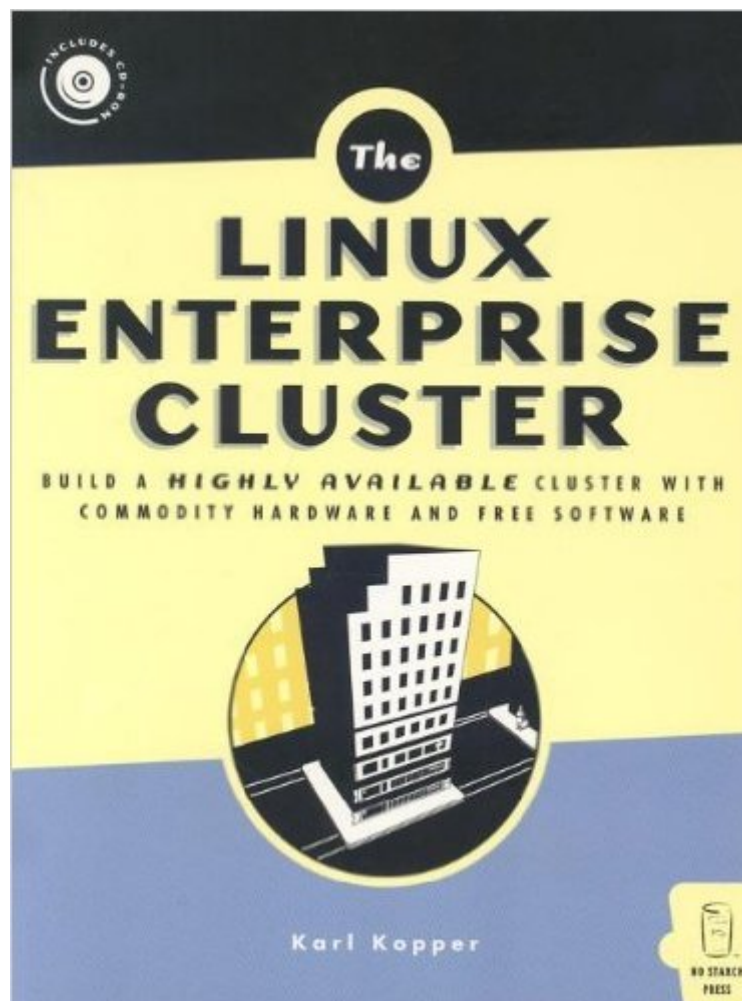


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# Linux Enterprise Cluster: Build A Highly Available Cluster With Commodity Hardware And Free Software



## Synopsis

The Linux Enterprise Cluster explains how to take a number of inexpensive computers with limited resources, place them on a normal computer network, and install free software so that the computers act together like one powerful server. This makes it possible to build a very inexpensive and reliable business system for a small business or a large corporation. The book includes information on how to build a high-availability server pair using the Heartbeat package, how to use the Linux Virtual Server load balancing software, how to configure a reliable printing system in a Linux cluster environment, and how to build a job scheduling system in Linux with no single point of failure. The book also includes information on high availability techniques that can be used with or without a cluster, making it helpful for System Administrators even if they are not building a cluster. Anyone interested in deploying Linux in an environment where low cost computer reliability is important will find this book useful. The CD-ROM includes all of the software needed to build a Linux Enterprise Cluster, including the Linux kernel, rsync, the SystemImager package, the Heartbeat package, the Linux Virtual Server package, the Mon monitoring package, and the Ganglia package. All figures in the book are also included on the CD-ROM.

## Book Information

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## Customer Reviews

The sheer number of books published in the recent years that cover the Linux Operation System is simply staggering. One aspect of Linux that has been explored recently is its enablement that is gives users that wish to build a clustered environment. Using free software and commodity

hardware many organizations small to large, and even end-users such as myself, have been able to build a cluster or a Grid using Linux very cheaply. This book by Karl Koppers shows the readers a step-by-step guide of how to go about building an enterprise grade Linux cluster environment. The author depicts each step one by one for the reader and demonstrates what each step does and why "we do what do we". The following steps required for building a cluster are explored in detail in this book:

- \* Understanding of the underlying Linux routing (NetFilter and basic packet routing)\*
- Understanding of SystemImager program, and how it can help you in building a large cluster\*
- Learning of to apply configuration changes to your cluster efficiently\*
- Learn to build a Linux Virtual Server Network Address Translation fro your cluster, and learn why you need such capability\*
- Learn how to manage failures in your cluster including software and hardware failures\*
- Learn how to manage and monitor your cluster from a single point using a Web-based GUI\*
- Learn how to apply software patches and updates to your cluster\*
- Administrator user accounts and remote login including password-less login via SSH\*
- Learn how to install a cluster print server\*
- Learn how to install a batch-job scheduling system on your cluster

As you can see, there are lots covered in this book.

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