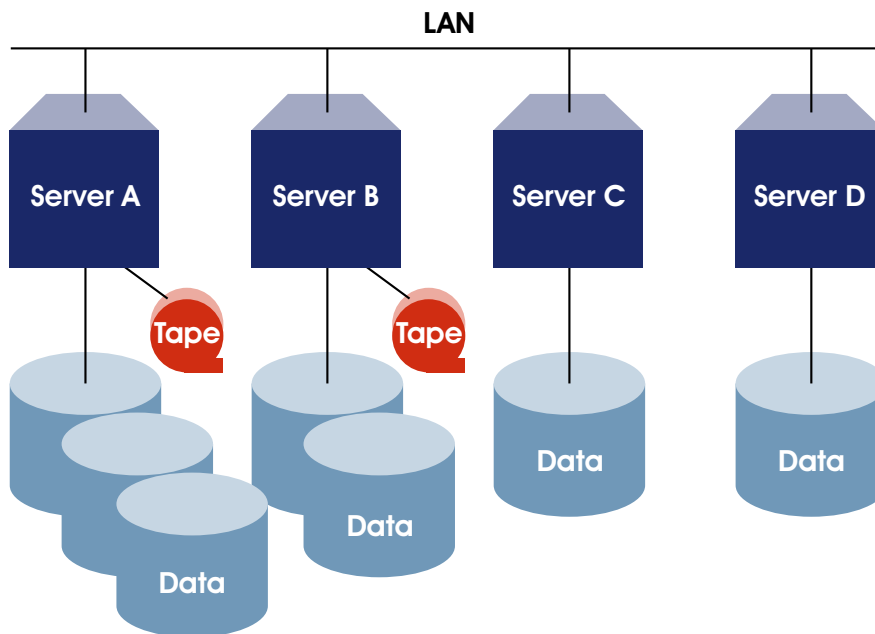


enlightenment

in a complex IT world

Business Continuity

The diagram below shows a typical data environment present in many of your end-user customers. Data is dispersed across many servers.



According to a recent survey from Contingency Planning Research, nearly half of all companies report each hour that downtime costs them \$50,000. For one in four companies, the cost of each minute of downtime ranges from \$250,000 to more than \$1 million or more. As recent events have shown us, one major event can put your company out of business – for good.

So what are the ways in that we can achieve application and data availability?

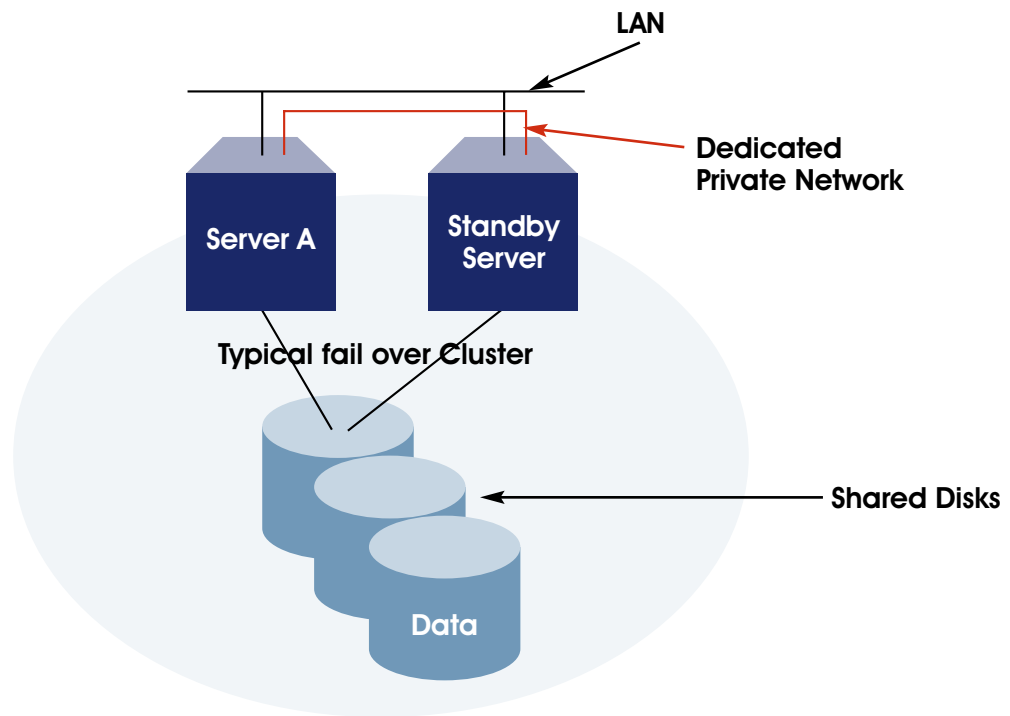
- Localised clustering provides protection from a single server hardware failure
- Data replication to a secondary site provides data integrity in case of a site outage which will decrease the time to recover
- Wide area clustering incorporating site to site fail over to protect against natural and man made disasters

It is important to note that whilst these technologies will provide data and application availability it is only the start of Business Continuity planning. Other considerations include personnel, locations, utility supply companies, physical stock and so on. Business Continuity is a way of business not just an action plan for IT. These plans must be company wide and more importantly tested and updated on a regular basis. The Danger of not testing these plans may result that in the event of a disaster that they do not work.

Localised Clustering

The diagram below shows a localised clustered infrastructure.

- Increases the services availability
- Protects against single hardware failures
- Maintains productivity levels
- Increases proactive IT management due to less fire fighting activities

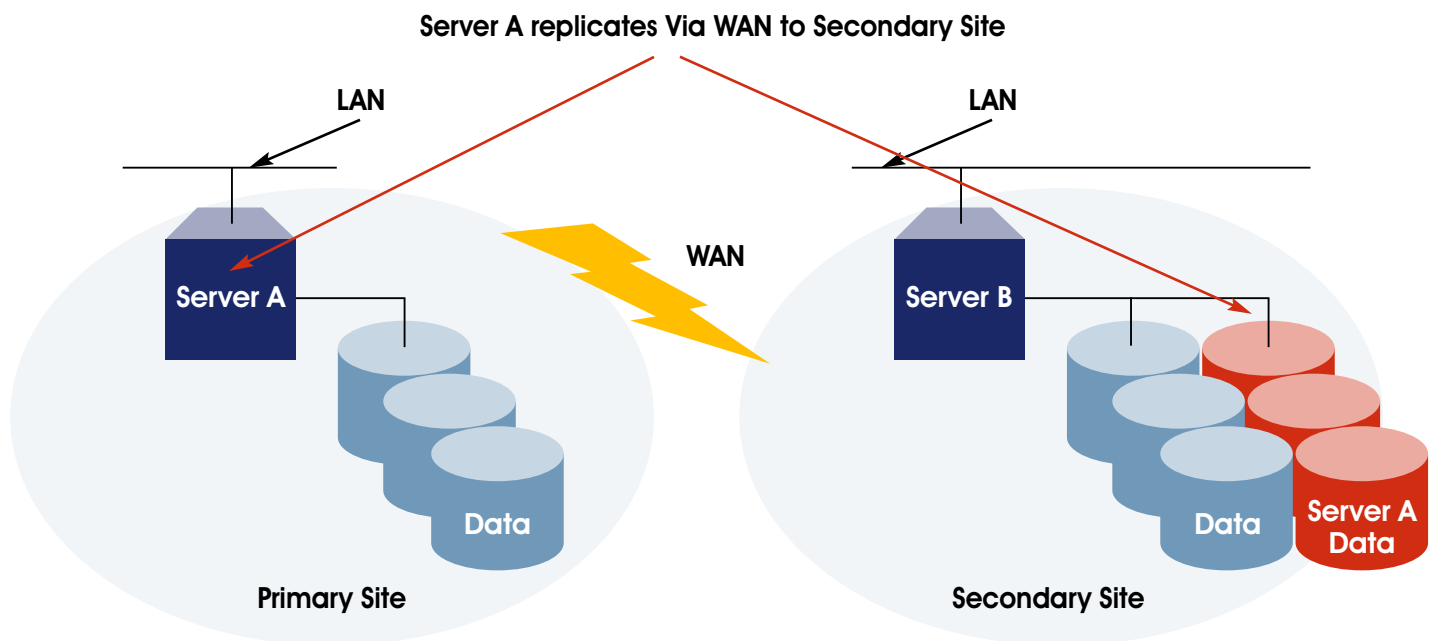


In the event of server A stopping, the standby server will automatically take over the application and continue with the service. This is a fully automated process meaning that no human intervention is required.

Data Replication to secondary site

Data is one of the most precious assets to any company, it is therefore very important that you have backup copies and in case of a localised site disaster, maintain them. Off site tape backup is essential but if you require more up to date, even real-time, off site copies then replication is the answer.

- Provides automated frequent or real time off site data
- Provides a safety net and peace of mind
- Reduces recovery time

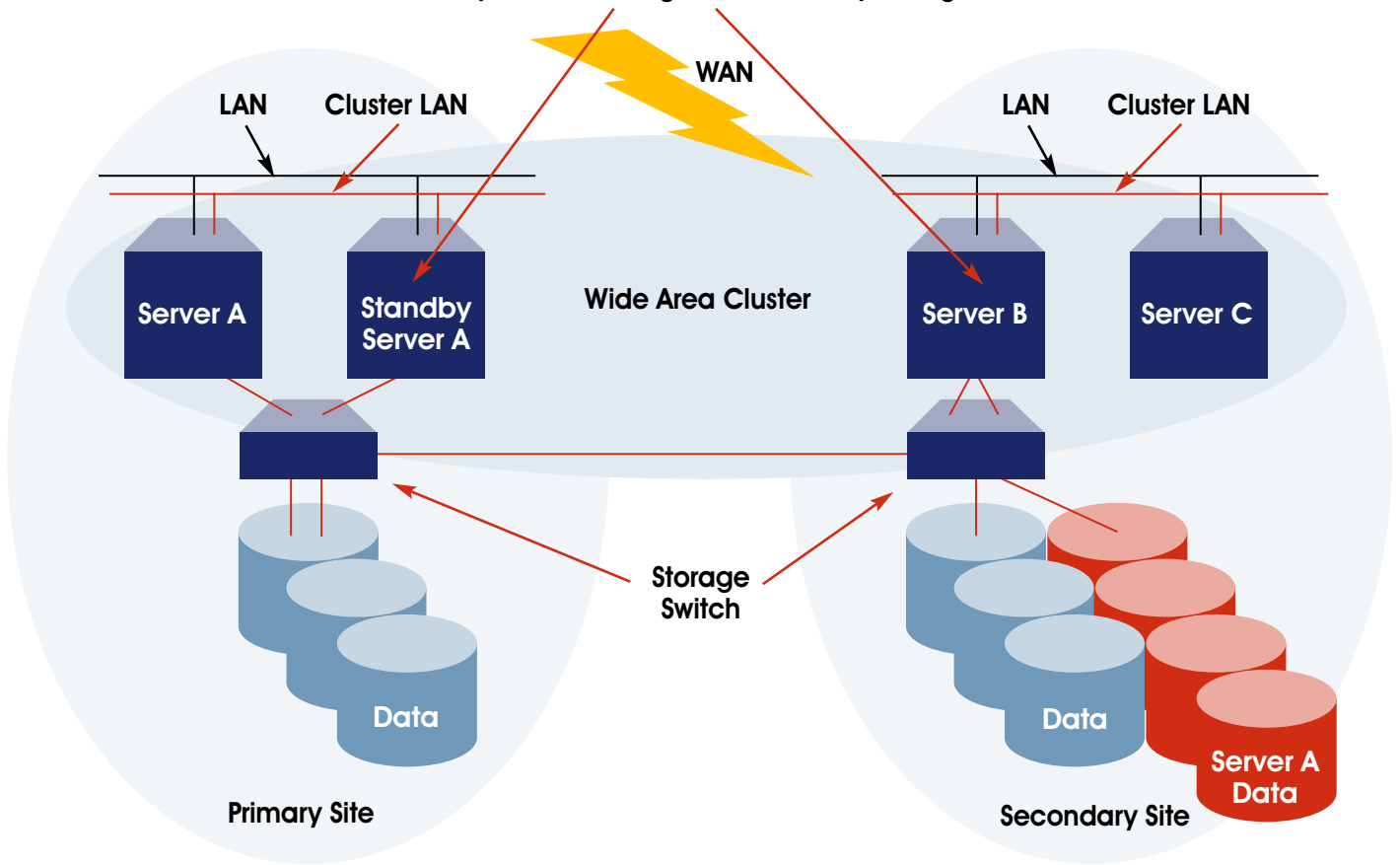


Wide Area Clustering

Wide Area Clustering is essentially a combination of local clusters and replication with automation added. The idea is that in the event of a site outage the services are automatically failed over to the secondary site.

- Provides the highest levels of business continuity for IT infrastructure and data
- Reduces the recovery time to almost zero
- Provide reassurance to investors

Server A is clustered with Standby A on Primary Site and also Server B on Secondary Site. Data is replicated through the Disk Arrays using Fibre.



Server A is clustered with Standby A on Primary Site and also Server B on Secondary Site. Server A continues to replicate all data to Server B.

