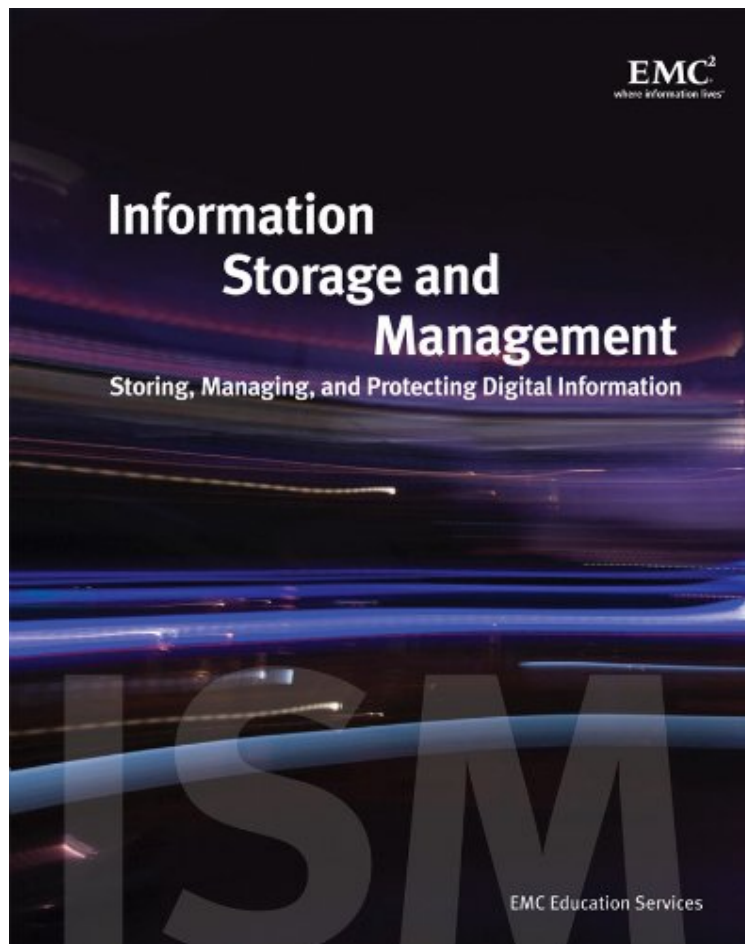


(Download pdf ebook) Information Storage and Management: Storing, Managing, and Protecting Digital Information

Information Storage and Management: Storing, Managing, and Protecting Digital Information

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Von Wiley : Information Storage and Management: Storing, Managing, and Protecting Digital Information before purchasing it in order to gage whether or not it would be worth my time, and all praised Information Storage and Management: Storing, Managing, and Protecting Digital Information:

KundenrezensionenHilfreichste Kundenrezensionen3 von 3 Kunden fanden die folgende Rezension hilfreich. Book nicely written to give a basic understanding of storage et al.Von S. RaaymanLet me start by saying that the book is an excellent read! It does cover the EMC products, but it is not written just for the EMC products, so it is a good read for anyone wanting to learn more about information storage and management (let's not forget the security part).To set the frame. I am a techie, and I'm proud of it. But... I'm my primary job is not administrating storage boxes. I work as a technical support consultant and am responsible for a variety of servers with various operating systems, and I am the

main point of contact for things like SAN and NAS for the server side, and I'm the go-to-guy when it comes to HA-clustering. But I noticed that the SAN part is something that really interests me and I am trying to gain knowledge there and I think that I'm doing a fairly good job in that area. As stated, since this was not my main area of responsibility I was not that deep in to everything covered in the ISM book. That's why this was of great use to me. It starts off by giving a general overview, or an introduction if you will, in what defines information storage and management. You can think of things like information lifecycle management and the general ways of managing everything. After that it's directly on to the tech stuff. You get introduced to various hardware components and get to know the inner workings of a hard drive. From controllers, to zoned bit recording, seek times, transfer rates, and you get to know how disk Input/Output (Disk I/O) is handled. This is one of my favorite chapters along with the chapter about RAID, because you really get all of the technical information you desire. One of the possible disadvantages is that in the I/O and performance part of these chapters you get hammered with formulas that allow you to calculate things like the average response time or the time spent in queue by a request. This can be quite challenging at first, and you really need to take your time to go through this material. If you don't have to calculate these kind of numbers every day, the book is an excellent help since you make a quick note and you can find the info quickly when you need it. Next up are storage systems. Intelligent ones even. This will line up the basic things that make up such a storage systems. Things like FE, BE and cache. How cache transactions can be processed and optimized and there is even a part in there about SSDs, and you get a first glimpse of EMC's boxes that share these properties. After that the book goes in to storage networking and virtualization. You find out more about DAS, (IP-)SAN, NAS and storage virtualization. Things explained are for example how SCSI was created (you get to learn the original name, Schugart Associates Serial Interface or SASI), which versions exist. You get to learn about initiators and why the SCSI-controller is always on ID 7. You learn the addressing and the SCSI command model. Also you learn about FC-connectors, topologies, fabrics and the pros and cons of NAS. iSCSI is also in there, but one thing I missed was a reference to FCoE, even it is only a remark about this new standard that was under development at the time of writing. Then on it goes to business continuity where you get an introduction to RPO and RTO (there's a subtle difference between them. I got to know during my exam. It gives you an overview on which things you can consider when you are planning your availability and gives you the advice to steer away from single points of failure (SPOF), a thing that I can only recommend. It gives you an overview of MPIO (or Powerpath as an EMC product), but doesn't actually go all too deep in to the material on that point. Backup and backup topologies are shown and they explain things like traditional tape backup and backup to disk. I can partly also understand why they put in the volume management parts here, but I think they would also fit in nicely with either the chapter about the disks (after all, the LVM sits on top of the FS which is covered in that chapter), but it is a nice start to explain things like clones, mirrors, remote copy and CoFW and CoFA. The last part is all about security. How to mitigate risks and how you can securely manage your storage. It shows you examples of SAN/NAS security zones and protection strategies. Things like zoning, ACL's and firewall's. Also it shows you what parts are existent when it comes to the monitoring of your environment. Think for example of security management, storage management or availability management. At the end you get an overview of all the acronyms and abbreviations, and last but not least an index. All in all I have to say that I like the book very much. It's a great reference and gives a good overview of what is out there. The style in which the book is written is pleasant, and you don't notice that the book is written (or there were contributions) by different people. What is a bit odd though, is that the "depth" in which some topics go seems to differ. You get to know everything about the packets that are being sent when it comes to IP-SAN, or for example SCSI. But when you talk about things like SSD, there is no mention of how the data is written to those disks or what the advantages and disadvantages are. Same thing for the DMX-series. You get a short overview which explains the direct matrix architecture, but it basically describes the same things as in the storage systems section. I would have loved to get a bit more in-depth info on the individual products, but to be fair, I think the book is there to give you an overview and not get into the EMC specifics too much. All in all I have to say that the book is great, and that I do see some room for improvement, but it's worth the money and I enjoyed reading it, even later in the evening in bed. There are not that many tech books that allow me to claim the same. Anyway, I hope this review is useful to anyone who is considering to buy the book. Give it a chance, I'm sure it'll be of use!

Kurzbeschreibung The spiraling growth of digital information makes the ISM book a "must have" addition to your IT reference library. This exponential growth has driven information management technology to new levels of sophistication and complexity, exposing a skills gap that challenge IT managers and professionals alike. The ISM book, written by storage professionals from EMC Corporation, takes an open approach to teaching information storage and management, focusing on concepts and principles rather than product specifics that can be applied in all IT environments. The book enables existing and aspiring IT professionals, students, faculty, and those simply wishing to gain deeper insight to this emerging pillar of IT infrastructure to achieve a comprehensive understanding of all

segments of information storage technology. Sixteen chapters are organized into four sections. Advanced topics build upon the topics learned in previous chapters. Section 1, "Information Storage and Management for Today's World": Four chapters cover information growth and challenges, define a storage system and its environment, review the evolution of storage technology, and introduce intelligent storage systems. Section 2, "Storage Options and Protocols": Six chapters cover the SCSI and Fibre channel architecture, direct-attached storage (DAS), storage area networks (SANs), network-attached storage (NAS), Internet Protocol SAN (IP-SAN), content-addressed storage (CAS), and storage virtualization. Section 3, "Business Continuity and Replication": Four chapters introduce business continuity, backup and recovery, local data replication, and remote data replication. Section 4, "Security and Administration": Two chapters cover storage security and storage infrastructure monitoring and management. The book's supplementary web site provides up-to-date information on additional learning aids and storage certification opportunities.

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Synopsis Information storage and management has emerged as a dominant information technology pillar. Written by EMC Education Services, this exclusive book is a comprehensive primer that details the evolution of storage from traditional deployment to consolidated networked storage that 'stores, protects, shares and leverages' information. Various business continuity solutions using local and remote replication technologies are detailed, along with backup recovery and archival techniques and the current trends in security and management of information storage.