
Double-Take[®] AVAILABILITY[™]

Nothing disturbs the peace like server failure.

Double-Take Availability for Windows provides real-time high availability and immediate disaster recovery so you never have to worry about downtime or the lost revenue and chaos that ensue.

- Comprehensive, real-time application and data protection
- Flexible deployment options
- Easy-to-use management
- Surprisingly affordable

Complete HA and DR

High Availability and Disaster Recovery

- The most comprehensive [high availability](#) and [disaster recovery](#) for physical and virtual servers on Windows
- Real-time application and data protection
- Use existing hardware, software and network
- Full server protection and failover
- Failover executed in minutes, not hours, and supports dissimilar hardware
- Supports MS Exchange, SQL Server, Oracle, SharePoint, BES and more
- Microsoft Volume Shadow Copy Service integration allows you to schedule and recover from up to 64 point-in-time copies of data on your physical or virtual target
- No distance limits for backup server
- Near-zero data loss
- Microsoft Windows 2000 and 2003 certified at all levels

Simple Management

Simple Management

- Features one-click failover and restore
- Ensures easy installation and optimized configuration with IntelliStart[™]
- Provides automated, push button failover for physical or virtual machines to the second host on demand in an outage with SwitchAssistant[™]
- Validates settings with pre-flight check and auto-fix
- Monitors and auto-switches critical systems
- Presents centralized reporting and analysis
- Improves performance by compressing the protected data before sending
- Simulates replication traffic* and estimates needed bandwidth with the Double-Take Availability Throughput Diagnostics Utility
- Provides email event notifications
- Simplifies management with forwarded replication statistics and events via SNMP to your enterprise management tools
- Ensures the integrity of replicated data on with patented write-order consistency
*except ESX

Virtualization

Virtualization

- Unifies high availability and remote availability across physical and virtual environments, including VMware vSphere and Microsoft Hyper-V
- Failover physical servers to virtual environments with failover-time virtualization technology that automatically provisions a new VM to match the production server
- Protect and failover VMs over any distance without the need for underlying storage replication
- Reduce the cost and management overhead of duplicate physical infrastructure at a DR site by using a virtualized DR site
- Protect virtual environments using real-time continuous replication of VMs with host-level management of failover policies
- Management of all physical and virtual failover protection in a single solution, for superior manageability
- Failed over VMs are partition-aligned to the underlying physical disks for optimum performance of I/O intensive applications in virtual environments
- Enables no-downtime full-server migrations to physical or virtual servers
- Integrates seamlessly with Hyper-V management interfaces

Clustering

Clustering

- Eliminates single points of failure
- Efficiently replicates data changes and allows cluster nodes to quickly restore application services after a failure
- Guards against data corruption by keeping clusters from failing over to a node that has suspect data
- Implements failover clusters without shared storage or geographic limitations
- Allows you to locate cluster nodes anywhere
- Provides off-site cluster failover capabilities
- Turns Microsoft Windows Server clusters into Shared Nothing Clusters
- Stretches cluster nodes between physical locations while still using native failure detection and failover
- Ensures write-order preservation of logical application writes
- Ensures production nodes don't suffer performance degradation because of intermittent network failures or node failure
- Uses minimal CPU overhead while delivering real-world measured performance of 65-75% compression for database applications
- Maintains complete storage independence

How it Works



How It Works

Double-Take Availability combines continuous real-time replication and automatic failover capabilities for disaster recovery, high availability, and centralized backup on physical or virtual Windows servers. Double-Take Availability uses patented replication and failover capabilities that continuously capture byte-level changes as they occur and replicates those changes to another server either locally or over any WAN link.

Double Take Availability captures disk-writes at the host's file system layer while all applications (including virtual machines

writing to virtual disks) operate above the actual file system layer. This allows the solution to transparently and reliably protect that data by replicating it via its normal mechanisms to a target server running another copy of Double-Take Availability. On the target side, Double Take Availability simply applies the same file update commands to the duplicate files that reside on the target server – sending only real-time byte-level changes across any IP connection.

Windows Requirements

- Windows Server 2003 / 2008 Standard, Enterprise and Datacenter Editions (32-bit / 64-bit)
- Microsoft Windows XP

Hyper-V Requirements:

- Microsoft .NET 3.5 SP1
- VMs stored on a standard NTFS file system
- TCP/IP with static IP addressing or reserved DHC addressing for Hyper-V hosts
- Windows Server 2008 Standard, Enterprise and Datacenter (64-bit)

VMWare Requirements

- VMware VirtualCenter 2.x or later
- VMware ESX Server 3.x or later
- 130 MB disk space for programs