



Document details

< Back to results | 1 of 4 Next >

[↗ Export](#)
[⬇ Download](#)
[🖨 Print](#)
[✉ E-mail](#)
[📄 Save to PDF](#)
[★ Add to List](#)
[More... >](#)
[Full Text](#)[View at Publisher](#)

International Journal of Advanced Computer Science and Applications
Volume 11, Issue 9, 2020, Pages 702-710

Disaster recovery in cloud computing systems: An overview (Article)

[\(Open Access\)](#)Abualkishik, A.Z.^a, Alwan, A.A.^b, Gulzar, Y.^c^aCollege of Computer Information Technology, American University in the Emirates, Dubai, United Arab Emirates^bDepartment of Computer Science, Kuliyah of Information and Communication Technology, International Islamic University Malaysia, Selangor, Malaysia^cDepartment of Management Information Systems, College of Business Administration, King Faisal University, Al-Ahsa, Saudi Arabia

Abstract

View references (38)

With the rapid growth of internet technologies, large-scale online services, such as data backup and data recovery are increasingly available. Since these large-scale online services require substantial networking, processing, and storage capacities, it has become a considerable challenge to design equally large-scale computing infrastructures that support these services cost-effectively. In response to this rising demand, cloud computing has been refined during the past decade and turned into a lucrative business for organizations that own large datacenters and offer their computing resources. Undoubtedly cloud computing provides tremendous benefits for data storage backup and data accessibility at a reasonable cost. This paper aims at surveying and analyzing the previous works proposed for disaster recovery in cloud computing. The discussion concentrates on investigating the positive aspects and the limitations of each proposal. Also examined are discussed the current challenges in handling data recovery in the cloud context and the impact of data backup plan on maintaining the data in the event of natural disasters. A summary of the leading research work is provided outlining their weaknesses and limitations in the area of disaster recovery in the cloud computing environment. An in-depth discussion of the current and future trends research in the area of disaster recovery in cloud computing is also offered. Several work research directions that ought to be explored are pointed out as well, which may help researchers to discover and further investigate those problems related to disaster recovery in the cloud environment that have remained unresolved. © 2020, Science and Information Organization.

Author keywords

Cloud computing

Data backup

Disaster recovery

Multi- cloud

ISSN: 2158107X

Source Type: Journal

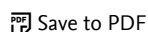
Original language: English

DOI: 10.14569/IJACSA.2020.0110984

Document Type: Article

Publisher: Science and Information Organization

References (38)

[View in search results format >](#)[Export](#)[Create bibliography](#)Metrics ⓘ [View all metrics >](#)

PlumX Metrics

Usage, Captures, Mentions, Social Media and Citations beyond Scopus.

Cited by 0 documents

Inform me when this document is cited in Scopus:

[Set citation alert >](#)[Set citation feed >](#)

Related documents

Disaster recovery in single-cloud and multi-cloud environments: Issues and challenges

Alshammari, M.M. , Alwan, A.A. , Nordin, A. (2018) 4th IEEE International Conference on Engineering Technologies and Applied Sciences, ICETAS 2017

Disaster Recovery and Business Continuity for Database Services in Multi-Cloud

Al-Shammari, M.M. , Alwan, A.A. (2018) 1st International Conference on Computer Applications and Information Security, ICCAIS 2018

Data backup and recovery with a minimum replica plan in a multi-cloud environment

Alshammari, M.M. , Alwan, A.A. , Nordin, A. (2020) International Journal of Grid and High Performance Computing

[View all related documents based on references](#)