

10 Virtual Machine Monitoring Zabbix

Proceedings of the 13th International Conference on Ubiquitous Information Management and Communication (IMCOM) 2019 2019-05-22 Sukhan Lee Over past few years, technologies have experienced boundaries getting blurred and concept of convergence to gain prominence. Harnessing from this, two main tracks for information processing management and communication are held, covering both research and application works of information management, intelligent information processing, interaction management, networking/ telecommunications, and social interaction. This book creates unique opportunity for research convergence among truly diverse technology domains of computer science. Leveraging from this diversity of topics, researchers get to generate novel research ideas by seeking application of their research in a different technology domain. This volume represents the collection of papers presented at the 13th International Conference on Ubiquitous Information Management and Communication (IMCOM 2019), held on 4-6 January 2019 in Phuket, Thailand. Out of 228 papers submitted from all around the world 88 papers were accepted for presentations. The 88 contributions to this volume are organized into 5 chapters: Chapter 1. Network Evolution, Chapter 2. Intelligent and Secure Network, Chapter 3. Image and Video Processing, Chapter 4. Information Technology and Society, and Chapter 5. Data Mining and Learning. Our editors wish readers to find this volume informative and enjoyable.

Evaluation of Novel Approaches to Software Engineering 2019-06-29 Ernesto Damiani This book constitutes the refereed proceedings of the 13th International Conference on Evaluation of Novel Approaches to Software Engineering, ENASE 2018, held in Funchal, Madeira, Portugal, in March 2018. The 17 revised full papers and 5 revised short papers presented were carefully reviewed and selected from 95 submissions. The papers are organized in topical sections on service science and business information systems and software engineering.

Zabbix: Enterprise Network Monitoring Made Easy 2017-02-08 Rihards Olups 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.

[How to Accelerate Your Internet](#) 2006-10-01 Rob Flickenger

Zabbix 6 IT Infrastructure Monitoring Cookbook 2022-03-17 Nathan Liefting 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.

Essentials of Cloud Computing 2019-08-27 Chellammal Surianarayanan This reader-friendly textbook presents a comprehensive overview of the essential aspects of cloud computing, from the origin of the field to the latest developments. Rather than merely discussing the cloud paradigm in isolation, the text also examines how cloud computing can work collaboratively with other computing models to meet the needs of evolving computing trends. This multi-dimensional approach encompasses the challenges of fulfilling the storage requirements of big data, the use of the cloud as a remote server for Internet of Things and sensor networks, and an investigation of how cloud computing is interlinked with edge, fog and mist computing, among other illuminating perspectives. Topics and features: includes learning objectives, motivating questions, and self-test exercises in every chapter; presents an introduction to the underlying concepts, fundamental features, and key technological foundations of cloud computing; examines how enterprise networking and cloud networking can work together to achieve business goals; reviews the different types of cloud storage available to address the evolution of data and the need for digitization; discusses the challenges and approaches to implementing cloud security, and the hot topic of cloud management; highlights the value of cloud brokerage capabilities, and explains the importance of cloud orchestration in multi-cloud environments; describes the details of cloud migration, the crucial role of monitoring in optimizing the cloud, and the basics of disaster recovery using cloud infrastructure. This technically rigorous yet simple-to-follow textbook is an ideal resource for graduate courses on cloud computing. Professional software developers and cloud architects will also find the work to be an invaluable reference.

Information Security Practice and Experience 2019-11-19 Swee-Huay Heng This book constitutes the refereed proceedings of the 15th International Conference on Information Security Practice and Experience, ISPEC 2019, held in Kuala Lumpur, Malaysia, in November 2019. The 21 full and 7 short papers presented in this volume were carefully reviewed and selected from 68 submissions. They were organized into the following topical sections: Cryptography I, System and Network Security, Security Protocol and Tool, Access Control and Authentication, Cryptography II, Data and User Privacy, Short Paper I, and Short Paper II.

Zabbix 5 IT Infrastructure Monitoring Cookbook 2021-02-26 Nathan Liefting 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 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 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.

Explainable Artificial Intelligence for Cyber Security 2022-04-18 Mohiuddin Ahmed This book presents that explainable artificial intelligence (XAI) is going to replace the traditional artificial, machine learning, deep learning algorithms which work as a black box as of today. To understand the algorithms better and interpret the complex networks of these algorithms, XAI plays a vital role. In last few decades, we have embraced AI in our daily life to solve a plethora of problems, one of the notable problems is cyber security. In coming years, the traditional AI algorithms are not able to address the zero-day cyber attacks, and hence, to capitalize on the AI algorithms, it is absolutely important to focus more on XAI. Hence, this book serves as an excellent reference for those who are working in cyber security and artificial intelligence.

Algorithms and Architectures for Parallel Processing 2018-12-07 Jaideep Vaidya The four-volume set LNCS 11334-11337 constitutes the proceedings of the 18th International Conference on Algorithms and Architectures for Parallel Processing, ICA3PP 2018, held in Guangzhou, China, in November 2018. The 141 full and 50 short papers presented were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on Distributed and Parallel Computing; High Performance Computing; Big Data and Information Processing; Internet of Things and Cloud Computing; and Security and Privacy in Computing.

Mastering Proxmox 2016-05-27 Wasim Ahmed Master the skills you need to build a rock-solid virtualization environment with the all new Proxmox 4 About This Book Formulate Proxmox-based solutions and set up virtual machines of any size while gaining expertise even on the most complex multi-cluster setups Master the skills needed to analyze, monitor, and troubleshoot real-world virtual environments This is the most up-to-date title on mastering Proxmox, with examples based on the new Linux Kernel 4.2 and Debian Jessie (8.x) Who This Book Is For The book targets Linux and system administrators and professionals working in IT teams who would like to design and implement an enterprise-quality virtualized environment using Proxmox. Knowledge of networking and virtualization concepts is assumed. What You Will Learn Install the basic Proxmox VE nodes Get to know the Proxmox Graphical User Interface (GUI) See and understand Proxmox's internal structure and mechanics Create and manage KVM- or LXC-based virtual machines Understand advanced virtual networks Leverage the power of the built-in Proxmox firewall to provide protection at any level Configure high availability Proxmox nodes Learn different backup strategies and to restore a VM in the event of a disaster to ensure data safety Monitor a Proxmox cluster and all of its components using Zabbix Plan large virtual environments for mission critical virtual environments Work through real-world scenarios to troubleshoot Proxmox In Detail Proxmox is an open source server virtualization solution that has enterprise-class features to manage virtual machines, to be used for storage, and to virtualize both Linux and Windows application workloads. You begin with refresher on the advanced installation features and the Proxmox GUI to familiarize yourself with the Proxmox VE hypervisor. You then move on to explore Proxmox under the hood, focusing on the storage systems used with Proxmox. Moving on, you will learn to manage KVM Virtual Machines and Linux Containers and see how networking is handled in Proxmox. You will then learn how to protect a cluster or a VM with a firewall and explore the new HA features introduced in Proxmox VE 4 along with the brand new HA simulator. Next, you will dive deeper into the backup/restore strategy followed by learning how to properly update and upgrade a Proxmox node. Later, you will learn how to monitor a Proxmox cluster and all of its

components using Zabbix. By the end of the book, you will become an expert at making Proxmox environments work in production environments with minimum downtime. Style and approach This book walks you through every aspect of virtualization using Proxmox using a practical, scenario-based approach that features best practices and all the weaponry you need to succeed when building virtual environments with Proxmox 4.

Mastering Proxmox 2017-11-16 Wasim Ahmed Discover real world scenarios for Proxmox troubleshooting and become an expert cloud builder About This Book Formulate Proxmox-based solutions and set up virtual machines of any size while gaining expertise even on the most complex multi-cluster setups Master the skills needed to analyze, monitor, and troubleshoot real-world virtual environments This is the most up-to-date title on mastering Proxmox, with examples based on the new Linux Kernel 4.10.15 and Debian Stretch (9.x) Who This Book Is For This book is for Linux and system administrators and professionals working in IT teams who would like to design and implement an enterprise-quality virtualized environment using Proxmox. Some knowledge of networking and virtualization concepts is assumed. What You Will Learn Install basic Proxmox VE nodes and get to know the Proxmox GUI Get to know Proxmox's internal structure and mechanics Create and manage KVM or LXC-based virtual machines Understand advanced virtual networks Configure high availability Proxmox nodes Integrate Ceph big data storage with the Proxmox hypervisor Plan a large virtual environment for cloud-based services Discover real-world scenarios for Proxmox troubleshooting In Detail Proxmox is an open source server virtualization solution that has enterprise-class features for managing virtual machines, for storage, and to virtualize both Linux and Windows application workloads. You'll begin with a refresher on the advanced installation features and the Proxmox GUI to familiarize yourself with the Proxmox VE hypervisor. Then, you'll move on to explore Proxmox under the hood, focusing on storage systems, such as Ceph, used with Proxmox. Moving on, you'll learn to manage KVM virtual machines, deploy Linux containers fast, and see how networking is handled in Proxmox. You'll also learn how to protect a cluster or a VM with a firewall and explore the new high availability features introduced in Proxmox VE 5.0. Next, you'll dive deeper into the backup/restore strategy and see how to properly update and upgrade a Proxmox node. Later, you'll learn how to monitor a Proxmox cluster and all of its components using Zabbix. Finally, you'll discover how to recover Promox from disaster strikes through some real-world examples. By the end of the book, you'll be an expert at making Proxmox work in production environments with minimal downtime. Style and approach This book walks you through every aspect of virtualization using Proxmox using a practical, scenario-based approach that features best practices and all the weaponry you need to succeed when building virtual environments with Proxmox 5.0.

Mastering KVM Virtualization 2016-08-19 Humble Devassy Chirammal Dive in to the cutting edge techniques of Linux KVM virtualization, and build the virtualization solutions your datacentre demands About This Book Become an expert in Linux virtualization Migrate your virtualized datacenter to the cloud Find out how to build a large scale virtualization solution that will transform your organization Who This Book Is For Linux administrators - if you want to build incredible, yet manageable virtualization solutions with KVM this is the book to get you there. It will help you apply what you already know to some tricky virtualization tasks. What You Will Learn Explore the ecosystem of tools that support Linux virtualization Find out why KVM offers you a smarter way to unlock the potential of virtualization Implement KVM virtualization using oVirt Explore the KVM architecture - so you can manage, scale and optimize it with ease Migrate your virtualized datacenter to the cloud for truly resource-efficient computing Find out how to integrate OpenStack with KVM to take full control of the cloud In Detail A robust datacenter is essential for any organization - but you don't want to waste resources. With KVM you can virtualize your datacenter, transforming a Linux operating system into a powerful hypervisor that allows you to manage multiple OS with minimal fuss. This book doesn't just show you how to virtualize with KVM - it shows you how to do it well. Written to

make you an expert on KVM, you'll learn to manage the three essential pillars of scalability, performance and security - as well as some useful integrations with cloud services such as OpenStack. From the fundamentals of setting up a standalone KVM virtualization platform, and the best tools to harness it effectively, including virt-manager, and kimchi-project, everything you do is built around making KVM work for you in the real-world, helping you to interact and customize it as you need it. With further guidance on performance optimization for Microsoft Windows and RHEL virtual machines, as well as proven strategies for backup and disaster recovery, you'll can be confident that your virtualized data center is working for your organization - not hampering it. Finally, the book will empower you to unlock the full potential of cloud through KVM. Migrating your physical machines to the cloud can be challenging, but once you've mastered KVM, it's a little easie. Style and approach Combining advanced insights with practical solutions, Mastering KVM Virtualization is a vital resource for anyone that believes in the power of virtualization to help a business use resources more effectively.

Virtualization Essentials 2023-03-31 Matthew Portnoy Learn the fundamental concepts and skills by building your own virtual machine Virtualization is more important than ever, it's how the Cloud works! As virtualization continues to expand, millions of companies all over the world are leveraging virtualization. IT professionals need a solid understanding of virtualization concepts and software to compete in today's job market. The updated new edition of Virtualization Essentials teaches you the core concepts and skills necessary to work with virtualization environments. Designed for new and aspiring IT professionals alike, this practical guide offers an applied, real-world approach to help you develop the necessary skill set to work in Cloud computing, the DevOps space, and the rest of the virtual world. Virtualization Essentials simplifies complex concepts to ensure that you fully understand what virtualization is and how it works within the computing environment. Step by step, you'll learn how to build your own virtual machine, both by scratch and by migrating from physical to virtual. Each user-friendly chapter contains an overview of the topic, a discussion of key concepts, hands-on tutorials, end-of-chapter exercises, review questions, and more. Configure and manage a virtual machine's CPU, memory, storage, and networking Distinguish between Type 1 and Type 2 hypervisors Compare the leading hypervisor products in today's market Configure additional devices for a virtual machine Make considerations for availability Understand how cloud computing leverages virtualization Virtualization Essentials is an invaluable 'learn-by-doing' resource for new and aspiring IT professionals looking to gain a solid foundation in virtualization. It is also an excellent reference for more experienced IT admins responsible for managing on-premise and remote computers and workstations.

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

Developing Interoperable and Federated Cloud Architecture 2016-04-11 Kecskemeti, Gabor As cloud technology continues to advance and be utilized, many service providers have begun to employ multiple networks, or cloud federations; however, as the popularity of these federations increases, so does potential utilization challenges. Developing Interoperable and Federated Cloud Architecture provides valuable insight into current and emergent research occurring within the field of cloud infrastructures. Featuring barriers, recent developments, and practical applications on the interoperability issues of federated cloud architectures, this book is a focused reference for administrators, developers, and cloud users interested in energy awareness, scheduling, and federation policies and usage.

Artificial Neural Networks and Machine Learning - ICANN 2018 2018-09-25 Věra Kůrková This three-volume set LNCS 11139-11141 constitutes the

refereed proceedings of the 27th International Conference on Artificial Neural Networks, ICANN 2018, held in Rhodes, Greece, in October 2018. The 139 full and 28 short papers as well as 41 full poster papers and 41 short poster papers presented in these volumes was carefully reviewed and selected from total of 360 submissions. They are related to the following thematic topics: AI and Bioinformatics, Bayesian and Echo State Networks, Brain Inspired Computing, Chaotic Complex Models, Clustering, Mining, Exploratory Analysis, Coding Architectures, Complex Firing Patterns, Convolutional Neural Networks, Deep Learning (DL), DL in Real Time Systems, DL and Big Data Analytics, DL and Big Data, DL and Forensics, DL and Cybersecurity, DL and Social Networks, Evolving Systems - Optimization, Extreme Learning Machines, From Neurons to Neuromorphism, From Sensation to Perception, From Single Neurons to Networks, Fuzzy Modeling, Hierarchical ANN, Inference and Recognition, Information and Optimization, Interacting with The Brain, Machine Learning (ML), ML for Bio Medical systems, ML and Video-Image Processing, ML and Forensics, ML and Cybersecurity, ML and Social Media, ML in Engineering, Movement and Motion Detection, Multilayer Perceptrons and Kernel Networks, Natural Language, Object and Face Recognition, Recurrent Neural Networks and Reservoir Computing, Reinforcement Learning, Reservoir Computing, Self-Organizing Maps, Spiking Dynamics/Spiking ANN, Support Vector Machines, Swarm Intelligence and Decision-Making, Text Mining, Theoretical Neural Computation, Time Series and Forecasting, Training and Learning.

Zabbix Performance Tuning 2015-06-30 Luciano Alves 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.

VMware vSphere Performance 2014-04-25 Matt Liebowitz Covering the latest VMware vSphere software, an essential book aimed at solving vSphere performance problems before they happen VMware vSphere is the industry's most widely deployed virtualization solution. However, if you improperly deploy vSphere, performance problems occur. Aimed at VMware administrators and engineers and written by a team of VMware experts, this resource provides guidance on common CPU, memory, storage, and network-related problems. Plus, step-by-step instructions walk you through techniques for solving problems and shed light on possible causes behind the problems. Divulges troubleshooting methodologies, performance monitoring tools, and techniques and tools for isolating performance problems Details the necessary steps for handling CPU, memory, storage, and network-related problems Offers understanding on the interactions between VMware vSphere and CPU, memory, storage, and network VMware vSphere Performance is the resource you need to diagnose and handle VMware vSphere performance problems, and avoid them in the future.

Monitoring mit Zabbix: Das Praxishandbuch 2016-03-08 Thorsten Kramm Die Anzahl der IT-Systeme wächst stetig. Täglich kommen neue Server und Geräte in unseren Netzwerken zum Einsatz. Doch die Anzahl der Personen, die diese Netzwerke betreuen, nimmt nicht im gleichen Maße zu. Damit Systeme und Netzwerke dennoch stabil bleiben, wird effektives und effizientes Monitoring zu einem entscheidenden Faktor. Eine Monitoring-Lösung,

die sich für komplexere Aufgaben in Unternehmen bewährt hat, bietet seit mehr als 10 Jahren das Open-Source-Monitoring-System Zabbix. In diesem Buch erfahren Sie alles über das Monitoring mit Zabbix. Neben den Grundlagen werden auch Spezialthemen wie Skalierung, Tuning und Erweiterung eines Zabbix-Servers erläutert. Mit zahlreichen konkreten Beispielen aus seiner beruflichen Praxis veranschaulicht der Autor die Arbeit mit Zabbix und bezieht dabei auch die wesentlichen Neuerungen der Version 3 ein. Der Inhalt richtet sich gleichermaßen an Anfänger und Profis. Wenn Sie noch nicht mit Zabbix überwachen, lernen Sie Schritt für Schritt die Einrichtung eines professionellen IT-Monitorings. Wenn Sie Zabbix bereits nutzen, gibt Ihnen das Buch viele Tipps aus der Praxis und sofort nutzbare Beispiele, wie Sie konkrete Anforderungen umsetzen.

Microsoft Azure Architect Technologies Study Companion 2020-12-17 Rahul Sahay Use this invaluable study companion and hands-on guide to help you prepare for the AZ-300 and AZ-303 certification exam and get well on your way to becoming an Azure Solutions Architect. The book starts with an overview of public, private, and hybrid clouds and then goes into configuration of virtual machines. Azure Resource Manager (ARM) and VM encryption are discussed along with Azure Monitor. You will learn how to work with Azure recommendations and analyze your resource configuration. Storage solutions, connecting to networks, and Azure Active Directory are discussed in depth, with examples. You will be able to migrate servers to Azure and demonstrate server-less computing, load balancing, and app services in Azure. You also will learn about Service Fabric, Azure Kubernetes services, and data security in Azure. Cosmos DB and Relational DB are covered and you will know how to connect to cloud databases using SQL Server Management Studio (SSMS). The book presents exercises, practice questions, and Azure architecture best practices. What Will You Learn Be able to speak with customers, understand their infrastructure, and provide a blueprint to migrate their framework to Azure Go beyond moving on-premise frameworks to Azure and design solutions on Azure from the start Know Azure architecture best practices to optimize Azure deployments Complete practice exercises to prepare for exam lab assignments Take a mock exam for practice Who This Book Is For Azure developers, Azure Solution Architects, and those aspiring to fill these roles, who possess some familiarity with cloud computing

Mastering OpenStack 2017-04-26 Omar Khedher Discover your complete guide to designing, deploying, and managing OpenStack-based clouds in mid-to-large IT infrastructures with best practices, expert understanding, and more About This Book Design and deploy an OpenStack-based cloud in your mid-to-large IT infrastructure using automation tools and best practices Keep yourself up-to-date with valuable insights into OpenStack components and new services in the latest OpenStack release Discover how the new features in the latest OpenStack release can help your enterprise and infrastructure Who This Book Is For This book is for system administrators, cloud engineers, and system architects who would like to deploy an OpenStack-based cloud in a mid-to-large IT infrastructure. This book requires a moderate level of system administration and familiarity with cloud concepts. What You Will Learn Explore the main architecture design of OpenStack components and core-by-core services, and how they work together Design different high availability scenarios and plan for a no-single-point-of-failure environment Set up a multinode environment in production using orchestration tools Boost OpenStack's performance with advanced configuration Delve into various hypervisors and container technology supported by OpenStack Get familiar with deployment methods and discover use cases in a real production environment Adopt the DevOps style of automation while deploying and operating in an OpenStack environment Monitor the cloud infrastructure and make decisions on maintenance and performance improvement In Detail In this second edition, you will get to grips with the latest features of OpenStack. Starting with an overview of the OpenStack architecture, you'll see how to adopt the DevOps style of automation while deploying and operating in an OpenStack environment. We'll show you how to create your own OpenStack private cloud. Then you'll learn about various hypervisors and container technology

supported by OpenStack. You'll get an understanding about the segregation of compute nodes based on reliability and availability needs. We'll cover various storage types in OpenStack and advanced networking aspects such as SDN and NFV. Next, you'll understand the OpenStack infrastructure from a cloud user point of view. Moving on, you'll develop troubleshooting skills, and get a comprehensive understanding of services such as high availability and failover in OpenStack. Finally, you will gain experience of running a centralized logging server and monitoring OpenStack services. The book will show you how to carry out performance tuning based on OpenStack service logs. You will be able to master OpenStack benchmarking and performance tuning. By the end of the book, you'll be ready to take steps to deploy and manage an OpenStack cloud with the latest open source technologies. Style and approach This book will help you understand the flexibility of OpenStack by showcasing integration of several out-of-the-box solutions in order to build a large-scale cloud environment.. It will also cover detailed discussions on the various design and deployment strategies for implementing a fault-tolerant and highly available cloud infrastructure.

The Apache Ignite Book 2019-02-25 Michael Zheludkov Apache Ignite is one of the most widely used open source memory-centric distributed, caching, and processing platform. This allows the users to use the platform as an in-memory computing framework or a full functional persistence data stores with SQL and ACID transaction support. On the other hand, Apache Ignite can be used for accelerating existing Relational and NoSQL databases, processing events & streaming data or developing Microservices in fault-tolerant fashion. This book addressed anyone interested in learning in-memory computing and distributed database. This book intends to provide someone with little to no experience of Apache Ignite with an opportunity to learn how to use this platform effectively from scratch taking a practical hands-on approach to learning. Please see the table of contents for more details.

Advances in Information and Communication 2020-02-24 Kohei Arai This book presents high-quality research on the concepts and developments in the field of information and communication technologies, and their applications. It features 134 rigorously selected papers (including 10 poster papers) from the Future of Information and Communication Conference 2020 (FICC 2020), held in San Francisco, USA, from March 5 to 6, 2020, addressing state-of-the-art intelligent methods and techniques for solving real-world problems along with a vision of future research. Discussing various aspects of communication, data science, ambient intelligence, networking, computing, security and Internet of Things, the book offers researchers, scientists, industrial engineers and students valuable insights into the current research and next generation information science and communication technologies.

Economics of Grids, Clouds, Systems, and Services 2016-07-19 Jörn Altmann This book constitutes the refereed proceedings of the 12th International Conference on Economics of Grids, Clouds, Systems, and Services, GECON 2015, held in Cluj-Napoca, Romania, in September 2015. The 11 revised full papers and 10 paper-in-progress presented were carefully reviewed and selected from 38 submissions. The presentation sessions that have been set up are: resource allocation, service selection in clouds, energy conservation and smart grids, applications: tools and protocols, community networks and legal and socio-economic aspects.

Datadog Cloud Monitoring Quick Start Guide 2021-06-25 Thomas Kurian Theakanath A comprehensive guide to rolling out Datadog to monitor infrastructure and applications running in both cloud and datacenter environments Key Features Learn Datadog to proactively monitor your

infrastructure and cloud services Use Datadog as a platform for aggregating monitoring efforts in your organization Leverage Datadog's alerting service to implement on-call and site reliability engineering (SRE) processes Book Description Datadog is an essential cloud monitoring and operational analytics tool which enables the monitoring of servers, virtual machines, containers, databases, third-party tools, and application services. IT and DevOps teams can easily leverage Datadog to monitor infrastructure and cloud services, and this book will show you how. The book starts by describing basic monitoring concepts and types of monitoring that are rolled out in a large-scale IT production engineering environment. Moving on, the book covers how standard monitoring features are implemented on the Datadog platform and how they can be rolled out in a real-world production environment. As you advance, you'll discover how Datadog is integrated with popular software components that are used to build cloud platforms. The book also provides details on how to use monitoring standards such as Java Management Extensions (JMX) and StatsD to extend the Datadog platform. Finally, you'll get to grips with monitoring fundamentals, learn how monitoring can be rolled out using Datadog proactively, and find out how to extend and customize the Datadog platform. By the end of this Datadog book, you will have gained the skills needed to monitor your cloud infrastructure and the software applications running on it using Datadog. What you will learn Understand monitoring fundamentals, including metrics, monitors, alerts, and thresholds Implement core monitoring requirements using Datadog features Explore Datadog's integration with cloud platforms and tools Extend Datadog using custom scripting and standards such as JMX and StatsD Discover how proactive monitoring can be rolled out using various Datadog features Understand how Datadog can be used to monitor microservices in both Docker and Kubernetes environments Get to grips with advanced Datadog features such as APM and Security Monitoring Who this book is for This book is for DevOps engineers, site reliability engineers (SREs), IT Production engineers, software developers and architects, cloud engineers, system administrators, and anyone looking to monitor and visualize their infrastructure and applications with Datadog. Basic working knowledge of cloud and infrastructure is useful. Working experience of Linux distribution and some scripting knowledge is required to fully take advantage of the material provided in the book.

Microsoft Operations Management Suite Cookbook 2018-04-20 Chiyo Odika Manage on-premises and cloud IT assets from one console Key Features Empower yourself with practical recipes to collect and analyze operational insights on Windows and Linux servers in your on premises datacenters and in any public cloud environments such as Azure and AWS. Build capabilities through practical tasks and techniques to collect and analyze machine data Address business challenges and discover means to accommodate workloads and instances in a low cost manner Book Description Microsoft Operations Management Suite Cookbook begins with an overview of how to hit the ground running with OMS insights and analytics. Next, you will learn to search and analyze data to retrieve actionable insights, review alert generation from the analyzed data, and use basic and advanced Log search queries in Azure Log Analytics. Following this, you will explore some other management solutions that provide functionality related to workload assessment, application dependency mapping, automation and configuration management, and security and compliance. You will also become well versed with the data protection and recovery functionalities of OMS Protection and Recovery, and learn how to use Azure Automation components and features in OMS. Finally you will learn how to evaluate key considerations for using the Security and Audit solution, and working with Security and Compliance in OMS. By the end of the book, you will be able to configure and utilize solution offerings in OMS, understand OMS workflows, how to unlock insights, integrate capabilities into new or existing workflows, manage configurations, and automate tasks and processes. What you will learn Understand the important architectural considerations and strategies for OMS Use advanced search query commands and strategies to derive insights from indexed data Make use of alerting in OMS such as alert actions, and available options for the entire lifecycle of the

alert Discover some practical tips for monitoring Azure container service containers and clusters using OMS Review and use the backup options available through the Azure backup service, as well as data recovery options available through Azure Site Recovery (ASR) Understand how to advance important DevOps concepts within your IT organization Learn how to manage configurations and automate process Who this book is for This book is written for the IT professional and general reader who is interested in technology themes such as DevOps, Big Data Analytics, and digital transformation concepts. Azure and other cloud platform administrators, cloud professionals, and technology analysts who would like to solve everyday problems quickly and efficiently with hybrid management tools available in the Microsoft product ecosystem will derive much value from this book. Prior experience with OMS 2012 would be helpful.

Mastering Zabbix 2015-09-15 Andrea Dalle Vacche 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.

Economics of Grids, Clouds, Systems, and Services 2017-10-14 Congduc Pham This book constitutes the refereed proceedings of the 14th International Conference on Economics of Grids, Clouds, Systems, and Services, GECON 2017, held in Biarritz, France, in September 2017. The 10 full papers and 10 short papers presented together with 3 invited talks were carefully reviewed and selected from 38 submissions. This volume of the

GECON 2017 proceedings has been structured in sections following the sessions that comprised the conference program: Pricing in Cloud and Quality of Service, Work in Progress on Service Management, Work in Progress on Business models and Community Cooperation, Work in Progress on Energy Efficiency and Resource Management, Resource Management, Edge Computing, Cloud Federation; and Work in Progress on Service Selection and Coordination.

Mastering Zabbix - Second Edition 2015-09-15 Andrea Dalle Vacche 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.
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Cloud Computing Bible 2010-12-10 Barrie Sosinsky The complete reference guide to the hot technology of cloud computing Its potential for lowering IT costs makes cloud computing a major force for both IT vendors and users; it is expected to gain momentum rapidly with the launch of Office Web Apps later this year. Because cloud computing involves various technologies, protocols, platforms, and infrastructure elements, this comprehensive reference is just what you need if you'll be using or implementing cloud computing. Cloud computing offers significant cost savings by eliminating upfront expenses for hardware and software; its growing popularity is expected to skyrocket when Microsoft introduces Office Web Apps This comprehensive guide helps define what cloud computing is and thoroughly explores the technologies, protocols, platforms and infrastructure that

make it so desirable Covers mobile cloud computing, a significant area due to ever-increasing cell phone and smartphone use Focuses on the platforms and technologies essential to cloud computing Anyone involved with planning, implementing, using, or maintaining a cloud computing project will rely on the information in Cloud Computing Bible.

Introducing Disaster Recovery with Microsoft Azure 2020-06-23 Bapi Chakraborty Explore and learn the key building blocks of Microsoft Azure services and tools for implementing a disaster-recovery solution of any on-premises or cloud-based application. In this book, you will go through various aspects of planning, designing, and configuring a robust recovery solution on Azure. Introducing Disaster Recovery with Microsoft Azure starts by explaining the disaster-recovery landscape and how Azure disaster recovery is different from the traditional approach. You will learn how to leverage Azure site recovery and various Azure-based services to design and implement a recovery solution and much more. Moving forward, you will design and implement various scenarios such as on-premises to Azure, Azure to Azure, and on-premises to on-premises disaster recovery. You will also learn common considerations and technicalities of implementing recovery solutions for various multi-tier, monolithic, and modern micro-services enterprise applications. Finally, you will go through real-life examples, scenarios, and exercises. After reading this book, you will be able to design and implement disaster recovery on Azure in different scenarios. You will also look at a few real-world scenarios that will provide more practical insights. What You Will Learn Discover the fundamental building blocks of disaster recovery on Azure Examine various application-specific considerations for disaster recovery Leverage various PaaS capabilities to achieve maximum benefit Design and implement a multi-regional Azure to Azure disaster recovery plan Who This Book Is For Consultants, architects, and Azure administrators.

Advanced Concepts for Renewable Energy Supply of Data Centres 2022-09-01 Jaume Salom The rapid increase of cloud computing, high performance computing (HPC) and the vast growth in Internet and Social Media use have aroused the interest in energy consumption and the carbon footprint of Data Centres. Data Centres primarily contain electronic equipment used for data processing (servers), data storage (storage equipment), and communications (network equipment). Collectively, this equipment processes, stores, and transmits digital information and is known as information technology (IT) equipment. Advanced Concepts for Renewable Energy Supply of Data Centres introduces a number of technical solutions for the supply of power and cooling energy into Data Centres with enhanced utilisation of renewable energy sources in order to achieve low energy Data Centres. Because of the high energy density nature of these unique infrastructures, it is essential to implement energy efficiency measures and reduce consumption before introducing any renewable energy source. A holistic approach is used with the objective of integrating many technical solutions such as management of the IT (Information Technology) load, efficient electrical supply to the IT systems, Low-Ex air-conditioning systems, interaction with district heating and cooling networks, re-use of heat, free cooling (air, seawater, groundwater), optimal use of heat and cold storage, electrical storage and integration in smart grids. This book is therefore a catalogue of advanced technical concepts that could be integrated into Data Centres portfolio in order to increase the overall efficiency and the share of renewable energies in power and cooling supply. Based on dynamic energy models implemented in TRNSYS some concepts are deeply evaluated through yearly simulations. The results of the simulation are illustrated with Sankey charts, where the energy flows per year within the subsystems of each concept for a selected scenario are shown, and graphs showing the results of parametric analysis. A set of environmental metrics (as the non-renewable primary energy) and financial metrics (CAPEX and OPEX) as well of energy efficiency metrics like the well-known PUE, are described and used to evaluate the different technical concepts.

Proxmox Cookbook 2015-08-28 Wasim Ahmed Over 60 hands-on recipes to perform server virtualization and manage virtualized server solutions with Proxmox About This Book Learn the process of installing, configuring, and managing Proxmox clusters Explore ways of integrating various storage systems with Proxmox Step-by-step and easy-to-learn instructions to build virtual environments of any size using Proxmox Who This Book Is For This book is perfect for system administrators who want to learn to implement and administer Proxmox VE environments. Since this book will not cover the basics of Proxmox, a basic understanding of virtualization and networking with Proxmox VE is required. What You Will Learn Install and configure an enterprise grade, cluster-based virtual environment using Proxmox Manage a cluster with Graphical User Interface using datacenter, node, KVM, and OpenVZ menus among others Learn different ways of configuring your network and clusters to create complex cloud services Configure and manage the built-in Proxmox firewall to protect your virtual environment Integrate storage systems such as Ceph, Sheepdog, and ZFS for virtual machine management to suit your business needs Backup and restore your data via stop suspend, and snapshot modes Upgrade a Proxmox node with new releases and apply update patches through GUI or CLI Monitor the resources and virtual machines to maintain performance and uptime Explore commands used for Proxmox and Ceph cluster through CLI In Detail Proxmox VE goes head to head with big virtualization platforms without bearing the overheads of high costs and vendor lock-ins. Rock solid stability and extremely easy manageability gives Proxmox VE an edge in the world of virtualization. The Proxmox cluster file system (pmxcfs) is designed uniquely for storage of configuration files with high security and reliability. Its simplicity and robustness make it easy for system administrators to manage their systems efficiently. Proxmox VE's intuitive interface, high availability, and unique central management system puts it on par with the world's best virtualization platforms. Its simplicity and high quality of service is what makes it the foremost choice for most system administrators. Starting with a step-by-step installation of Proxmox nodes along with an illustrated tour of Proxmox graphical user interface where you will spend most of your time managing a cluster, this book will get you up and running with the mechanisms of Proxmox VE. Various entities such as Cluster, Storage, and Firewall are also covered in an easy to understand format. You will then explore various backup solutions and restore mechanisms, thus learning to keep your applications and servers safe. Next, you will see how to upgrade a Proxmox node with a new release and apply update patches through GUI or CLI. Monitoring resources and virtual machines is required on an enterprise level, to maintain performance and uptime; to achieve this, we learn how to monitor host machine resources and troubleshoot common issues in the setup. Finally, we will walk through some advanced configurations for VM followed by a list of commands used for Proxmox and Ceph cluster through CLI. With this focused and detailed guide you will learn to work your way around with Proxmox VE quickly and add to your skillset. Style and approach This book is an inclusive and extensive handbook. It takes a pragmatic approach to complement your system admin skills and accomplish tasks within the Proxmox environment. It consists of illustrations and code-files to help you work with the data as you go from one recipe to the other.

Monitoring Docker 2015-12-15 Russ McKendrick Monitor your Docker containers and their apps using various native and third-party tools with the help of this exclusive guide! About This Book Get the only book that covers multiple methods to monitoring Docker Containers -your one-stop solution to all your Docker monitoring needs Learn how to implement third-party tools such as Datalog, cAdvisor, and more with this example-rich, hands-on guide Learn how to efficiently monitor Docker containers and get an edge over other administrators while maintaining apps on these containers Who This Book Is For This book is for DevOps engineers and system administrators who manage Docker containers and want to better manage these containers using expert techniques and methods and better maintain applications built on Docker. What You Will Learn Discover the tools built into Docker to gain an insight into your containers' performance Augment Docker's built-in tools with modern tools such as cAdvisor from Google, SysDig

by Draios, and Soundcloud's Prometheus Integrate the monitoring of your containers with more traditional monitoring solutions such as Zabbix Take advantage of the various SaaS offerings from third parties to move monitoring away from your local infrastructure and into the cloud Discover the various ways to ship your applications' logs from the container to a central logging service Get the most out of your application and resources with the right implementation of your monitoring method In Detail This book will show you how monitoring containers and keeping a keen eye on the working of applications helps improve the overall performance of the applications that run on Docker. With the increased adoption of Docker containers, the need to monitor which containers are running, what resources they are consuming, and how these factors affect the overall performance of the system has become the need of the moment. This book covers monitoring containers using Docker's native monitoring functions, various plugins, as well as third-party tools that help in monitoring. We'll start with how to obtain detailed stats for active containers, resources consumed, and container behavior. We also show you how to use these stats to improve the overall performance of the system. Next, you will learn how to use SysDig to both view your containers performance metrics in real time and record sessions to query later. By the end of this book, you will have a complete knowledge of how to implement monitoring for your containerized applications and make the most of the metrics you are collecting Style and approach This is an easy-to-follow guide with plenty of hands-on examples that can be executed both on your local machine and externally hosted services.

Electronic Government 2019-08-19 Ida Lindgren This book constitutes the proceedings of the 18th IFIP WG 8.5 International Conference on Electronic Government, EGOV 2019, held in San Benedetto del Tronto, Italy, in September 2019, in conjunction with the IFIP WG 8.5 IFIP International Conference on Electronic Participation (ePart 2019) and the International Conference for E-Democracy and Open Government Conference (CeDEM 2019). The 27 revised full papers presented were carefully reviewed and selected from 64 submissions. The papers are clustered under the following topical sections: E-Government Foundations; E-Government Services and Open Government; Open Data: Social and Technical Aspects; AI, Data Analytics and Automated Decision Making; and Smart Cities.

Communication, Networks and Computing 2018-10-10 Shekhar Verma This book (CCIS 839) constitutes the refereed proceedings of the First International Conference on Communication, Networks and Computings, CNC 2018, held in Gwalior, India, in March 2018. The 70 full papers were carefully reviewed and selected from 182 submissions. The papers are organized in topical sections on wired and wireless communication systems, high dimensional data representation and processing, networks and information security, computing techniques for efficient networks design, electronic circuits for communication system.

Zabbix Cookbook 2015-03-20 Patrik Uytterhoeven 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.

Zabbix 4 Network Monitoring 2019-01-21 Patrik Uytterhoeven Gather detailed statistics and deploy impressive business solutions with Zabbix 4.0 Key Features Experience the full impact of Zabbix 4.0, a useful and increasingly popular tool Enhance your network's performance and manage hosts and systems A step-by-step guide to smarter network monitoring Book 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.

Red Hat RHCSA 8 Cert Guide 2019-11-04 Sander van Vugt This is the eBook version of the print title. Learn, prepare, and practice for Red Hat RHCSA 8 (EX200) exam success with this Cert Guide from Pearson IT Certification, a leader in IT Certification learning. Master Red Hat RHCSA 8 EX200 exam topics Assess your knowledge with chapter-ending quizzes Review key concepts with exam-preparation tasks Practice with four unique practice tests Learn from two full hours of video training from the author's Red Hat Certified System Administrator (RHCSA) Complete Video Course, 3rd Edition. Red Hat RHCSA 8 Cert Guide is a best-of-breed exam study guide. Leading Linux consultant, author, and instructor Sander van Vugt shares preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. Material is presented in a concise manner, focusing on increasing your understanding and retention of exam topics. The book presents you with an organized test-preparation routine through the use of proven series elements and techniques. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly. Review questions help you assess your knowledge, and a final preparation chapter guides you through tools and resources to help you craft your final study plan. Well regarded for its level of detail, assessment features, and challenging review questions and exercises, this study guide helps you master the concepts and techniques that will enable you to succeed on the exam the first time, including

- Basic system management: Installation, tools, file management, text files, RHEL8 connections, user/group management, permissions, and network configuration
- Operating running systems: Managing software, processes, storage, and advanced storage; working with systemd; scheduling tasks; and configuring logging
- Advanced system administration: Managing the kernel and boot procedures, essential troubleshooting, bash shell scripting
- Managing network services: Configuring SSH, firewalls, and time services; managing Apache HTTP services and SE Linux; and accessing network storage

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