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Tytuł artykułu

Overview and implementing sql server high availability solutions

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Abstrakty

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The paper presents the concepts related to the design of high availability solutions for Microsoft SQL (MS SQL) Server database servers. MS SQL Server from version 2012 offers a new capability called AlwaysOn which is aimed at reducing downtime of servers or databases during a failure. It includes several mechanisms such as Failover Cluster Instances, Availability Groups, Database mirroring, Log shipping. The paper presents the implementation of some of these concepts in our prototype. We also compare these mechanisms focusing on their aptitude in contemporary information systems.

Słowa kluczowe

PL

[baza danych](#) [serwer bazodanowy](#) [SQL Server](#)

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[high availability](#) [windows clusters](#) [availability group](#) [failover cluster instance](#) [database mirroring](#) [log shipping](#) [SQL Server](#)

Wydawca

- Faculty of Mathematics and Computer Science, University of Lodz

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Uwagi

PL

Opracowanie ze środków MNiSW w ramach umowy 812/P-DUN/2016 na działalność upowszechniającą naukę.

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The solution implements multiple readable copies as well as convenient read and write separation schemes. It outperforms Database Mirroring + Replication for achieving read and write separation with respect to availability and reliability. Several features may have restrictions in versions earlier than SQL Server 2016. It also demonstrates a typical software solution for SQL Server AlwaysOn availability groups. Figure 1. Overview of Core Components. Let us now discuss the core components of the solution. 1. Architecture Overview. The figure shows a "2 + 3" high-availability and disaster-tolerant solution. The "2" refers to primary and secondary database copies. I have a bunch of SQL servers which I periodically performs maintenance on (Windows Update patches etc.). Now I want to the database online 24/7 and need to implement one of the high-availability solutions for SQL server. The solutions needs to be cheap and simple to use. I have no problems tweaking the connection strings for the clients of the database, so currently I'm looking into database mirroring with manual failovers when taking down a partner instance for patching etc. Is this the best thing to do or are there other options which doesn't involve setting up a failover cluster On each SQL server, launch SQL Server Configuration Manager. Choose the SQL Server (MSSQLSERVER instance) to run as the newly created Active Directory account. Go to the AlwaysOn High Availability tab and mark the box Enable AlwaysOn Availability Groups. This will prompt to restart services which can be completed at this point. Create an Advanced Windows Firewall Policy. On each SQL server, create an Advanced Windows Firewall policy that allows port 5022 and an arbitrary port number for the Availability Group Listener. This should be enabled for inbound and outbound communication. Select Datab