure data transmission Furthermore you ll navigate the critical domain of network security understanding the various threats that lurk in the digital realm such as malware hacking and unauthorized network access You ll explore the measures and best practices that can be implemented to safeguard networks ensuring their integrity and confidentiality Additionally you ll delve into the importance of network management the processes and tools used to monitor maintain and optimize network performance ensuring its reliability and availability Finally you ll conclude your journey by exploring the principles of network design and implementation You ll learn the art of planning and creating a network infrastructure that meets specific requirements considering factors such as scalability security and cost effectiveness You ll also examine the steps involved in implementing a network including testing verification and optimization ensuring its seamless integration and operation Throughout this guide you ll find real world examples illustrative diagrams and practical exercises that reinforce your understanding of networking concepts You ll also gain troubleshooting tips and techniques to help you identify and resolve common network issues empowering you to maintain and manage your networks with confidence Whether you re a network engineer IT professional or anyone seeking to expand their knowledge in this field *Networking Fundamentals Explained* is your ultimate companion If you like this book write a review on google books

PostgreSQL Administration Cookbook, 9.5/9.6 Edition Simon Riggs, Gianni Ciolli, Gabriele Bartolini, 2017-04-27 Over 150 recipes to help you administer your PostgreSQL database more efficiently About This Book Get to grips with the capabilities of PostgreSQL 9.6 to administer your database more efficiently Monitor tune secure and protect your database A step by step recipe based guide to help you tackle any problem in PostgreSQL administration with ease Who This Book Is For This book is for system administrators database administrators data architects developers and anyone with an interest in planning for or running live production databases This book is most suited to those who have some technical experience What You Will Learn Implement PostgreSQL features for performance and reliability Harness the power of the latest PostgreSQL 9.6 features Manage open source PostgreSQL versions 9.5 and 9.6 on various platforms Discover advanced technical tips for experienced users Explore best practices for planning and designing live databases Select and implement robust backup and recovery techniques Explore concise and clear guidance on replication and high availability See the latest details on Logical Replication and Bi Directional Replication In Detail PostgreSQL is a powerful opensource database management system now recognized as the expert s choice for a wide range of applications it has an enviable reputation for performance and stability PostgreSQL provides an integrated feature set comprising relational database features object relational text search Geographical Info Systems analytical tools for big data and JSON XML document

management Starting with short and simple recipes you will soon dive into core features such as configuration server control tables and data You will tackle a variety of problems a database administrator usually encounters from creating tables to managing views from improving performance to securing your database and from using monitoring tools to using storage engines Recipes based on important topics such as high availability concurrency replication backup and recovery as well as diagnostics and troubleshooting are also given special importance By the end of this book you will have all the knowledge you need to run manage and maintain PostgreSQL efficiently Style and approach This book takes a step by step recipe based approach where each recipe focuses on a particular challenge faced by a PostgreSQL administrator while administering his her database Explained in a very easy to follow manner every task is supported with best practices tips and tricks

Learning Docker Jeeva S. Chelladhurai, Vinod Singh, Pethuru Raj, 2017-05-31 Docker lets you create deploy and manage your applications anywhere at anytime flexibility is key so you can deploy stable secure and scalable app containers across a wide variety of platforms and delve into microservices architecture About This Book This up to date edition shows how to leverage Docker's features to deploy your existing applications Learn how to package your applications with Docker and build ship and scale your containers Explore real world examples of securing and managing Docker containers Who This Book Is For This book is ideal for developers operations managers and IT professionals who would like to learn about Docker and use it to build and deploy container based apps No prior knowledge of Docker is expected What You Will Learn Develop containerized applications using the Docker version 17.03 Build Docker images from containers and launch them Develop Docker images and containers leveraging Dockerfiles Use Docker volumes to share data Get to know how data is shared between containers Understand Docker Jenkins integration Gain the power of container orchestration Familiarize yourself with the frequently used commands such as `docker exec` `docker ps` `docker top` and `docker stats` In Detail Docker is an open source containerization engine that offers a simple and faster way for developing and running software Docker containers wrap software in a complete filesystem that contains everything it needs to run enabling any application to be run anywhere this flexibly and portably means that you can run apps in the cloud on virtual machines or on dedicated servers This book will give you a tour of the new features of Docker and help you get started with Docker by building and deploying a simple application It will walk you through the commands required to manage Docker images and containers You'll be shown how to download new images run containers list the containers running on the Docker host and kill them You'll learn how to leverage Docker's volumes feature to share data between the Docker host and its containers this data management feature is also useful for persistent data This book also covers how to orchestrate containers using Docker compose debug containers and secure containers using the AppArmor and SELinux security modules Style and approach This step by step guide will walk you through the features and use of Docker from Docker software installation to the impenetrable security of containers

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