

Etere Supports all Microsoft
High Availability Solutions

Solutions in SQL Server

- Backup and Restore
- Log Shipping
- Replication
- Mirroring
- SQL Cluster
- AlwaysOn
- VM mirroring



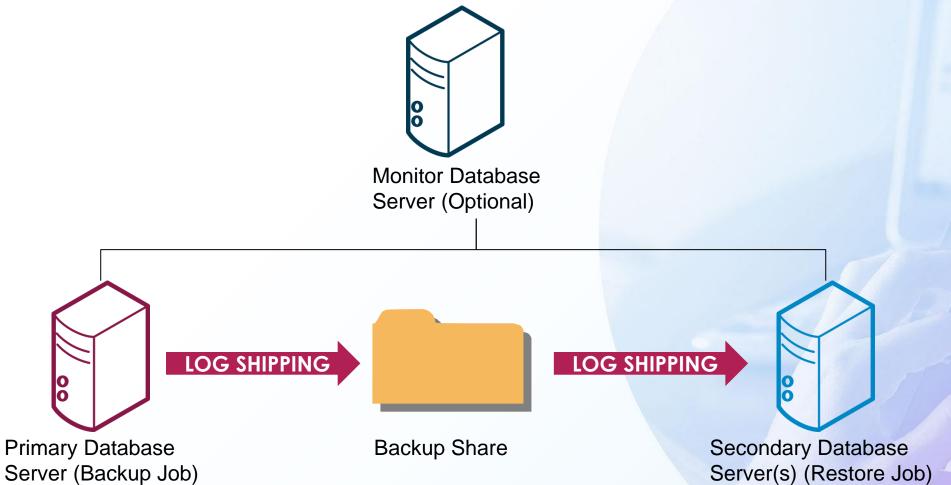
Backup and Restore

- Inexpensive Disaster Recovery solution
- No HA
- Data can be lost

Log shipping

- With HA, DR
- No Automatic Failover but with an automated process of backup and restore
- Database level
- Inexpensive

Log Shipping



Server(s) (Restore Job)

Replication

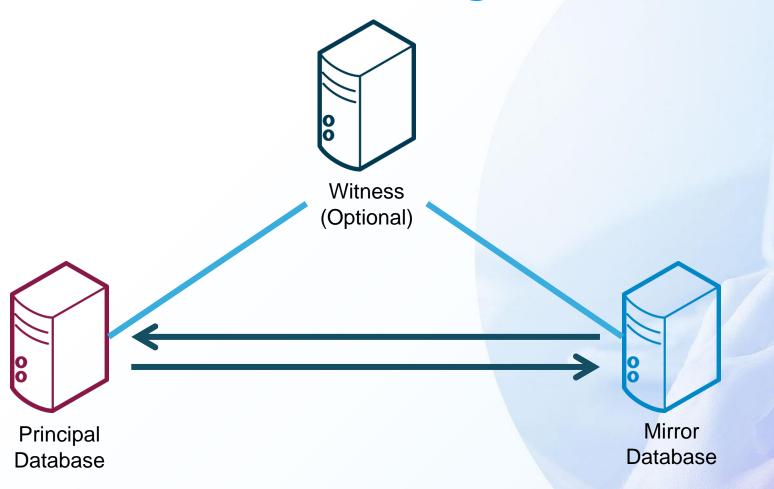
- Database, Object level
- No automatic failover
- Can be used for load balance purposes

Replication Data **Distributor Publisher** Subscriber **Subscriber Subscriber**

Mirroring

- Automatic failover (need witness server optional)
- Read-only database for secondary
- This feature has been declared obsolete by Microsoft

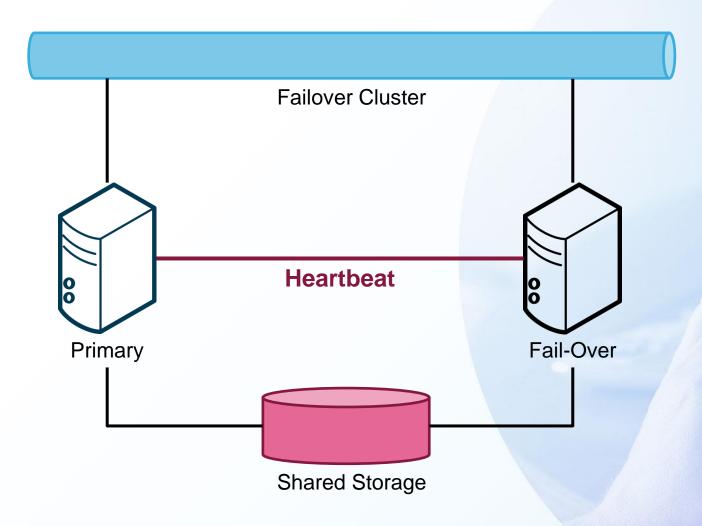
Mirroring



SQL Cluster

- Expensive solution (HD, License,...)
- Include two nodes or more
- Required SAN Storage
- Immediate automatic recovery in case of server failure
- It's the best solution for redundancy until SQL2012

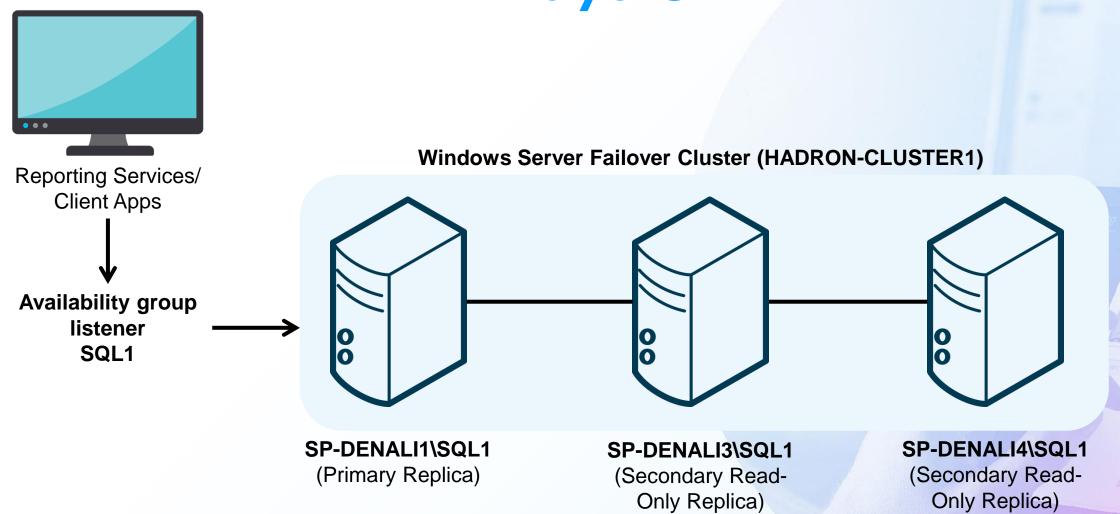
SQL Cluster



AlwaysOn

- New Feature in SQL Server 2012
- Can have up to 5 replicas
- Can be deployed across different locations
- Can use Secondary servers for read only
- Automatic failover

Always On



VM Mirroring

- Easy
- Manual failover
- Not expensive
- Provide Multiple recovery
- Ideal for MAM system that can tolerate a short fail.

VM Mirroring

- This is a different approach moving SQL server on a VM you can mirror all the VM
- Microsoft Hyper-V provide the facility to mirror
- Mirror can be one to one or one to many, the mirrored HW do not need to be the same as main.
- You can setup also restore points to switch back to a configuration after a disaster.
- The only problem is that the switch must happen Manually, so this is ideal for system that can allow several minutes of breakdown.

VM Replica

