

Nagios System And Network Monitoring

Practical Packet Analysis
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HUDSON DOWNS

Practical Packet Analysis Packt Publishing Ltd
 Over 90 hands-on recipes that will employ Nagios Core as the anchor of monitoring on your network About This Book Master the advanced configuration techniques of Nagios Core to model your network better by improving hosts, services, and contacts Filter and improve the notifications that Nagios Core sends in response to failed checks, which can greatly assist you when diagnosing problems Pull Nagios Core's data into a database to write clever custom reports of your own devise Who This Book Is For If you are a network or system administrator and are looking for instructions and examples on working with Nagios Core, then this book is for you. Some basic shell command-line experience is required, and some knowledge of scripting would be helpful when we discuss how plugins work. What You Will Learn Manage the configuration of Nagios Core with advanced techniques to achieve fine detail in your checks Find, install, and even write your own check plugins Filter notifications to send them to the right people or programs at the right time Work around difficult network accessibility issues and delegate checks to other machines Tweak a Nagios Core server to achieve both high performance and redundancy in case of disaster Process the results of checks performed by other machines to monitor backups and similar processes Extend Nagios Core to allow advanced scripting, reporting, and network visualization behavior In Detail Nagios Core is an open source monitoring framework suitable for any network that ensures both internal and customer-facing services are running correctly and manages notification and reporting behavior to diagnose and fix outages promptly. It allows very fine configuration of exactly when, where, what, and how to check network services to meet both the uptime goals of your network and systems team and the needs of your users. This book shows system and network administrators how to use Nagios Core to its fullest as a monitoring framework for checks on any kind of network services, from the smallest home network to much larger production multi-site services. You will discover that Nagios Core is capable of doing much more than pinging a host or to see whether websites respond. The recipes in this book will demonstrate how to leverage Nagios Core's advanced configuration, scripting hooks, reports, data retrieval, and extensibility to integrate it with your existing systems, and to make it the rock-solid center of your network monitoring world. Style and approach Each chapter contains a set of step-by-step recipes to perform an example of a commonly performed task related to network administration. The book begins by focusing closely on the properties and configuration of Nagios Core itself, and gradually moves on to

other pieces of software that can support, manage, and extend the system.

System and Network Monitoring. - Title from Title Screen. - Includes Index Tebbo

This book describes scientific results obtained by project partners and outcomes of research and development activities carried out within the Polish Infrastructure for Information Science Support in the European Research Space PL-Grid (PL-Grid 2011).

[Volume 1: DevOps and other Best Practices for Enterprise IT](#) "O'Reilly Media, Inc."

Network monitoring can be a complex task to implement and maintain in your IT infrastructure. Nagios, an open-source host, service and network monitoring program can help you streamline your network monitoring tasks and reduce the cost of operation. With this shortcut guide, we'll go over how Nagios fits in the overall network monitoring puzzle. We'll also cover installation and basic usage. Finally, we'll show you how to extend Nagios with other tools to extend functionality.

[From Asterisk to Zebra with Easy-to-Use Recipes](#) Apress
 Get up to speed with Prometheus, the metrics-based monitoring system used by tens of thousands of organizations in production. This practical guide provides application developers, sysadmins, and DevOps practitioners with a hands-on introduction to the most important aspects of Prometheus, including dashboarding and alerting, direct code instrumentation, and metric collection from third-party systems with exporters. This open source system has gained popularity over the past few years for good reason. With its simple yet powerful data model and query language, Prometheus does one thing, and it does it well. Author and Prometheus developer Brian Brazil guides you through Prometheus setup, the Node exporter, and the Alertmanager, then demonstrates how to use them for application and infrastructure monitoring. Know where and how much to apply instrumentation to your application code Identify metrics with labels using unique key-value pairs Get an introduction to Grafana, a popular tool for building dashboards Learn how to use the Node Exporter to monitor your infrastructure Use service discovery to provide different views of your machines and services Use Prometheus with Kubernetes and examine exporters you can use with containers Convert data from other monitoring systems into the Prometheus format
[Using Wireshark to Solve Real-world Network Problems](#) Packt Publishing Ltd

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.

[Cisco Asa Firewall Fundamentals](#) Packt Publishing Ltd
 The future for Nagios in the enterprise is certainly bright! Nagios 3 Enterprise Network Monitoring can help you harness the full power of Nagios in your organization. Nagios 3 contains many significant new features and updates, and this book details them all for you. Once up and running, you'll see how a number of useful add-ons and enhancements for Nagios can extend the functionality of Nagios throughout your organization. And, if you want to learn how to write your own plugins...this is the book for

you! In these pages you'll find a cookbook-style chapter full of useful plugins that monitor a variety of devices, from HTTP-based applications to CPU utilization to LDAP servers and more. Complete Case Study Demonstrates how to Deploy Nagios Globally in an Enterprise Network Monitor Third Party Hardware Devices with Nagios

Learning Nagios 3.0 Springer

Real-world configurations and supporting materials enable you to deploy Nagios and integrate other tools on a step-by-step basis. Simplifies deployment and installation by providing examples of real-world monitoring situations and explains how to configure, architect, and deploy EM solutions to address these situations. Shows how to create your own Nagios plug-ins, to monitor devices for which Nagios doesn't provide plug-ins

Optimization, Backups, and Replication "O'Reilly Media, Inc."

Annotation For system administrators, network engineers, and security analysts, it is essential to keep a track of network traffic. Zenoss Core is an enterprise-level systems and network monitoring solution that can be as complex as you need it to be. And while just about anyone can install it, turn it on, and monitor "something", Zenoss Core has a complicated interface packed with features. The interface has been drastically improved over version 2, but it's still not the type of software you can use intuitively _ in other words, a bit of guidance is in order. The role of this book is to serve as your Zenoss Core tour guide and save you hours, days, maybe weeks of time. This book will show you how to work with Zenoss and effectively adapt Zenoss for System and Network monitoring. Starting with the Zenoss basics, it requires no existing knowledge of systems management, and whether or not you can recite MIB trees and OIDs from memory is irrelevant. Advanced users will be able to identify ways in which they can customize the system to do more, while less advanced users will appreciate the ease of use Zenoss provides. The book contains step-by-step examples to demonstrate Zenoss Core's capabilities. The best approach to using this book is to sit down with Zenoss and apply the examples found in these pages to your system. The book covers the monitoring basics: adding devices, monitoring for availability and performance, processing events, and reviewing reports. It also dives into more advanced customizations, such as custom device reports, external event handling (for example, syslog server, zensendevent, and Windows Event Logs), custom monitoring templates using SNMP data sources, along with Nagios, and Cacti plugins. An example of a Nagios-style plugin is included and the book shows you where to get an example of a Cacti-compatible plugin for use as a command data source in monitoring templates. In Zenoss Core, ZenPacks are modules that add monitoring functionality. Using the Nagios plugin example, you will learn how to create, package, and distribute a ZenPack. You also learn how to explore Zenoss Core's data model using zendmd so that you can more effectively write event transformations and custom device reports.

Implement Zenoss core and fit it into your security management environment using this easy-to-understand tutorial guide.

Proven Methods for Incident Detection on Enterprise Networks Packt Publishing Ltd

Do you have a nagging feeling that your monitoring needs improvement, but you just aren't sure where to start or how to do it? Are you plagued by constant, meaningless alerts? Does your monitoring system routinely miss real problems? This is the book for you. Mike Julian lays out a practical approach to designing and implementing effective monitoring—from your enterprise application down to the hardware in a datacenter, and everything between. Practical Monitoring provides you with straightforward strategies and tactics for designing and implementing a strong monitoring foundation for your company. This book takes a unique vendor-neutral approach to monitoring. Rather than discuss how to implement specific tools, Mike teaches the principles and underlying mechanics behind monitoring so you can implement the lessons in any tool. Practical Monitoring covers essential topics including: Monitoring antipatterns Principles of monitoring design How to build an effective on-call rotation Getting metrics and logs out of your application

Linux Networking Cookbook Addison-Wesley Professional

A comprehensive configuration guide to monitor and maintain your network and systems

Scientific and Technical Achievements Createspace Independent Publishing Platform

Provides information on how to use Pro Nagios 3.0 to monitor and report on servers, network devices, and applications.

2020 International Conference on Data Processing Techniques and Applications for Cyber-Physical Systems Elsevier

This book covers cutting-edge and advanced research on data processing techniques and applications for cyber-physical systems, gathering the proceedings of the International Conference on Data Processing Techniques and Applications for Cyber-Physical Systems (DPTA 2020), held in Laibin City, Guangxi Province, China, on December 11–12, 2020. It examines a wide range of topics, including distributed processing for sensor data in CPS networks; approximate reasoning and pattern recognition for CPS networks; data platforms for efficient integration with CPS networks; machine learning algorithms for CPS networks; and data security and privacy in CPS networks. Outlining promising future research directions, the book offers a valuable resource for students, researchers, and professionals alike, while also providing a useful reference guide for newcomers to the field.

Nagios, 2nd Edition Packt Publishing Ltd

Monitor your network with ease!

Network Monitoring with Nagios Nagios, 2nd Edition System and Network Monitoring

This book will introduce Nagios to readers who are interested in monitoring their systems. All the concepts in the book are explained in a simplified manner, presented in an easy-to-understand language with lots of tips, tricks, and illustrations. This book is great for system administrators interested in using Nagios to monitor their systems. It will also help professionals who have already worked with earlier versions of Nagios to understand the new features of Nagios 4 and provides usable solutions to real-life problems related to Nagios administration. To effectively use this book, system administration knowledge is required. If you want to create your own plug-ins, knowledge of scripting languages like Perl, shell and Python is expected.

Network Administrators Survival Guide Pearson Education

A hands-on and introductory guide to the art of modern application and infrastructure monitoring and metrics. We start small and then build on what you learn to scale out to multi-site, multi-tier applications. The book is written for both developers and sysadmins. We focus on building monitored and measurable applications. We also use tools that are designed to handle the challenges of managing Cloud, containerised and distributed applications and infrastructure. In the book we'll deliver: * An introduction to monitoring, metrics and measurement. * A scalable framework for monitoring hosts (including Docker and containers), services and applications built on top of the Riemann event stream processor. * Graphing and metric storage using Graphite and Grafana. * Logging with Logstash. * A framework for high quality and useful notifications * Techniques for developing and building monitorable applications * A capstone that puts all the pieces together to monitor a multi-tier application.

Nagios 3 Enterprise Network Monitoring No Starch Press

This soup-to-nuts collection of recipes covers everything you need to know to perform your job as a Linux network administrator, whether you're new to the job or have years of experience. With *Linux Networking Cookbook*, you'll dive straight into the gnarly hands-on work of building and maintaining a computer network. Running a network doesn't mean you have all the answers. Networking is a complex subject with reams of reference material that's difficult to keep straight, much less remember. If you want a book that lays out the steps for specific tasks, that clearly explains the commands and configurations, and does not tax your patience with endless ramblings and meanderings into theory and obscure RFCs, this is the book for you. You will find recipes for: Building a gateway, firewall, and wireless access point on a Linux network Building a VoIP server with Asterisk Secure remote administration with SSH Building secure VPNs with OpenVPN, and

a Linux PPTP VPN server Single sign-on with Samba for mixed Linux/Windows LANs Centralized network directory with OpenLDAP Network monitoring with Nagios or MRTG Getting acquainted with IPv6 Setting up hands-free networks installations of new systems Linux system administration via serial console And a lot more. Each recipe includes a clear, hands-on solution with tested code, plus a discussion on why it works. When you need to solve a network problem without delay, and don't have the time or patience to comb through reference books or the Web for answers, *Linux Networking Cookbook* gives you exactly what you need.

High Performance MySQL Prentice Hall Professional

This book describes open source tools commonly used in network administration. Open source tools are a popular choice for network administration because they are a good fit for many organizations. This volume brings together a collection of these tools in a single reference for the network administrator.

Effective Strategies for the Real World Springer Science & Business Media

Provides information on ways to use Wireshark to capture and analyze packets, covering such topics as building customized capture and display filters, graphing traffic patterns, and building statistics and reports.

Security Monitoring "O'Reilly Media, Inc."

A guide for MySQL administrators covers such topics as benchmarking, server performance, indexing, queries, hardware optimization, replication, scaling, cloud hosting, and backup and recovery.

Monitoring with Ganglia Prentice Hall

With 28 new chapters, the third edition of *The Practice of System and Network Administration* innovates yet again! Revised with thousands of updates and clarifications based on reader feedback, this new edition also incorporates DevOps strategies even for non-DevOps environments. Whether you use Linux, Unix, or Windows, this new edition describes the essential practices previously handed down only from mentor to protégé. This wonderfully lucid, often funny cornucopia of information introduces beginners to advanced frameworks valuable for their entire career, yet is structured to help even experts through difficult projects. Other books tell you what commands to type. This book teaches you the cross-platform strategies that are timeless! DevOps techniques: Apply DevOps principles to enterprise IT infrastructure, even in environments without developers Game-changing strategies: New ways to deliver results faster with less stress Fleet management: A comprehensive guide to managing your fleet of desktops, laptops, servers and mobile devices Service management: How to design, launch, upgrade and migrate services Measurable improvement: Assess your operational effectiveness; a forty-page, pain-free assessment system you can start using today to raise the quality of all services Design guides: Best practices for networks, data centers, email, storage, monitoring, backups and more Management skills: Organization design, communication, negotiation, ethics, hiring and firing, and more Have you ever had any of these problems? Have you been surprised to discover your backup tapes are blank? Ever spent a year launching a new service only to be told the users hate it? Do you have more incoming support requests than you can handle? Do you spend more time fixing problems than building the next awesome thing? Have you suffered from a botched migration of thousands of users to a new service? Does your company rely on a computer that, if it died, can't be rebuilt? Is your network a fragile mess that breaks any time you try to improve it? Is there a periodic "hell month" that happens twice a year? Twelve times a year? Do you find out about problems when your users call you to complain? Does your corporate "Change Review Board" terrify you? Does each division of your company have their own broken way of doing things? Do you fear that automation will replace you, or break more than it fixes? Are you underpaid and overworked? No vague "management speak" or empty platitudes. This comprehensive guide provides real solutions that prevent these problems and more!

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