

Digital Preservation Trends Resources

General Resources

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Center for Technology in Government - Making Smart IT Choices: Understanding Value and Risk in Government IT Investments. Second Edition (2004)

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CPIT, Technical Evaluation of Selected Open Source Repositories Solutions, Version 1.3, September 2006:

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Digital Preservation Coalition

Contracting Out For Digital Preservation Services: Information Leaflet and Checklist, 2004:

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Report on the Survey Regarding Digital Preservation in Local Authority Archive Services, (2008)

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Tackling the Preservation Challenge: Practical Steps for Repository Managers, presentation Chris Awre (2008)

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<http://www.dpconline.org/newsroom/whats-new>

Formerly PADI/DPC: <http://www.nla.gov.au/padi/quarterly.html>

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Educause: Rationalizing Our IT Investments
<http://net.educause.edu/ir/library/pdf/ERM0129.pdf>

Government Accounting Office (GAO) - Information Technology Investment Management: A Framework for Assessing and Improving Process Maturity
<http://www.gao.gov/products/GAO-04-394G>

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<http://www.dlib.org/dlib/april06/mckinney/04mckinney.html>

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http://www.beagrie.com/KRDS_Factsheet_0910.pdf

Keeping Research Data Safe User Guide, Version 1.0, by Charles Beagrie, Dec. 2010:
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Institutional Repositories, Library Trends, Fall 2008:
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UKOLN and Arts and Humanities Data Service (AHDS), Digital Repositories Review, by Rachel Heery, and Sheila Anderson, 19 February 2005:
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Monitoring for Tools:

- **NDIIPP Partner Tool and Service Inventory**
<http://www.digitalpreservation.gov/partners/resources/tools/index.html>
- **Digital Curation Center: Digital Curation Tools**
<http://www.dcc.ac.uk/tools/digital-curation-tools/>
- **PADI Digital Preservation Tools** <http://www.nla.gov.au/padi/topics/535.html>
- **PRONOM Information Resources**
<http://www.nationalarchives.gov.uk/aboutapps/pronom/tools.htm>
- **Web archiving tools: IIPC** <http://netpreserve.org/software/downloads.php>

Projects and Initiatives – Recently Funded



National Science Foundation (NSF)

III: Small: Assisted Simulation for Digital Preservation, Indiana University, 2010:
<http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=1016967>

CAREER: Systems for the emerging patterns of content exchange, Northeastern University, 2011: <http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=1054233>

Sustainable Digital Data Preservation and Access Network Partners (DataNet):
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503141&org=NSF&sel_org=NSF&from=fund

NARA Transcontinental Persistent Archive Prototype:
<http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0848296>

A Digital Repository for Preservation and Sharing of Data Underlying Published Works in Evolutionary Biology:
<http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0743720>

Long-Lived Data Repositories:
<http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0726250>

CAREER: Self-Preserving Digital Objects:
<http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0643784>

Digital Engineering Archives:
<http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0456001>

Joint Information Systems Committee (JISC)

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<http://www.jisc.ac.uk/whatwedo/programmes/inf11/digpres/benefitanalysis.aspx>

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Investigating the Significant Properties of Electronic Content Over Time (InSPECT):
<http://www.significantproperties.org.uk/>

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CollectionSpace, American Museum of the Moving Image, 2010:
<http://www.collectionspace.org/>

Dissemination Information Packages for Information Reuse, University of Michigan, 2010: <http://dipir.org/>

Data Curation Education Research Centers (DCERC), University of Illinois at Urbana-Champaign, 2010: <http://cirss.lis.illinois.edu/DCERC/DCERC.html>

Omeka Commons, Center for History and New Media (CHNM) at George Mason University, 2010: <https://omeka.org/blog/category/omeka-commons/>

National Endowment for the Humanities (NEH)

Preservation and Access Virtual Education Laboratory for Digital Humanities, University of Michigan and ICPSR, 2010: <http://www.virtualarchiveslab.org/>

National Digital Information Infrastructure and Preservation Program (NDIIPP)

Meta Archive, Educom Institute, "A Guide to Distributed Digital Preservation," by Katherine Skinner and Matt Schultz, 2010:
http://www.metaarchive.org/sites/default/files/GDDP_Educomia.pdf

North Carolina Geospatial Data Archiving Project, NCSU Libraries and North Carolina Center for Geographic Information Analysis, "Final Report," 2010:
http://www.digitalpreservation.gov/partners/nrgdap/high/nrgdap_final_report.pdf

Projects and Initiatives – Examples and Updates

Archivematica

Archivematica Wiki, 2010: http://archivematica.org/wiki/index.php?title=Main_Page

Archivematica software, 2010: <http://archivematica.org/wiki/index.php?title=Software>

Archivematica documentation, 2010:
<http://archivematica.org/wiki/index.php?title=Documentation>

Archivematica: Creating a Comprehensive Digital Preservation System, by Peter Van Garderen, 2010: <http://www.youtube.com/watch?v=czQx4sCO88k>

Home: http://archivematica.org/wiki/index.php?title>Main_Page

Microservices: <http://archivematica.org/wiki/index.php?title=Micro-services>

BagIt

California Digital Library: BagIt, California Digital Library, 2010:
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<http://www.digitalpreservation.gov/videos/bagit0609.html>

BagIt: Transferring Content for Digital Preservation, Library of Congress, 2009:
http://www.youtube.com/watch?v=l3p3ao_JSfo

California Digital Library (CDL): <http://www.cdlib.org/services/uc3/contact.html>

The Chesapeake Project – Two year Pilot Project Evaluation. (June 2009).
http://cdm266901.cdmhost.com/policies/legal_twodayprojectevaluation_june2009.pdf

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Libraries/Information Services Digital Preservation & Asset Management Infrastructure:
Status Report. (May 2009).
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Chronopolis

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<http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=1612488&userType=inst>

Community Research and Development Information Service (CORDIS),

PrestoPRIME project General Information:
http://cordis.europa.eu/fetch?CALLER=PROJ_ICT&ACTION=D&DOC=5&CAT=PROJ&QUERY=012014bb2fc4:a10d:46d4c62d&RCN=89482



PrestoPRIME project Fact Sheet: http://cordis.europa.eu/fp7/ict/telearn-digicult/digicult-projects-prestoprime_en.html

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<http://www.diglib.org/forums/spring2009/presentations/Habing.pdf>

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<http://www.ukoln.ac.uk/repositories/digirep/index/CRIG>

DRIVER

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DuraSpace – Fedora and DSpace initiative <http://duraspace.org/index.php>

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<http://hdl.handle.net/1721.1/26700>

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http://wiki.dspace.org/index.php/DSpace_Fedora_Collaboration

Strategic Overview - Updates and Future Directions from the DSpace Foundation and Fedora Commons, presentation by Payette and Kimpton from 4th International Conference on Open Repositories, 2009:
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Ensuring Perpetual Access: Establishing a Federated Strategy on Perpetual Access and Hosting of Electronic Resources for Germany, by Charles Beagrie Ltd., 2010:
http://www.allianzinitiative.de/fileadmin/hosting_studie_e.pdf

Florida Center for Library Automation

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<http://www.dlib.org/dlib/november08/caplan/11caplan.html>

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Don't Miss This! Recent Outputs from JISC's Repositories Work, poster from 4th International Conference on Open Repositories: <http://hdl.handle.net/1853/28503>

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Versioning in Repositories: Implementing Best Practice, by Jenny Brace, Ariadne 56 (2008): <http://www.ariadne.ac.uk/issue56/brace/>

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Kansas Information Technology Advisory Board (ITAB), Strategic Information Management Plan 2008-2013, January 2008
<http://www.da.ks.gov/kito/cita/SIMPlan.htm>

Library and Archives Canada: Towards a Trusted Digital Repository, by Pam Armstrong, January 2008 <http://www.ifla.org/IV/ifla74/papers/084-Armstrong-en.pdf>

National Archives, UK, Digital Archiving, 15 January 2008:
<http://www.nationalarchives.gov.uk/preservation/digitalarchive/default.htm>

National Archives and Records Administration (NARA), US
Electronic Records Archive: <http://www.archives.gov/era/>

Architectural Issues in Preservation, presented at the Preservation & Archiving Special Interest Group conference, November 2008:
https://lib.stanford.edu/files/pasig-fall08/PASIG_Thibodeau.pdf

National Library of Australia, by Mark Corbould, Information Technology Strategic Plan 2010-2013, December 2010: <http://www.nla.gov.au/policy/documents/ITStrategicPlan2010-2013.pdf>

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<http://www.nsf.gov/od/oci/CI-v40.pdf>

OpenDOAR: <http://www.opendoar.org/index.html>

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<http://www.ict.ox.ac.uk/odit/projects/digitalrepository/docs/ScopingStudyInterviews-Workshop%20Findings.pdf>

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<http://preserv.eprints.org/papers/presmeta/presmeta-paper.html>

The Repository Adventure, by H. Frank Cervone, Library Journal (2004):
<http://www.libraryjournal.com/article/CA421033.html>

Registry of Open Access Repositories (ROAR): <http://roar.eprints.org/>

ROARMAP: <http://www.eprints.org/openaccess/policysignup/>

RUBRIC Toolkit: Action Plans for Digital Preservation Management, 2007 (extract of DPM Workshop curriculum):
http://rubric.edu.au/packages/RUBRIC_Toolkit/docs/Digital_Preservation_Management.htm

SHERPA, University of Nottingham, UK

Institutional Repositories: Staff and Skills requirements, Mary Robinson, 2007
<http://www.sherpa.ac.uk/documents/sherpaplusdocs/notts-Repository%20Staff%20and%20Skills.pdf>

SHERPA DP2 final report, 2009 -- http://ie-repository.jisc.ac.uk/395/1/sherpadp2_finalreport_v1.pdf

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University of Illinois at Urbana-Champaign, IDEALS – Illinois Digital Environment for Access to Learning and Scholarship:

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University of Michigan, Deep Blue Preservation and Format Support, 2008:

<http://deepblue.lib.umich.edu/about/deepbluepreservation.jsp>

University of Southampton, From the Desktop to the Cloud: Leveraging Hybrid Storage Architectures in Your Repository, presentation from 4th International Conference on Open Repositories, 2009: <http://hdl.handle.net/1853/28598>

Yale University Library, Considerations for Implementation of a Permanent Access Repository: A Storyboard, presented at Preservation & Archiving Special Interest Group conference, November 2008: https://lib.stanford.edu/files/pasig-fall08/PASIG_Gewirtz.pdf

Repository Software and Examples

arXiv.org

"e-prints in Physics, Mathematics, Computer Science and Quantitative Biology"

<http://arxiv.org>

BePress Digital Commons

"The Premier Institutional Repository Platform"

<http://www.bepress.com/>

BioMed Central: Open Repository

"a service from BioMed Central to build, launch, host and maintain institutional repositories for organizations" - built on DSpace

<http://www.openrepository.com/>

Chronopolis

"Federated Digital Preservation Across Time and Space" NARA, University of Maryland, San Diego Supercomputer Center (SDSC). 2006 Internet2 Idea award winner

<http://ieeexplore.ieee.org.proxy.lib.umich.edu/stamp/stamp.jsp?tp=&arnumber=1612488>

DARIAH: Digital Research Infrastructure for the Arts and Humanities

"DARIAH's mission is to facilitate long-term access to, and use of all European arts and humanities data for the purposes of research"

<http://www.dariah.eu/index.php>

DIAS: Digital Information Archiving System

"provides a flexible and scalable open deposit library solution for storing and retrieving massive amounts of electronic documents and multimedia files"

<http://www-5.ibm.com/nl/dias/>

Digital Archive - "Digital Fridge"

Digital archive developed at The National Archives, UK

<http://www.nationalarchives.gov.uk/preservation/digitalarchive/default.htm>

Diva

"a software infrastructure for visualizing and interacting with dynamic information spaces"

<http://embedded.eecs.berkeley.edu/diva/>



Greenstone Digital Library Software

"a suite of software for building and distributing digital library collections"

<http://www.greenstone.org/cgi-bin/library>

Idea@ALM

"integrates management, access and preservation activities for Archives, Libraries and Museums from a single source"

<http://www.idea-alm.com/site/content/t4.asp?Sid=50&Pid=228>

Internet Archive

"...is building a digital library of Internet sites and other cultural artifacts in digital form"

<http://www.archive.org/>

Lots of Copies Keep Stuff Safe (LOCKSS)

"open source, peer-to-peer software that functions as a persistent access preservation system"

<http://www.lockss.org/lockss/Home>

MOPSEUS

"a lightweight digital library service based on the Fedora system. This service was created to address the needs of small libraries where there is no technical staff to support it"

<http://194.177.192.14/mopseus/index.html>

National Agricultural Library Digital Repository (NALDR)

<http://nldr.nal.usda.gov/>

OCLC digital archive

"real-world solutions for the challenges of archiving and preservation in the virtual world"

<http://www.oclc.org/digitalarchive/>

Open Source Portfolio Initiative (OSPI)

Repository project from the e-learning community

<http://www.theospi.org/>

UC Libraries Digital Preservation Repository

"a set of services that support the long-term retention of digital objects for ...UC libraries and their users"

<http://www.cdlib.org/inside/projects/preservation/dpr/>

Cloud Computing - Background

As organizations look for more efficient ways to store and manipulate their data, cloud computing is increasingly becoming an attractive option. Definitions of cloud computing vary; at its most basic, the term denotes the use by multiple people or organizations of computing and/or storage resources that are not physically collocated with the users. These resources can be accessed on-demand over the network, rapidly scaled to adjust to variations in demand, and are pooled for use by multiple people or organizations at once. Most writers identify three different service models for cloud computing:

- ***Infrastructure as a Service (IaaS)***: The cloud provider offers use of hardware for storage and computing power over the network. The consumer is responsible for essentially all software to be run on the hardware. Amazon's Web Services are an example of IaaS.

- **Platform as a Service (PaaS)**: The cloud provider offers a computing platform to support consumers in developing and deploying Web-based applications. The consumers do not need to concern themselves with the underlying hardware. Google App Engine is an example of PaaS.
- **Software as a Service (SaaS)**: The cloud provider offers web-based applications for consumers to use. Web mail clients such as GMail or Hotmail are examples of SaaS.

In addition to the different service models, clouds can be deployed on two different levels, public or private. Public clouds are available to the general public or a large group of people, and are owned by organizations that sell cloud services. Private clouds are available only to a specific organization, and can be run either on-site or off-site by either the organization itself or a third party.

Cloud Computing and Security

Security is one of many concerns with cloud computing, and one that may prevent organizations from putting their data into the cloud. Key questions when it comes to security include: What kinds of security measures are in place? Who will have access to my data? How much control do I have over my own data? How are cloud services compliant with my current security and privacy policies?

Ultimately, one of the greatest security-related obstacles to adoption of cloud computing is the fact that organizations lose physical control over their data. Many cloud companies are not able to disclose where in the country (or world) the data resides; this can make organizations wary of storing data, especially since some legal regulations require that companies store their data within certain physical jurisdictions. However, some cloud computing providers say that they can guarantee that data will be stored within certain jurisdictional boundaries, even if they cannot specifically say where the data will be physically located.

General Cloud Computing Resources

Appirio Cloud Computing Ecosystem Map: <http://www.appirio.com/ecosystem/>

Google, Inc. Cloud Computing—Latest Buzzword or a Glimpse of the Future?, 2/2009: <http://www.cio.com/documents/whitepapers/WP2CloudComputing.pdf>

Jericho Forum Cloud Cube Model: Selecting Cloud Formations for Secure Collaboration, 4/2009: http://www.opengroup.org/jericho/cloud_cube_model_v1.0.pdf

JISC David F. Flanders, Fedorazon - Final Report, 2009: http://ie-repository.jisc.ac.uk/426/1/FinalReport_Fedorazon_JISC.pdf

National Institute of Standards and Technology Peter Mell and Tim Grace, The NIST Definition of Cloud Computing, 10/7/09: <http://csrc.nist.gov/groups/SNS/cloud-computing/cloud-def-v15.doc>

Oracle Platform-as-a-Service Private Cloud with Oracle Fusion Middleware, 10/2009: http://www.computerworld.com/pdfs/Oracle_APP_EN_WP_Cloud.pdf

Storage Networking Industry Association Managing Data Storage in the Public Cloud, 10/2009: <http://www.snia.org/cloud/ManagingDataPublicCloud.pdf>

Cloud Computing Policies



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<http://www.cit.cornell.edu/policies/publications/cloud.cfm>

Indiana University Use of Cloud Computing, 8/26/09:
http://informationpolicy.iu.edu/resources/articles/cloud_computing

Michigan State University

Cloud Computing' Services: Appropriate use of online software tools such as Google Apps, Gmail, and Microsoft Live Office, 11/9/09: http://lct.msu.edu/documents/LCT-Appropriate_Uses_of_Cloud_Computing_09_Nov_2009.pdf

Appropriate Use of the Michigan State University Google Apps Education Edition Services, 8/29/09: http://lct.msu.edu/documents/LCT-Appropriate_Uses_of_MSU_Google_Apps_Education_Edition_29_Aug_2009.pdf

Oakland University Checklist -- Outsourcing, Hosting and ASPs, 6/24/08:
<http://www2.oakland.edu/uts/files/checklistoutsourcinghosting.doc>

Reed College Cloud Computing Policy, 11/21/08: <http://www.reed.edu/cis/policies/cloud-computing.html>

University of California, Berkeley

Before sourcing your technology..., 1/13/10:
<http://technology.berkeley.edu/cio/fptis/sta/source.html>

University of Chicago Policy on Use of External Services, 9/10/09:
<http://nsit.uchicago.edu/policies/exsrvpol/>

University of Notre Dame Gordon Wishon, Google Apps for Faculty Use, 3/17/09:
<http://oit.nd.edu/google/GoogleAppsforFaculty.shtml>

University of Texas Health Science Center at San Antonio Third-Party Management of Information Resources, 3/2007: <http://www.uthscsa.edu/hop2000/word/5.8.18.doc>

Cloud Implementation Examples

Amazon Web Services Creating HIPAA-Compliant Medical Data Applications with Amazon Web Services", 4/2009: http://awsmedia.s3.amazonaws.com/AWS_HIPAA_Whitepaper_Final.pdf

ICPSR

Bryan Beecher, ICPSR and the Cloud, 11/20/09: <http://techaticpsr.blogspot.com/2009/11/icpsr-and-cloud.html>

Data Enclave in the Cloud: <http://enclavecloud.blogspot.com/>

Library of Congress Library of Congress and DuraCloud Launch Pilot Program Using Cloud Technologies to Test Perpetual Access to Digital Content, 7/14/09:
<http://www.loc.gov/today/pr/2009/09-140.html>

Patrick Thibodeau CIA endorses cloud computing approach to bolster security, 10/7/09:
<http://www.infoworld.com/d/cloud-computing/cia-endorses-cloud-computing-approach-bolster-security-859>



US Federal Cloud Computing Initiative RFQ, 7/30/09: <http://www.scribd.com/doc/17914883/US-Federal-Cloud-Computing-Initiative-RFO-GSA>

Organizational Webpages

Cloud Computing Interoperability Forum: <http://www.cloudforum.org/>

Cloud Security Alliance: <http://www.cloudsecurityalliance.org/>

Distributed Management Task Force, Inc.

Open Cloud Standards Incubator:

<http://replay.waybackmachine.org/20090520045407/http://www.dmtf.org/about/cloud-incubator>

DuraSpace DuraCloud: <http://duraspace.org/duracloud.php>

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<http://csrc.nist.gov/groups/SNS/cloud-computing/index.html>

The Open Group Cloud Computing: <https://www.opengroup.org/cloudcomputing/>

Cloud Security and Other Issues

Amazon Web Services Overview of Security Processes, 11/2009:
http://awsmedia.s3.amazonaws.com/pdf/AWS_Security_Whitepaper.pdf

Cloud Security Alliance Security Guidance for Critical Areas of Focus in Cloud Computing, 12/2009:
<http://www.cloudsecurityalliance.org/csaguide.pdf>

European Network and Information Security Agency (ENISA) Cloud Computing: Benefits, Risks and Recommendations for Information Security, 11/2009:
http://www.enisa.europa.eu/act/rm/files/deliverables/cloud-computing-risk-assessment/at_download/fullReport

Google Apps Admin Help: Security and Privacy:
<http://www.google.com/support/a/bin/answer.py?hl=en&answer=60762>

Google, Inc. Comprehensive review of security and vulnerability protections for Google Apps, 2/2007:
http://static.googleusercontent.com/external_content/untrusted/www.google.com/a/help/intl/en/admins/pdf/ds_gsa_apps_whitepaper_0207.pdf

Microsoft Privacy in the Cloud Computing Era: A Microsoft Perspective, 11/2009:
http://download.microsoft.com/download/3/9/1/3912E37E-5D7A-4775-B677-B7C2BAF10807/cloud_privacy_wp_102809.pdf

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Trend Micro Cloud Computing Security: Making Virtual Machines Cloud-Ready, 8/2009:
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