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IBM Cloud Object Storage System Product Guide IBM Redbooks *Object storage is the primary storage solution that is used in the cloud and on-premises solutions as a central storage platform for unstructured data. IBM® Cloud Object Storage (COS) is a software-defined storage platform that breaks down barriers for storing massive amounts of data by optimizing the placement of data on commodity x86 servers across the enterprise. This IBM Redbooks® publication describes the major features, use case scenarios, deployment options, configuration details, initial customization, performance, and scalability considerations of IBM Cloud® Object Storage on-premises offering. For more information about the IBM Cloud Object Storage architecture and technology that is behind the product, see IBM Cloud Object Storage Concepts and Architecture: System Edition, REDP-5537-02. The target audience for this publication is IBM Cloud Object Storage IT specialists and storage administrators.* **Briggs Enterprise Cloud epUB _1** Microsoft Press *How do you start? How should you build a plan for cloud migration for your entire portfolio? How will your organization be affected by these changes? This book, based on real-world cloud experiences by enterprise IT teams, seeks to provide the answers to these questions. Here, you'll see what makes the cloud so compelling to enterprises; with which applications you should start your cloud journey; how your organization will change, and how skill sets will evolve; how to measure progress; how to think about security, compliance, and business buy-in; and how to exploit the ever-growing feature set that the cloud offers to gain strategic and competitive advantage.* **Implementing Cisco Hyperflex Solutions** Networking Technology *Cisco HyperFlex solutions enhance data center efficiency, agility, and resiliency by tightly integrating core infrastructure (compute, storage, networking, and system management), increasing automation, and simplifying lifecycle management. This authoritative, comprehensive guide brings together knowledge, detailed configuration options, and real-world case studies for successfully deploying Cisco HyperFlex technologies in environments of all types. Three expert authors present easy-to-understand overviews of key Hyperconverged Infrastructure (HCI) concepts, show how HyperFlex technologies apply them, and present detailed reference examples with topologies, configurations, and verifications for each major feature. Drawing on extensive experience helping Cisco customers adopt HyperFlex, they present best practices for optimizing design, streamlining deployment, avoiding pitfalls, and maximizing value. This guide will be indispensable to every IT and network professional, manager, or consultant involved in planning, deploying, or operating Cisco HyperFlex or evaluating any HCI solution. Reflecting current trends in HCI deployment, it will be valuable in both small-scale environments and large-scale data centers. Explore how and why data centers have evolved from traditional to converged and hyperconverged infrastructure Review the essentials of HyperFlex hyperconverged infrastructure connectivity Understand HyperFlex Data Platform architecture, components, topologies, and supported hardware Compare HyperFlex standard, stretch, and edge clusters, and understand their respective roles Install and deploy each type of Cisco HyperFlex cluster, including preparation, prerequisites, and components Manage HyperFlex via HyperFlex Connect: HX storage cluster status, components, encryption, replication, and more Maintain HyperFlex: clustering, virtual machine management, native snapshots, ReadyClones, and more Scale HyperFlex clusters, replace hardware, and upgrade software Configure and manage advanced HyperFlex Data Platform disaster recovery features Integrate supported third-party data protection solutions, including Veeam Availability Suite, Cohesity, and Commvault Utilize the cloud-based Cisco Intersight platform to deploy HyperFlexAnywhere, including edge and standard clusters* **Learning Amazon Web Services (AWS) A Hands-On Guide to the Fundamentals of AWS Cloud** Addison-Wesley Professional *The Practical, Foundational Technical Introduction to the World's #1 Cloud Platform Includes access to several hours of online training video: Mark Wilkins' expert training video library guides you through setting up core services and prepares you to deploy your own apps and resources. Learning Amazon Web Services (AWS) is the perfect foundational resource for all administrators, developers, project managers, and other IT professionals who want to plan and deploy AWS services and/or earn AWS certification. Top cloud trainer and evangelist Mark Wilkins teaches best practices that align with Amazon's Well-Architected Framework, introduces key concepts in the context of a running case study, carefully explains how core AWS services operate and integrate, and offers extensively tested tips for maximizing flexibility, security, and value. Companion online videos guide you step-by-step through setting AWS compute, storage, networking, scale, security, automation, and more. Balance cost, compliance, and latency in your service designs Choose the right networking options for your virtual private cloud (VPC) Build, host, launch, manage, and budget for EC2 compute services Plan for scale and resiliency, and make informed decisions about AWS storage Enforce strict security, and automate to improve operational efficiency This book with companion training videos is a valuable learning tool for anyone seeking to demonstrate expertise through formal certification. WEB EDITION: All buyers of the book or ebook can register your book for access to a free online Web Edition of this title, which included videos embedded within the text, plus updates as they become available.* **IBM ProtecTIER Implementation and Best Practices Guide** IBM Redbooks *This IBM® Redbooks® publication provides best practice guidance for planning, installing, configuring, and employing the IBM TS7600*

ProtecTIER® family of products. It provides the latest best practices for the practical application of ProtecTIER Software Version 3.4. This latest release introduces the new ProtecTIER Enterprise Edition TS7650G DD6 model high performance server. This book also includes information about the revolutionary and patented IBM HyperFactor® deduplication engine, along with other data storage efficiency techniques, such as compression and defragmentation. The IBM System Storage® TS7650G ProtecTIER Deduplication Gateway and the IBM System Storage TS7620 ProtecTIER Deduplication Appliance Express are disk-based data storage systems: The Virtual Tape Library (VTL) interface is the foundation of ProtecTIER and emulates traditional automated tape libraries. For your existing ProtecTIER solution, this guide provides best practices and suggestions to boost the performance and the effectiveness of data deduplication with regards to your application platforms for your VTL and FSI (systems prior to version 3.4). When you build a ProtecTIER data deduplication environment, this guide can help IT architects and solution designers plan for the best option and scenario for data deduplication for their environments. This book can help you optimize your deduplication ratio, while reducing the hardware, power and cooling, and management costs. This Redbooks publication provides expertise that was gained from an IBM ProtecTIER System Client Technical Specialist (CTS), Development, and Quality Assurance teams. This planning should be done by the Sales Representative or IBM Business Partner, with the help of an IBM System CTS or IBM Solution Architect. **Modern Data Protection** "O'Reilly Media, Inc." Give your organization the data protection it deserves without the uncertainty and cost overruns experienced by your predecessors or other companies. System and network administrators have their work cut out for them to protect physical and virtual machines in the data center and the cloud; mobile devices including laptops and tablets; SaaS services like Microsoft 365, Google Workspace, and Salesforce; and persistent data created by Kubernetes and container workloads. To help you navigate the breadth and depth of this challenge, this book presents several solutions so you can determine which is right for your company. You'll learn the unique requirements that each workload presents, then explore various categories of commercial backup hardware, software, and services available to protect these data sources, including the advantages and disadvantages of each approach. Learn the workload types that your organization should be backing up Explore the hardware, software, and services you can use to back up your systems Understand what's wrong with your current data protection system Pair your backed-up workloads to the appropriate backup system Learn the adjustments that will make your backups better, without wasting money **SAP on Microsoft Azure Architecture and Administration** SAP Press Run your SAP system on Microsoft Azure with this guide to architecture design and system administration! Get to know Microsoft Azure and its prerequisites, service options, and supported SAP products. Plan and build your system to last with high availability and disaster recovery, and then see how to migrate and operate your system once it's live. Learn to configure and use encryption, backups, automation, compliance, and other key features. Make your cloud project painless! a. Designing Your System Begin with design considerations: sizing, availability, security, cost, and more. Then understand Microsoft Azure's architecture and recommended practices for architecture design and service configuration. Walk through network architecture, storage options, and optimizations for your system. b. Operating Your System Make sure your system is operating at peak efficiency with tools like SAP Solution Manager and Azure monitor, and keep the bottom line in mind with cost management tools. c. Protecting Your System Hope for the best, plan for the worst. Make sure your system can run without significant downtime (high availability) and can be restored in the event of failure (disaster recovery). Leverage backup mechanisms, shared storage, and encryption to make your system resilient! d. Preparing for Migration Evaluate your migration readiness, preview the states of any migration project, and begin planning your migration. 1) Architecture 2) Deployment models and infrastructure 3) High availability and disaster recovery 4) Automation 5) Encryption 6) Governance and compliance 7) Backup and recovery 8) Migration 9) Operations and monitoring 10) Case studies **OpenStack for Architects** Packt Publishing Ltd Design and implement successful private clouds with OpenStack About This Book Explore the various design choices available for cloud architects within an OpenStack deployment Craft an OpenStack architecture and deployment pipeline to meet the unique needs of your organization Create a product roadmap for Infrastructure as a Service in your organization using this hands-on guide Who This Book Is For This book is written especially for those who will design OpenStack clouds and lead their implementation. These people are typically cloud architects, but may also be in product management, systems engineering, or enterprise architecture. What You Will Learn Familiarize yourself with the components of OpenStack Build an increasingly complex OpenStack lab deployment Write compelling documentation for the architecture teams within your organization Apply Agile configuration management techniques to deploy OpenStack Integrate OpenStack with your organization's identity management, provisioning, and billing systems Configure a robust virtual environment for users to interact with Use enterprise security guidelines for your OpenStack deployment Create a product roadmap that delivers functionality quickly to the users of your platform In Detail Over the last five years, hundreds of organizations have successfully implemented Infrastructure as a Service (IaaS) platforms based on OpenStack. The huge amount of investment from these organizations, industry giants such as IBM and HP, as well as open source leaders such as Red Hat have led analysts to label OpenStack as the most important open source technology since the Linux operating system. Because of its ambitious scope, OpenStack is a complex and fast-evolving open source project that requires a diverse skill-set to design and implement it. This guide leads you through each of the major decision points that you'll face while architecting an OpenStack private cloud for your organization. At each point, we offer you advice based on the experience we've gained from designing and leading successful OpenStack projects in a wide range of industries. Each chapter also includes lab material that gives you a chance to install and configure the technologies used to build production-quality OpenStack clouds. Most importantly, we focus on ensuring that your OpenStack project meets the needs of your organization, which will guarantee a successful rollout. Style and approach This is practical, hands-on guide to implementing OpenStack clouds, where each topic is illustrated with real-world examples and then the technical points are proven in the lab. **Microservices with Azure** Packt Publishing Ltd Architect enterprise-grade, Microservice-based solutions using Microsoft Azure Service Fabric. About This Book Explore architectural patterns for building modern day Microservice-based systems Learn about Microsoft Service Fabric as a platform to host distributed Microservices Discover multiple options for hosting Microservices on heterogeneous, cross-platform environments Learn to configure Azure Service Fabric clusters for enterprise-grade service deployments Who This Book Is For The book is aimed at IT architects, system administrators, and DevOps engineers who have a basic knowledge of the Microsoft Azure platform and are working on, or are curious about, the concepts of Microservices and Microservice architecture. What You Will Learn

Understand the basics of Microservices and how Microsoft Azure fits into the equation Master Azure Service Fabric architecture and services Explore Azure Service Fabric application programming models Comprehensive study of various architecture patterns for building enterprise-grade Microservices Manage and deploy Microservices on Azure Service Fabric An insight into the future of Microservices with containers and serverless computing In Detail Microsoft Azure is rapidly evolving and is widely used as a platform on which you can build Microservices that can be deployed on-premise and on-cloud heterogeneous environments through Microsoft Azure Service Fabric. This book will help you understand the concepts of Microservice application architecture and build highly maintainable and scalable enterprise-grade applications using the various services in Microsoft Azure Service Fabric. We will begin by understanding the intricacies of the Microservices architecture and its advantages over the monolithic architecture and Service Oriented Architecture (SOA) principles. We will present various scenarios where Microservices should be used and walk you through the architectures of Microservice-based applications. Next, you will take an in-depth look at Microsoft Azure Service Fabric, which is the best–in-class platform for building Microservices. You will explore how to develop and deploy sample applications on Microsoft Azure Service Fabric to gain a thorough understanding of it. Building Microservice-based application is complicated. Therefore, we will take you through several design patterns that solve the various challenges associated with realizing the Microservices architecture in enterprise applications. Each pattern will be clearly illustrated with examples that you can keep referring to when designing applications. Finally, you will be introduced to advanced topics such as Serverless computing and DevOps using Service Fabric, to help you undertake your next venture with confidence. Style and approach This book introduces its readers to the concept of Microservices and Microsoft Azure Service Fabric as a distributed platform to host enterprise-grade Microservices. It then addresses common architectural challenges associated with the Microservice architecture, using proven architectural patterns. **VMware vCloud Director Cookbook** <u>Packt Publishing Ltd</u> *VMware vCloud Director Cookbook will adopt a Cookbook-based approach. Packed with illustrations and programming examples, this book explains the simple as well as the complex recipes in an easy-to-understand language.VMware vCloud Director Cookbook is aimed at system administrators and technical architects moving from a virtualized environment to cloud environments. Familiarity with cloud computing platforms and some knowledge of virtualization and managing cloud environments is expected.* **Whistleblowing for Change Exposing Systems of Power and Injustice** <u>transcript Verlag</u> *The courageous acts of whistleblowing that inspired the world over the past few years have changed our perception of surveillance and control in today's information society. But what are the wider effects of whistleblowing as an act of dissent on politics, society, and the arts? How does it contribute to new courses of action, digital tools, and contents? This urgent intervention based on the work of Berlin's Disruption Network Lab examines this growing phenomenon, offering interdisciplinary pathways to empower the public by investigating whistleblowing as a developing political practice that has the ability to provoke change from within.* **Data Deduplication Approaches Concepts, Strategies, and Challenges** <u>Academic Press</u> *In the age of data science, the rapidly increasing amount of data is a major concern in numerous applications of computing operations and data storage. Duplicated data or redundant data is a main challenge in the field of data science research. Data Deduplication Approaches: Concepts, Strategies, and Challenges shows readers the various methods that can be used to eliminate multiple copies of the same files as well as duplicated segments or chunks of data within the associated files. Due to ever-increasing data duplication, its deduplication has become an especially useful field of research for storage environments, in particular persistent data storage. Data Deduplication Approaches provides readers with an overview of the concepts and background of data deduplication approaches, then proceeds to demonstrate in technical detail the strategies and challenges of real-time implementations of handling big data, data science, data backup, and recovery. The book also includes future research directions, case studies, and real-world applications of data deduplication, focusing on reduced storage, backup, recovery, and reliability. Includes data deduplication methods for a wide variety of applications Includes concepts and implementation strategies that will help the reader to use the suggested methods Provides a robust set of methods that will help readers to appropriately and judiciously use the suitable methods for their applications Focuses on reduced storage, backup, recovery, and reliability, which are the most important aspects of implementing data deduplication approaches Includes case studies* **Harnessing Green IT Principles and Practices** <u>John Wiley & Sons</u> *"Ultimately, this is a remarkable book, a practicaltestimonial, and a comprehensive bibliography rolled into one. Itis a single, bright sword cut across the various murky green ITtopics. And if my mistakes and lessons learned through the green ITjourney are any indication, this book will be used every day byfolks interested in greening IT." — Simon Y. Liu, Ph.D. & Ed.D.,Editor-in-Chief, IT Professional Magazine, IEEEComputer Society, Director, U.S. National AgriculturalLibrary This book presents a holistic perspective on Green IT bydiscussing its various facets and showing how to strategicallyembrace it Harnessing Green IT: Principles andPractices examines various ways of making computing andinformation systems greener – environmentally sustainable -,as well as several means of using Information Technology (IT) as atool and an enabler to improve the environmental sustainability.The book focuses on both greening of IT and greening by IT –complimentary approaches to attaining environmental sustainability. In a single volume, it comprehensively covers severalkey aspects of Green IT - green technologies, design, standards,maturity models, strategies and adoption -, and presents a clearapproach to greening IT encompassing green use, green disposal,green design, and green manufacturing. It also illustrates how tostrategically apply green IT in practice in several areas. Key Features: Presents a comprehensive coverage of key topics of importanceand practical relevance - green technologies, design,standards, maturity models, strategies and adoption Highlights several useful approaches to embracing green IT inseveral areas Features chapters written by accomplished experts from industryand academia who have first-hand knowledge and expertise inspecific areas of green IT Presents a set of review and discussion questions for eachchapter that will help the readers to examine and explore the greenIT domain further Includes a companion website providing resources forfurther information and presentation slides This book will be an invaluable resource for IT Professionals,academics, students, researchers, project leaders/managers, ITbusiness executives, CIOs, CTOs and anyone interested in Green ITand harnessing it to enhance our environment.* **Information Storage and Management Storing, Managing, and Protecting Digital Information in Classic, Virtualized, and Cloud Environments** <u>John Wiley & Sons</u> *The new edition of a bestseller, now revised and update throughout! This new edition of the unparalleled bestseller serves as a full training course all in one and as the world's largest data storage company, EMC is the ideal author for such a critical resource. They cover the components of a storage system and the different storage system*

models while also offering essential new material that explores the advances in existing technologies and the emergence of the "Cloud" as well as updates and vital information on new technologies. Features a separate section on emerging area of cloud computing Covers new technologies such as: data de-duplication, unified storage, continuous data protection technology, virtual provisioning, FCoE, flash drives, storage tiering, big data, and more Details storage models such as Network Attached Storage (NAS), Storage Area Network (SAN), Object Based Storage along with virtualization at various infrastructure components Explores Business Continuity and Security in physical and virtualized environment Includes an enhanced Appendix for additional information This authoritative guide is essential for getting up to speed on the newest advances in information storage and management. **IBM SONAS Implementation Guide** IBM Redbooks *IBM® Scale Out Network Attached Storage (SONAS) is a scale out network-attached storage offering that is designed to manage vast repositories of information in enterprise environments that require large capacities, high levels of performance, and high availability. SONAS provides a range of reliable, scalable storage solutions for various storage requirements. These capabilities are achieved by using network access protocols such as Network File System (NFS), Common Internet File System (CIFS), Hypertext Transfer Protocol Secure (HTTPS), File Transfer Protocol (FTP), and Secure Copy Protocol (SCP). Using built-in RAID technologies, all data is well-protected with options to add more protection through mirroring, replication, snapshots, and backup. These storage systems are also characterized by simple management interfaces that make installation, administration, and troubleshooting uncomplicated and straightforward. This IBM Redbooks® publication is the companion to IBM SONAS Best Practices, SG24-8051. It is intended for storage administrators who have ordered their SONAS solution and are ready to install, customize, and use it. It provides backup and availability scenarios information about configuration and troubleshooting. This book applies to IBM SONAS Version 1.5.5. It is useful for earlier releases of IBM SONAS as well.* **Implementing the IBM Storwize V3500** IBM Redbooks *Businesses of all sizes are faced with the challenge of managing huge volumes of data that are becoming increasingly valuable. But storing this data can be costly, and extracting value from the data is becoming more and more difficult. IT organizations have limited resources and cannot afford to make investment mistakes. The IBM® Storwize® V3500 system provides a smarter solution that is affordable, simple, and efficient, which enables businesses to overcome their storage challenges. IBM Storwize V3500 is the most recent addition to the IBM Storwize family of disk systems. It delivers easy-to-use, entry-level configurations that are specifically designed to meet the modest budgets of small and medium-sized businesses. IBM Storwize V3500 features the following highlights: - Consolidate and share data with low cost iSCSI storage networking. - Deploy storage in minutes and perform storage management tasks quickly and easily through a breakthrough graphical user interface. - Experience peace of mind with proven IBM Storwize family high-availability data protection with snapshot technology and IBM warranty support. - Optimize efficiency by allocating only the amount of disk space needed at the time it is required with high performance, thin-provisioning capabilities.* **The DAM Book Digital Asset Management for Photographers** "O'Reilly Media, Inc." *One of the main concerns for digital photographers today is asset management: how to file, find, protect, and re-use their photos. The best solutions can be found in The DAM Book, our bestselling guide to managing digital images efficiently and effectively. Anyone who shoots, scans, or stores digital photographs is practicing digital asset management (DAM), but few people do it in a way that makes sense. In this second edition, photographer Peter Krogh -- the leading expert on DAM -- provides new tools and techniques to help professionals, amateurs, and students: Understand the image file lifecycle: from shooting to editing, output, and permanent storage Learn new ways to use metadata and key words to track photo files Create a digital archive and name files clearly Determine a strategy for backing up and validating image data Learn a catalog workflow strategy, using Adobe Bridge, Camera Raw, Adobe Lightroom, Microsoft Expression Media, and Photoshop CS4 together Migrate images from one file format to another, from one storage medium to another, and from film to digital Learn how to copyright images To identify and protect your images in the marketplace, having a solid asset management system is essential. The DAM Book offers the best approach.*
Telecommunications Strategic Plan SAP HANA Administration SAP PRESS *Who says that a leopard can't change its spots? With the advent of SAP HANA, database administration is evolving - and you can evolve along with it. In this title, you can learn how traditional administration concepts are applied in SAP HANA, and find out about the new concepts relevant to an in-memory database.*
Solutions Architect's Handbook Kick-start your solutions architect career by learning architecture design principles and strategies Packt Publishing Ltd *This book will show you how to create robust, scalable, highly available and fault-tolerant solutions by learning different aspects of Solution architecture and next-generation architecture design in the Cloud environment.* **Cloud Native Data Center Networking Architecture, Protocols, and Tools** "O'Reilly Media, Inc." *If you want to study, build, or simply validate your thinking about modern cloud native data center networks, this is your book. Whether you're pursuing a multitenant private cloud, a network for running machine learning, or an enterprise data center, author Dinesh Dutt takes you through the steps necessary to design a data center that's affordable, high capacity, easy to manage, agile, and reliable. Ideal for network architects, data center operators, and network and containerized application developers, this book mixes theory with practice to guide you through the architecture and protocols you need to create and operate a robust, scalable network infrastructure. The book offers a vendor-neutral way to look at network design. For those interested in open networking, this book is chock-full of examples using open source software, from FRR to Ansible. In the context of a cloud native data center, you'll examine: Clos topology Network disaggregation Network operating system choices Routing protocol choices Container networking Network virtualization and EVPN Network automation* **IBM and Cisco: Together for a World Class Data Center** IBM Redbooks *This IBM® Redbooks® publication is an IBM and Cisco collaboration that articulates how IBM and Cisco can bring the benefits of their respective companies to the modern data center. It documents the architectures, solutions, and benefits that can be achieved by implementing a data center based on IBM server, storage, and integrated systems, with the broader Cisco network. We describe how to design a state-of-the art data center and networking infrastructure combining Cisco and IBM solutions. The objective is to provide a reference guide for customers looking to build an infrastructure that is optimized for virtualization, is highly available, is interoperable, and is efficient in terms of power and space consumption. It will explain the technologies used to build the infrastructure, provide use cases, and give guidance on deployments.* **This Week Data Center Deployment with EVPN/VXLAN Data Center Handbook** John Wiley & Sons *Provides the fundamentals, technologies, and best practices in designing, constructing and managing mission critical, energy efficient data centers Organizations in need of high-speed connectivity and nonstop*

systems operations depend upon data centers for a range of deployment solutions. A data center is a facility used to house computer systems and associated components, such as telecommunications and storage systems. It generally includes multiple power sources, redundant data communications connections, environmental controls (e.g., air conditioning, fire suppression) and security devices. With contributions from an international list of experts, The Data Center Handbook instructs readers to: Prepare strategic plan that includes location plan, site selection, roadmap and capacity planning Design and build "green" data centers, with mission critical and energy-efficient infrastructure Apply best practices to reduce energy consumption and carbon emissions Apply IT technologies such as cloud and virtualization Manage data centers in order to sustain operations with minimum costs Prepare and practice disaster reovery and business continuity plan The book imparts essential knowledge needed to implement data center design and construction, apply IT technologies, and continually improve data center operations. **Ransomware Revealed A Beginner's Guide to Protecting and Recovering from Ransomware Attacks** Apress *Know how to mitigate and handle ransomware attacks via the essential cybersecurity training in this book so you can stop attacks before they happen. Learn the types of ransomware, distribution methods, internal structure, families (variants), defense strategies, recovery methods, and legal issues related to reporting ransomware incidents to authorities and other affected parties. This book also teaches you how to develop a ransomware incident response plan to minimize ransomware damage and recover normal operations quickly. Ransomware is a category of malware that can encrypt your computer and mobile device files until you pay a ransom to unlock them. Ransomware attacks are considered the most prevalent cybersecurity threats today—the number of new ransomware variants has grown 30-fold since 2015 and they currently account for roughly 40% of all spam messages. Attacks have increased in occurrence from one every 40 seconds to one every 14 seconds. Government and private corporations are targets. Despite the security controls set by organizations to protect their digital assets, ransomware is still dominating the world of security and will continue to do so in the future. Ransomware Revealed discusses the steps to follow if a ransomware infection occurs, such as how to pay the ransom through anonymous payment methods, perform a backup and restore your affected files, and search online to find a decryption tool to unlock (decrypt) your files for free. Mitigation steps are discussed in depth for both endpoint devices and network systems. What You Will Learn Be aware of how ransomware infects your system Comprehend ransomware components in simple terms Recognize the different types of ransomware familiesIdentify the attack vectors employed by ransomware to infect computer systemsKnow how to prevent ransomware attacks from successfully comprising your system and network (i.e., mitigation strategies) Know what to do if a successful ransomware infection takes place Understand how to pay the ransom as well as the pros and cons of paying Set up a ransomware response plan to recover from such attacks Who This Book Is For Those who do not specialize in the cybersecurity field (but have adequate IT skills) and want to fully understand the anatomy of ransomware threats. Although most of the book's content will be understood by ordinary computer users, it will also prove useful for experienced IT users aiming to understand the ins and outs of ransomware threats without diving deep into the technical jargon of the internal structure of ransomware.* **Business Continuity and Disaster Recovery Planning for IT Professionals** Butterworth-Heinemann *Powerful Earthquake Triggers Tsunami in Pacific. Hurricane Katrina Makes Landfall in the Gulf Coast. Avalanche Buries Highway in Denver. Tornado Touches Down in Georgia. These headlines not only have caught the attention of people around the world, they have had a significant effect on IT professionals as well. As technology continues to become more integral to corporate operations at every level of the organization, the job of IT has expanded to become almost all-encompassing. These days, it's difficult to find corners of a company that technology does not touch. As a result, the need to plan for potential disruptions to technology services has increased exponentially. That is what Business Continuity Planning (BCP) is: a methodology used to create a plan for how an organization will recover after a disaster of various types. It takes into account both security and corporate risk management tatics. There is a lot of movement around this initiative in the industry: the British Standards Institute is releasing a new standard for BCP this year. Trade shows are popping up covering the topic. * Complete coverage of the 3 categories of disaster: natural hazards, human-caused hazards, and accidental and technical hazards. * Only published source of information on the new BCI standards and government requirements. * Up dated information on recovery from cyber attacks, rioting, protests, product tampering, bombs, explosions, and terrorism.* **IBM System Storage TS7600 with ProtecTIER Version 3.3** IBM Redbooks *This IBM® Redbooks® publication describes the IBM solution for data deduplication, the IBM System Storage® TS7650G IBM ProtecTIER® Deduplication Gateway, and the IBM TS7620 ProtecTIER Deduplication Appliance Express. This solution consists of the IBM System Storage ProtecTIER Enterprise Edition V3.3 software and the IBM System Storage TS7600 family of products. They are designed to address the disk-based data protection needs of enterprise data centers. We describe the components that make up IBM System Storage TS7600 with ProtecTIER and provide extensive planning and sizing guidance that enables you to determine your requirements and the correct configuration for your environment. We then guide you through the basic setup steps on the system and on the host. We also describe all operational tasks that are required during normal day-to-day operation or when upgrading your TS7600 products. All available models of the ProtecTIER deduplication system can now be ordered in a configuration to operate in one of the following modes for which we provide setup, configuration and usage guidelines for your business needs: The Virtual Tape Library (VTL) interface is the foundation of ProtecTIER and emulates traditional automated tape libraries. The Symantec NetBackup OpenStorage (OST) API can be integrated with Symantec NetBackup to provide backup-to-disk without having to emulate traditional tape libraries. The newly available File System Interface (FSI) supports Common Internet File System (CIFS) and Network File System (NFS) as a backup target. This publication is intended for system programmers, storage administrators, hardware and software planners, and other IT personnel that are involved in planning, implementing, and the use of the IBM deduplication solution. It also is intended for anyone seeking detailed technical information about the IBM System Storage TS7600 with ProtecTIER.* **Fire in the Crucible Understanding the Process of Creative Genius** Red Wheel/Weiser *What makes a genius different? Is a genius born or made? In this exploration of creativity, the author reveals that there is no special trait of genius. Rather than being gifted above ordinary people, a genius will give expression to subtle nusances, and perceptions that others ignore.* **IBM SONAS Best Practices** IBM Redbooks *As IBM® Scale Out Network Attached Storage (SONAS) is adopted, it is important to provide information about planning, installation, and daily administration. This IBM Redbooks® publication also describes leading tuning practices information gained by those who implement and support SONAS. These preferred practices are based on hands-on experience from the field.*

Monitoring of the SONAS system is included. This IBM Redbooks publication provides information about IBM SONAS features and function at the 1.5.1 level. This book is the companion to the IBM SONAS Implementation Guide, SG24-7962 IBM Redbooks publication. It is intended for readers who have implemented SONAS and are responsible for daily administration and monitoring. **CAPS LOCK: How Capitalism Took Hold of Graphic Design, and How to Escape from It** *Capitalism could not exist without the coins, banknotes, documents, information graphics, interfaces, branding, and advertisements made by graphic designers. Even anti-consumerist strategies such as social design and speculative design are appropriated to serve economic growth. It seems design is locked in a cycle of exploitation and extraction, furthering inequality and environmental collapse. CAPS LOCK uses clear language and visual examples to show how graphic design and capitalism are inextricably linked. The book features designed objects and also examines how the study, work, and professional practice of designers support the market economy. Six radical design cooperatives are featured that resist capitalist thinking in their own way, hoping to inspire a more socially aware graphic design.* **Hyperconverged Infrastructure Data Centers Demystifying HCI** Cisco Press *Improve Manageability, Flexibility, Scalability, and Control with Hyperconverged Infrastructure Hyperconverged infrastructure (HCI) combines storage, compute, and networking in one unified system, managed locally or from the cloud. With HCI, you can leverage the cloud's simplicity, flexibility, and scalability without losing control or compromising your ability to scale. In Hyperconverged Infrastructure Data Centers, best-selling author Sam Halabi demystifies HCI technology, outlines its use cases, and compares solutions from a vendor-neutral perspective. He guides you through evaluation, planning, implementation, and management, helping you decide where HCI makes sense, and how to migrate legacy data centers without disrupting production systems. The author brings together all the HCI knowledge technical professionals and IT managers need, whether their background is in storage, compute, virtualization, switching/routing, automation, or public cloud platforms. He explores leading solutions including the Cisco HyperFlex platform, VMware vSAN, Nutanix Enterprise Cloud, Cisco Application-Centric Infrastructure (ACI), VMware's NSX, the open source OpenStack and Open vSwitch (OVS) / Open Virtual Network (OVN), and Cisco CloudCenter for multicloud management. As you explore discussions of automation, policy management, and other key HCI capabilities, you'll discover powerful new opportunities to improve control, security, agility, and performance. Understand and overcome key limits of traditional data center designs Discover improvements made possible by advances in compute, bus interconnect, virtualization, and software-defined storage Simplify rollouts, management, and integration with converged infrastructure (CI) based on the Cisco Unified Computing System (UCS) Explore HCI functionality, advanced capabilities, and benefits Evaluate key HCI applications, including DevOps, virtual desktops, ROBO, edge computing, Tier 1 enterprise applications, backup, and disaster recovery Simplify application deployment and policy setting by implementing a new model for provisioning, deployment, and management Plan, integrate, deploy, provision, manage, and optimize the Cisco HyperFlex hyperconverged infrastructure platform Assess alternatives such as VMware vSAN, Nutanix, open source OpenStack, and OVS/OVN, and compare architectural differences with HyperFlex Compare Cisco ACI (Application- Centric Infrastructure) and VMware NSX approaches to network automation, policies, and security This book is part of the Networking Technology Series from Cisco Press, which offers networking professionals valuable information for constructing efficient networks, understanding new technologies, and building successful careers.* **IT Governance How Top Performers Manage IT Decision Rights for Superior Results** Harvard Business Press *Firms with superior IT governance have more than 25% higher profits than firms with poor governance given the same strategic objectives. These top performers have custom designed IT governance for their strategies. Just as corporate governance aims to ensure quality decisions about all corporate assets, IT governance links IT decisions with company objectives and monitors performance and accountability. Based on a study of 250 enterprises worldwide, IT Governance shows how to design and implement a system of decision rights that will transform IT from an expense to a profitable investment.* **The The Complete VMware vSphere Guide Design a virtualized data center with VMware vSphere 6.7** Packt Publishing Ltd *Explore the benefits of VMware vSphere 6.7 to provide a powerful, flexible, and secure virtual infrastructure, and secure apps. Next, you'll pick up on how to enhance your infrastructure with high-performance storage access, such as remote direct memory access (RDMA) and Persistent Key FeaturesDesign, deploy and manage VMware vSphere virtual data centersImplement monitoring and security of VMware workloads with easeExplore tips and techniques for designing a robust virtual infrastructureBook Description vSphere 6.7 is the latest release of VMware's industry-leading virtual cloud platform. By understanding how to manage, secure, and scale apps with vSphere 6.7, you can easily run even the most demanding of workloads. This Learning Path begins with an overview of the features of the vSphere 6.7 suite. You'll learn how to plan and design a virtual infrastructure. You'll also gain insights into best practices to efficiently configure, manage, and secure apps. Next, you'll pick up on how to enhance your infrastructure with high-performance storage access, such as remote direct memory access (RDMA) and Persistent memory. The book will even guide you in securing your network with security features, such as encrypted vMotion and VM-level encryption. Finally, by learning how to apply Proactive High Availability and Predictive Distributed Resource Scheduler (DRS), you'll be able to achieve enhanced computing, storage, network, and management capabilities for your virtual data center. By the end of this Learning Path, you'll be able to build your own VMware vSphere lab that can run high workloads. This Learning Path includes content from the following Packt products: VMware vSphere 6.7 Data Center Design Cookbook - Third Edition by Mike Brown and Hersey CartwrightMastering VMware vSphere 6.7 - Second Edition by Martin Gavanda, Andrea Mauro, Karel Novak, and Paolo ValsecchiWhat you will learnUnderstand how to patch, upgrade, and manage a virtual environment with vSphere 6.7Identify key factors related to a vSphere designMitigate security risks and meet compliance requirements in a vSphere designCreate a vSphere conceptual design by identifying technical and business requirementsMap the logical resource design into the physical vSphere designCreate professional vSphere design documentationWho this book is for This Learning Path is for administrators, infrastructure engineers, consultants, and architects who want to design virtualized data center environments using VMware vSphere 6.x (or previous versions of vSphere and the supporting components). Basic knowledge of VMware vSphere is required to get the most out of this Learning Path.* **Backup and Recovery Inexpensive Backup Solutions for Open Systems** "O'Reilly Media, Inc." *Packed with practical, freely available backup and recovery solutions for Unix, Linux, Windows, and Mac OS X systems -- as well as various databases -- this new guide is a complete overhaul of Unix Backup & Recovery by the same author, now revised and expanded with over 75% new material. Backup & Recovery starts with a complete overview of backup philosophy and design, including the*

basic backup utilities of tar, dump, cpio, ntbackup, ditto, and rsync. It then explains several open source backup products that automate backups using those utilities, including AMANDA, Bacula, BackupPC, rdiff-backup, and rsnapshot. Backup & Recovery then explains how to perform bare metal recovery of AIX, HP-UX, Linux, Mac OS, Solaris, VMWare, & Windows systems using freely-available utilities. The book also provides overviews of the current state of the commercial backup software and hardware market, including overviews of CDP, Data De-duplication, D2D2T, and VTL technology. Finally, it covers how to automate the backups of DB2, Exchange, MySQL, Oracle, PostgreSQL, SQL-Server, and Sybase databases - without purchasing a commercial backup product to do so. For environments of all sizes and budgets, this unique book shows you how to ensure data protection without resorting to expensive commercial solutions. You will soon learn to: Automate the backup of popular databases without a commercial utility Perform bare metal recovery of any popular open systems platform, including your PC or laptop Utilize valuable but often unknown open source backup products Understand the state of commercial backup software, including explanations of CDP and data de-duplication software Access the current state of backup hardware, including Virtual Tape Libraries (VTLs) **High-Performance Big-Data Analytics Computing Systems and Approaches** Springer *This book presents a detailed review of high-performance computing infrastructures for next-generation big data and fast data analytics. Features: includes case studies and learning activities throughout the book and self-study exercises in every chapter; presents detailed case studies on social media analytics for intelligent businesses and on big data analytics (BDA) in the healthcare sector; describes the network infrastructure requirements for effective transfer of big data, and the storage infrastructure requirements of applications which generate big data; examines real-time analytics solutions; introduces in-database processing and in-memory analytics techniques for data mining; discusses the use of mainframes for handling real-time big data and the latest types of data management systems for BDA; provides information on the use of cluster, grid and cloud computing systems for BDA; reviews the peer-to-peer techniques and tools and the common information visualization techniques, used in BDA.* **It Infrastructure Architecture - Infrastructure Building Blocks and Concepts Second Edition** Sjaak Laan *For many decades, IT infrastructure has provided the foundation for successful application deployment. Yet, general knowledge of infrastructures is still not widespread. Experience shows that software developers, system administrators, and project managers often have little knowledge of the big influence IT infrastructures have on the performance, availability and security of software applications. This book explains the concepts, history, and implementation of IT infrastructures. Although many of books can be found on individual infrastructure building blocks, this is the first book to describe all of them: datacenters, servers, networks, storage, virtualization, operating systems, and end user devices. Whether you need an introduction to infrastructure technologies, a refresher course, or a study guide for a computer science class, you will find that the presented building blocks and concepts provide a solid foundation for understanding the complexity of today's IT infrastructures.* **Guide to Cloud Computing Principles and Practice** Springer Science & Business Media *This book describes the landscape of cloud computing from first principles, leading the reader step-by-step through the process of building and configuring a cloud environment. The book not only considers the technologies for designing and creating cloud computing platforms, but also the business models and frameworks in real-world implementation of cloud platforms. Emphasis is placed on "learning by doing," and readers are encouraged to experiment with a range of different tools and approaches. Topics and features: includes review questions, hands-on exercises, study activities and discussion topics throughout the text; demonstrates the approaches used to build cloud computing infrastructures; reviews the social, economic, and political aspects of the on-going growth in cloud computing use; discusses legal and security concerns in cloud computing; examines techniques for the appraisal of financial investment into cloud computing; identifies areas for further research within this rapidly-moving field.* **Active Directory Administration Cookbook Actionable, proven solutions to identity management and authentication on servers and in the cloud** Packt Publishing Ltd *Learn the intricacies of managing Azure AD, Azure AD Connect as well as Active Directory for administration on cloud and Windows Server 2019 Key FeaturesExpert solutions for the federation, certificates, security, and monitoring with Active DirectoryExplore Azure AD and AD Connect for effective administration on cloudAutomate security tasks using Active Directory and PowerShellBook Description Active Directory is an administration system for Windows administrators to automate network, security and access management tasks in the Windows infrastructure. This book starts off with a detailed focus on forests, domains, trusts, schemas and partitions. Next, you learn how to manage domain controllers, organizational units and the default containers. Going forward, you deep dive into managing Active Directory sites as well as identifying and solving replication problems. The next set of chapters covers the different components of Active Directory and discusses the management of users, groups and computers. You also go through recipes that help you manage your Active Directory domains, manage user and groups objects and computer accounts, expiring group memberships and group Managed Service Accounts with PowerShell. You learn how to work with Group Policy and how to get the most out of it. The last set of chapters covers federation, security and monitoring. You will also learn about Azure Active Directory and how to integrate on-premises Active Directory with Azure AD. You learn how Azure AD Connect synchronization works, which will help you manage Azure AD. By the end of the book, you have learned in detail about Active Directory and Azure AD, too. What you will learnManage new Active Directory features, such as the Recycle Bin, group Managed Service Accounts, and fine-grained password policiesWork with Active Directory from the command line and use Windows PowerShell to automate tasksCreate and remove forests, domains, and trustsCreate groups, modify group scope and type, and manage membershipsDelegate control, view and modify permissionsOptimize Active Directory and Azure AD in terms of securityWho this book is for This book will cater to administrators of existing Active Directory Domain Services environments and/or Azure AD tenants, looking for guidance to optimize their day-to-day effectiveness. Basic networking and Windows Server Operating System knowledge would come in handy.* **DevOps with Kubernetes Accelerating software delivery with container orchestrators, 2nd Edition** Packt Publishing Ltd *Leverage the power of Kubernetes to build an efficient software delivery pipeline. Key FeaturesLearn about DevOps, containers, and Kubernetes all within one handy bookA practical guide to container management and orchestrationLearn how to monitor, log, and troubleshoot your Kubernetes applicationsBook Description Kubernetes has been widely adopted across public clouds and on-premise data centers. As we're living in an era of microservices, knowing how to use and manage Kubernetes is an essential skill for everyone in the IT industry. This book is a guide to everything you need to know about Kubernetes—from simply deploying a container to administrating Kubernetes clusters wisely. You'll learn about DevOps fundamentals, as well as*

deploying a monolithic application as microservices and using Kubernetes to orchestrate them. You will then gain an insight into the Kubernetes network, extensions, authentication and authorization. With the DevOps spirit in mind, you'll learn how to allocate resources to your application and prepare to scale them efficiently. Knowing the status and activity of the application and clusters is crucial, so we'll learn about monitoring and logging in Kubernetes. Having an improved ability to observe your services means that you will be able to build a continuous delivery pipeline with confidence. At the end of the book, you'll learn how to run managed Kubernetes services on three top cloud providers: Google Cloud Platform, Amazon Web Services, and Microsoft Azure. What you will learnLearn fundamental and advanced DevOps skills and tools Get a comprehensive understanding of containersDockerize an applicationAdministrate and manage Kubernetes clusterExtend the cluster functionality with custom resourcesUnderstand Kubernetes network and service mesh Implement Kubernetes logging and monitoringManage Kubernetes services in Amazon Web Services, Google Cloud Platform,and Microsoft Azure Who this book is for This book is for anyone who wants to learn containerization and clustering in a practical way using Kubernetes. No prerequisite skills are required, however, essential DevOps skill and public/private Cloud knowledge will accelerate the reading speed. If you're advanced, you can get a deeper understanding of all the tools and technique described in the book. **IBM System Storage Solutions Handbook** IBM Redbooks The IBM® System Storage® Solutions Handbook helps you solve your current and future data storage business requirements. It helps you achieve enhanced storage efficiency by design to allow managed cost, capacity of growth, greater mobility, and stronger control over storage performance and management. It describes the most current IBM storage products, including the IBM SpectrumTM family, IBM FlashSystem®, disk, and tape, as well as virtualized solutions such IBM Storage Cloud. This IBM Redbooks® publication provides overviews and information about the most current IBM System Storage products. It shows how IBM delivers the right mix of products for nearly every aspect of business continuance and business efficiency. IBM storage products can help you store, safeguard, retrieve, and share your data. This book is intended as a reference for basic and comprehensive information about the IBM Storage products portfolio. It provides a starting point for establishing your own enterprise storage environment. This book describes the IBM Storage products as of March, 2016.