CentOS High Performance

By Gabriel Canepa

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Key Features

- Master the concepts of high performance and high availability to eliminate performance bottlenecks
- Maximize the uptime of services running in a CentOS 7 cluster
- A step-by-step guide that will provide knowledge of methods and approaches to optimize the performance of CentOS clusters

Book Description

CentOS is the enterprise level Linux OS, which is 100% binary compatible to Red Hat Enterprise Linux (RHEL). It acts as a free alternative to RedHat's commercial Linux offering, with only a change in the branding. A high performance cluster consists in a group of computers that work together as one set parallel, hence minimizing or eliminating the downtime of critical services and enhancing the performance of the application.

Starting with the basic principles of clustering, you will learn the necessary steps to install a cluster with two CentOS 7 servers. We will then set up and configure the basic required network infrastructure and clustering services. Further, you will learn how to take a proactive approach to the split-brain issue by configuring the failover and fencing of the cluster as a whole and the quorum of each node individually. Further, we will be setting up HAC and HPC clusters as a web server and a database server. You will also master the art of monitoring performance and availability, identifying bottlenecks, and exploring troubleshooting techniques.

At the end of the book, you'll review performance-tuning techniques for the recently installed cluster, test performance using a payload simulation, and learn the necessary skills to ensure that the systems, and the corresponding resources and services, are being utilized to their best capacity.

What you will learn

- Install a CentOS 7 cluster and network infrastructure
- Configure firewall, networking, and clustering services and settings
- Set up and test a HAC (high-availability cluster) to host an Apache web server and a MariaDB database server
- Monitor performance and availability

- Identify bottlenecks and troubleshoot issues
- Improve performance and ensure high availability

About the Author

Gabriel Canepa is a Linux Foundation certified system administrat or (LFCS-1500-0576-0100) and web developer from Villa Mercedes, San Luis, Argentina. He works for a worldwide leading consumer product company and takes great pleasure in using FOSS tools to increase productivity in all areas of his daily work. When he's not typing commands or writing code or articles, he enjoys telling bedtime stories with his wife to his two little daughters and playing with them, which is a great pleasure in his life.

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1. Cluster Basics and Installation on CentOS 7
2. Installing Cluster Services and Configuring Network Components
3. A Closer Look at High Availability
4. Real-world Implementations of Clustering
5. Monitoring the Cluster Health
6. Measuring and Increasing Performance

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CentOS High Performance By Gabriel Canepa Bibliography

- Sales Rank: #1806024 in eBooks
- Published on: 2016-01-30
- Released on: 2016-01-30
- Format: Kindle eBook

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Editorial Review

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