



Virtualization Essentials

By Matthew Portnoy

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A full-color beginner's guide to the core concepts and skills of virtualization

Virtualization is the IT world's hottest trend in recent years, and many colleges do not yet have curricula in place to prepare students for this important area. This guide fills the need, with a learn-by-doing approach to mastering the core elements of virtualization. Each chapter clearly outlines what is covered, thoroughly discusses the concepts, and engages readers with hands-on tutorials. The book covers how virtualization software operates; hypervisor products; how to manage CPU, memory, storage, and networking; and much more.

- Fills the gap left by the many colleges and universities that are unprepared to educate IT students on virtualization, a megatrend in the IT world
- Covers the fundamental concepts and skills, including how virtualization software operates within a computing environment
- Explains the difference between Type 1 and Type 2 hypervisors and tells how to create a virtual machine from scratch or by migrating from physical to virtual
- Tells how to manage the basics and how to configure supporting devices for a virtual machine

Virtualization Essentials gets IT students and practitioners up to speed on one of the most important aspects of today's IT environment.

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Editorial Review

From the Back Cover

Learn Virtualization Quickly and Easily

Virtualization is crucial to providing computing services economically on a wide scale, and the topic is essential learning for IT professionals. This full-color, hands-on guide thoroughly covers virtualization fundamentals. You'll discover how today's virtual machines work, explore hypervisors, learn virtual networking concepts, see how to plan for high availability, and much more. It's the perfect virtualization primer, whether you're an aspiring IT professional or just brushing up on your skills.

Learn these virtualization essentials—and more:

- The importance of virtualization in today's data center environments
- Hypervisors—Type 1, Type 2, their roles, and what's on the market
- How to build a virtual machine from scratch
- Managing CPU, memory, disk storage, and networking
- Ways to map virtual networking to a physical machine
- Configuring devices such as DVDs, USBs, and sound cards
- What you need to do to ensure high availability
- Working with applications in a virtual environment

Change virtual machine CPU quantity

Virtual network configurations

This striking Essentials book maximizes skill acquisition and knowledge retention with:

- Chapter-opening learning objectives
- Step-by-step tutorials
- Four-color screenshots and illustrations
- Essentials and Beyond—summaries and additional suggested exercises
- Chapter review questions

About the Author

Matthew Portnoy is a Senior System Engineer at VMware and has more than 30 years of work experience in the IT industry. He is an Adjunct Professor at Wake Tech Community College, teaching CIS classes since 2007. Matt has presented at many trade shows and industry events, including VMware User Group events and VMworld, which is the largest virtualization conference.

Users Review

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