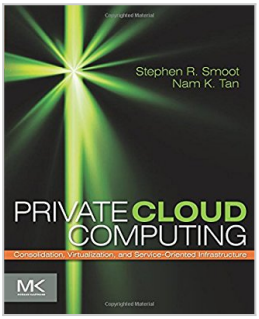

Private Cloud Computing: Consolidation, Virtualization, and Service-Oriented Infrastructure

By Stephen R Smoot, Nam K Tan

Private Cloud Computing: Consolidation, Virtualization, and Service-Oriented Infrastructure By Stephen R Smoot, Nam K Tan

Private cloud computing enables you to consolidate diverse enterprise systems into one that is cloud-based and can be accessed by end-users seamlessly, regardless of their location or changes in overall demand. Expert authors Steve Smoot and Nam K. Tan distill their years of networking experience to describe how to build enterprise networks to create a private cloud. With their techniques you'll create cost-saving designs and increase the flexibility of your enterprise, while maintaining the security and control of an internal network. *Private Cloud Computing* offers a complete cloud architecture for enterprise networking by synthesizing WAN optimization, next-generation data centers, and virtualization in a network-friendly way, tying them together into a complete solution that can be progressively migrated to as time and resources permit.

- Describes next-generation data center architectures such as the virtual access-layer, the unified data center fabric and the "rack-and-roll" deployment model
- Provides an overview of cloud security and cloud management from the server virtualization perspective
- Presents real-world case studies, configuration and examples that allow you to easily apply practical know-how to your existing enterprise environment
- Offers effective private cloud computing solutions to simplify the costly and problematic challenge of enterprise networking and branch server consolidation

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- Sales Rank: #1690917 in Books
- Published on: 2011-10-29
- Released on: 2011-10-15
- Original language: English
- Number of items: 1
- Dimensions: 9.25" h x .95" w x 7.50" l, 1.75 pounds
- Binding: Paperback
- 424 pages

Editorial Review

Review

"This book aims at well experienced IT architects and professionals who can benefit from the technical solutions that the book itself reveals."--**Computers and Security**

From the Back Cover
This book is intended for network engineers, solution architects, internetworking professionals, IT managers, CIOs, Service Providers and anyone who is interested in building or managing a state-of-the-art solution for private cloud services. The information in this book enables you to consolidate services from data centers and remote branch offices, leverage WAN optimization to keep performance high and build a routing and switching platform to provide a foundation for cloud computing services. It assumes familiarity with basic TCP/IP networking. As we progress from simple to more complex topics, the book addresses hard to understand concepts and difficult areas through each chapter and provides case studies and configuration examples to guide comprehension.

About the Author
Stephen R. Smoot, Ph.D., helped start up Riverbed Technology in February 2003, and currently serves as senior vice president of technical operations, running the technical support, technical publications, technical marketing, and global consulting engineering groups. He spends his time thinking about where technology is going and helping customers to solve their problems. Smoot previously worked on acceleration and video at Inktomi Corporation (now a part of Yahoo). He joined Inktomi, following its acquisition of FastForward Networks, which designed overlay network technology for streaming video with millions of viewers over the Internet. Smoot previously worked at Imedia (Motorola), Honeywell, and IBM. Smoot received his doctorate in computer science from the University of California at Berkeley, working with Lawrence Rowe. His dissertation, “Maximizing Perceived Quality at Given Bit-Rates in MPEG Encoding,” describes various aspects of creating MPEG video from its original video source. He also holds a master’s degree in computer science from the University of California, Berkeley. His undergraduate education was at MIT where he received bachelor’s degrees in computer science and mathematics.

Nam-Kee Tan, CCIE #4307, has been in the networking industry for more than 16 years. He is dual CCIE in routing and switching and service provider and has been an active CCIE for more than 10 years. His areas of specialization include advanced IP services, network management solutions, MPLS applications, L2/L3 VPN implementations, next-generation data center technologies, and storage networking. Nam-Kee is currently the lead network architect in the Riverbed advanced network engineering team where he designs and deploys cloud computing service infrastructures and virtual data center solutions for Riverbed enterprise and service provider customers. Nam-Kee also advises internal Riverbed engineers in the area of next-generation service provider technologies. Nam-Kee is the author of Configuring Cisco Routers for Bridging, DLSwþ, and Desktop Protocols (1999, ISBN 0071354573); Building VPNs with IPSec and MPLS (2003, ISBN 0071409319), and MPLS for Metropolitan Area Networks (2004, ISBN 084932212X); and is co-author of Building Scalable Cisco Networks (co-author, 2000, ISBN: 0072124776). He holds a master’s degree in data communications from the University of Essex, UK, and an MBA from the University of Adelaide, Australia.

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