



Windows 異地資料備份解決方案

采易資訊系統股份有限公司

ColorLife Information System Co.,Ltd

台中:04-22536536

台北:02-89838222

東莞:0769-22319776



資訊安全的整合專家-采易資訊系統(股)公司



Exchange , SQL 與Windows檔案資料的備份?

- ▶ 如何對現有的Exchange,SQL,File Server作異地的備份?
- ▶ 假如Crash 您能承擔的風險有多少?...
 - How much downtime can you afford?
 - How much data can you afford to lose?





異地備份的目的

- ▶ 火災.水災.地震...將造成備份也難以彌補的損失
- ▶ 分公司的資料難以有效與完整的進行保存





異地備份的需求

- ▶ 不間斷的備份解決頻寬不足的問題
- ▶ 以位元為基礎的備份架構
- ▶ 可一對多點作備份
- ▶ 可定時於離峰時間進行備份
- ▶ 續傳功能減少斷線的重傳時間
- ▶ 操作簡單





如何運作？

- ▶ 自動拷貝檔案從主要伺服器到次要伺服器
 - LAN or WAN connection
- ▶ 資料當修改或建立時才備份至異地
 - Replicates only changed portion of files at the byte level





災難發生時的作法?

- ▶ 先修復主要伺服器
- ▶ 啓動次要伺服器
- ▶ 從次要伺服器反向回復到主要伺服器

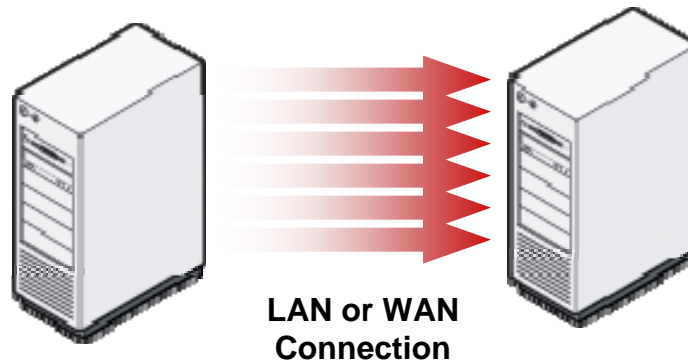




Configuration 1

Primary SQL / Exchange
Server

Standby SQL / Exchange
Server*



► **Initial synchronization**

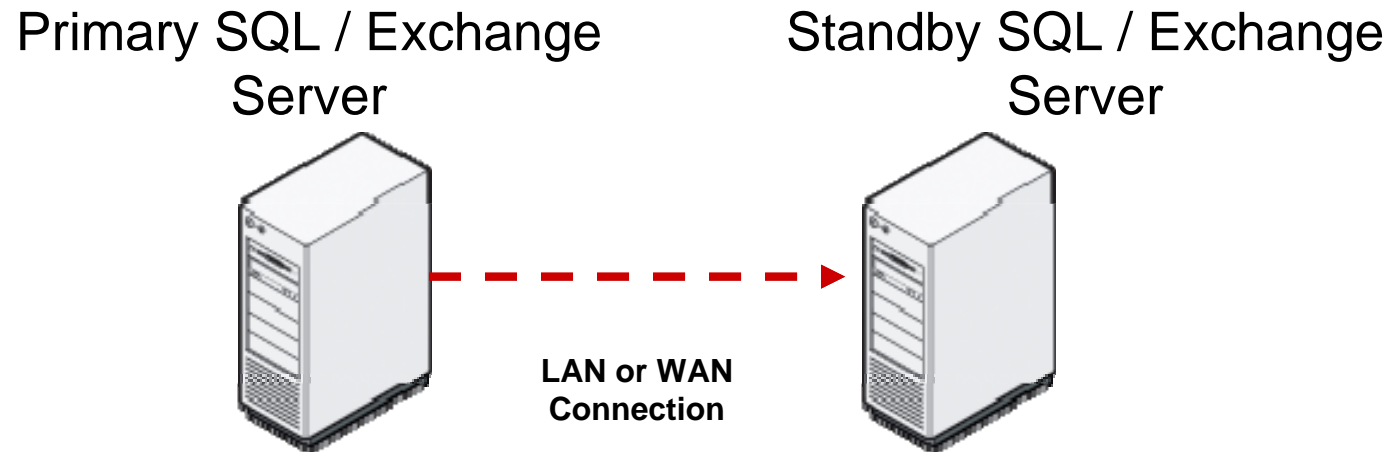
- Consistent replica created on standby server

*Version of SQL or Exchange must be the same on both servers





Continuous Protection for SQL Servers

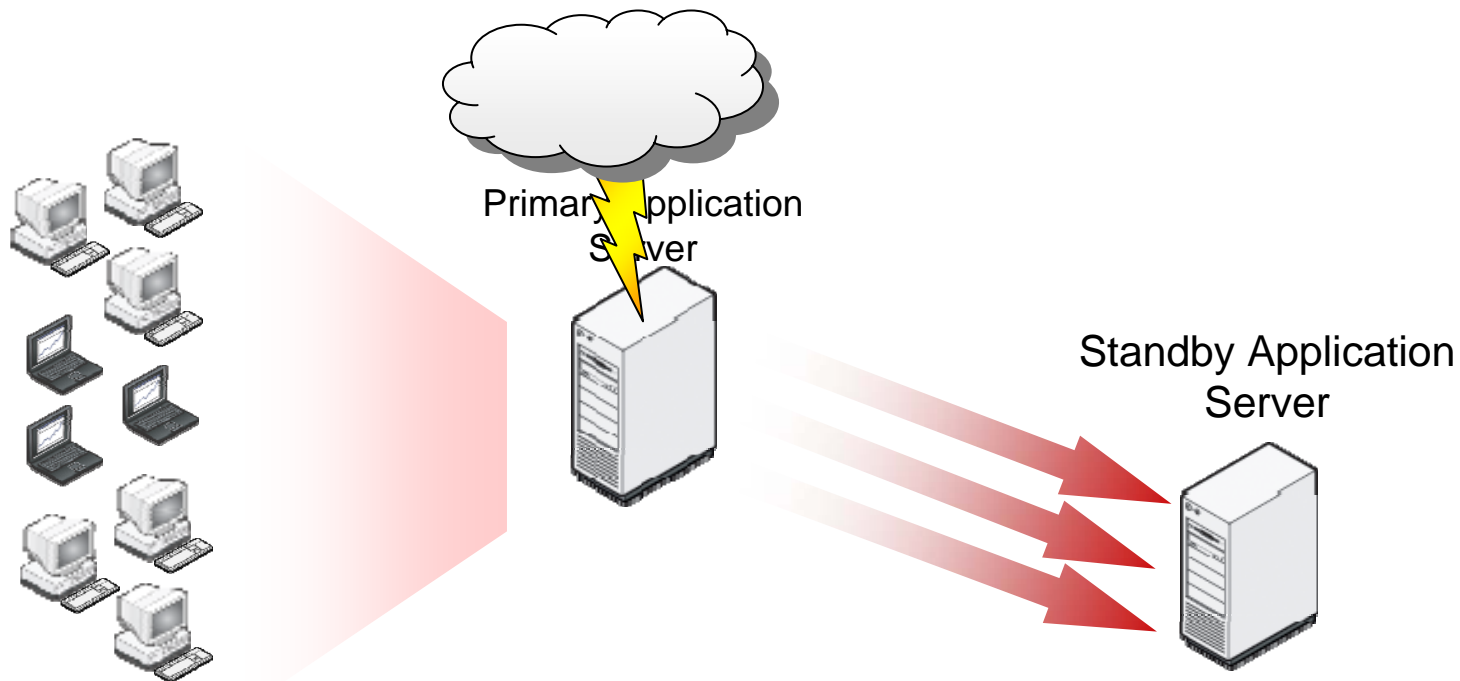


- ▶ **Data is continuously protected**
 - Whenever data is created or changed
 - Only changed portion of data gets replicated
 - Up-to-the-second accuracy





Continuous Protection for SQL Servers

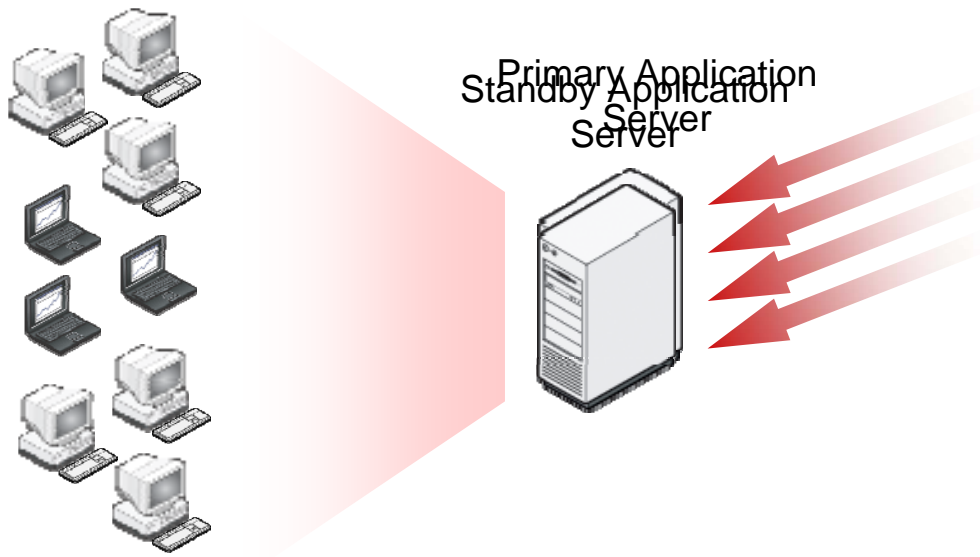


- ▶ **If Primary Server fails**
 - Data is continuously protected
 - Standby server can be quickly brought online
- ▶ Consistent record maintained on standby server
 - Minimizing disruption to the business application





Continuous Protection for SQL Servers

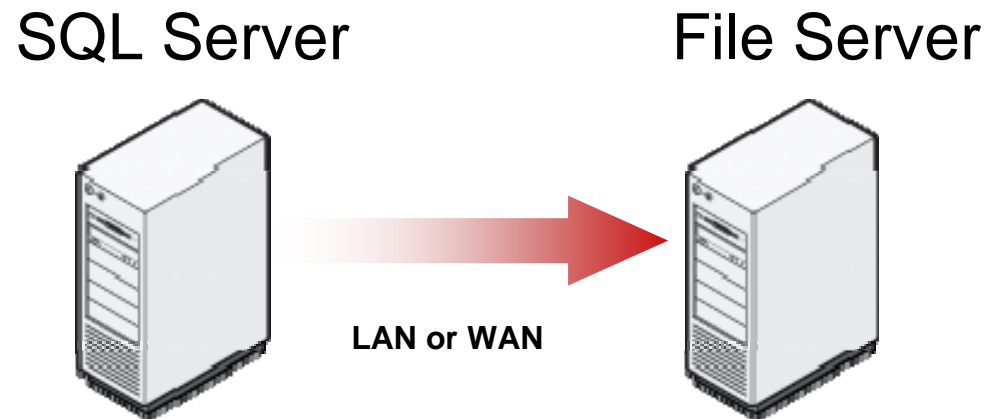


- ▶ **Once Primary Server is repaired**
 - Primary server is updated via “Reverse” replication
 - Brought back online with minimal data loss





Continuous Protection for SQL Servers



- ▶ **SQL data can also be replicated to a File Server**
- ▶ **If Primary Server fails**
 - New SQL Server is brought online
 - Updated data is copied from File Server to new SQL Server





Continuous Protection for SQL Servers

SQL Server



LAN or WAN

File Server



► **Pros and Cons**

- Eliminates need to purchase additional SQL Server license
- Downtime is greater than having a standby SQL Server





Planned Migration

SQL Server 7.0



LAN or WAN

SQL Server 2000



- ▶ Seamless migration for SQL or Exchange upgrades
 - Target Server must be the same or newer release
 - Minimizes data loss and downtime due to planned migration





Flexibility and Efficiency

- ▶ Select how data gets replicated
 - Continuous or Scheduled
- ▶ Select what data gets replicated
 - Only relevant files
- ▶ Support variety of replication topologies
 - One-to-one, one-to-many, many-to-one
- ▶ Maximizes network efficiency
 - Replicates only changed data
 - Bandwidth throttling
- ▶ Protects open files





Ease of Use

- ▶ Simple and intuitive interface
 - Same look and feel as Backup Exec
- ▶ Centralized management
- ▶ Wizard-Based Installation
- ▶ Push deployment
- ▶ Automated replication
 - Minimal administration required

