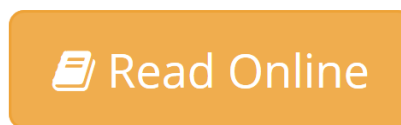


Mastering CentOS 7 Linux Server

By Bhaskarjyoti Roy



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Configure, manage, and secure a CentOS 7 Linux server to serve a variety of services provided in a sustainable computer's infrastructure.

About This Book

- Learn how to efficiently set up and manage a Linux server using one of the best suited technologies for this purpose, CentOS 7
- Personalize your Linux server and familiarize yourself with the latest tools and utilities setup provided by the new CentOS distribution
- Follow a step-by-step tutorial through the configuration of the requested services with the capacity to personalize them as per your needs

Who This Book Is For

If you are a Linux system administrator with an intermediate administration level, this is your opportunity to master the brand new distribution of CentOS. If you wish to possess a fully sustainable Linux server, with all its new tools and tweaks, that serves a variety of services to your users and customers, this book is ideal for you. It is your ticket to easily adapt to all the changes made in the latest shift.

What You Will Learn

- Manage CentOS 7 users, groups, and root access privileges
- Enhance the server's security through its firewall and prevent the most common attacks from penetrating or disabling the server
- Explore and implement the common, useful services that a CentOS 7 server can provide
- Monitor your server infrastructure for system or hardware issues
- Create and configure a virtual machine using virtualization technologies
- Implement a cloud computing solution on a single node system
- Get an introduction to the configuration management tools and their usage
- Discover the importance of the tools that provide remote connection, server service security, and system and process monitoring tools

In Detail

Most server infrastructures are equipped with at least one Linux server that provides many essential services, both for a user's demands and for the infrastructure itself. Setting up a sustainable Linux server is one of the most demanding tasks for a system administrator to perform. However, learning multiple, new technologies to meet all of their needs is time-consuming. CentOS 7 is the brand new version of the CentOS Linux system under the RPM (Red Hat) family. It is one of the most widely-used operating systems, being the choice of many organizations across the world.

With the help of this book, you will explore the best practices and administration tools of CentOS 7 Linux server along with implementing some of the most common Linux services. We start by explaining the initial steps you need to carry out after installing CentOS 7 by briefly explaining the concepts related to users, groups, and right management, along with some basic system security measures. Next, you will be introduced to the most commonly used services and shown in detail how to implement and deploy them so they can be used by internal or external users. Soon enough, you will be shown how to monitor the server. We will then move on to master the virtualization and cloud computing techniques. Finally, the book wraps up by explaining configuration management and some security tweaks.

All these topics and more are covered in this comprehensive guide, which briefly demonstrates the latest changes to all of the services and tools with the recent shift from CentOS 6 to CentOS 7.

Style and approach

This is a detailed and in-depth guide to help you administrate CentOS 7 for the usage of your server's infrastructure and also for personal network security. Each section shows a list of tools and utilities that are useful to perform the required task, in an easy to understand manner.

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Editorial Review

About the Author

Mohamed Alibi

Mohamed Alibi is a Linux System administrator at the training team of the European Bio-informatics Institute EMBL-EBI at the Wellcome Trust Genome Campus. He got his master's degree in Network System and Telecom from the Faculty of Sciences of the Tunis El Manar University, with an internship held at the University of Illinois Urbana-Champaign at the National Center for Supercomputer Applications and the Carl R. Woese Institute for Genomic Biology. He started his career as a system and network administrator at Institut Pasteur de Tunis from 2011 to 2015. During this time, he got associated with the network project H3ABioNet. He held the title of the co-chair of the Infrastructure Working Group, helping the development and enhancement of the computer infrastructure of project nodes. Between 2014 and 2015, he started his career as a part-time professor at Superior Institute of Biotechnology of Sidi Thabet, then, as a system administrator trainer with the University of Pretoria as part of the project H3ABioNet. At the end of 2015, Mohamed got his current position as a Linux system administrator with the European Bio-informatics Institute. He reviewed a book about CentOS 7 troubleshooting in late 2014 and early 2015.

Bhaskarjyoti Roy

Bhaskarjyoti Roy is a Linux and open source enthusiast with more than 12 years of experience in Linux system administration, virtualization, and cloud computing. He provides his services to many companies and organizations on a daily basis. He learns from his experience, which he has gained through self-learning and serving clients regularly. He has built more than 100 servers based on various CentOS versions running different types of services such as virtualization, web-server, e-mail, DNS, and many more. He is currently working with gotcha! Mobile Solutions, a Dallas based digital marketing agency specializing in local SEO, mobile web apps, and custom web development projects.

Users Review

From reader reviews:

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