

Access Free Data  
Ontap 7 Netapp

# Data Ontap 7 Netapp

*An expert guide  
for IT  
administrators  
needing to create  
and manage a  
public cloud and  
virtual network  
using Microsoft  
Azure With*

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***Microsoft Azure  
challenging  
Amazon Web  
Services (AWS)  
for market share,  
there has been no  
better time for IT  
professionals to  
broaden and  
expand their  
knowledge of  
Microsoft's  
flagship***

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***virtualization and  
cloud computing  
service. Microsoft  
Azure***

***Infrastructure  
Services for  
Architects:***

***Designing Cloud  
Solutions helps  
readers develop  
the skills  
required to  
understand the***

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***capabilities of  
Microsoft Azure  
for Infrastructure  
Services and  
implement a  
public cloud to  
achieve full  
virtualization of  
data, both on and  
off premise.  
Microsoft Azure  
provides granular  
control in***

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***choosing core  
infrastructure  
components,  
enabling IT  
administrators to  
deploy new  
Windows Server  
and Linux virtual  
machines, adjust  
usage as  
requirements  
change, and scale  
to meet the***

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***infrastructure  
needs of their  
entire  
organization.  
This accurate,  
authoritative  
book covers  
topics including  
IaaS cost and  
options,  
customizing VM  
storage, enabling  
external***

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***connectivity to  
Azure virtual  
machines,  
extending Azure  
Active Directory,  
replicating and  
backing up to  
Azure, disaster  
recovery, and  
much more. New  
users and  
experienced  
professionals***

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***alike will: Get  
expert guidance  
on  
understanding,  
evaluating,  
deploying, and  
maintaining  
Microsoft Azure  
environments  
from Microsoft  
MVP and  
technical  
specialist John***



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***Savill Develop the skills to set up cloud-based virtual machines, deploy web servers, configure hosted data stores, and use other key Azure technologies***  
***Understand how to design and implement***

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***serverless and  
hybrid solutions  
Learn to use  
enterprise  
security  
guidelines for  
Azure deployment  
Offering the most  
up to date  
information and  
practical advice,  
Microsoft Azure  
Infrastructure***

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***Services for  
Architects:  
Designing Cloud  
Solutions is an  
essential  
resource for IT  
administrators,  
consultants and  
engineers  
responsible for  
learning,  
designing,  
implementing,***

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*managing, and  
maintaining  
Microsoft  
virtualization and  
cloud  
technologies.*

*This IBM®  
Redbooks®  
publication  
provides best  
practices for the  
IBM System  
Storage N series*

*Page 12/202*

Access Free Data  
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*and  
SnapManager®  
for Virtual  
Infrastructure 2.0  
(SMVI). We  
address the  
resource  
utilization issues  
typically found  
within virtual  
environments by  
leveraging the  
underlying*

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***Snapshot technology, which enables you to create point-in-time copies of your virtual machines or entire data stores and then restore from these backup copies at any level of granularity,***

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***datastore, VM, disk (VMDK), or guest file, simply and quickly when required. In addition, we provide best practices for protecting the SMVI server and recovering in case of a disaster. Furthermore, we***

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***explain the  
seamless  
integration of N  
series storage  
solutions,  
including  
MetroCluster, so  
customers can  
leverage storage  
and virtualization  
technologies to  
create dynamic  
infrastructures***



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***that can create  
tremendous  
business value.  
The reader of this  
book will gain a  
deep  
understanding of  
how to implement  
SnapManager for  
Virtual  
Infrastructure in  
VMware vSphere  
environments.***

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***This IBM®  
Redbooks®  
publication  
provides  
deployment  
guidelines,  
workload  
estimates, and  
preferred  
practices for  
clients who want  
a proven IBM  
technology stack***

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***for virtualized  
VMware and  
Microsoft  
environments.  
The result is a  
Reference  
Architecture for  
Virtualized  
Environments  
(RAVE) that uses  
VMware vSphere  
or Microsoft  
Hypervisor, IBM***

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***System x® or  
IBM  
BladeCenter®  
server, IBM  
System  
Networking, and  
IBM System  
Storage® N  
series with  
Clustered Data  
ONTAP as a  
storage  
foundation. The***

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***reference  
architecture can  
be used as a  
foundation to  
create dynamic  
cloud solutions  
and make full use  
of underlying  
storage features  
and functions.  
This book  
provides a  
blueprint that***

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***illustrates how clients can create a virtualized infrastructure and storage cloud to help address current and future data storage business requirements. It explores the solutions that IBM offers to***

Access Free Data  
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***create a storage  
cloud solution  
addressing client  
needs. This book  
also shows how  
the Reference  
Architecture for  
Virtualized  
Environments  
and the extensive  
experience of  
IBM in cloud  
computing,***

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***services, proven technologies, and products support a Smart Storage Cloud solution that is designed for your storage optimization efforts. This book is for anyone who wants to learn how to successfully***



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***deploy a  
virtualized  
environment. It is  
also written for  
anyone who  
wants to  
understand how  
IBM addresses  
data storage and  
compute  
challenges with  
IBM System  
Storage N series***

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***solutions with  
IBM servers and  
networking  
solutions. This  
book is suitable  
for IT architects,  
business  
partners, IBM  
clients, storage  
solution  
integrators, and  
IBM sales  
representatives.***

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***InfoWorld is targeted to Senior IT professionals. Content is segmented into Channels and Topic Centers. InfoWorld also celebrates people, companies, and projects.***

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***IBM XIV Storage  
System: Host  
Attachment and  
Interoperability  
How to Castrate a  
Bull  
IBM System  
Storage N series  
Clustered Data  
ONTAP  
SAP on Microsoft  
Azure  
Data***

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***Deduplication  
Approaches  
State of the Art  
and Future  
Trends***

Market research  
guide to e-  
commerce and  
internet business a  
tool for strategic  
planning,  
competitive

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intelligence,  
employment  
searches or  
financial research.  
Contains trends,  
statistical tables,  
and an industry  
glossary. Includes  
one page profiles  
of e-commerce  
and internet  
business firms -

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includes  
addresses, phone  
numbers,  
executive names.  
Dave Hitz likes to  
solve fun  
problems. He  
didn't set out to be  
a Silicon Valley  
icon, a business  
visionary, or even  
a billionaire. But he

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became all three. It turns out that business is a mosaic of interesting puzzles like managing risk, developing and reversing strategies, and looking into the future by deconstructing the



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past. As a founder of NetApp, a data storage firm that began as an idea scribbled on a placemat and now takes in \$4 billion a year, Hitz has seen his company go through every major cycle in business—from the

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Jack-of-All-Trades mentality of a start-up, through the tumultuous period of the IPO and the dot-com bust, and finally to a mature enterprise company. NetApp is one of the fastest-growing computer

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companies ever,  
and for six years in  
a row it has been  
on Fortune  
magazine's list of  
Best Companies to  
Work For. Not bad  
for a high school  
dropout who  
began his  
business career  
selling his blood

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for money and  
typing the names  
of diseases onto  
index cards. With  
colorful examples  
and anecdotes,  
How to Castrate a  
Bull is a story for  
everyone  
interested in  
understanding  
business, the

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reasons why  
companies  
succeed and fail,  
and how powerful  
lessons often  
come from strange  
and unexpected  
places. Dave Hitz  
co-founded  
NetApp in 1992  
with James Lau  
and Michael

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Malcolm. He served as a programmer, marketing evangelist, technical architect, and vice president of engineering. Presently, he is responsible for future strategy and direction for the

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company. Before his career in Silicon Valley, Dave worked as a cowboy, where he got valuable management experience by herding, branding, and castrating cattle.

This book presents

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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



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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;

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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

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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

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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

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information  
visualization  
techniques, used  
in BDA.

ICINGA – der  
Standard für  
Monitoring  
Praktischer  
Einstieg in die  
Überwachung mit  
ICINGA  
Überwachung von

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Linux- und Windows-Systemen

Verteilte

Überwachung mit  
Einsatz von Icinga-Satelliten  
Nach der Einführung in die  
Komponenten

eines Icinga-Umgebung, den  
wichtigsten

Begriffen, der

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Installation und der  
Bedienoberfläche  
Icinga Web 2 folgt  
sogleich der  
Praktische Einstieg  
in die  
Überwachung mit  
Icinga. Anhand  
einer Beispielfirma  
erfolgt die  
Einarbeitung in die  
Konfigurationsspra

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che Icinga DSL.  
Zentraler Punkt  
des ersten Bandes  
ist die  
Überwachung von  
Linux- und Window  
s-Systemen mit  
dem Icinga-  
Agenten wie auch  
generell die  
verteilte  
Überwachung mit



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Einsatz von Icinga-Satelliten. Daran und an praktischen Beispielen wie mit Plugins gängige Netzwerkdienste, Datenbanken wie PostgreSQL, MariaDB, Oracle oder Microsoft SQL werden die bisher

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erwerbenden Icing  
a-DSL-Kenntnisse  
weiter vertieft.

Weitere Kapitel  
über

Benachrichtigung  
und

Abhängigkeiten,  
vertiefende

Kenntnisse in die  
Bedienung von

Icinga Web 2 und

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das Modellieren  
von

Businessprozesse  
n runden den  
ersten Band ab.

Data Warehousing  
in the Age of Big  
Data

Plunkett's E-  
Commerce &  
Internet Business  
Almanac 2009

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Automating  
VSphere  
Administration  
Designing Cloud  
Solutions  
Administering  
VMware Site  
Recovery Manager  
5. 0  
Big Data  
*IBM Tivoli Storage  
Manager as a Data*

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*Protection*

*SolutionIBM*

*Redbooks*

*Grid Resource*

*Management: State of*

*the Art and Future*

*Trends presents an*

*overview of the state*

*of the field and*

*describes both the*

*real experiences and*

*the current research*

*available today. Grid*

*computing is a rapidly*

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*developing and  
changing field,  
involving the shared  
and coordinated use  
of dynamic, multi-  
institutional  
resources. Grid  
resource  
management is the  
process of identifying  
requirements,  
matching resources to  
applications,  
allocating those*

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*resources, and scheduling and monitoring Grid resources over time in order to run Grid applications as efficiently as possible. While Grids have become almost commonplace, the use of good Grid resource management tools is far from ubiquitous*

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*because of the many open issues of the field, including the multiple layers of schedulers, the lack of control over resources, the fact that resources are shared, and that users and administrators have conflicting performance goals. As customers and*



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*service providers begin to consolidate more and more applications and workloads onto shared storage infrastructures, it becomes increasingly difficult to coordinate outages for planned downtime for things, such as hardware refreshes. This difficulty is because*

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*many users, groups,  
or customers might be  
using the shared  
storage infrastructure  
at the same time.*

*Users expect these  
infrastructures to be  
available 24/7, so it is  
imperative that  
service outages that  
are required for  
storage life-cycle  
management,  
cost/service-level*

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*optimization, and any other planned downtime do not disturb the availability of the always-on infrastructure. In this IBM® Redbooks® publication, we introduce you to the business value of Data Motion and its features. Storage and system administrators, data*

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*center managers, and  
IT as a service  
(ITaaS) providers will  
benefit from reading  
this book. In this  
publication, we  
assume that you have  
a basic knowledge of  
N series storage  
systems and Data  
ONTAP®,  
SnapMirror®,  
MultiStore®, and  
Provisioning*

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*Manager. A complete understanding of all Provisioning Manager features is not necessary. Also, basic knowledge of host and vFiler management from Provisioning Manager is sufficient. Data Motion significantly improves the availability of shared storage infrastructure*

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*by avoiding the service outages that are associated with planned activities, such as storage life-cycle management and cost/service-level optimization, thus helping you to enable an always-on IT environment. The business values of Data Motion are: - No planned downtime for:*

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- *Storage capacity expansion* -
- Scheduled maintenance outages*
- *Technology refresh* -
- Improved SLA flexibility:*
- *On-demand load balancing* -
- Adjustable storage tiers* -
- Application transparency:*
- *No performance impact* -
- Transaction integrity*

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*Until now, the only way to capture, store, and effectively retain constantly growing amounts of enterprise data was to add more disk space to the storage infrastructure, an approach that can quickly become cost-prohibitive as information volumes continue to grow and capital budgets for*



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*infrastructure do not.  
In this IBM®  
Redbooks®  
publication, we  
introduce data  
deduplication, which  
has emerged as a key  
technology in  
dramatically reducing  
the amount of, and  
therefore the cost  
associated with  
storing, large amounts  
of data. Deduplication*

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*is the art of  
intelligently reducing  
storage needs  
through the  
elimination of  
redundant data so  
that only one instance  
of a data set is  
actually stored.  
Deduplication reduces  
data an order of  
magnitude better than  
common data  
compression*

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*techniques. IBM has the broadest portfolio of deduplication solutions in the industry, giving us the freedom to solve customer issues with the most effective technology. Whether it is source or target, inline or post, hardware or software, disk or tape, IBM has a solution with the*

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*technology that best solves the problem. This IBM Redbooks publication covers the current deduplication solutions that IBM has to offer: IBM ProtecTIER® Gateway and Appliance IBM Tivoli® Storage Manager IBM System Storage® N series Deduplication How To Manage*

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*Remote Servers with  
Ansible*

*A Tutorial-Based  
Approach*

*IBM System Storage  
N series Software  
Guide*

*Microsoft Azure  
Infrastructure  
Services for  
Architects*

*VMware VSphere  
PowerCLI Reference*

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The era of seemingly unlimited growth in processor performance is over: single chip architectures can no longer overcome the performance limitations imposed by the power they consume and the heat they generate. Today, Intel and other semiconductor firms are abandoning the single fast processor model in

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favor of multi-core microprocessors--chips that combine two or more processors in a single package. In the fourth edition of *Computer Architecture*, the authors focus on this historic shift, increasing their coverage of multiprocessors and exploring the most effective ways of achieving parallelism as

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the key to unlocking the power of multiple processor architectures. Additionally, the new edition has expanded and updated coverage of design topics beyond processor performance, including power, reliability, availability, and dependability. CD System Requirements PDF Viewer The CD material includes PDF



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documents that you can read with a PDF viewer such as Adobe, Acrobat or Adobe Reader.

Recent versions of Adobe Reader for some platforms are included on the CD. HTML Browser The navigation framework on this CD is delivered in HTML and JavaScript. It is recommended that you install the latest version

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of your favorite HTML browser to view this CD. The content has been verified under Windows XP with the following browsers: Internet Explorer 6.0, Firefox 1.5; under Mac OS X (Panther) with the following browsers: Internet Explorer 5.2, Firefox 1.0.6, Safari 1.3; and under Mandriva Linux 2006 with the

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following browsers:

Firefox 1.0.6,

Konqueror 3.4.2,

Mozilla 1.7.11. The

content is designed to be

viewed in a browser

window that is at least

720 pixels wide. You

may find the content

does not display well if

your display is not set to

at least 1024x768 pixel

resolution. Operating

System This CD can be

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used under any operating system that includes an HTML browser and a PDF viewer. This includes Windows, Mac OS, and most Linux and Unix systems. Increased coverage on achieving parallelism with multiprocessors. Case studies of latest technology from industry including the

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Sun Niagara  
Multiprocessor, AMD  
Opteron, and Pentium 4.  
Three review  
appendices, included in  
the printed volume,  
review the basic and  
intermediate principles  
the main text relies  
upon. Eight reference  
appendices, collected on  
the CD, cover a range of  
topics including specific  
architectures, embedded

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systems, application specific processors--some guest authored by subject experts.

"Now that virtualization has blurred the lines between networking and servers, many VMware specialists need a stronger understanding of networks than they may have gained in earlier IT roles.

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Networking for  
VMware administrators  
fills this crucial  
knowledge gap. Writing  
for VMware  
professionals,  
Christopher Wahl and  
Steve Pantol illuminate  
the core concepts of  
modern networking, and  
show how to apply them  
in designing,  
configuring, and  
troubleshooting any

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virtualized network environment"--P. [4] of cover.

Your One-Stop Reference for VMware vSphere Automation If you manage vSphere in a Windows environment, automating routine tasks can save you time and increase efficiency.

VMware vSphere PowerCLI is a set of pre-



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built commands based on WindowsPowerShell that is designed to help you automate vSphere processesinvolving virtual machines, datacenters, storage, networks, andmore.

This detailed guide—using a practical, task-basedapproach and real-world examples—shows you how to get themost out

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of PowerCLI's handy cmdlets. Learn how to:

- Automate vCenter Server and ESX/ESX(i) Server deployment and configuration
- Create and configure virtual machines and use vApps
- Secure, back up, and restore your virtual machines
- Monitor, audit, and report the status of your vSphere environment

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Use the PowerCLI  
SDK, PowerWF Studio,  
and vEcoShell Schedule  
and view automation  
Add a GUI front end to  
your scripts

Big Data: A Tutorial-  
Based Approach  
explores the tools and  
techniques used to bring  
about the marriage of  
structured and  
unstructured data. It  
focuses on Hadoop

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Distributed Storage and MapReduce Processing by implementing (i) Tools and Techniques of Hadoop Eco System, (ii) Hadoop Distributed File System Infrastructure, and (iii) efficient MapReduce processing. The book includes Use Cases and Tutorials to provide an integrated approach that answers the 'What', 'How',

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and 'Why' of Big Data.  
Features Identifies the  
primary drivers of Big  
Data Walks readers  
through the theory,  
methods and technology  
of Big Data Explains  
how to handle the 4 V's  
of Big Data in order to  
extract value for better  
business decision  
making Shows how and  
why data connectors are  
critical and necessary

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for Agile text analytics  
Includes in-depth  
tutorials to perform  
necessary set-ups,  
installation,  
configuration and  
execution of important  
tasks Explains the  
command line as well as  
GUI interface to a  
powerful data exchange  
tool between Hadoop  
and legacy r-dbms  
databases

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Unexpected Lessons on  
Risk, Growth, and  
Success in Business  
IBM Power 520  
Technical Overview  
Technologies and  
Strategies of the  
Ubiquitous Data Center  
Networking for  
VMware Administrators  
Virtualization  
Cloud Computing  
One of the biggest

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challenges for  
companies today  
continues to be the  
cost of data storage,  
which is a large and  
rapidly growing IT  
expense. IBM®  
System Storage® N  
series incorporates a  
variety of storage  
efficiency  
technologies to help



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organizations lower this cost. This IBM Redbooks® publication focuses on two key components: N series deduplication and data compression. In this book we describe in detail how to implement and use both technologies

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and provide information on preferred practices, operational considerations, and troubleshooting. N series data compression and deduplication technologies can work independently or together to achieve

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optimal savings. We explain how N series data compression and deduplication work with Data ONTAP 8.1 operating in 7-Mode. We help you decide when to use compression and deduplication based on applications and

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data types to balance space saving against potential overhead.

Optimization and usage considerations are included to help you determine your space savings.

Corporate workgroups, distributed enterprises, and small

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to medium-sized companies are increasingly seeking to network and consolidate storage to improve availability, share information, reduce costs, and protect and secure information. These organizations require enterprise-class

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solutions capable of addressing immediate storage needs cost-effectively, while providing an upgrade path for future requirements. IBM® System Storage® N series storage systems and their software capabilities are designed to meet

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these requirements.  
IBM System Storage  
N series storage  
systems offer an  
excellent solution for  
a broad range of  
deployment  
scenarios. IBM  
System Storage N  
series storage systems  
function as a  
multiprotocol storage

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device that is designed to allow you to simultaneously serve both file and block-level data across a single network. These activities are demanding procedures that, for some solutions, require multiple,



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separately managed systems. The flexibility of IBM System Storage N series storage systems, however, allows them to address the storage needs of a wide range of organizations, including distributed enterprises and data centers for midrange

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enterprises. IBM System Storage N series storage systems also support sites with computer and data-intensive enterprise applications, such as database, data warehousing, workgroup collaboration, and messaging. This IBM

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Redbooks®  
publication explains  
the software features  
of the IBM System  
Storage N series  
storage systems. This  
book also covers  
topics such as  
installation, setup,  
and administration of  
those software  
features from the IBM

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System Storage N series storage systems and clients and provides example scenarios.

This IBM Redpaper publication is a comprehensive guide covering the IBM Power 520 server, machine type model 8203-E4A. The goal

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of this paper is to introduce this innovative server that includes IBM System i and IBM System p and new hardware technologies. The major hardware offerings include: -  
The POWER6 processor, available at frequencies of 4.2

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GHz and 4.7 GHz. -  
Specialized POWER6  
DDR2 memory that  
provides greater  
bandwidth, capacity,  
and reliability. - The 1  
Gb or 10 Gb  
Integrated Virtual  
Ethernet adapter that  
brings native  
hardware  
virtualization to this

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server. - EnergyScale technology that provides features such as power trending, power-saving, capping of power, and thermal measurement. -

PowerVM virtualization technology. -  
Mainframe

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continuous  
availability brought to  
the entry server  
environment. This  
Redpaper expands  
the current set of IBM  
Power System  
documentation by  
providing a desktop  
reference that offers a  
detailed technical  
description of the



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Power 520 system.  
This Redpaper does not replace the latest marketing materials and tools. It is intended as an additional source of information that, together with existing sources, can be used to enhance your knowledge of IBM

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server solutions.

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book.

Now fully updated:  
The authoritative,  
comprehensive guide

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to vSphere 6 storage  
implementation and  
management  
Effective VMware  
virtualization storage  
planning and  
management has  
become crucial—but  
it can be extremely  
complex. Now,  
VMware ' s leading  
storage expert

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thoroughly  
demystifies the  
“ black box ” of  
vSphere 6 storage and  
provides illustrated,  
step-by-step  
procedures for  
performing every key  
task associated with  
it. Mostafa Khalil  
presents techniques  
based on years of

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personal experience  
helping customers  
troubleshoot storage  
in their vSphere  
production  
environments.

Drawing on more  
experience than  
anyone else in the  
field, he combines  
expert guidelines,  
insights for better

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architectural design,  
best practices for  
planning and  
management,  
common  
configuration details,  
and deep dives into  
both vSphere and  
third-party storage.  
Storage Design and  
Implementation in  
vSphere 6, Second

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Edition will give you the deep understanding you need to make better upfront storage decisions, quickly solve problems if they arise, and keep them from occurring in the first place. Coverage includes: Planning and implementing

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Fibre Channel,  
FCoE, and iSCSI  
storage in vSphere  
virtualized  
environments  
Implementing  
vSphere Pluggable  
Storage Architecture  
native multipathing,  
SATP, PSP, plug-ins,  
rules, registration,  
and more Working



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with Active/Passive  
and Pseudo-  
Active/Active ALUA  
SCSI-3 storage arrays  
Maximizing  
availability with  
multipathing and  
failover Improving  
efficiency and value  
by unifying and  
centrally managing  
heterogeneous

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storage

configurations

Understanding

Storage Virtualization

Devices (SVDs) and

designing storage to

take advantage of

them Implementing

VMware Virtual

Machine File System

(VMFS) to maximize

performance and

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resource utilization

Working with virtual  
disks and raw device  
mappings (RDMs)

Managing snapshots  
in VMFS and Virtual  
Volumes

environments

Implementing and  
administering NFS,  
VAAI, Storage  
vMotion, VisorFS,

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and VASA

Integrating VSAN  
core and advanced  
features Using Virtual  
Volumes to  
streamline storage  
operations and gain  
finer VM-level  
control over external  
storage

Introduction and  
Implementation of

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Data Reduction  
Pools and  
Deduplication  
IBM Tivoli Storage  
Manager as a Data  
Protection Solution  
NetApp and VMware  
View Solution Guide  
Grid Resource  
Management  
High Performance  
Computing - HiPC

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2008

Using Docker,  
GATK, and WDL in  
Terra

This book constitutes  
the refereed  
proceedings of the 15th  
International  
Conference on High-  
Performance  
Computing, HiPC  
2008, held in  
Bangalore, India, in

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December 2008. The 46 revised full papers presented together with the abstracts of 5 keynote talks were carefully reviewed and selected from 317 submissions. The papers are organized in topical sections on applications performance optimization, parallel algorithms and

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applications,  
scheduling and  
resource management,  
sensor networks, energy-  
aware computing,  
distributed algorithms,  
communication  
networks as well as  
architecture.

Data in the genomics  
field is booming. In just  
a few years,  
organizations such as  
the National Institutes



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of Health (NIH) will host 50+ petabytes—or over 50 million gigabytes—of genomic data, and they're turning to cloud infrastructure to make that data available to the research community. How do you adapt analysis tools and protocols to access and analyze that volume of data in the

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cloud? With this practical book, researchers will learn how to work with genomics algorithms using open source tools including the Genome Analysis Toolkit (GATK), Docker, WDL, and Terra. Geraldine Van der Auwera, longtime custodian of the GATK user community, and Brian

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O'Connor of the UC Santa Cruz Genomics Institute, guide you through the process. You'll learn by working with real data and genomics algorithms from the field. This book covers:  
Essential genomics and computing technology background  
Basic cloud computing operations  
Getting

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started with GATK,  
plus three major GATK  
Best Practices pipelines  
Automating analysis  
with scripted workflows  
using WDL and  
Cromwell Scaling up  
workflow execution in  
the cloud, including  
parallelization and cost  
optimization Interactive  
analysis in the cloud  
using Jupyter  
notebooks Secure

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collaboration and  
computational  
reproducibility using  
Terra

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

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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

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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

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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



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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

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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

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implementing data  
deduplication  
approaches Includes  
case studies

Modern computing is  
no longer about devices  
but is all about  
providing services, a  
natural progression  
that both consumers  
and enterprises are  
eager to embrace. As it  
can deliver those  
services, efficiently and

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with quality, at compelling price levels, cloud computing is with us to stay. Ubiquitously and quite definitively, cloud computing is answering the demand for sophisticated, flexible services Cloud Computing:  
Technologies and Strategies of the Ubiquitous Data Center looks at cloud

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computing from an IT manager's perspective. It answers basic as well as strategic questions from both a business and a technical perspective so that you can confidently engage both IT and financial assets in making your organization techno-savvy, efficient, and competitive. Any answers about the

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future of computing are definitely in the cloud. The first section of the book offers up a history of the computing roots that have evolved into cloud computing. It looks at how IT has been traditionally serving needs and how cloud computing improves and expands on these services, so you can strategize

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about how a cloud might provide solutions to specific IT questions or answer business needs. Next, the book shows how to begin the process of determining which organizational needs would best be served and improved by cloud computing. Presenting specific cases as examples, the book walks you through

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issues that your organization might likely encounter.

Written clearly and succinctly, it --

Introduces you to the concepts behind different types of clouds, including those used for storage, those that improve processor and application delivery, and those that mix any and all of these



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services Covers typical concerns you will hear with regard to such issues as security, application integration, and structural limitations Looks at the future of the cloud, from developments on the horizon to those still in the planning stage By the book's conclusion, you will have a solid basis on

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which to initiate strategic discussions about deploying clouds in your organization. You will understand how cloud computing can affordably solve real problems. You will know which strategies to use and you will learn of the pitfalls to avoid when taking your data center to the clouds. Throughout this

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book are the answers you need to the many questions from the most basic to the more advanced surrounding cloud computing and its place in your enterprise. What exactly is cloud computing? How are clouds different than virtualization? Should my organization use a cloud (or multiple

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clouds)? Can clouds and virtualization play significant roles in my organization at the same time? Covering the basics of virtualization and clusters and the more advanced strategic considerations of security and return on investment, this book will be your guide to IT's present and future

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in the cloud, a resource that you will continually turn to. Coming soon! For more information, Professional Cloud Computing, at [www.professionalcloudcomputing.com](http://www.professionalcloudcomputing.com), will help you find information to delve more deeply into the discussion in any of a number of directions. A Technology Deep

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Dive

Proceedings of the  
Fifteenth Systems  
Administration

Conference (Lisa XV)

Advertisers business  
classifications

IBM System Storage N  
series Data

Compression and

Deduplication: Data

ONTAP 8.1 Operating  
in 7-Mode

Architecture and

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Administration

15th International  
Conference, Bangalore,  
India, December 17-20,  
2008, Proceedings

When you hear

IBM® Tivoli®

Storage Manager,  
the first thing  
that you

typically think  
of is data

backup. Tivoli

Storage Manager

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is the premier storage management solution for mixed platform environments. Businesses face a tidal wave of information and data that seems to increase daily. The ability to successfully and



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efficiently  
manage  
information and  
data has become  
imperative. The  
Tivoli Storage  
Manager family  
of products  
helps businesses  
successfully  
gain better  
control and  
efficiently  
manage the

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information  
tidal wave  
through  
significant  
enhancements in  
multiple facets  
of data  
protection.  
Tivoli Storage  
Manager is a  
highly scalable  
and available  
data protection  
solution. It

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takes data  
protection  
scalability to  
the next level  
with a  
relational  
database, which  
is based on IBM  
DB2® technology.  
Greater  
availability is  
delivered  
through  
enhancements

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such as online,  
automated  
database  
reorganization.  
This IBM  
Redbooks®  
publication  
describes the  
evolving set of  
data-protection  
challenges and  
how capabilities  
in Tivoli  
Storage Manager

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can best be used to address those challenges. This book is more than merely a description of new and changed functions in Tivoli Storage Manager; it is a guide to use for your overall data protection solution.

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The Complete,  
Hands-On Guide  
to Installing  
and Configuring  
VMware Site  
Recovery Manager  
5.0  
Administering  
VMware Site  
Recovery Manager  
5.0 is the  
complete,  
technical, hands-  
on guide to

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VMware Site  
Recovery Manager  
(SRM) 5.0  
installation and  
configuration  
for experienced  
VMware  
professionals.  
VMware forum  
moderator and  
vExpert Mike  
Laverick fully  
explains SRM  
5.0's failover/f

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ailback  
procedures,  
walks readers  
through  
configuring  
storage  
replication with  
hardware from  
several leading  
suppliers, and  
shows how to  
efficiently  
implement fast,  
automated,



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centralized

disaster

recovery.

Drawing on his

extensive

experience with

SRM and vSphere,

Laverick

identifies

common pitfalls

and errors,

explains why

they occur, and

shows exactly

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how to fix them.  
Fully up to date  
for SRM 5.0,  
this book  
delivers "in-the-  
trenches"  
technical  
knowledge you  
won't find  
anywhere else,  
including expert  
guidance for  
utilizing SRM  
5.0's advanced

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new vSphere  
Replication  
(VR). Coverage  
includes Going  
"under the hood"  
with SRM 5.0 to  
thoroughly  
understand its  
operation  
Configuring SRM  
5.0 with Dell  
EqualLogic  
Replication, EMC  
Celerra

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Replicator, EMC  
CLARiion  
MirrorView, HP  
StorageWorks  
P4000 Virtual  
SAN Appliance  
with Remote  
Copy, and NetApp  
SnapMirror  
Configuring  
multiple  
LUN/volumes with  
virtual machines  
and virtual

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disks Installing  
VMware SRM and  
configuring  
vSphere  
Replication (VR)  
Using VR to  
replicate VMs  
across locations  
without third-  
party storage  
array-based  
replication  
Using VR to  
replicate a

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single VM or  
groups of VMs to  
the Recovery  
Site Efficiently  
configuring  
protected and  
recovery sites  
Using Reprotect  
Mode to  
accelerate  
failback and  
enhance VM  
portability  
Using

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dependencies and  
priority orders  
to configure SRM  
based on your  
existing  
categories of  
applications and  
services

Leveraging SRM

5.0's

scalability

improvements to

serve large-

scale and/or

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cloud  
environments  
Defining custom  
recovery plans  
Working with  
alarms, export  
histories, and  
access control  
Implementing  
bidirectional  
relationships  
and shared site  
configurations  
Scripting



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automated site  
recovery

Upgrading from  
SRM 4.1 to SRM  
5.0

Complete  
analysis of the  
technology  
business.

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and overview. In-  
depth, profiles  
on each of the  
top 500 InfoTech

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Services, E-

Commerce,

Networking,

Semiconductors,

Memory, Storage,

Information

Management and

Data Processing.

663 pages.

Data Warehousing

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in the Age of  
the Big Data  
will help you  
and your  
organization  
make the most of  
unstructured  
data with your  
existing data  
warehouse. As  
Big Data  
continues to  
revolutionize  
how we use data,

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it doesn't have  
to create more  
confusion.

Expert author  
Krish Krishnan  
helps you make  
sense of how Big  
Data fits into  
the world of  
data warehousing  
in clear and  
concise detail.  
The book is  
presented in

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three distinct parts. Part 1 discusses Big Data, its technologies and use cases from early adopters. Part 2 addresses data warehousing, its shortcomings, and new architecture options,

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workloads, and  
integration  
techniques for  
Big Data and the  
data warehouse.  
Part 3 deals  
with data  
governance, data  
visualization,  
information life-  
cycle  
management, data  
scientists, and  
implementing a

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Big Data-ready  
data warehouse.  
Extensive  
appendixes  
include case  
studies from  
vendor  
implementations  
and a special  
segment on how  
we can build a  
healthcare  
information  
factory.

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Ultimately, this book will help you navigate through the complex layers of Big Data and data warehousing while providing you information on how to effectively think about using all these technologies and



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the architectures to design the next-generation data warehouse. Learn how to leverage Big Data by effectively integrating it into your data warehouse.

Includes real-world examples and use cases

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that clearly  
demonstrate  
Hadoop, NoSQL,  
HBASE, Hive, and  
other Big Data  
technologies  
Understand how  
to optimize and  
tune your  
current data  
warehouse  
infrastructure  
and integrate  
newer

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infrastructure  
matching data  
processing  
workloads and  
requirements  
Storage Design  
and  
Implementation  
in vSphere 6  
Plunkett's  
Infotech  
Industry Almanac  
2004  
Icinga

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InfoWorld  
Wall Street &  
Technology  
SnapManager 2.0  
for Virtual  
Infrastructure  
Best Practices  
**Run your SAP  
system on Microsoft  
Azure with this  
guide to architecture  
design and system  
administration! Get**

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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

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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

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considerations:  
sizing, availability,  
security, cost, and  
more. Then  
understand  
Microsoft Azure's  
architecture and  
recommended  
practices for  
architecture design  
and service  
configuration. Walk

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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



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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

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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

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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)

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Governance and  
compliance 7)  
Backup and recovery  
8) Migration 9)  
Operations and  
monitoring 10) Case  
studies

IBM® System  
Storage® N series  
storage systems offer  
an excellent solution  
for a broad range of

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deployment scenarios. IBM System Storage N series storage systems function as a multiprotocol storage device that is designed to allow you to simultaneously serve both file and block-level data across a

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single network.

These activities are demanding procedures that, for some solutions, require multiple, separately managed systems. The flexibility of IBM System Storage N series storage systems, however,

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allows them to address the storage needs of a wide range of organizations, including distributed enterprises and data centers for midrange enterprises. IBM System Storage N series storage systems also support

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sites with computer  
and data-intensive  
enterprise  
applications, such as  
database, data  
warehousing,  
workgroup  
collaboration, and  
messaging. This  
IBM Redbooks®  
publication explains  
the software features



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of the IBM System  
Storage N series  
storage systems with  
Clustered Data  
ONTAP (cDOT)  
Version 8.2, which  
is the first version  
available on the IBM  
System Storage N  
series, and as of  
October 2013, is also  
the most current

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version available.  
cDOT is different  
from previous  
ONTAP versions by  
the fact that it offers  
a storage solution  
that operates as a  
cluster with flexible  
scaling capabilities.  
cDOT  
configurations allow  
clients to build a

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scale-out  
architecture,  
protecting their  
investment and  
allowing horizontal  
scaling of their  
environment. This  
book also covers  
topics such as  
installation, setup,  
and administration  
of those software

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features from the  
IBM System Storage  
N series storage  
systems and clients,  
and provides  
example scenarios.

This IBM®  
Redpaper™  
provides a reference  
architecture, based  
on Apache Hadoop,  
to help businesses

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gain control over  
their data, meet tight  
service level  
agreements (SLAs)  
around their data  
applications, and  
turn data-driven  
insight into effective  
action. Big Data  
Networked Storage  
Solution for Hadoop  
delivers the

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capabilities for ingesting, storing, and managing large data sets with high reliability. IBM InfoSphere® Big Insights™ provides an innovative analytics platform that processes and analyzes all types of data to turn large

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complex data into  
insight. IBM  
InfoSphere  
BigInsights brings  
the power of Hadoop  
to the enterprise.  
With built-in  
analytics, extensive  
integration  
capabilities, and the  
reliability, security  
and support that you

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require, IBM can help put your big data to work for you. This IBM Redpaper publication provides basic guidelines and best practices for how to size and configure Big Data Networked Storage Solution for Hadoop. This IBM®



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Redbooks®

publication provides information for attaching the IBM XIV® Storage System to various host operating system platforms, including IBM i. The book provides information and references for

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combining the XIV Storage System with other storage platforms, host servers, or gateways, including IBM N Series, and IBM ProtecTIER®. It is intended for administrators and architects of enterprise storage

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systems. The book also addresses using the XIV storage with databases and other storage-oriented application software that include: IBM DB2® VMware ESX Microsoft HyperV SAP The goal is to give an overview of the

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versatility and compatibility of the XIV Storage System with various platforms and environments. The information that is presented here is not meant as a replacement or substitute for the Host Attachment kit

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publications. It is meant as a complement and to provide readers with usage guidance and practical illustrations.

December 2-7, 2001  
San Diego, Ca.  
USA.

Monitoring –  
Grundlagen und

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Praxis

Concepts, Strategies,  
and Challenges

IBM System Storage

N series Reference

Architecture for

Virtualized

Environments

High-Performance

Big-Data Analytics

A Quantitative

Approach

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Continuing its  
commitment to  
developing and  
delivering industry-  
leading storage  
technologies, IBM®  
introduces Data  
Reduction Pools (DRP)  
and Deduplication  
powered by IBM  
Spectrum™  
Virtualize, which are  
innovative storage  
features that deliver

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essential storage  
efficiency technologies  
and exceptional ease of  
use and performance, all  
integrated into a proven  
design. This book  
discusses Data  
Reduction Pools (DRP)  
and Deduplication and  
is intended for  
experienced storage  
administrators who are  
fully familiar with IBM  
Spectrum Virtualize,



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SAN Volume  
Controller, and the  
Storwize family of  
products.

Computer Architecture  
The Advertising Red  
Books

Computing Systems and  
Approaches

Genomics in the Cloud  
Implementing IBM

Storage Data

Deduplication Solutions

Big Data Networked

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Storage Solution for  
Hadoop