Oracle Solaris 10 System Virtualization Essentials (Oracle Solaris System Administration)

By Jeff Victor, Jeff Savit, Gary Combs, Simon Hayler, Bob Netherton

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Virtualization and related technologies like hypervisors, which create virtual machines on a single hardware machine, and containers (also known as zones), which create virtual operating systems running on a single operating system, are a totally new area for many system administrators.

Oracle® Solaris™ 10 System Virtualization Essentials provides an accessible introduction to computer virtualization, specifically the system virtualization technologies that use the Oracle Solaris or OpenSolaris operating systems. This accessible guide covers the key concepts system administrators need to understand and explains how to

- Use Dynamic Domains to maximize workload isolation on Sun SPARC systems
- Use Oracle VM Server for SPARC to deploy different Oracle Solaris 10 and OpenSolaris environments on SPARC CMT (chip multithreading) systems
- Use Oracle VM Server for x86 or xVM hypervisor to deploy a server with heterogeneous operating systems
- Use Oracle VM VirtualBox to develop and test software in heterogeneous environments
- Use Oracle Solaris Containers to maximize efficiency and scalability of workloads
- Use Oracle Solaris Containers to migrate Solaris 8 and Solaris 9 workloads to new hardware systems
- Mix virtualization technologies to maximize workload density

Starting with a discussion of system virtualization in general terms—the needs of consolidation, the benefits of virtualization, and a description of the most common types of computer virtualization—this book also covers many of the concepts, features, and methods shared by many implementations of system

virtualization.

Oracle's computer virtualization technologies that are directly related to the Oracle Solaris OS are described in detail along with a discussion of the factors that should be considered when choosing a virtualization technology. Finally, several examples of these technologies and an overview of virtualization management software are provided, as well as a history of virtualization.

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- Sales Rank: #1210329 in Books
- Published on: 2010-09-11
- Released on: 2010-09-01
- Original language: English

- Number of items: 1
- Dimensions: 9.00" h x .90" w x 6.90" l, 1.37 pounds
- Binding: Paperback
- 384 pages

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Editorial Review

From the Back Cover

Virtualization and related technologies like hypervisors, which create virtual machines on a single hardware machine, and containers (also known as zones), which create virtual operating systems running on a single operating system, are a totally new area for many system administrators. "Oracle(R) Solaris(TM) 10 System Virtualization Essentials" provides an accessible introduction to computer virtualization, specifically the system virtualization technologies that use the Oracle Solaris or OpenSolaris operating systems. This accessible guide covers the key concepts system administrators need to understand and explains how to Use Dynamic Domains to maximize workload isolation on Sun SPARC systemsUse Oracle VM Server for SPARC to deploy different Oracle Solaris 10 and OpenSolaris environments on SPARC CMT (chip multithreading) systemsUse Oracle VM Server for x86 or xVM hypervisor to deploy a server with heterogeneous operating systemsUse Oracle VM VirtualBox to develop and test software in heterogeneous environmentsUse Oracle Solaris Containers to maximize efficiency and scalability of workloadsUse Oracle Solaris Containers to migrate Solaris 8 and Solaris 9 workloads to new hardware systemsMix virtualization technologies to maximize workload density Starting with a discussion of system virtualization in general terms-the needs of consolidation, the benefits of virtualization, and a description of the most common types of computer virtualization-this book also covers many of the concepts, features, and methods shared by many implementations of system virtualization. Oracle's computer virtualization technologies that are directly related to the Oracle Solaris OS are described in detail along with a discussion of the factors that should be considered when choosing a virtualization technology. Finally, several examples of these technologies and an overview of virtualization management software are provided, as well as a history of virtualization.

About the Author

Jeff Victor is the principal author of *Oracle® Solaris 10 System Virtualization Essentials* and a principal sales consultant at Oracle Corporation. Prior to joining Oracle, Jeff was a principal field technologist for Sun Microsystems. He is an OpenSolaris Zones Community Leader, the creator of the zonestat open-source program, and a regular author, contributor, and speaker at corporate and industry events. His blog can be found at http://blogs.sun.com/JeffV. Jeff received a bachelor of science degree in computer science from Rensselaer Polytechnic Institute. In his spare time, he builds and launches high-power rockets. Jeff lives in New York with his wife and daughter.

Jeff Savit has more than 25 years of experience in operating systems, virtualization, and performance on multiple platforms, and is a principal sales consultant at Oracle Corporation specializing in these areas. He was previously a principal field technologist at Sun Microsystems with a similar focus. Before joining Sun, Jeff was a vice president at Merrill Lynch, where he had roles in development, systems management, market data, and web applications. He also managed a department responsible for the firm's virtual machine systems, wrote market data portions of Merrill Lynch's Internet trading applications, and created one of the Internet's first stock quote websites. Jeff is the author of the Sun Blueprint *Energy Efficiency Strategies: Sun Server Virtualization Technology*, and the virtualization chapter of the *Datacenter Reference Guide* Blueprint. Jeff has written or coauthored several books, including *Enterprise Java*, *VM and CMS: Performance and Fine-Tuning*, and *VM/CMS Concepts and Facilities,* and his work has been published in *SIGPLAN Notices,* a journal of the Association of Computing Machinery. He has a master's degree in computer science from Cornell University.

Gary Combs is a SPARC specialist at Oracle Corporation. He specializes in midrange and high-end SPARC servers, which include the popular M-Series. Gary also covers virtualization technologies that are implemented on these platforms: Dynamic Domains, Logical Domains, and Oracle Solaris Containers. Prior to joining Oracle, Gary was with Sun Microsystems. He has more than 15 years of direct sales support experience as a systems engineer. For the last 10 years, Gary has held marketing positions in product management, product definition, and technical marketing.

Simon Hayler is a principal sales consultant for Oracle Corporation. Previously, Simon was a principal field technologist for Sun Microsystems. Simon has a telecommunications engineering background, encompassing the design, configuration, and implementation of multitiered information systems. His role at Sun over the past 12 years has included pre- and post-sales consulting, architectural design and implementation for both high-end commercial and high-performance computing, and, more recently, specialization in virtualization solutions.

Bob Netherton is a principal sales consultant at Oracle Corporation specializing in Oracle Solaris, virtualization, open-source software, and Linux interoperability. Prior to joining Oracle, Bob was a principal field technologist for Sun Microsystems, and was one of the architects and content developers of the Solaris Boot Camp and Deep Dive seminar series. In addition, he has developed several best practices guides for Solaris as well as an advanced Solaris training curriculum. Bob is also involved in several OpenSolaris users groups in the American Midwest and Southwest. Bob received a bachelor of science degree in applied mathematics from the University of Missouri, and he is a regular blogger on Solaris, virtualization, and open-source technologies.

Users Review

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Lydia Sanders:

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