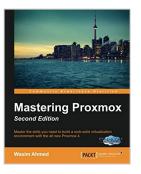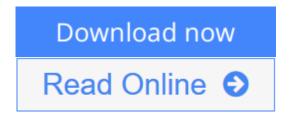# Mastering Proxmox - Second Edition

By Wasim Ahmed

Mastering Proxmox - Second Edition By Wasim Ahmed

Master the skills you need to build a rock-solid virtualization environment with the all new Proxmox 4

About This Book

- Formulate Proxmox-based solutions and set up virtual machines of any size while gaining expertise even on the most complex multi-cluster setups
- Master the skills needed to analyze, monitor, and troubleshoot real-world virtual environments
- This is the most up-to-date title on mastering Proxmox, with examples based on the new Linux Kernel 4.2 and Debian Jessie (8.x)

Who This Book Is For

The book targets Linux and system administrators and professionals working in IT teams who would like to design and implement an enterprise-quality virtualized environment using Proxmox.Knowledge of networking and virtualization concepts is assumed.

What You Will Learn

- Install the basic Proxmox VE nodes
- Get to know the Proxmox Graphical User Interface (GUI)
- See and understand Proxmox's internal structure and mechanics
- Create and manage KVM- or LXC-based virtual machines
- Understand advanced virtual networks
- Leverage the power of the built-in Proxmox firewall to provide protection at any level
- Configure high availability Proxmox nodes
- Learn different backup strategies and to restore a VM in the event of a disaster to ensure data safety
- Monitor a Proxmox cluster and all of its components using Zabbix
- Plan large virtual environments for mission critical virtual environments
- Work through real-world scenarios to troubleshoot Proxmox

In Detail

Proxmox is an open source server virtualization solution that has enterprise-class features to manage virtual machines, to be used for storage, and to virtualize both Linux and Windows application workloads.

You begin with refresher on the advanced installation features and the Proxmox GUI to familiarize yourself with the Proxmox VE hypervisor. You then move on to explore Proxmox under the hood, focusing on the storage systems used with Proxmox. Moving on, you will learn to manage KVM Virtual Machines and Linux Containers and see how networking is handled in Proxmox. You will then learn how to protect a cluster or a VM with a firewall and explore the new HA features introduced in Proxmox VE 4 along with the brand new HA simulator.

Next, you will dive deeper into the backup/restore strategy followed by learning how to properly update and upgrade a Proxmox node. Later, you will learn how to monitor a Proxmox cluster and all of its components using Zabbix. By the end of the book, you will become an expert at making Proxmox environments work in production environments with minimum downtime.

Style and approach

This book walks you through every aspect of virtualization using Proxmox using a practical, scenario-based approach that features best practices and all the weaponry you need to succeed when building virtual environments with Proxmox 4.

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Editorial Review

About the Author

Wasim Ahmed

Wasim Ahmed, born in Bangladesh and now a citizen of Canada, is a veteran of the IT world. He came into close contact with computers in 1992 and never looked back. Wasim has much deeper knowledge and understanding of network, virtualization, big data storage, and network security. By profession, Wasim is the CEO of an IT support and cloud service provider company based in Calgary, Alberta. He serves many companies and organizations through his company on a daily basis. Wasim's strength comes from his experience that comes from learning and serving continually. Wasim strives to find the most effective solution at the most competitive price. He has built over 20 enterprise production virtual infrastructures using Proxmox and the Ceph storage system. Wasim is notoriously known not to simply accept a technology based on its description alone, but puts it through rigorous testing to check its validity. Any new technology that his company provides goes through months of continuous testing before it is accepted. Proxmox made the cut superbly. He would like to thank the entire staff at Proxmox for their support and dedication to the hypervisor community. Wasim would also like to thank Packt Publishing for their vision of moving forward with such a one of a kind book on Proxmox and their support throughout the journey of publishing this book.

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