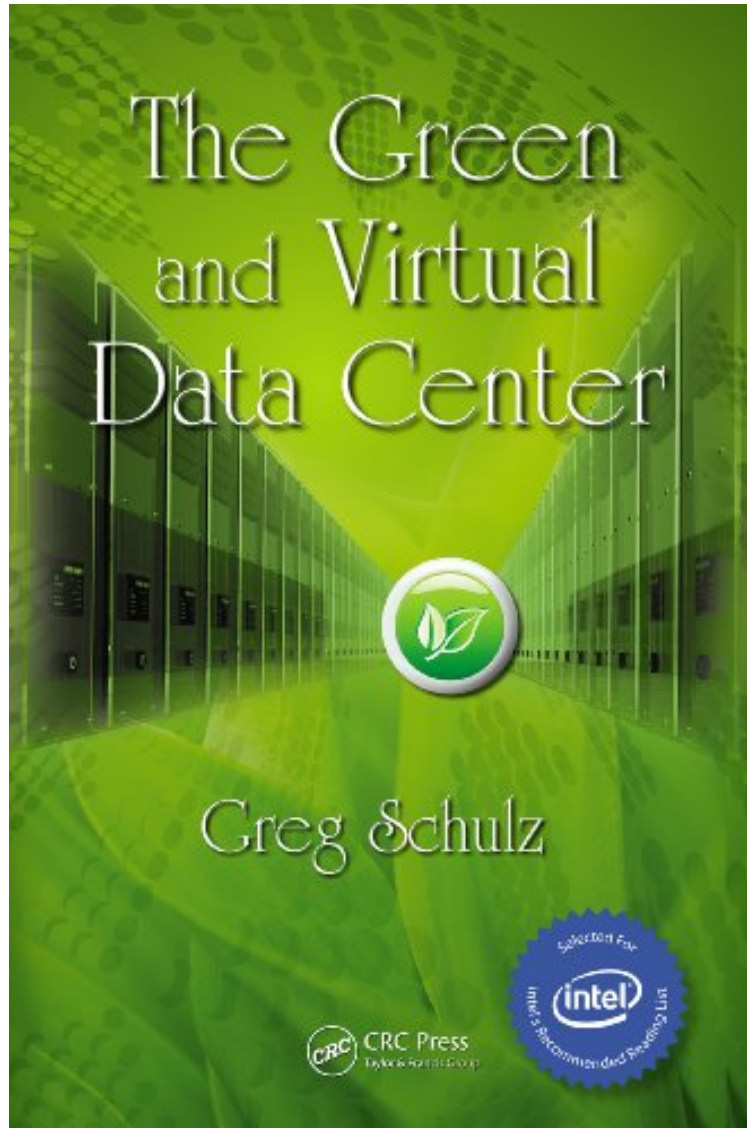


(Get free) The Green and Virtual Data Center

The Green and Virtual Data Center

Greg Schulz

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Greg Schulz : The Green and Virtual Data Center before purchasing it in order to gage whether or not it would be worth my time, and all praised The Green and Virtual Data Center:

1 of 1 people found the following review helpful. A good view into the green virtualized data centerBy Andrew SanchezThe book The Green and Virtual Data Center by Greg Schulz includes a vast array of topics pertaining to data center elements and virtualization from fundamentals to practice. The author covered energy efficiency metric basics and continued with the application of PCFE to the current practices in IT operations. The material is relevant and practical yet not overly technical; however, it is also not intended for readers with no prior working knowledge of data

center infrastructures or IT in general. The main theme of the book is to analyze current data center operations to find opportunities where energy consumption can be reduced by cutting waste or misallocation of energy, minimizing heat production, introduce a well-designed virtualization strategy to maximize computing output from existing resources, and to adopt technologies and techniques that facilitate efficiency and availability. The value of *The Green and Virtual Data Center* lies primarily in its conceptual application, rather than technical application, to the issue of how to get more out of existing computing and storage capacity while at the same time reducing the energy utilization. He states that the intent is not to "green wash" the data center but rather to serve as a very real means of adding to the bottom line and have IT be an active player in the organization's added resource allocation rather than merely a consumer of resources. Early in the book, Schulz dispels any notion of "green" as a political or PR maneuver but rather sees the implementation of an energy reduction strategy as a business decision while helping make operations more effective and productive. To serve that purpose, the book includes statistics and charts but not as a basis of the concept but rather as an aid to reinforce the main thesis of the book. Schulz also makes it very clear that going green should be all about business and the progress of the industry with the added benefit of being positive to the environment in the way of reduced carbon emissions and recycling. To this Schulz provides a well-evolved lecture on the basics of power generation and the different types of fuels involved. He also mentions the electrical grid and the different distribution plants. In the second section, the book covers virtualization almost exclusively. The topics are relevant but certainly not all of them will be around for long as he gets quite granular when discussing snapshots and data replication. While the current virtualization practices are a good foundation, Schulz perhaps should have covered them from a different angle such as the main underlying concepts only and leave out the details as those will most likely change and some already have such as the rapid advancement of cloud computing, distributed clouds and cloud infrastructure management. Of course, the cloud still has to exist in data centers but some may look to be architected very differently than described by Schulz. *The Green and Virtual Data Center* only includes a few pages on cloud computing without any real new content. Schulz also discusses virtual data center energy management but using the typical mechanized methods. He describes the types of power sources, energy consumers and devices but does not get into real detail relating to intelligent management mechanisms such as those promoted by The Green Grid or the intelligent management systems developed by IT software vendors. He also does not cover any real concepts relating to intelligent energy routing, provisioning or monitoring. Because of this omission, *The Green and Virtual Data Center* remained rather neutral and descriptive in nature but missed one of the potentially forthcoming revolutions in IT and perhaps business in general. Nevertheless, Schulz correctly describes cooling as the highest consumer of energy in the data center. He also provides good insight into rack cooling, backup systems, PDUs, and how to determine energy needs and usage. *The Green and Virtual Data Center* covers several topics that are better suited for a different book such as physical security, networking, and hardware. Schulz does not particularly specialize or offer any innovative solutions or ideas on how to maximize resource utilization. The material he presents is not original but rather a compilation of what is out in the industry. What Schulz does quite well is put the material together and synthesize ideas from various disciplines into the area of data center operations. Some topics that Schulz omits almost entirely are the data center management and structure as well as operations as they relate to personnel and processes. These areas would have offered potential practical applications to increasing efficiencies in the data center by way of improved practices, management, processes or structure. He offers some dialogue on outsourced data centers and some mentions of management but not much else. Schulz's book is an adequate reference resource for individuals who work in data centers. It may also be a valuable source as an inside view to those who do not work in data centers. However, *The Green and Virtual Data Center* also includes material that is not entirely relevant to the topic of green and virtual data centers but valuable to know. The most value in the book lies in the definition of concepts and trends in virtualization, even if at times it gets overly granular but not to the extent of a VMware manual. Data center practitioners will get value out of the book but IT and business readers in general may find some topics out of their scope yet a valuable resource that delivers an insider's view of the energy efficient and virtualized data center.

1 of 1 people found the following review helpful. Great book to understand green and virtualized next generation data centers
By Zen Kishimoto
Overall this is a well-structured and organized book with comprehensive coverage of necessary technologies and practices, including virtualization to understand next-generation data centers. Some technical contents require an IT background, but the book will certainly give you a good understanding of current data-center problems and solutions and what next-generation data centers will require to mitigate their environmental impact. Because of the wide variety of subjects, several shorter versions of the book will be a good addition. In addition, I would like to see new topics discussed in the next version of the book. The complete review is given in [...]

0 of 1 people found the following review helpful. Great book, but very confusing
By Austin O'Neal
This book has a lot of great information about data networks. The book covers important information that you will need to know, term wise, about IT safety, Virtual servers, IT management Resources, Server Hardware and a lot of other important IT terms.
CONS: The Author does a terrible job organizing the information through out the book and keeping each paragraphs flowing with information. For example I am currently in the processes of reading this whole book, and one of many issues i have with this book is the Author does not go in enough detailed about important acronyms that are

important to know. Another problem is the Author show very confusing pictures or Figures to explain what he talking about in some paragraphs. The figures some times do not have flow chart arrows that explain where data is flowing and what devices is receiving or sending data. It really gets confusing when he talks about consolidating Data in pictures. Overall this book is great and has important information for all IT beginners or those who have been working there whole lives in IT Center. But I wish the Author did a better job in presenting this important information.

The Green and Virtual Data Center sets aside the political aspects of what is or is not considered green to instead focus on the opportunities for organizations that want to sustain environmentally-friendly economical growth. If you are willing to believe that IT infrastructure resources deployed in a highly virtualized manner can be combined with other technologies to achieve simplified and cost-effective delivery of services in anbsp; green, profitable manner, this book is for you. Savvy industry veteran Greg Schulz provides real-world insight, addressing best practices, server, software, storage, networking, and facilities issues concerning any current or next-generation virtual data center that relies on underlying physical infrastructures. Coverage includes: Energynbsp;and data footprint reductionCloud-based storage and computingIntelligent and adaptive power managementServer, storage, and networking virtualizationTiered servers andnbsp;storage, network, and data centersEnergy avoidance and energy efficiencyMany current and emerging technologies can enable a green and efficient virtual data center to support and sustain business growth with a reasonable return on investment. This book presents virtually all critical IT technologies and techniques to discuss the interdependencies that need to be supported to enable a dynamic, energy-efficient, economical, and environmentally-friendly green IT data center. This is a path that every organization must ultimately follow. Take a tour of the Green and Virtual Data Center website.CRC Press is pleased to announce that The Green and Virtual Data Center has been added to Intel Corporation's Recommended Reading List. Intel's Recommended Reading program provides technical professionals a simple and handy reference list of what to read to stay abreast of new technologies. Dozens of industry technologists, corporate fellows, and engineers have helped by suggesting books and reviewing the list. This is the most comprehensive reading list available for professional computer developers.

The book reviews the latest developments in facilities, server, storage, networking, and monitoring technologies and provides a roadmap of how each can be used to create next-generation data centers that combine efficiency with scalability . . . Schulz's book provides an excellent primer for those wanting to understand how to create data centers for this new paradigm.Kurt Marko, in Processor, March 2009, Vol. 31, No. 11 What I like about Schulz's approach is that he doesn't really pass judgment on whether or not you should re-adjust your IT initiatives around some greener-good agenda. Hers' focused more so on illustrating how some of the technologies yours're already considering for the good of your business ndash; virtualization, blade platforms, cloud computing power management ndash; might otherwise be pretty cool for the environment, too.Heather Clancy, Green Tech Pastures, in ZDNet, February 26, 2009 Greg Schulz has presented a concise and visionary perspective on the Green issues.nbsp;He has cut through the hype and highlighted where to start and what the options are. A great place to start your green journey and a useful handbook to have as the journey continues.Greg Brunton, EDS/An HP Company I must admit that I have been slightly skeptical at times, when it comes to what the true value is behind all of the discussions on 'green' technologies in the data center. As someone who has seen both the end user and vendor side of things, I think my skepticism gets heightened more than it normally would be. This book really helped dispel my skepticism. ...extremely well organized and easy to follow.nbsp; Each chapter has a very good introduction and comprehensive summary.nbsp; This book could easily serve as a blueprint for organizations to follow when they look for ideas on how to design new data centers.nbsp; It's a great addition to an IT Bookshelf.Dr. Steve Guendert, Global Solutions Architect, Brocade Communications About the AuthorStorageIO Group, Stillwater, Minnesota, USA