

Nagios Documentation Linux

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

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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.

The job of Linux systems administrator is interrupt-driven and requires constant learning in byte-wise chunks. This book gives solutions to modern problems—even some you might not have heard of—such as scripting LDAP, making Mac clients play nice with Linux servers, and backup, security, and recovery scripts. Author Juliet Kemp

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takes a broad approach to scripting using Perl and bash, and all scripts work on Debian or Red Hat lineage distributions. Plus, she dispenses wisdom about time management, dealing with desperate colleagues, and how to avoid reinventing the wheel! Learn how to love LDAP scripting and NFS tuning Make Perl serve you: don't be enslaved by Perl Learn to change, craft, and feel empowered by recipes that change your life Learn and monitor your entire IT infrastructure to ensure your systems, applications, services, and business function effectively. About This Book Packed with tips, tricks and illustrations, the book will explain the configuration and monitoring concepts in a simplified manner Experience the scalability and flexibility of Nagios in a very practical and easy-to-understand approach. Unleash the power of Nagios Core and Nagios XI 5 to monitor and secure your infrastructure with ease. Who This Book Is For This book is targeted at System Administrators, both, who have no prior knowledge of Nagios as well as readers experienced with it. It not only covers the basics of Nagios but also the advanced features. What You Will Learn Set up and use the built-in Nagios web interface Upskill the additional interfaces available for Nagios to monitor your IT infrastructure Learn how to perform various checks using both, Nagios standard plugins and third-party plugins Explore the working of notifications and events in Nagios Familiarize yourself with SNMP and use it for monitoring devices such as routers, switches, modems and printers Discover how can be Nagios can be customized and tailored to your needs Get to know more about the enterprise version of Nagios, Nagios

XI In Detail Nagios, a powerful and widely used IT monitoring and management software for problem -solving. It detects problems related to your organizations infrastructure and helps in resolving the issue before it impacts the business. Following the success of the previous edition, this book will continue to help you monitor the status of network devices and also notify the system administrators of network problems. Starting with the fundamentals, the book will teach you how to install and configure Nagios for your environment. The book helps you learn how to end downtimes, adding comments and generating reports using the built-in Web interface of Nagios. Moving on, you will be introduced to the third-party web interfaces and applications for checking the status and report specific information. As you progress further in Learning Nagios, you will focus on the standard set of Nagios plugins and also focus on teach you how to efficiently manage large configurations and using templates. Once you are up to speed with this, you will get to know the concept and working of notifications and events in Nagios. The book will then uncover the concept of passive check and shows how to use NRDP (Nagios Remote Data Processor). The focus then shifts to how Nagios checks can be run on remote machines and SNMP (Simple Network Management Protocol) can be used from Nagios. Lastly, the book will demonstrate how to extend Nagios by creating custom check commands, custom ways of notifying users and showing how passive checks and NRDP can be used to integrate your solutions with Nagios. By the end of the book, you will be a competent system

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administrator who could monitor mid-size businesses or even large scale enterprises. Style and approach This will be a practical learning guide for system administrators which will teach them everything about Nagios along with implementing it for your organization and then ending with securing it.

This book constitutes the proceedings of the 10th International IFIP WG 8.9 Working Conference on Research and Practical Issues of Enterprise Information Systems, CONFENIS 2016, held in Vienna, Austria, in December 2016. The conference provided an international forum for the broader IFIP community to discuss the latest research findings in the area of EIS and specifically aimed at facilitating the exchange of ideas and advances on all aspects and developments of EIS. The 25 papers presented in this volume were carefully reviewed and selected from 63 submissions. They were organized in topical sections on: semantic concepts and open data; customer relationship management; security and privacy issues; advanced manufacturing and management aspects; business intelligence and big data; decision support in EIS; and EIS-practices.

This book is an excellent choice for any person working in the field of IT or studying for an IT or IT related degree. This book will guide you through all available choices of computer jobs, computer certifications and guide you through the interviewing process. For companies employing IT professionals, this book will provide them with a guide for the different computer jobs descriptions and what professional certifications are

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required from their employees. This book is the first of its kind to present detailed and valuable information about IT jobs and their corresponding certifications. We believe that all IT professionals, employment agencies and companies offering IT jobs would benefit from this book.

If you need to get started with OpenStack or want to learn more, then this book is your perfect companion. If you're comfortable with the Linux command line, you'll gain confidence in using OpenStack.

Due to the increasing need to solve complex problems, high-performance computing (HPC) is now one of the most fundamental infrastructures for scientific development in all disciplines, and it has progressed massively in recent years as a result. HPC facilitates the processing of big data, but the tremendous research challenges faced in recent years include: the scalability of computing performance for high velocity, high variety and high volume big data; deep learning with massive-scale datasets; big data programming paradigms on multi-core; GPU and hybrid distributed environments; and unstructured data processing with high-performance computing. This book presents 19 selected papers from the TopHPC2017 congress on Advances in High-Performance Computing and Big Data Analytics in the Exascale era, held in Tehran, Iran, in April 2017. The book is divided into 3 sections: State of the Art and Future Scenarios, Big Data Challenges, and HPC Challenges, and will be of interest to all those whose work involves the processing of Big Data and the use of HPC.

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Today's system administrators deal with a vast number of situations, operating systems, software packages, and problems. Those who are in the know have kept their copy of Linux Server Hacks close at hand to ease their burden. And while this helps, it's not enough: any sys admin knows there are many more hacks, cool tips, and ways of solving problems than can fit in a single volume (one that mere mortals can lift, that is). Which is why we created Linux Server Hacks, Volume Two, a second collection of incredibly useful tips and tricks for finding and using dozens of open source tools you can apply to solve your sys admin problems. The power and flexibility of Linux and Open Source means that there is an astounding amount of great software out there waiting to be applied to your sys admin problems -- if only you knew about it and had enough information to get started. Hence, Linux Server Hacks, Volume Two. This handy reference offers 100 completely new server management tips and techniques designed to improve your productivity and sharpen your administrative skills. Each hack represents a clever way to accomplish a specific task, saving you countless hours of searching for the right answer. No more sifting through man pages, HOWTO websites, or source code comments -- the only resource you need is right here. And you don't have to be a system administrator with hundreds of boxes to get something useful from this book as many of the hacks apply equally well to a single system or a home network. Compiled by experts, these hacks not only give you the step-by-step instructions necessary to implement the software, but they also provide the context to

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truly enable you to learn the technology. Topics include: Authentication Remote GUI connectivity Storage management File sharing and synchronizing resources Security/lockdown instruction Log files and monitoring Troubleshooting System rescue, recovery, and repair Whether they help you recover lost data, collect information from distributed clients, or synchronize administrative environments, the solutions found in Linux Server Hacks, Volume Two will simplify your life as a system administrator. Over 40 recipes to help you set up and configure Linux networks About This Book Move beyond the basics of how a Linux machine works and gain a better understanding of Linux networks and their configuration Impress your peers by setting up and configuring a Linux server and its various network elements like a pro This is a hands-on solution guide to building, maintaining, and securing a network using Linux Who This Book Is For This book is targeted at Linux systems administrators who have a good basic understanding and some prior experience of how a Linux machine operates, but want to better understand how various network services function, how to set them up, and how to secure them. You should be familiar with how to set up a Linux server and how to install additional software on them. What You Will Learn Route an IPv6 netblock to your local network Modify your named instance to support setting hostnames for your IPv6 addresses Use SSH for remote console access Configure NGINX with TLS Secure XMPP with TLS Leverage iptables6 to firewall your IPv6 traffic Configure Samba as an Active Directory compatible directory service In Detail Linux

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can be configured as a networked workstation, a DNS server, a mail server, a firewall, a gateway router, and many other things. These are all part of administration tasks, hence network administration is one of the main tasks of Linux system administration. By knowing how to configure system network interfaces in a reliable and optimal manner, Linux administrators can deploy and configure several network services including file, web, mail, and servers while working in large enterprise environments. Starting with a simple Linux router that passes traffic between two private networks, you will see how to enable NAT on the router in order to allow Internet access from the network, and will also enable DHCP on the network to ease configuration of client systems. You will then move on to configuring your own DNS server on your local network using bind9 and tying it into your DHCP server to allow automatic configuration of local hostnames. You will then future enable your network by setting up IPv6 via tunnel providers. Moving on, we'll configure Samba to centralize authentication for your network services; we will also configure Linux client to leverage it for authentication, and set up a RADIUS server that uses the directory server for authentication. Toward the end, you will have a network with a number of services running on it, and will implement monitoring in order to detect problems as they occur. Style and approach This book is packed with practical recipes and a task-based approach that will walk you through building, maintaining, and securing a computer network using Linux. The official "Ubuntu 11.04 Server Guide" contains information on how to install and

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configure various server applications on your Ubuntu system to fit your needs.
A comprehensive configuration guide to monitor and maintain your network and systems

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 This book constitutes thoroughly refereed post-conference proceedings of the workshops of the 17th International Conference on Parallel Computing, Euro-Par 2011, held in Bordeaux, France, in August 2011. The papers of these 12 workshops CCPI, CGWS, HeteroPar, HiBB, HPCVirt, HPPC, HPSS HPCF, PROPER, CCPI, and VHPC focus on promotion and advancement of all aspects of parallel and distributed computing.

Instant Nagios StarterPackt Publishing Ltd

Simple Network Management Protocol (SNMP) provides a "simple" set of operations that allows you to more easily monitor and manage network devices like routers, switches, servers, printers, and more. The information you can monitor with SNMP is wide-ranging--from standard items, like the amount of traffic flowing into an interface, to far more esoteric items, like the air temperature inside a router. In spite of its name,

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though, SNMP is not especially simple to learn. O'Reilly has answered the call for help with a practical introduction that shows how to install, configure, and manage SNMP. Written for network and system administrators, the book introduces the basics of SNMP and then offers a technical background on how to use it effectively. Essential SNMP explores both commercial and open source packages, and elements like OIDs, MIBs, community strings, and traps are covered in depth. The book contains five new chapters and various updates throughout. Other new topics include: Expanded coverage of SNMPv1, SNMPv2, and SNMPv3 Expanded coverage of SNMPc The concepts behind network management and change management RRDTool and Cricket The use of scripts for a variety of tasks How Java can be used to create SNMP applications Net-SNMP's Perl module The bulk of the book is devoted to discussing, with real examples, how to use SNMP for system and network administration tasks. Administrators will come away with ideas for writing scripts to help them manage their networks, create managed objects, and extend the operation of SNMP agents. Once demystified, SNMP is much more accessible. If you're looking for a way to more easily manage your network, look no further than Essential SNMP, 2nd Edition.

What is this book about? Professional Red Hat Enterprise Linux 3 is a complete professional guide to setting up, configuring, and deploying Red Hat Enterprise Linux in the corporate production environment. The book focuses on Enterprise Server and Advanced Server features, including the key areas of high availability with the Red Hat

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Cluster Suite, Red Hat Network Control Center, and Red Hat Enterprise applications such as the Content Management System and portal server. Other key unique features include kernel tuning for various performance profiles; advanced Apache configuration; Tux installation/maintenance; building high-performance FTP servers; building high-performance mail servers (which means replacing Sendmail); Mailing list management; how to efficiently add, remove, or modify 100 users at the same time; and a discussion of disk quota management and monitoring. What does this book cover? The key features of the book include the following: How to install and setup RHEL 3 How to deploy RHEL 3 in production environment How to manage an RHEL system using Perl and shell scripting Advanced administration tools How to use Red Hat network service Details on installation and setup of security tools Ability to use and deploy High Availability solutions provided with RHEL 3 Performance tuning How to use monitoring tools Ability to use RHEL to provide scalable infrastructure solutions.

Debian GNU/Linux, distribution Linux non commerciale extrêmement populaire, est réputée pour sa fiabilité et sa richesse. Créée et maintenue par un impressionnant réseau de plusieurs milliers de développeurs dans le monde, elle a pour principes l'engagement vis-à-vis de ses utilisateurs et la qualité. Ses technologies concernent un nombre toujours croissant d'administrateurs, notamment par le biais de la distribution dérivée Ubuntu. Ce cahier de l'Admin entièrement revu pour Debian Lenny perpétue le succès des premières éditions : accessible à tous, il fournit les connaissances indispensables pour qui souhaite devenir un administrateur Debian GNU/Linux efficace et indépendant. Il traite des méthodes que tout

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administrateur Linux compétent maîtrise, depuis l'installation et la mise à jour du système jusqu'à la création de paquetages et la compilation d'un noyau Linux, en passant par la supervision, la sauvegarde et les migrations, sans oublier des techniques avancées telles que la mise en place de SELinux pour sécuriser des services, l'automatisation des installations ou encore la virtualisation avec Xen. L'amorçage du DVD-Rom lance l'installation de Debian GNU/Linux 5.0 (Lenny) i386/AMD64. Il contient de nombreux logiciels (2,3 Go) : Gnome et XOrg, Apache, Samba, PostgreSQL, PHP, Bind, Postfix, etc. Configuration requise : PC ou Mac, processeur x86 ou AMD64 de chez AMD/Intel 128 Mo de mémoire vive, 64 Mo requis lors de l'installation 500 Mo d'espace disponible sur le disque dur Lecteur DVD-Rom Connexion Internet haut débit recommandée (mais non nécessaire)

Over 80 recipes to get up and running with CentOS 7 Linux server About This Book A practical guide to install, configure, administer and maintain CentOS 7 servers An in-depth guide to the CentOS 7 operating system, exploring its various new features and changes in server administration Presents tricks and solutions to tackle common server issues with the help of practical examples and real-life scenarios Who This Book Is For This book is targeted at beginner and more experienced system administrators alike who want to use CentOS as their server solution. Readers do not need much pre-knowledge or experience at all to work with this book. What You Will Learn Install and configure CentOS 7 Linux server system from scratch using normal and advanced methods Maintain a performance-based and secure server solution by deploying expert configuration advice and managing software packages Monitor, manage and develop your server's file system to maintain a stable performance Gain best practice methods on sharing files and resources through a network Install and configure

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common standard services such as web, mail, FTP, database and domain name server technologies Introduce you to the world of operating-system-level virtualization using the Docker platform. Understand the fundamentals of the Security-Enhanced Linux access control architecture Monitor your IT infrastructure using Nagios In Detail This book will provide you with a comprehensive series of starting points that will give you direct access to the inner workings of the latest CentOS version 7 and help you trim the learning curve to master your server. You will begin with the installation and basic configuration of CentOS 7, followed by learning how to manage your system, services and software packages. You will then gain an understanding of how to administer the file system, secure access to your server and configure various resource sharing services such as file, printer and DHCP servers across your network. Further on, we cover advanced topics such as FTP services, building your own DNS server, running database servers, and providing mail and web services. Finally, you will get a deep understanding of SELinux and you will learn how to work with Docker operating-system virtualization and how to monitor your IT infrastructure with Nagios. By the end of this book, you will have a fair understanding of all the aspects of configuring, implementing and administering CentOS 7 Linux server and how to put it in control. Style and approach This book is a practical reference guide with hands-on examples and solutions to real-world administration problems. It covers in-depth and comprehensive information on CentOS 7 and its new features.

Pro Python System Administration, Second Edition explains and shows how to apply Python scripting in practice. It will show you how to approach and resolve real-world issues that most system administrators will come across in their careers. This book has been updated using

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Python 2.7 and Python 3 where appropriate. It also uses various new and relevant open source projects and tools that should now be used in practice. In this updated edition, you will find several projects in the categories of network administration, web server administration, and monitoring and database management. In each project, the author will define the problem, design the solution, and go through the more interesting implementation steps. Each project is accompanied by the source code of a fully working prototype, which you'll be able to use immediately or adapt to your requirements and environment. This book is primarily aimed at experienced system administrators whose day-to-day tasks involve looking after and managing small-to-medium-sized server estates. It will also be beneficial for system administrators who want to learn more about automation and want to apply their Python knowledge to solve various system administration problems. Python developers will also benefit from reading this book, especially if they are involved in developing automation and management tools. The author focuses solely on how UNIX and Linux system administrators can use well-known tools to automate tasks, even across multiple systems.

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

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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 paradigm, plug-ins, 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 CISSP, 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 ;login 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

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APPENDIX B nagios.cfg and cgi.cfg APPENDIX C Command-Line Options Index

CentOS is just like Red Hat, but without the price tag and with the virtuous license. When belts have to be tightened, we want to read about an OS with all the features of a commercial Linux variety, but without the pain. The Definitive Guide to CentOS is the first definitive reference for CentOS and focuses on CentOS alone, the workhorse Linux distribution, that does the heavy lifting in small and medium-size enterprises without drawing too much attention to itself.

Provides tutorial and hands-on learning but is also designed to be used as a reference Bases all examples on real-world tasks that readers are likely to perform Serves up hard-won examples and hints and tips from the author's experiences of CentOS in production

Good system administrators recognize problems long before anyone asks, "Hey, is the Internet down?" Nagios, an open source system and network monitoring tool, has emerged as the most popular solution for sys admins in organizations of all sizes. It's robust but also complex, and Nagios: System and Network Monitoring, 2nd Edition, updated to address Nagios 3.0, will help you take full advantage of this program. Nagios, which runs on Linux and most *nix variants, can be configured to continuously monitor network services such as SMTP, POP3, HTTP, NNTP, SSH, and FTP. It can also supervise host resources (processor load, disk and memory usage, running processes, log files, and so on) and environmental factors, such as temperature and humidity. This book is your guide to getting the most out of this versatile and powerful monitoring tool. Inside Nagios, you'll learn how to: –Install and configure the Nagios core, all standard plugins, and selected third-party plugins –Configure the notification system to alert you of ongoing problems—and to alarm others in case of a serious crisis –Program event handlers to take automatic action when trouble occurs –Write Perl plugins to customize Nagios

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for your unique needs –Quickly understand your Nagios data using graphing and visualization tools –Monitor Windows servers, SAP systems, and Oracle databases The book also includes a chapter that highlights the differences between Nagios versions 2 and 3 and gives practical migration and compatibility tips. Nagios: System and Network Monitoring, 2nd Edition is a great starting point for configuring and using Nagios in your own environment.

As a system administrator, you are justly concerned about the security of your infrastructure. SUSE Linux Enterprise Server (SLES 9) can lead the way to infrastructure security and SUSE Linux Enterprise Server Administrator's Handbook is the authoritative source for information on this secure server. Step-by-step procedures will walk you through installing and securing a SLES 9 system, and it will focus on the specific security features that make SLES 9 an important platform for all system administrators. Some of what you will cover is: SuSE server installation User access and security Installing and configuring networking services Securing your SuSE server Leverage Linux and open source with SLES 9 and SUSE Linux Enterprise Server Administrator's Handbook to build a secure computing network for your company.

Get hands-on recipes to make the most of Ubuntu Server, CentOS 7 Linux Server and RHEL 7 Server About This Book Get Linux servers up and running in seconds, In-depth guide to explore new features and solutions in server administration Maintain performance and security of your server solution by deploying expert configuration advice Who This Book Is For This Learning Path is intended for system administrators with a basic understanding of Linux operating systems and written with the novice-to-intermediate Linux user in mind. To get the most of this Learning Path, you should have

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a working knowledge of basic system administration and management tools. What You Will Learn Set up high performance, scalable, and fault-tolerant back ends with web and database servers Facilitate team communication with a real-time chat service and collaboration tools Monitor, manage and develop your server's file system to maintain a stable performance Gain best practice methods on sharing files and resources through a network Install and configure common standard services such as web, mail, FTP, database and domain name server technologies Create kickstart scripts to automatically deploy RHEL 7 systems Use Orchestration and configuration management tools to manage your environment In Detail Linux servers are frequently selected over other server operating systems for their stability, security and flexibility advantages. This Learning Path will teach you how to get up and running with three of the most popular Linux server distros: Ubuntu Server, CentOS 7 Server, and RHEL 7 Server. We will begin with the Ubuntu Server and show you how to make the most of Ubuntu's advanced functionalities. Moving on, we will provide you with all the knowledge that will give you access to the inner workings of the latest CentOS version 7. Finally, touching RHEL 7, we will provide you with solutions to common RHEL 7 Server challenges. 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: 1) Ubuntu Server Cookbook 2) CentOS 7 Linux Server Cookbook, Second Edition 3) Red Hat Enterprise Linux Server Cookbook Style and approach This easy-to-

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follow practical guide contains hands on examples and solutions to real word administration problems and problems faced when building your RHEL 7 system from scratch using orchestration tools.

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 consequences, and how to avoid them. He provides all the technical 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

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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.

The Novell Certified Linux Engineer (CLE) Study Guide is designed to prepare you for the challenge of the most current CLE practicum. The author's experience as a certification trainer and system administrator will provide you with a real-world understanding of how to administer and troubleshoot Novell Linux products and services. Exam topics are covered through real-world examples with guided steps that were developed in the field. With the Novell Certified Linux Engineer (CLE) Study Guide, you will master the knowledge of administering and troubleshooting the Novell Linux systems and prepare for CLE exam success.

"This book covers strategies on using and evaluating open source products for online teaching and learning systems"--Provided by publisher.

The all-in-one practical guide to supporting Cisco networks using freeware tools.

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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.

The official "Ubuntu 10.10 Server Guide" contains information on how to install and

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configure various server applications on your Ubuntu system to fit your needs. Get to grips with a new technology, understand what it is and what it can do for you, and then get to work with the most important features and tasks. A concise guide, written in an easy-to-follow format. Instant Nagios Starter is an outstanding resource for system engineers, administrators and developers, with a basic understanding of the Linux command line. Readers should have access to a test system or virtual machine with Linux installed to follow the given examples.

A hands-on guide to leveraging NoSQL databases. NoSQL databases are an efficient and powerful tool for storing and manipulating vast quantities of data. Most NoSQL databases scale well as data grows. In addition, they are often malleable and flexible enough to accommodate semi-structured and sparse data sets. This comprehensive hands-on guide presents fundamental concepts and practical solutions for getting you ready to use NoSQL databases. Expert author Shashank Tiwari begins with a helpful introduction on the subject of NoSQL, explains its characteristics and typical uses, and looks at where it fits in the application stack. Unique insights help you choose which NoSQL solutions are best for solving your specific data storage needs. Professional NoSQL: Demystifies the concepts that relate to NoSQL databases, including column-family oriented stores, key/value databases, and document databases. Delves into installing and configuring a number of NoSQL products and the Hadoop family of products. Explains ways of storing, accessing, and querying data in NoSQL databases.

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through examples that use MongoDB, HBase, Cassandra, Redis, CouchDB, Google App Engine Datastore and more. Looks at architecture and internals. Provides guidelines for optimal usage, performance tuning, and scalable configurations. Presents a number of tools and utilities relating to NoSQL, distributed platforms, and scalable processing, including Hive, Pig, RRDtool, Nagios, and more.

Is central monitoring necessary? Nagios is a popular system daemon working in the Linux system used for monitoring the network, network devices, applications and servers. The micro-course describes how to install and configure this program in the Linux system. Keywords: Nagios, services monitoring , hosts monitoring , ping

Good system administrators recognize problems long before anyone asks, "Hey, is the Internet down?" Nagios, an open source system and network monitoring tool, has emerged as the most popular solution for sys admins in organizations of all sizes. It's robust but also complex, and Nagios: System and Network Monitoring, 2nd Edition, updated to address Nagios 3.0, will help you take full advantage of this program. Nagios, which runs on Linux and most *nix variants, can be configured to continuously monitor network services such as SMTP, POP3, HTTP, NNTP, SSH, and FTP. It can also supervise host resources (processor load, disk and memory usage, running processes, log files, and so on) and environmental factors, such as temperature and humidity. This book is your guide to getting the most out of this versatile and powerful monitoring tool. Inside Nagios, you'll learn how to: Install and configure the Nagios core,

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all standard plugins, and selected third-party plugins Configure the notification system to alert you of ongoing problems-and to alarm others in case of a serious crisis Program event handlers to take automatic action when trouble occurs Write Perl plugins to customize Nagios for your unique needs Quickly understand your Nagios data using graphing and visualization tools Monitor Windows servers, SAP systems, and Oracle databases The book also includes a chapter that highlights the differences between Nagios versions 2 and 3 and gives practical migration and compatibility tips. Nagios: System and Network Monitoring, 2nd Edition is a great starting point for configuring and using Nagios in your own environment.

The book is aimed at intermediate developers with an understanding of core database concepts who want to become a master at implementing Cassandra for their application.

Practical Linux Infrastructure teaches you how to use the best open source tools to build a new Linux infrastructure, or alter an existing infrastructure, to ensure it stands up to enterprise-level needs. Each chapter covers a key area of implementation, with clear examples and step-by-step instructions. Using this book, you'll understand why scale matters, and what considerations you need to make. You'll see how to switch to using Google Cloud Platform for your hosted solution, how to use KVM for your virtualization, how to use Git, Postfix, and MySQL for your version control, email, and database, and how to use Puppet for your configuration management. For enterprise-level fault

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tolerance you'll use Apache, and for load balancing and high availability, you'll use HAProxy and Keepalived. For trend analysis you'll learn how to use Cacti, and for notification you'll use Nagios. You'll also learn how to utilize BIND to implement DNS, how to use DHCP (Dynamic Host Configuration Protocol), and how to setup remote access for your infrastructure using VPN and Iptables. You will finish by looking at the various tools you will need to troubleshoot issues that may occur with your hosted infrastructure. This includes how to use CPU, network, disk and memory management tools such as top, netstat, iostat and vmstat. Author Syed Ali is a senior site reliability engineering manager, who has extensive experience with virtualization and Linux cloud based infrastructure. His previous experience as an entrepreneur in infrastructure computing offers him deep insight into how a business can leverage the power of Linux to their advantage. He brings his expert knowledge to this book to teach others how to perfect their Linux environments. Become a Linux infrastructure pro with Practical Linux Infrastructure today.

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