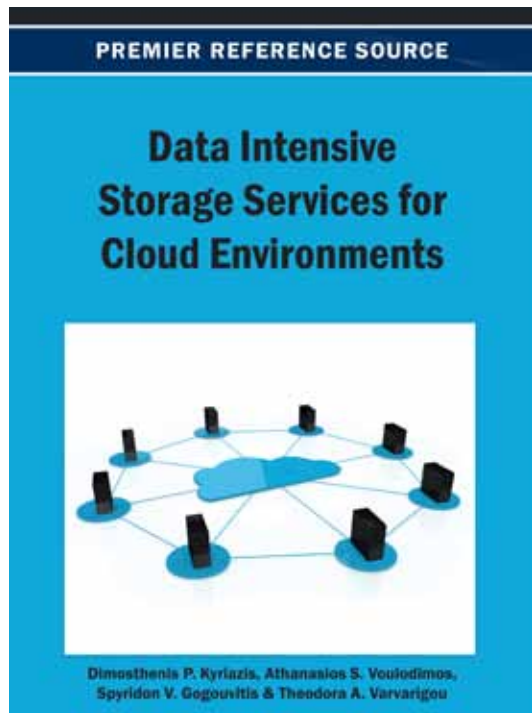


An Excellent Addition to Your Library!

Released: April 2013

Data Intensive Storage Services for Cloud Environments



Dimosthenis Kyriazis (National Technical University of Athens, Greece), Athanasios Voulodimos (National Technical University of Athens, Greece), Spyridon V. Gogouvtis (National Technical University of Athens, Greece) and Theodora Varvarigou (National Technical University of Athens, Greece)

With the evolution of digitized data, our society has become dependent on services to extract valuable information and enhance decision making by individuals, businesses, and government in all aspects of life. Therefore, emerging cloud-based infrastructures for storage have been widely thought of as the next generation solution for the reliance on data increases.

Data Intensive Storage Services for Cloud Environments provides an overview of the current and potential approaches towards data storage services and its relationship to cloud environments. This reference source brings together research on storage technologies in cloud environments and various disciplines useful for both professionals and researchers.

Topics Covered:

- Access Control
- Business Models
- Cloud Environments
- Content Centric Storage
- Data Mobility
- Distributed Object Storage Systems
- Placement of Virtual Machines

ISBN: 9781466639348; © 2013; 317 pp.

Print: US \$185.00 | Perpetual: US \$280.00 | Print + Perpetual: US \$370.00

Pre-pub Discount:*

Print: US \$175.00 | Perpetual: US \$265.00

* Pre-pub price is good through one month after publication date.

Market: This premier publication is essential for all academic and research library reference collections. It is a crucial tool for academicians, researchers, and practitioners. Ideal for classroom use.

Dimosthenis Kyriazis received the diploma from the Dept. of Electrical and Computer Engineering of the National Technical University of Athens, Athens, Greece in 2001, the MS degree in Techno-Economic Systems (MBA) co-organized by the Electrical and Computer Engineering Dept - NTUA, Economic Sciences Dept - National Kapodistrian University of Athens, Industrial Management Dept - University of Piraeus and his Ph.D. from the Electrical and Computer Engineering Department of the National Technical University of Athens in 2007. He is currently a Research Engineer in the Telecommunication Laboratory of the Institute of Communication and Computer Systems (ICCS). Before joining the ICCS he worked in the private sector as Telecom Software Engineer. He has participated in numerous EU / National funded projects (such as IRMOS, NextGRID, Akogrimo, BEinGRID, HPC-Europa, GRIA, Memphis, CHALLENGERS, HellasGRID, etc) and currently serves as the Technical Coordinator of the IRMOS EU project. His research interests include Grid computing, scheduling, Quality of Service provision, and workflow management in heterogeneous systems and service oriented architectures.

Chapter 1

Commercial and Distributed Storage Systems

Gogouvitis Spyridon V. (National Technical University of Athens, Greece)
Voulodimos Athanasios (National Technical University of Athens, Greece)
Kyriazis Dimosthenis (National Technical University of Athens, Greece)

Chapter 2

Key Distributed Components for a Large-Scale Object Storage

Allalouf Miriam (Jerusalem College of Engineering, Israel)
Chevalier Ghislain (Orange Labs, France)
Harnik Danny (IBM Haifa Research Labs, Israel)
Tal Sivan (Infinidat Ltd., Israel)

Chapter 3

Content Centric Storage and Current Storage Systems

Jaeger Michael C. (Siemens AG, Corporate Technology, Germany)
Hohenstein Uwe (Siemens AG, Corporate Technology, Germany)

Chapter 4

Business Models and Billing Challenges

EliceGUI Javier Martínez (Telefónica I+D, Spain)
Xu Lei (Umeå University, Sweden)
Escobar Emilio García (Telefónica I+D, Spain)

Chapter 5

Towards Federation and Interoperability of Cloud Storage Systems

Dippl Sebastian (Siemens AG Corporate Technology, Germany)
Jaeger Michael C. (Siemens AG Corporate Technology, Germany)
Luhn Achim (Siemens AG Corporate Technology, Germany)
Shulman-Peleg Alexandra (IBM Haifa Research Lab, Israel)
Vernik Gil (IBM Haifa Research Lab, Israel)

Chapter 6

SLA Management in Storage Clouds

Mavrogeorgi Nikolettta (National Technical University of Athens, Greece)
Gogouvitis Spyridon V. (National Technical University of Athens, Greece)
Voulodimos Athanasios (National Technical University of Athens, Greece)
Alexandrou Vasilios (National Technical University of Athens, Greece)

Chapter 7

Cloud Access Control Mechanisms

Formisano Ciro (Engineering Ingegneria Informatica SPA, Italy)
Lucia Bonelli (Engineering Ingegneria Informatica SPA, Italy)
Balraj Kanchanna Ramasamy (Engineering Ingegneria Informatica SPA, Italy)
Shulman-Peleg Alexandra (IBM Haifa Research Lab, Israel)

Chapter 8

Compliance in the Cloud

Bonelli Lucia (Engineering Ingegneria Informatica, Italy)
Giudicianni Luisa (Engineering Ingegneria Informatica, Italy)
Immediata Angelo (Engineering Ingegneria Informatica, Italy)
Luzzi Antonio (Engineering Ingegneria Informatica, Italy)

Chapter 9

Media Convergence and Cloud Technologies

Lorenz Mirko (Deutsche Welle, Germany)
Rath-Wiggins Linda (Deutsche Welle, Germany)
Runde Wilfried (Deutsche Welle, Germany)
Messina Alberto (RAI, Italy)
Sunna Paola (RAI, Italy)
Dimino Giorgio (RAI, Italy)
Montagnuolo Maurizio (RAI, Italy)
Borgotallo Roberto (RAI, Italy)

Chapter 10

Telecommunication Industry

Solsvik Fredrik (Telenor ASA, Norway)
Dao Michel (Orange Labs, France)

Chapter 11

Data Intensive Enterprise Applications

Izsak Peter (SAP Research Israel, Israel)
Shribman Aidan (SAP Research Israel, Israel)

Chapter 12

Cloud Computing for Earth Observation

Cossu Roberto (European Space Agency (ESRIN), Italy)
Di Giulio Claudio (European Space Agency (ESRIN), Italy)
Brito Fabrice (Terradue, Italy)
Petcu Dana (Institute e-Austria, Austria & West University of Timisoara, Romania)

Chapter 13

Cloud-TM:

Barreto João (Technical University Lisbon, Portugal)
Di Sanzo Pierangelo (Sapienza Università di Roma, Italy)
Palmieri Roberto (Sapienza Università di Roma, Italy)
Romano Paolo (Technical University Lisbon, Portugal)

Chapter 14

Storage Security and Technical Challenges of Cloud Computing

Pal Shantanu (University of Calcutta, India)

Chapter 15

Flashing in the Cloud:

Boukhobza Jalil (University of Western Brittany, France)

Chapter 16

XtreamFS:

Stender Jan (Zuse Institute Berlin, Germany)
Berlin Michael (Zuse Institute Berlin, Germany)
Reinefeld Alexander (Zuse Institute Berlin, Germany)

Order Your Copy Today!

Name: _____

Organization: _____

Address: _____

City, State, Zip: _____

Country: _____

Tel: _____

Fax: _____

E-mail: _____

☐ Enclosed is check payable to IGI Global in
US Dollars, drawn on a US-based bank

☐ Credit Card ☐ Mastercard ☐ Visa ☐ Am. Express

3 or 4 Digit Security Code: _____

Name on Card: _____

Account #: _____

Expiration Date: _____