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The Definitive Guide to the Xen Hypervisor

David Chisnall

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“The Xen hypervisor has become an incredibly strategic resource for the industry, as the focal point of innovation in cross-platform virtualization technology. David’s book will play a key role in helping the Xen community and ecosystem to grow.”
– ***Simon Crosby, CTO, XenSource***

An Under-the-Hood Guide to the Power of Xen Hypervisor Internals

The Definitive Guide to the Xen Hypervisor **is a comprehensive handbook on the inner workings of XenSource’s powerful open source paravirtualization solution. From architecture to kernel internals, author David Chisnall exposes key code components and shows you how the technology works, providing the essential information you need to fully harness and exploit the Xen hypervisor to develop cost-effective, highperformance Linux and Windows virtual environments.**

Granted exclusive access to the XenSource team, Chisnall lays down a solid framework with overviews of virtualization and the design philosophy behind the Xen hypervisor. Next, Chisnall takes you on an in-depth exploration of the hypervisor’s architecture, interfaces, device support, management tools, and internals—including key information for developers who want to optimize applications for virtual environments. He reveals the power and pitfalls of Xen in real-world examples and includes hands-on exercises, so you gain valuable experience as you learn.

This insightful resource gives you a detailed picture of how all the pieces of the Xen hypervisor fit and work together, setting you on the path to building and implementing a streamlined, cost-efficient virtual enterprise.

Coverage includes

- Understanding the Xen virtual architecture
- Using shared info pages, grant tables, and the memory management subsystem
- Interpreting Xen’s abstract device interfaces
- Configuring and managing device support, including event channels, monitoring with XenStore, supporting core devices, and adding new device types
- Navigating the inner workings of the Xen API and userspace tools
- Coordinating virtual machines with the Scheduler Interface and API, and adding a new scheduler
- Securing near-native speed on guest machines using HVM
- Planning for future needs, including porting, power management, new devices, and unusual architectures

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