



Mastering KVM Virtualization

By Humble Devassy Chiramal, Prasad Mukhedkar, Anil Vettathu

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Dive in to the cutting edge techniques of Linux KVM virtualization, and build the virtualization solutions your datacentre demands

About This Book

- Become an expert in Linux virtualization
- Migrate your virtualized datacenter to the cloud
- Find out how to build a large scale virtualization solution that will transform your organization

Who This Book Is For

Linux administrators – if you want to build incredible, yet manageable virtualization solutions with KVM this is the book to get you there. It will help you apply what you already know to some tricky virtualization tasks.

What You Will Learn

- Explore the ecosystem of tools that support Linux virtualization
- Find out why KVM offers you a smarter way to unlock the potential of virtualization
- Implement KVM virtualization using oVirt
- Explore the KVM architecture – so you can manage, scale and optimize it with ease
- Migrate your virtualized datacenter to the cloud for truly resource-efficient computing
- Find out how to integrate OpenStack with KVM to take full control of the cloud

In Detail

A robust datacenter is essential for any organization – but you don't want to waste resources. With KVM you can virtualize your datacenter, transforming a

Linux operating system into a powerful hypervisor that allows you to manage multiple OS with minimal fuss.

This book doesn't just show you how to virtualize with KVM – it shows you how to do it well. Written to make you an expert on KVM, you'll learn to manage the three essential pillars of scalability, performance and security – as well as some useful integrations with cloud services such as OpenStack. From the fundamentals of setting up a standalone KVM virtualization platform, and the best tools to harness it effectively, including virt-manager, and kimchi-project, everything you do is built around making KVM work for you in the real-world, helping you to interact and customize it as you need it. With further guidance on performance optimization for Microsoft Windows and RHEL virtual machines, as well as proven strategies for backup and disaster recovery, you'll be confident that your virtualized data center is working for your organization – not hampering it. Finally, the book will empower you to unlock the full potential of cloud through KVM. Migrating your physical machines to the cloud can be challenging, but once you've mastered KVM, it's a little easier.

Style and approach

Combining advanced insights with practical solutions, Mastering KVM Virtualization is a vital resource for anyone that believes in the power of virtualization to help a business use resources more effectively.

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Editorial Review

About the Author

Humble Devassy Chiramml

Humble Devassy Chiramml works as a senior software engineer at Red Hat in the Storage Engineering team. He has more than 10 years of IT experience and his area of expertise is in knowing the full stack of an ecosystem and architecting the solutions based on the demand. These days, he primarily concentrates on GlusterFS and emerging technologies, such as IaaS, PaaS solutions in Cloud, and Containers. He has worked on intrusion detection systems, clusters, and virtualization. He is an Open Source advocate. He actively organizes meetups on Virtualization, CentOS, Openshift, and GlusterFS. His Twitter handle is @hchiramml and his website is <http://www.humblec.com/>.

Prasad Mukhedkar

Prasad Mukhedkar is a senior technical support engineer at Red Hat. His area of expertise is designing, building, and supporting IT infrastructure for workloads, especially large virtualization environments and cloud IaaS using open source technologies. He is skilled in KVM virtualization with continuous working experience from its very early stages, possesses extensive hands-on and technical knowledge of Red Hat Enterprise Virtualization. These days, he concentrates primarily on OpenStack and Cloudforms platforms. His other area of interest includes Linux performance tuning, designing highly scalable open source identity management solutions, and enterprise IT security. He is a huge fan of the Linux "GNU Screen" utility.

Anil Vettathu

Anil Vettathu started his association with Linux in college and began his career as a Linux System Administrator soon after. He is a generalist and is interested in Open Source technologies. He has hands on experience in designing and implementing large scale virtualization environments using open source technologies and has extensive knowledge in libvirt and KVM. These days he primarily works on Red Hat Enterprise Virtualization, containers and real time performance tuning. Currently, he is working as a Technical Account Manager for Red Hat. His website is <http://anilv.in>.

Users Review

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Mary Partee:

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