

## Building A Monitoring Infrastructure With Nagios

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Everybody believes that good and cheap infrastructure is a myth and doesn't work in real life. Autoscaling, infrastructure as code, Kubernetes, monitoring and logging — this all sounds very expensive. But what about a startup that can't afford expensive infrastructure? In this article, we will consider two examples of how to build meaningful infrastructure on [...]

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Building a Monitoring Infrastructure with Nagios 1st Edition by David Josephsen and Publisher Prentice Hall PTG. Save up to 80% by choosing the eTextbook option for ISBN: 9780132704526, 0132704528. The print version of this textbook is ISBN: 9780132236935, 0132236931.

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**Building A Monitoring Infrastructure With Nagios**

Worldsensing is a pioneer in IoT wireless monitoring. Through Loadsensing , its leading wireless monitoring system using long-range and low-power data nodes and software solutions, construction site operators are able to remotely monitor and manage all critical stages of a construction project, from demolition and excavation through to high-risk and highly complex jobs.

**Building A Monitoring Infrastructure With Nagios**

Build real-world, end-to-end network monitoring solutions with Nagios This is the definitive guide to building low-cost, enterprise-strength monitoring infrastructures with Nagios, the world's leading open source monitoring tool. Network monitoring specialist David Josephsen goes far beyond the basics, demonstrating how to use third-party tools and plug-ins to solve the specific problems in your unique environment. Josephsen introduces Nagios “from the ground up,” showing how to plan for success and leverage today's most valuable monitoring best practices. Then, using practical examples, real directives, and working code, Josephsen presents detailed monitoring solutions for Windows, Unix, Linux, network equipment, and other platforms and devices. You'll find thorough discussions of advanced topics, including the use of data visualization to solve complex monitoring problems. This is also the first Nagios book with comprehensive coverage of using Nagios Event Broker to transform and extend Nagios, Understand how Nagios works, in depth: the host and service parameters, scheduling, and notification Configure Nagios successfully: config files, templates, timeperiods, contacts, hosts, services, escalations, dependencies, and more Streamline deployment with scripting templates, automated discovery, and Nagios GUI tools Use plug-ins and tools to systematically monitor the devices and platforms you need to monitor, the way you need to monitor them Establish front-ends, visual dashboards, and management interfaces with MRTG and RRDTool Build new C-based Nagios Event Broker (NEB) modules, one step at a time Contains easy-to-understand code listings in Unix shell, C, and Perl If you're responsible for systems monitoring infrastructure in any organization, large or small, this book will help you achieve the results you want—right from the start. David Josephsen is Senior Systems Engineer at DBG, Inc., where he maintains a collection of geographically dispersed server farms. He has more than a decade of hands-on experience with Unix systems, routers, firewalls, and load balancers in support of complex, high-volume networks. Josephsen's certifications include CISP, CCNA, CCDA, and MCSE. His co-authored work on Bayesian spam filtering earned a Best Paper award at USENIX LISA 2004. He has been published in both Jlogin and Sysadmin magazines on topics relating to security, systems monitoring, and spam mitigation. Introduction CHAPTER 1 Best Practices CHAPTER 2 Theory of Operations CHAPTER 3 Installing Nagios CHAPTER 4 Configuring Nagios CHAPTER 5 Bootstrapping the Configs CHAPTER 6 Watching CHAPTER 7 Visualization CHAPTER 8 Nagios Event Broker Interface APPENDIX A Configure Options APPENDIX B nagios.cfg and cgi.cfg APPENDIX C Command-Line Options Index

The Fully Updated Guide to Enterprise Network Monitoring with Today's Nagios Platform and Tools This is the definitive guide to building cost-effective, enterprise-strength monitoring infrastructures with the latest commercial and open source versions of Nagios. World-renowned monitoring expert David Josephsen covers the entire monitoring software stack, treating Nagios as a specification language and foundation for building well designed monitoring systems that can scale to serve any organization. Drawing on his unsurpassed experience, Josephsen demonstrates best practices throughout and also reveals common mistakes, their practical depth you need to configure and run Nagios successfully, including a practical and thorough discussion of writing your own custom modules with the C-based Nagios Event Broker API. Extensively updated throughout, this edition adds an entirely new chapter on scaling Nagios for large, complex networks that rely heavily on virtualization and cloud services. Josephsen thoroughly introduces Nagios XI, the advanced new commercial version of Nagios and shows how to improve productivity with the latest third-party tools and plug-ins. Coverage includes: Learn how Nagios works, in depth Master focused, efficient techniques for configuring and deploying the latest versions of Nagios Solve real-world problems in monitoring Windows and UNIX systems, networking hardware, and environmental sensors Systematically scale and optimize Nagios for the largest enterprise environments Enhance your monitoring system with new tools including Check-MK, Op5 Merlin, and SFlow Integrate visualization via Ganglia, Graphite, and RRDTool Simplify and streamline all facets of system monitoring with Nagios XI Build powerful custom Nagios Event Broker (NEB) modules, step-by-step Learn about easy-to-understand code listings, fully updated for today's platforms No matter how complex your systems monitoring challenges are, this book will help you achieve the results you want—right from the start.

Explore real-world examples of issues with systems and find ways to resolve them using Amazon CloudWatch as a monitoring service Key Features: Become well-versed with monitoring fundamentals such as understanding the building blocks and architecture of networking Learn how to ensure your applications never face downtime Get hands-on with observing serverless applications and services Book Description: CloudWatch is Amazon's monitoring and observability service, designed to help those in the IT industry who are interested in optimizing resource utilization, visualizing operational health, and eventually increasing infrastructure performance. This book helps IT administrators, DevOps engineers, network engineers, and solutions architects to make optimum use of this cloud service for effective infrastructure productivity. You'll start with a brief introduction to monitoring and Amazon CloudWatch and its core functionalities. Next, you'll get to grips with CloudWatch features and their usability. Once the book has helped you develop your foundational knowledge of CloudWatch, you'll be able to build your practical skills in monitoring and alerting various Amazon Web Services, such as EC2, EBS, RDS, ECS, EKS, DynamoDB, AWS Lambda, and ELB, with the help of real-world use cases. As you progress, you'll also learn how to use CloudWatch to detect anomalous behavior, set alarms, visualize logs and metrics, define automated actions, and rapidly troubleshoot issues. Finally, the book will take you through monitoring AWS billing and costs. By the end of this book, you'll be capable of making decisions that enhance your infrastructure performance and maintain it at its peak. What You Will Learn: Understand the meaning and importance of monitoring Explore the components of a basic monitoring system Understand the functions of CloudWatch Logs, metrics, and dashboards Discover how to collect different types of metrics from EC2 Configure Amazon EventBridge to integrate with different AWS services Get up to speed with the fundamentals of observability and the AWS services used for observability Find out about the role Infrastructure As Code (IaC) plays in monitoring Gain insights into how billing works using different CloudWatch features Who this book is for: This book is for developers, DevOps engineers, site reliability engineers, or any IT individual with hands-on intermediate-level experience in networking, cloud computing, and infrastructure management. A beginner-level understanding of AWS and application monitoring will also be helpful to grasp the concepts covered in the book more effectively.

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.

Explore real-world examples of issues with systems and find ways to resolve them using Amazon CloudWatch as a monitoring service Key Features Become well-versed with monitoring fundamentals such as understanding the building blocks and architecture of networking Learn how to ensure your applications never face downtime Get hands-on with observing serverless applications and services Book Description CloudWatch is Amazon's monitoring and observability service, designed to help those in the IT industry who are interested in optimizing resource utilization, visualizing operational health, and eventually increasing infrastructure performance. This book helps IT administrators, DevOps engineers, network engineers, and solutions architects to make optimum use of this cloud service for effective infrastructure productivity. You'll start with a brief introduction to monitoring and Amazon CloudWatch and its core functionalities. Next, you'll get to grips with CloudWatch features and their usability. Once the book has helped you develop your foundational knowledge of CloudWatch, you'll be able to build your practical skills in monitoring and alerting various Amazon Web Services, such as EC2, EBS, RDS, ECS, EKS, DynamoDB, AWS Lambda, and ELB, with the help of real-world use cases. As you progress, you'll also learn how to use CloudWatch to detect anomalous behavior, set alarms, visualize logs and metrics, define automated actions, and rapidly troubleshoot issues. Finally, the book will take you through monitoring AWS billing and costs. By the end of this book, you'll be capable of making decisions that enhance your infrastructure performance and maintain it at its peak. What you will learn Understand the meaning and importance of monitoring Explore the components of a basic monitoring system Understand the functions of CloudWatch Logs, metrics, and dashboards Discover how to collect different types of metrics from EC2 Configure Amazon EventBridge to integrate with different AWS services Get up to speed with the fundamentals of observability and the AWS services used for observability Find out about the role Infrastructure As Code (IaC) plays in monitoring Gain insights into how billing works using different CloudWatch features Who this book is for This book is for developers, DevOps engineers, site reliability engineers, or any IT individual with hands-on intermediate-level experience in networking, cloud computing, and infrastructure management. A beginner-level understanding of AWS and application monitoring will also be helpful to grasp the concepts covered in the book more effectively.

Build Prometheus ecosystems with metric-centric visualization, alerting, and querying Key Features Integrate Prometheus with Alertmanager and Grafana for building a complete monitoring system Explore PromQL, Prometheus' functional query language, with easy-to-follow examples Learn how to deploy Prometheus components using Kubernetes and traditional instances Book Description Prometheus is an open source monitoring system. It provides a modern time series database, a robust query language, several metric visualization possibilities, and a reliable alerting solution for traditional and cloud-native infrastructure. This book covers the fundamental concepts of monitoring and explores Prometheus architecture, its data model, and how metric aggregation works. Multiple test environments are included to help explore different configuration scenarios, such as the use of various exporters and integrations. You'll delve into PromQL, supported by several examples, and then apply that knowledge to alerting and recording rules, as well as how to test them. After that, alert routing with Alertmanager and creating visualizations with Grafana is thoroughly covered. In addition, this book covers several service discovery mechanisms and even provides an example of how to create your own. Finally, you'll learn about Prometheus federation, cross-sharding aggregation, and also long-term storage with the help of Thanos. By the end of this book, you'll be able to implement and scale Prometheus as a full monitoring system on-premises, in cloud environments, in standalone instances, or using container orchestration with Kubernetes. What you will learn Grasp monitoring fundamentals and implement them using Prometheus Discover how to extract metrics from common infrastructure services Find out how to take full advantage of PromQL Design a highly available, resilient, and scalable Prometheus stack Explore the power of Kubernetes Prometheus Operator Understand concepts such as federation and cross-shard aggregation Unlock seamless global views and long-term retention in cloud-native apps with Thanos Who this book is for If you're a software developer, cloud administrator, site reliability engineer, DevOps enthusiast or system admin looking to set up a fail-safe monitoring and alerting system for sustaining infrastructure security and performance, this book is for you. Basic networking and infrastructure monitoring knowledge will help you understand the concepts covered in this book.

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.

**Building A Monitoring Infrastructure With Nagios**

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

Cloud native infrastructure is more than servers, network, and storage in the cloud—it is as much about operational hygiene as it is about elasticity and scalability. In this book, you'll learn practices, patterns, and requirements for creating infrastructure that meets your needs, capable of managing the full life cycle of cloud native applications. Justin Garrison and Kris Nova reveal hard-earned lessons on architecting infrastructure from companies such as Google, Amazon, and Netflix. They draw inspiration from projects adopted by the Cloud Native Computing Foundation (CNCF), and provide examples of patterns seen in existing tools such as Kubernetes. With this book, you will: Understand why cloud native infrastructure is necessary to effectively run cloud native applications Use guidelines to decide when—and if—your business should adopt cloud native practices Learn patterns for deploying and managing infrastructure and applications Design tests to prove that your infrastructure works as intended, even in a variety of edge cases Learn how to secure infrastructure with policy as code

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