



Proxmox High Availability

By Simon M.C. Cheng

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Introduce, design, and implement high availability clusters using Proxmox

About This Book

- Plan and construct a high availability environment from scratch using Proxmox
- Migrate current systems to high availability clusters to improve the level of service availability
- A step-by-step guide to disaster recovery, on failed high availability clusters

Who This Book Is For

If you want to know the secrets of virtualization and how to implement high availability on your services, this is the book for you. For those of you who are already using Proxmox, this book offers you the chance to build a high availability cluster with a distributed filesystem to further protect your system from failure.

What You Will Learn

- Design and plan a high availability cluster from scratch with guidelines on hardware and software preparation
- Work with the Proxmox virtual environment and learn the concepts on KVM and openVZ
- Build your own network RAID 1 device with DRBD technology from concepts to practical approach
- Install, configure, and integrate distributed filesystems with Gluster and Ceph on Proxmox
- Test and troubleshoot different levels of system failures for the Proxmox cluster
- Migrate your existing system over different platforms including Windows, Linux, and even virtualized platforms like as VMware
- Perform recovery for a failed Proxmox cluster from backup configuration files

In Detail

With the help of an easy-to-use tool provided by Proxmox, users can easily

improve their service by building up their own cluster. Proxmox is open source and combines two virtualization technologies (KVM- and container-based) under one platform, offering maximum flexibility for building virtual environments.

This book starts with the basics and provides you with some background knowledge of server virtualization and then shows you the differences between other types of virtualization software, such as VMware, Hyper-V, Xen, and so on, versus Proxmox. By the end of this book, you will have a strong idea on how to plan, design, implement, and test your own cluster with a high level of availability.

This book adopts a step-by-step, easy-to-follow approach and demonstrates a high availability cluster with brief descriptions and useful explanations on important topics.

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Editorial Review

About the Author

Simon M.C. Cheng

Simon M.C. Cheng is an experienced engineer and has been working in the field of system administration on Linux and Windows platforms for around 8 years. He has a Bachelor's degree in Computing from The Hong Kong Polytechnic University. He currently lives in Hong Kong and has previously worked in a number of different roles, including as a technician at a college, IT officer at Geodis Wilson Hong Kong Limited, senior systems engineer at Questex Media Limited and Ignite Media Group, and a few more roles. In recent years, he has become interested in server virtualization and has put his efforts into learning more about it. If you have anything to share, you can contact him on LinkedIn or e-mail him at simonc1001@hotmail.com.

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