

SAN design principles – configure storage array

This slide represents the second principle of Storage Area Network design: configuring the storage array. The purpose of this slide is to show you the guidelines for configuring the storage array, peak period activity, and caching techniques for servers, such as write and read cache.

Guidelines



- RAID groups are used to provide a specific level of input/output performance, capacity, and redundancy, and LUNs are assigned to RAID groups based on these needs
- If a particular RAID group cannot meet the required input/output performance, capacity, and response times, a different RAID group must be defined for the next set of LUNs
- Distribute the RAID groups across all internal channels and access paths in the storage arrays to achieve the required performance levels of input/output operations per second and response times

Peak Period Activity



- While designing SAN, base it on the peak-period activity and consider the nature of the input/output within each peak period
- Instantaneous peaks in input/output requirements may require additional storage array resources to be able to handle the workload
- Without additional resources, the IO requirements during peak periods may not be met, leading to performance degradation or even failure of the SAN

Caching



- Server systems can benefit from write cache, but the cache can become saturated if the input/output workload is intense enough
- Saturation of the cache reduces its effectiveness
- Cache is often allocated from a global pool, so it is essential to distribute it only if it is effective
- Read cache uses:
 - Read-ahead cache is helpful for certain activities that involve sequential IO, such as backups or accessing template repositories
 - Read cache may not be necessary when the application and operating system cache data are already stored within the virtual machine's memory

Principles Of San Design

Luis M. Camarinha-Matos



Principles Of San Design:

Principles of SAN Design Josh Judd, 2005-08-30 Storage Area Networks provide highly reliable high performance connectivity between hosts and storage devices This allows storage resource sharing improving asset utilization and enabling solutions such as high availability disaster recovery information lifecycle management and utility computing These solutions provide a high return on investment resulting in an accelerating SAN adoption rate in all IT markets This book provides an overview of SAN protocols and technologies and practical guidance on SAN design implementation and management topics Some future SAN trends and technologies are discussed but the focus is on designing SANs with current real world products such as Fibre Channel switches and routers *Principles of SAN Design* offers a one stop shop for SAN design knowledge Why wait Read the definitive work on SAN design today *Cisco CCNA Data Center DCICT 640-916 Official Certification Guide* Navaid Shamsee, David Klebanov, Hesham Fayed, Ahmed Afrose, Ozden Karakok, 2015 This is Cisco s official comprehensive self study resource for preparing for the new CCNA Data Center DCICT 640 916 certification exam Designed for all data center administrators and professionals seeking Cisco DCICT certification it covers every exam objective concisely and logically with extensive teaching features designed to promote retention and understanding Readers will find clear and practical coverage of Cisco s entire exam blueprint **Designing Cisco Network Service Architectures (ARCH)** John Tiso, Keith T. Hutton, 2012 *Designing Cisco Network Service Architectures ARCH Foundation Learning Guide Third Edition* is a Cisco R authorized self paced learning tool for CCDP R foundation learning This book provides you with the knowledge needed to perform the conceptual intermediate and detailed design of a network infrastructure that supports desired network solutions over intelligent network services in order to achieve effective performance scalability and availability By reading this book you will gain a thorough understanding of how to apply solid Cisco network solution models and recommended design practices to provide viable stable enterprise internetworking solutions The book presents concepts and examples that are necessary to design converged enterprise networks Advanced network infrastructure technologies such as virtual private networks VPNs and other security solutions are also covered *Designing Cisco Network Service Architectures ARCH Foundation Learning Guide Third Edition* teaches you the latest development in network design and technologies including network infrastructure intelligent network services and converged network solutions Specific topics include campus routing addressing WAN services data center e commerce SAN security VPN and IP multicast design as well as network management Chapter ending review questions illustrate and help solidify the concepts presented in the book Whether you are preparing for CCDP certification or simply want to gain a better understanding of designing scalable and reliable network architectures you will benefit from the foundation information presented in this book *Designing Cisco Network Service Architectures ARCH Foundation Learning Guide Third Edition* is part of a recommended learning path from Cisco that includes simulation and hands on training from authorized Cisco Learning Partners and self study products from

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Storage Area Networks For Dummies Christopher Poelker,Alex Nikitin,2009-01-06 If you ve been charged with setting up storage area networks for your company learning how SANs work and managing data storage problems might seem challenging Storage Area Networks For Dummies 2nd Edition comes to the rescue with just what you need to know Whether you already a bit SAN savvy or you re a complete novice here s the scoop on how SANs save money how to implement new technologies like data de duplication iScsi and Fibre Channel over Ethernet how to develop SANs that will aid your company s disaster recovery plan and much more For example you can Understand what SANs are whether you need one and what you need to build one Learn to use loops switches and fabric and design your SAN for peak performance Create a disaster recovery plan with the appropriate guidelines remote site and data copy techniques Discover how to connect or extend SANs and how compression can reduce costs Compare tape and disk backups and network vs SAN backup to choose the solution you need Find out how data de duplication makes sense for backup replication and retention Follow great troubleshooting tips to help you find and fix a problem Benefit from a glossary of all those pesky acronyms From the basics for beginners to advanced features like snapshot copies storage virtualization and heading off problems before they happen here s what you need to do the job with confidence

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Potter Ruth Leah Bunzel,1929 *The Pataphysician's Library* Ben Fisher,2000-01-01 The Pataphysician's Library is a study of aspects of 1890s French literature with specific reference to the traditions of Symbolism and Decadence Its main focus is Alfred Jarry who has proved perhaps surprisingly to be one of the more durable fin de siècle authors The originality of this study lies in its use of the enigmatic list of books termed the livres pairs which appears in Jarry's 1898 novel *Gestes et Opinions du docteur Faustroll pataphysicien* his best known prose work The greatest interest of the livres pairs lies in a group of works by Jarry's friends and contemporaries primarily Leon Bloy Georges Darien Gustave Kahn Catulle Mendès Josephin Madan Rachilde and Henri de Regnier Several of these authors feature as the lords of islands visited by the pataphysician Dr Faustroll in his curious voyage around Paris In conjunction with Jarry's own works the contemporary livres pairs serve to illustrate the vibrant and experimental atmosphere in which these authors worked Designing Planned

Communities Daniel R. Mandelker,2010 *Designing Planned Communities* is a clear statement of the design issues that are critical to creating livable and well designed planned communities Professor Mandelker draws on his long experience with planned community and land use regulation to explain the meaning of good design for planned communities He shows how design concepts for planned communities can be translated into effective design guidance by local governments Examples of design standards are provided from comprehensive plans design guidelines design manuals and planned community regulations Throughout *Designing Planned Communities* the reader is taken through the complex problems of design regulation to an effective design program that can create planned communities in which we want to live Planners and lawyers will be interested in what Mandelker has to say about the design issues facing a growing number of planned communities throughout the country Planning and local government attorneys will find the information about the legality of innovative design plans most interesting and helpful Mandelker provides examples of localities that have experimented with a variety of design approaches and explores case law that will have an impact on these innovations Michael Allan Wolf Professor Richard E Nelson Chair in Local Government Law University of Florida Fredric G Levin College of Law

Electronic Design Automation Laung-Terng Wang,Yao-Wen Chang,Kwang-Ting (Tim) Cheng,2009-03-11 This book provides broad and comprehensive coverage of the entire EDA flow EDA VLSI practitioners and researchers in need of fluency in an adjacent field will find this an invaluable reference to the basic EDA concepts principles data structures algorithms and architectures for the design verification and test of VLSI circuits Anyone who needs to learn the concepts principles data structures algorithms and architectures of the EDA flow will benefit from this book Covers complete spectrum

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Tidwell,2005-11-21 Designing a good interface isn't easy Users demand software that is well behaved good looking and easy to use Your clients or managers demand originality and a short time to market Your UI technology web applications desktop software even mobile devices may give you the tools you need but little guidance on how to use them well UI designers over the years have refined the art of interface design evolving many best practices and reusable ideas If you learn these and understand why the best user interfaces work so well you too can design engaging and usable interfaces with less guesswork and more confidence Designing Interfaces captures those best practices as design patterns solutions to common design problems tailored to the situation at hand Each pattern contains practical advice that you can put to use immediately plus a variety of examples illustrated in full color You'll get recommendations design alternatives and warnings on when not to use them Each chapter's introduction describes key design concepts that are often misunderstood such as affordances visual hierarchy navigational distance and the use of color These give you a deeper understanding of why the patterns work and how to apply them with more insight A book can't design an interface for you no foolproof design process is given here but Designing Interfaces does give you concrete ideas that you can mix and recombine as you see fit Experienced designers can use it as a sourcebook of ideas Novice designers will find a roadmap to the world of interface and interaction design with enough guidance to start using these patterns immediately Art Principles in House, Furniture, and Village Building

Arthur Bridgman Clark,1921 **The Urban Design Reader** Michael Larice,Elizabeth Macdonald,2013-05-07 The second edition of The Urban Design Reader draws together the very best of classic and contemporary writings to illuminate and expand the theory and practice of urban design Nearly 50 generous selections include seminal contributions from Howard Le Corbusier Lynch and Jacobs to more recent writings by Waldheim Koolhaas and Sorkin Following the widespread success of the first edition of The Urban Design Reader this updated edition continues to provide the most important historical material of the urban design field but also introduces new topics and selections that address the myriad challenges facing designers today The six part structure of the second edition guides the reader through the history theory and practice of urban design The reader is initially introduced to those classic writings that provide the historical precedents for city making into the twentieth century Part Two introduces the voices and ideas that were instrumental in establishing the foundations of the urban design field from the late 1950s up to the mid 1990s These authors present a critical reading of the design professions

and offer an alternative urban design agenda focused on vital and lively places The authors in Part Three provide a range of urban design rationales and strategies for reinforcing local physical identity and the creation of memorable places These selections are largely describing the outcomes of mid century urban design and voicing concerns over the placeless quality of contemporary urbanism The fourth part of the Reader explores key issues in urban design and development Ideas about sprawl density community health public space and everyday life are the primary focus here Several new selections in this part of the book also highlight important international development trends in the Middle East and China Part Five presents environmental challenges faced by the built environment professions today including recent material on landscape urbanism sustainability and urban resiliency The final part examines professional practice and current debates in the field where urban designers work what they do their roles their fields of knowledge and their educational development The section concludes with several position pieces and debates on the future of urban design practice This book provides an essential resource for students and practitioners of urban design drawing together important but widely dispersed writings Part and section introductions are provided to assist readers in understanding the context of the material summary messages impacts of the writing and how they fit into the larger picture of the urban design field

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Transformative Design: Understanding the Principle, Processes and Products Soozhee Low, 2008-10-20 The first Transformative Design text and resource for multi disciplinary designers individuals and companies seeking to understand and create transformative change or innovation This resource provides insight and guidance into this unique realm It delves into the essential principle and three approaches of transformation and also the transformative processes or steps that lead to the creations of unique transformative product outcomes To accompany this resource is also insight into the author s own transformative experiences as a practicing designer and researcher of Transformative Design and how this knowledge can be applied as a model

Design Review Brenda C. Scheer, Wolfgang F.E. Preiser, 2012-12-06 That the topic of design review is somehow trou My biases are clear from the start I am among those who believe that despite all signals to the contrary the physical structure of our environment agree on Beyond this however I suspect prospects of consensus are dim Differing opinions must be managed and that controlling it is on the subject likely range from those desiring the key to the amelioration of numerous problems control to those desiring freedom Says one camp confronting society

today I believe that design our physical and natural environments are going can solve a host of problems and that the design to hell in a hand basket Says the other design of the physical environment does influence be review boards are only as good as their members havior more often than not their interventions produce Clearly this is a perspective that encompasses mediocre architecture more than one building at a time and demands As a town planner and architect I am sympha that each building understand its place in a larger thetic to the full range of sentiment Perhaps a context the city Indeed anyone proposing discussion of these two concepts control and physical solutions to urban problems is designing freedom and their differences would now be or as may seem more often the case destroying useful But let me instead suggest that both posi the city

Designing Information Literacy Instruction Joan R. Kaplowitz, 2014-05-01 Designing Information Literacy Instruction The Teaching Tripod Approach provides a working knowledge of how instructional design ID applies to information literacy instruction ILI Its how to do it approach is directed at instruction librarians in all library settings and deals with both face to face and online ID issues No matter where an instruction librarian works whom they are teaching or what delivery mode they will be using the ID process remains the same Start with the user and the user s needs Identify the instructional problem s Develop outcomes that address these problem s Use outcomes to drive both the learning activities included and the assessments used to measure the attainment of the success of the instructional endeavor This book will help instruction librarians create instruction for all types of environments and in all modes of delivery It includes exercises and worksheets to help the reader work through the instructional design process Based on Kaplowitz s innovative Teaching Tripod model it will help instructional librarians clearly define the crucial links between outcomes activities and assessment

Collaborative Business Ecosystems and Virtual Enterprises Luis M. Camarinha-Matos, 2013-06-29 Towards collaborative business ecosystems Last decade was fertile in the emerging of new collaboration mechanisms and forms of dynamic virtual organizations leading to the concept of dynamic business ecosystem which is supported or induced by the progress of the ubiquitous I pervasive computing and networking The new technologies collaborative business models and organizational forms supported by networking tools invade all traditional businesses and organizations what requires thinking in terms of whole systems i e seeing each business as part of a wider economic ecosystem and environment It is also becoming evident that the agile formation of very dynamic virtual organizations depends on the existence of a proper longer term embedding or nesting environment e g regional industry cluster in order to guarantee certain basic requirements such as trust building Trusting your partner is a gradual and long process common interoperability ontology and distributed collaboration infrastructures agreed business practices requiring substantial engineering Ire engineering efforts a sense of community we vs the others and some sense of stability when is a dynamic state or a stationary state useful The more frequent situation is the case in which this nesting environment is formed by organizations located in a common region although geography is not a major facet when cooperation is supported by computer networks **The Builder** ,1875

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