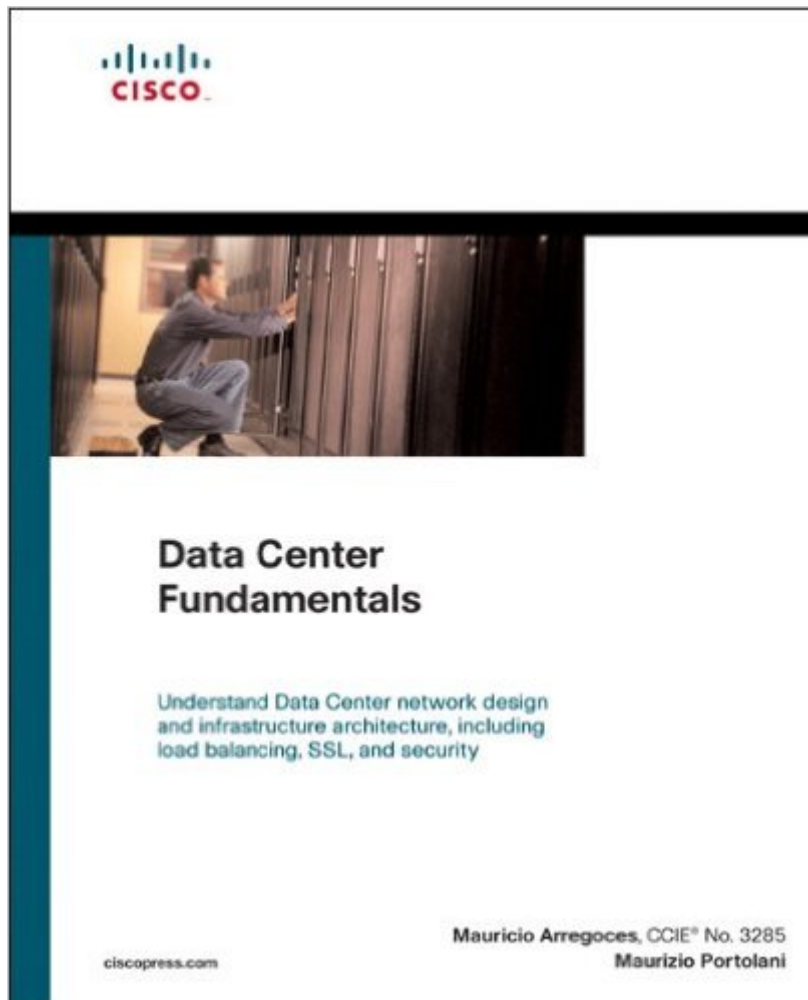


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# Data Center Fundamentals



## Synopsis

Master the basics of data centers to build server farms that enhance your Web site performance. Learn design guidelines that show how to deploy server farms in highly available and scalable environments. Plan site performance capacity with discussions of server farm architectures and their real-life applications to determine your system needs. Today's market demands that businesses have an Internet presence through which they can perform e-commerce and customer support, and establish a presence that can attract and increase their customer base. Underestimated hit ratios, compromised credit card records, perceived slow Web site access, or the infamous "Object Not Found" alerts make the difference between a successful online presence and one that is bound to fail. These challenges can be solved in part with the use of data center technology. Data centers switch traffic based on information at the Network, Transport, or Application layers. Content switches perform the "best server" selection process to direct users' requests for a specific service to a server in a server farm. The best server selection process takes into account both server load and availability, and the existence and consistency of the requested content. *Data Center Fundamentals* helps you understand the basic concepts behind the design and scaling of server farms using data center and content switching technologies. It addresses the principles and concepts needed to take on the most common challenges encountered during planning, implementing, and managing Internet and intranet IP-based server farms. An in-depth analysis of the data center technology with real-life scenarios make *Data Center Fundamentals* an ideal reference for understanding, planning, and designing Web hosting and e-commerce environments.

## Book Information

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## Customer Reviews

Data Center Fundamentals ISBN - 1587050234 By - Mauricio Arregoces and Maurizio

Portolani Publisher - Cisco Press As someone who has worked in and help design a couple Data Centers I looked to this book thinking I would find a good reference in design but one which covered much of my own knowledge already. While I wasn't entirely wrong I can honestly say this book holds much more inside it's covers than many much more expensive or comparable books hold combined. Being a "Fundamentals" book it follows true to the nature of not being for the plain interested or uninitiated technical type but then surprised me when I found a majority of the book exceptionally well thought out and explained in ways that even my mother could grasp. Those interested in learning what high availability really means and entails should read this book and understand it thoroughly. The tips and knowledge one can glean from this book is awesome just for the TCP/IP and network portions of the book and it truly does lead you down the path to large scale success. While every section of the book is almost a book of it's own (it is an extremely long book) and could likely get sold as such, this book takes head on the task of trying to cram into it every aspect you would need to delve into a world made up of fully redundant server and network architecture. As a good example, DNS, while reasonably simple and elegant has many facets to it that if improperly configured or understood can be a make or break item in many data centers. Security is yet another aspect that can either help or hurt a company and it's client base.

I recently read the title "Data Center Fundamentals", by Mauricio Arregoces and Maurizio Portolani. ISBN: 1587050234. This title has a ton of information in it. It covers just about every technology that could make up a Data Center environment. The authors have done a good job of cover detail about the several technologies in this title. Some technologies are covered in more detail than others. For example there's a lot of information on HTTP related technologies and not so much detail on say routing protocol. This makes sense, because the title is "Data Center Fundamental". This is a great title for someone that is not well versed in several technologies, because the authors have covered a great deal of information and has done a good job presenting the basics of each. This will give

someone that is not familiar with a certain technology the information they need to get an idea of the technology so they can continue to expand on what they've learned. Even though most of the basics are covered, the authors throw in great advanced information on technology that would pertain to Data Centers. I've learned a few nice advanced techniques on how to speed up network convergence when failures occur. The book is littered with nuggets of advanced techniques on ways to improve the overall architecture and performance of a Data Center. I would recommend this title to all IT personnel that are responsible for either Networking, System Administration, System and Network Operations, even Managers and Project Managers should have a copy on their desk. In this day and age, it's imperative that technical support personnel have knowledge that crosses over their job function and into other technologies that make up the rest of the 'Network'.

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