

Master High Availability Clustering with Windows Server 2008 R2 and SQL Server 2008 R2: A Comprehensive Guide



Windows Server 2008 R2 & SQL Server 2008 R2 High Availability Clustering (Project Series) by Michelle Hawkins

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Learn everything you need to know about high availability clustering with this in-depth guide. Ensure your critical applications and data are always available, no matter what.

to High Availability Clustering

High availability clustering is a critical technology for ensuring that your applications and data are always available, even in the event of a hardware or software failure. With high availability clustering, multiple servers work together to provide a single, highly available service. If one server fails, the other servers in the cluster take over its workload, ensuring that your users can continue to access your applications and data.

There are two main types of high availability clusters: failover clusters and database replication clusters. Failover clusters are used to provide high availability for applications and services, while database replication clusters are used to provide high availability for databases.

Setting Up a Failover Cluster

To set up a failover cluster, you will need at least two servers that are running Windows Server 2008 R2. You will also need to install the Failover Clustering feature on each server. Once you have installed the Failover Clustering feature, you can create a new cluster.

Once you have created a cluster, you can add servers to the cluster and configure the cluster settings. You can also create and manage failover cluster roles. Failover cluster roles are the applications and services that you want to make highly available.

Setting Up a Database Replication Cluster

To set up a database replication cluster, you will need at least two servers that are running SQL Server 2008 R2. You will also need to install the Database Engine Services feature on each server. Once you have installed the Database Engine Services feature, you can create a new replication cluster.

Once you have created a replication cluster, you can add servers to the cluster and configure the cluster settings. You can also create and manage replication groups. Replication groups are the databases that you want to make highly available.

Testing and Troubleshooting High Availability Clusters

Once you have set up a high availability cluster, it is important to test the cluster to ensure that it is working properly. You can test the cluster by failing over the cluster roles or the databases. You can also troubleshoot the cluster if you encounter any problems.

By following the steps in this guide, you can ensure that your critical applications and data are always available, no matter what.

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