

# Vision Double-Take Software™ Solution for Windows 2008 and Hyper-V

## At last, an affordable business continuity solution for Hyper-V!

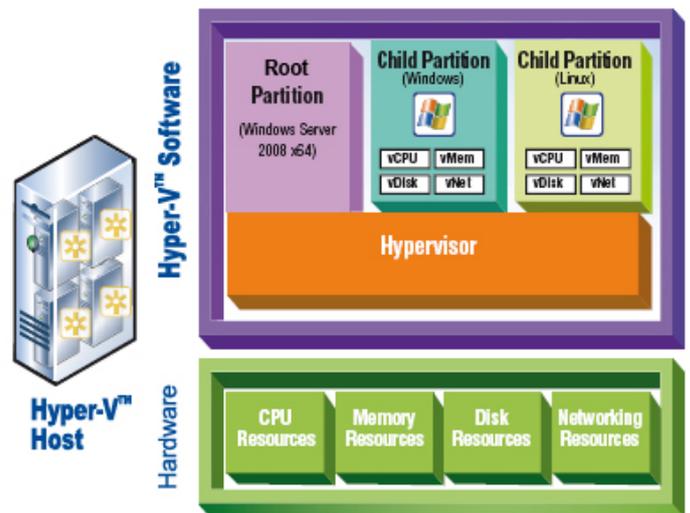
### Double-Take Software™ adds powerful new functionalities to the Microsoft® Hyper-V virtualisation platform.

*"With our latest versions of Exchange and Hyper-V, we are providing organizations across the Middle East with ways to achieve significant cost savings around their communications, messaging and virtualization strategies. By working with Double-Take Software™, we can provide our customers with simple, cost-effective disaster recovery solutions that facilitate business continuity and ensure availability of mission critical applications,"* said Ahmer Hasan, Business Group Manager, Server & Tools, Microsoft Gulf.

With the release of Windows Server 2008 R2 in late 2009, Microsoft®'s virtualisation solution is now enterprise-ready. Version 2 of the Hyper-V hypervisor claims to be the best virtualisation platform for Windows. But, compared with historic rival VMware, certain features are still missing from the Microsoft® solution. Microsoft® is counting on its partner ecosystem to fill the gaps. A broad product line positions Double-Take Software™, a long-standing partner for Microsoft®, at the heart of this strategy: backup, recovery, migration, replication, high availability... a range of solutions that integrate perfectly with the Hyper-V virtualised environment. If you've been hesitating to deploy Hyper-V virtualisation because of the lack of affordable disaster recovery features, Double-Take Software™ resolves the issues. Double-Take Software™ solutions are compatible with any hardware platform and don't need a costly dedicated SAN infrastructure, allowing you to implement Hyper-V on your existing multi-vendor infrastructure.

### Hyper-V in brief

Hyper-V is virtualisation technology server supporting the deployment of Windows or Linux virtual machines, these are referred to as logical units or child partitions. The Hyper-V parent or root partition executes on the physical hardware, hosting one or more child partitions. Child partitions do not have direct access to hardware resources. Resources are allocated by the hypervisor. The virtualised disk storage linked to a child partition uses a VHD format. Files may be stored on an iSCSI or Fibre Channel SAN, a NAS array or on storage directly attached to the Hyper-V hardware.



Find out more at <http://www.visionsolutions.com/Products/DT-Avail-Hyper.aspx>

# Double-Take Software™ solutions for Hyper-V environments

The Workload Optimisation Suite by Double-Take Software™ covers all your needs for high availability, backup, and replication. Double-Take Software™ recommends three key products for Hyper-V environments, with an optional product for certain clustered deployments.

## Double-Take Move™

Double-Take Move™ supports real-time X2X migration, with no production downtime. Double-Take Move™ has revolutionised migration in virtualised environments with its real-time approach and platform-independent conversion capabilities.

## Double-Take RecoverNow™

Designed to meet the need of cost-effective data protection and recovery, Double-Take RecoverNow™ enables real-time WAN-efficient replication of physical and virtual servers at multiple sites. Double-Take RecoverNow™ includes features such as Continuous Data Protection and deduplication, and in order to keep the cost of a disaster recovery plan within reach, supports virtualised recovery of entire Windows servers.

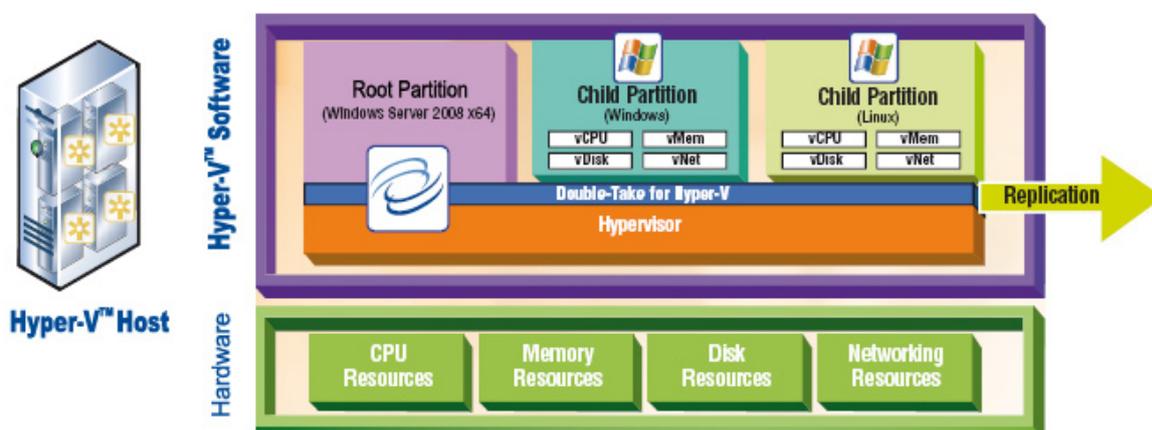
## Double-Take Availability™ (for Virtual Host)

Double-Take Availability™ meets the needs of the most demanding virtualised environments, including support for Hyper-V. The real-time host-level replication features of Double-Take Availability™ allow for an improved RTO compared with Double-Take RecoverNow™.

## Double-Take GeoCluster™

An option for Double-Take Availability™, Double-Take GeoCluster™ offers enhanced protection for Microsoft® Cluster Service (MSCS) server clusters. Double-Take GeoCluster™ supports real-time replication for geographically distributed clusters complementing the native failover and monitoring features of MSCS.

## How Double-Take™ fits into the Hyper-V environment



# The essentials

## Who is it for?

For any enterprise planning to deploy a virtualised infrastructure or seeking disaster recovery solutions for the Hyper-V environment, Double-Take Software™ offers a solutions suite that fills in the gaps in the Hyper-V feature set, covering all your needs for high availability and disaster recovery at a lower cost.

With the Double-Take Software™ solution, cost-effective business continuity and disaster recovery for remote Hyper-V virtualisation deployments becomes a reality, without the need to invest in Microsoft® Failover Cluster.

## Key strengths

Double-Take Software™ has built its reputation on the effectiveness of its replication engine, the core of the Double-Take Software™ solutions suite. It delivers real-time replication of Hyper-V virtual systems without the need to deploy costly and complex server clustering and shared storage solutions.

## Cost-effective

The Double-Take Software™ solution is affordable and allows any enterprise to plan for ambitious Hyper-V deployments without stretching the budget.

## Four deployment scenarios

### 1- Backup and recovery of Hyper-V virtual servers.

While virtualisation is an integral feature of the Windows 2008 Server operating system, backing up Hyper-V virtual systems isn't easy. A simple backup of the VHD files is not enough, as there's no guarantee of the integrity of the data contained on the virtual machine. Additional tools are necessary to ensure complete, dependable backups and reliable recovery.

Microsoft® recommends the use of VSS (Volume Shadow Service), with a backup solution. While this works, it frequently results in overlong recovery times due to round-tripping between VSS and the backup solution. Backups at regular intervals are possible, but for rapid recovery it's necessary to turn to solutions offered by Microsoft® partners. Certain offerings effectively back up the parent system but their architectural limitations mean they are not effective at protecting multiple virtual workloads.

Double-Take Availability™ and Double-Take RecoverNow™ integrate with the parent partition in Windows 2008, delivering real-time protection for Hyper-V virtual machines. VHD files and their configuration data are fully backed up. Continuous real-time replication ensures every modification occurring in the virtual machine is captured and in just a few minutes, full recovery of the VM is possible.

### 2- Disaster Recovery/Business Continuity Planning

When it comes to the replication of Hyper-V machines, nobody is better qualified than Double-Take Software™. A long-standing partnership with Microsoft® has its advantages, allowing Double-Take® to develop the first host-level replication solution for Hyper-V. Both LAN-based and WAN-based replication is supported for any number of Hyper-V virtual systems.

Compared with classic solutions, Double-Take Move™, Double-Take Availability™ and Double-Take RecoverNow™ deliver a more cost-effective response to enterprise continuity requirements.

### 3- High availability

Microsoft® understands that enterprises need high availability when they virtualise the datacenter, to protect uptime in the virtualized infrastructure.

A key element in achieving this is real-time migration, as offered by VMware with Vmotion.

Microsoft® positions Failover Hot Clustering with the Live Migration functionality as the answer for Hyper-V environments, but this solution depends on a SAN fabric and is only effective for local VMs.

Where a SAN is not a possibility, or when the enterprise needs to manage remote sites, Double-Take Availability™ for Virtual Host is the solution.

Double-Take Availability™ for Virtual Host supports automatic failover. When an incident occurs the execution environment is switched to another virtual machine.

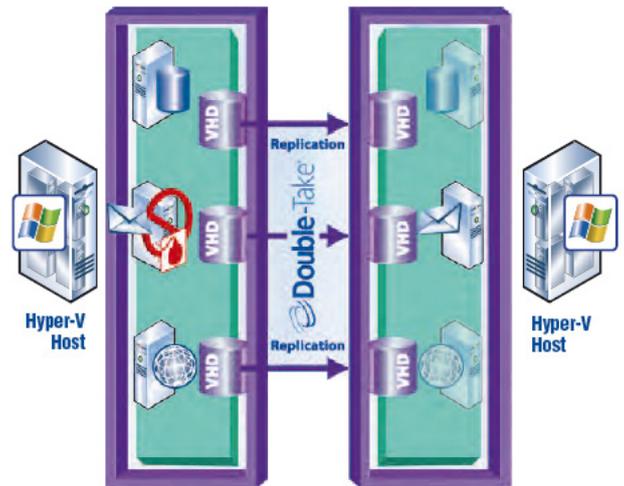
Double-Take Availability™ can migrate hundreds of remote virtual machines with no difficulty.

### 4- Managing remote sites

Backing up servers at remote sites is an ongoing headache for system administrators. Double-Take RecoverNow™ makes centralised back-up and recovery of remote Hyper-V virtual servers easy, for dependable disaster recovery planning even over the WAN.

With integrated data compression and bandwidth management features, Double-Take RecoverNow™ delivers reliable centralised protection for virtual servers, even over limited bandwidth networks.

### Host-Level Protection for Hyper-V



Find out more at <http://www.visionsolutions.com/Products/DT-Avail-Hyper.aspx>

For more information, visit [visionsolutions.com/locations](http://visionsolutions.com/locations)



Easy. Affordable. Innovative.



◆ High Availability ◆ Disaster Recovery ◆ Systems and Data Management ◆

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