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Mastering Zabbix

Second Edition

Learn how to monitor your large IT environments using Zabbix with this one-stop, comprehensive guide to the Zabbix world

Andrea Dalle Vacche

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Mastering Zabbix Second Edition

Alex Giamas



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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 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 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 agent
In 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 approachThis 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

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
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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 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.

Mastering Ansible Jesse Keating, 2015-11-24

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.
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- Troubleshoot Ansible failures to understand and resolve issues.
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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

Mastering Zabbix 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 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 **LEARN ZABBIX** Diego Rodrigues,2025-07-26 LEARN ZABBIX Monitor Corporate Environments Networks and Applications with Automation and Integrated Alerts This book is ideal for professionals and students who want to master Zabbix with technical depth applying scalable monitoring solutions in hybrid multi cloud and highly regulated environments With a focus on automation integration and visualization the book covers the use of Zabbix in critical operations with support for leading market tools You will learn how to structure the complete Zabbix architecture configure agents proxies and servers orchestrate environments using Ansible Terraform and Docker integrate with Grafana Prometheus VMware SNMP IPMI and REST APIs and deploy secure and auditable solutions across major cloud platforms AWS Google Cloud Microsoft Azure and Oracle Cloud Includes Advanced Zabbix installation with PostgreSQL NGINX and TLS Integration with Grafana Prometheus SNMP IPMI VMware Docker and Kubernetes Environment orchestration with Ansible Terraform shell scripting and CI CD Multi cloud monitoring AWS Google Cloud Azure and Oracle Cloud Dynamic dashboards widgets topology maps and executive reports Smart alerts automated responses ITSM SIEM SAML RBAC and hardening Master Zabbix as a reference solution for modern infrastructure unifying visibility security and automation in large scale projects with corporate grade observability zabbix grafana prometheus snmp terraform ansible google cloud azure aws cloud monitoring **Mastering MongoDB 4.x** Alex Giamas,2019-03-30 Leverage the power of MongoDB 4 x to build and administer fault tolerant database applications Key Features Master the new features and capabilities of MongoDB 4 x Implement advanced data modeling querying and administration techniques in MongoDB Includes rich case studies and best practices followed by expert MongoDB developers Book Description MongoDB is the best platform for working with non relational data and is considered to be the smartest tool for organizing data in line with business needs The recently released MongoDB 4 x supports ACID transactions and makes the technology an asset for enterprises across the IT and fintech sectors This book provides expertise in advanced and niche areas of managing databases such as modeling and querying databases along with various administration techniques in MongoDB thereby helping you become a successful MongoDB expert The book helps you understand how the newly added capabilities function with the help of some interesting examples and large datasets You will dive deeper into niche areas such as high performance configurations optimizing SQL statements configuring large scale sharded clusters and many more You will also master best practices in overcoming database failover and master recovery and backup procedures for database security By the end of the book you will have gained a practical understanding of administering database applications both on premises and on the cloud you will also be able to scale database applications across all servers What you will learn Perform advanced querying techniques such as indexing and expressions Configure monitor and maintain a highly scalable MongoDB environment Master replication and data sharding to optimize read write performance Administer MongoDB based

applications on premises or on the cloud Integrate MongoDB with big data sources to process huge amounts of data Deploy MongoDB on Kubernetes containers Use MongoDB in IoT mobile and serverless environments Who this book is for This book is ideal for MongoDB developers and database administrators who wish to become successful MongoDB experts and build scalable and fault tolerant applications using MongoDB It will also be useful for database professionals who wish to become certified MongoDB professionals Some understanding of MongoDB and basic database concepts is required to get the most out of this book

Mastering MongoDB 4.x - Second Edition Alex Giamas, 2019 Leverage the power of MongoDB 4.x to build and administer fault tolerant database applications Key Features Master the new features and capabilities of MongoDB 4.x Implement advanced data modeling querying and administration techniques in MongoDB Includes rich case studies and best practices followed by expert MongoDB developers Book Description MongoDB is the best platform for working with non relational data and is considered to be the smartest tool for organizing data in line with business needs The recently released MongoDB 4.x supports ACID transactions and makes the technology an asset for enterprises across the IT and fintech sectors This book provides expertise in advanced and niche areas of managing databases such as modeling and querying databases along with various administration techniques in MongoDB thereby helping you become a successful MongoDB expert The book helps you understand how the newly added capabilities function with the help of some interesting examples and large datasets You will dive deeper into niche areas such as high performance configurations optimizing SQL statements configuring large scale sharded clusters and many more You will also master best practices in overcoming database failover and master recovery and backup procedures for database security By the end of the book you will have gained a practical understanding of administering database applications both on premises and on the cloud you will also be able to scale database applications across all servers What you will learn Perform advanced querying techniques such as indexing and expressions Configure monitor and maintain a highly scalable MongoDB environment Master replication and data sharding to optimize read write performance Administer MongoDB based applications on premises or on the cloud Integrate MongoDB with big data sources to process huge amounts of data Deploy MongoDB on Kubernetes containers Use MongoDB in IoT mobile and serverless environments Who this book is for This book is ideal for MongoDB developers and database administrators who wish to become successful MongoDB experts and build scalable and fault tolerant applications using MongoDB It will also be useful for database professionals who wish to become certified MongoDB professionals Some understanding of MongoDB and basic database concepts is required to get the most out of this book Downloading the example code for this book You can download the example code

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