

[EN](#)

- [Szukaj](#)
- [Przeglądaj](#)
- [Pomoc](#)
- [O nas](#)
-

Szukaj

Cytuj PL EN

BibTeX

Szukaj podobnych

Preferencje

Język

Widoczny [\[Schowaj\]](#) Abstrakt

20 Liczba wyników

- [Artykuł - szczegóły](#)

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Tytuł artykułu

Overview and implementing sql server high availability solutions

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- [Pobierz](#)

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Abstrakty

EN

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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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 High Availability and Disaster Recovery Overview. We live now in an IT based world, in which the success and the growth of the business depends mainly on the availability of the critical systems that run it. High Availability means that the SQL Server instances or databases will be available and reachable, with the least possible downtime, in case of any server crash or failure. The availability of the SQL Server that is provided by the solution is measured by the number of 9's in the availability percentage that this solution provides, and the total period of annual downtime, as per the Microsoft table below SQL Server Database Mirroring is a database level high availability solution, that can be configured on databases with full recovery model. Finally we will look at Azure SQL deployment and Availability solutions. View the slide deck>. Instructor: Graeme Purves. Graeme has been a technical instructor with IBM and Global Knowledge for more than 20 years. He holds certifications on a broad range of technologies and platforms. MCSE Windows Server NT4 through 2016 MCDBA/MCSE SQL Server 6.5 Trough 2016 MCT Since 1997 Salesforce Administrator CLE SUSE Linux CNE/CNI Netware 3.2 trough 6.5 CIW Security Analyst. In this webinar, you will learn: Introduction to Microsoft SQL Server. What's New in Microsoft SQL Server. Scalability. Pe... Implementing a SQL Data Warehouse. Developing SQL Data Models. View Our Blog Get Our Newsletter.