

Online Server Replication

Continuous data protection for highly critical servers

Solution Highlights

- Fully managed service
- Automated offsite replication
- Continuous replication
- Fast recovery of servers
- Multi-platform support
- Fully scalable with no capital investment required
- Compatible with other backup products



Minimise potential data loss in fast moving and high transaction environments

Plan B's Online Server Replication service continuously captures server changes as they occur and replicates those byte-level changes to a virtual replica server at Plan B.

In the event of a failure, this ensures minimised data loss (as an up to date replica of your systems and data is in our offsite data centre) and minimised recovery time (as rapid recovery is achieved by activating the replicated, offsite copy of your systems).

The Plan B Online Server Replication service is delivered using a proven replication toolset and can protect any combination of physical, virtual or cloud servers.

Why do you need it?

If your business relies on data that is continually changing, server replication allows you to retain an almost real-time offsite version of your data. This replicated server environment ensures minimal loss of data, and a very fast recovery time, if your primary infrastructure becomes unavailable.

Why this solution?

Plan B's Online Server Replication makes it easy for you to:

- Access **managed and monitored server replication** with full server recovery options.
- **Automate your offsite replication** process.
- Achieve **real time replication for the lowest RPO** (Recovery Point Objective) for Microsoft Windows servers.
- Optimise your service for a **very fast recovery**.
- **Protect your physical, virtual or cloud servers** through a single solution.
- Access backup systems **without committing any capital investment** for backup infrastructure.
- **Deliver increased levels of protection** for servers that have existing backup products in place. **Replication provides fast recovery points and times** while your alternate backups provide data retention.

Plan B Online Server Replication ensures you can immediately switch to alternate infrastructure to minimise downtime during an outage.

Key Features

Replication Process

- Replication of your servers is performed using software installed on each of the servers to be protected.
- The system continuously captures byte-level changes as they occur on your servers, transferring these to the target server at Plan B to ensure the replicated target server is up to date as the source server changes.
- Full-server protection for each server includes the system state, operating system and applications.
- Improved performance is achieved by compressing the protected data during replication.
- Write-order consistency checking is used to ensure the integrity of replicated data.
- Data is transferred securely using AES256 encryption (optional).
- Multiple rollback points are stored on the target server to allow restore to a previous point in time.

Storage

- Replicated servers are held on high performance enterprise level infrastructure located in Plan B's secure, access controlled data centres.
- Infrastructure is highly available, RAID protected, temperature controlled, and protected from mains power surge or failure.

Recovery

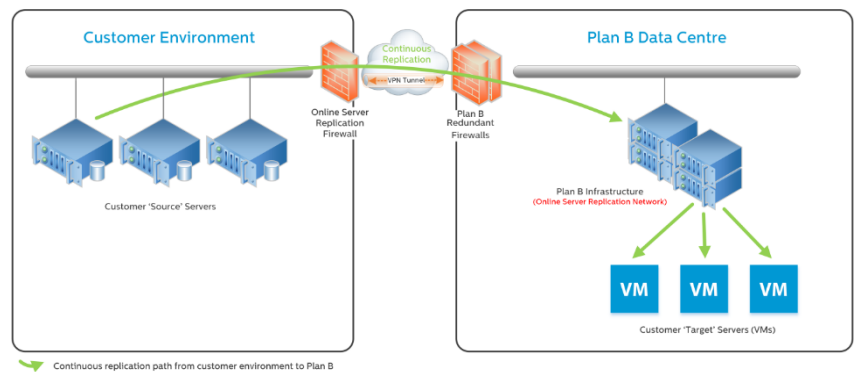
- To minimise recovery times, data replicated to Plan B is continually pre-staged to the target server ready to be failed over for rapid recovery. This improves recovery time during an outage as data is pre-prepared for failover.
- The recovery process for a server protected with Online Server Replication is as follows:
 - Failover is initiated on the target server.
 - Windows Settings and staged data are committed to the target server.
 - Target server is rebooted.
 - QA process is completed and server is ready to be presented back to your network.

How does it work?

Plan B's Online Server Replication Service combines continuous replication and rapid failover capabilities for disaster recovery of physical and virtual servers.

The replication service captures disk-writes at the host's file system layer to transparently and reliably replicate data to a target virtual server at Plan B. This is especially useful for critical workloads where you require a minimal amount of data loss in a disaster recovery scenario.

The service is designed to be secure, provide fast recovery times, and to minimise the risk of data loss caused by system failure. It provides an enterprise level solution that can be implemented quickly and managed independently from your normal production environment.



How does Online Server Replication compare with other cloud backup solutions?

Feature	Online Server Replication	Cloud Backup	Public Cloud	IT Specialists
Replication Managed For You	✓	Varies	Varies	✓
Continuous Replication	✓	Varies	Varies	Varies
Access to Older Versions of Data	✗	✓	✓	✓
Cloud Restore Options	✓	Varies	Varies	Varies
No Capital Investment	✓	Varies	✓	Varies
100% NZ Hosted	✓	Varies	✗	Varies

About Plan B & ICONZ

Plan B provides NZ-hosted and supported business continuity, cloud infrastructure, and networking solutions to organisations around New Zealand, including many of the most recognised global and local brands.

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