

For VMware vSphere and Citrix XenServer - Fully Virtualised Backup and Recovery

PHD Virtual Benefits

- Completely virtualised - no additional hardware needed
- Faster and more efficient backup and restore - "TrueDedupe" that deduplicates at source resulting in reductions of up to 96% in storage and bandwidth usage
- Agentless cross hypervisor support - supports both VMware and XenServer
- Scalable - ability to add more virtual backup appliances on-the-fly
- Hands-free Management - Automatically backup new VMs and VMs that were "motioned" by HA or DRs
- Simple and reliable recovery - TrueRestore technology that ensures backup and restore data integrity
- Does not require complex reinstallation of backup server and software to restore backups even during site disasters
- Integrated straight into VMware vSphere client and Citrix XenCenter

PHD Virtual Key Features and Benefits

Does not require additional hardware/software

Does not require any additional dedicated proxy servers, backup servers, operating system licences, additional hardware or software agents. You save costs from day one you start using PHD Virtual.

Simple to Deploy & Easy to Use

Setup is as simple as deploying the virtual backup appliance, configuring the backup target and installing the PHD Virtual Backup plug-in. Backup and restore job configuration is done through simple and intuitive wizards.

Flexible Backup Storage Options

Backup virtual machines to locally attached storage or external storage locations via NFS or SMB/CIFS share.

Supports Tape Backup Solutions via Backup Data Connector

Enables quick and easy integration with tape backup solutions, providing ability to sweep VM backups to tape.

Scalable and Fault Tolerant Deployment

Distributed architecture minimizes single point of failure. Multiple VBA's can be configured to support backup across large and distributed environments.

PHD Virtual Backup is built upon the next generation of PHD Virtual's award winning VBA™ architecture and supports vSphere deployments using ESX and ESXi hypervisors as well as any edition of Citrix XenServer hypervisor. Providing rapid backup and restore capabilities to virtualised servers and desktops.

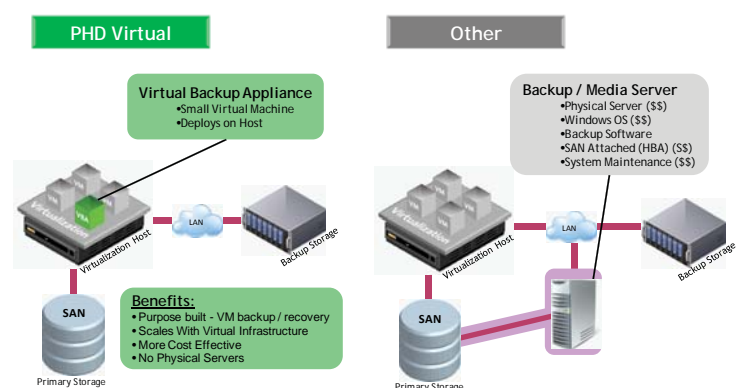
PHD Virtual Backup provides:

- The fastest and most cost effective virtualization backup to meet RPO, RTO and SLA requirements
- Dramatically reduce storage requirements and efficient network backup with TrueDedupe™ Technology
- The most reliable solution for backup data integrity with TrueRestore™ Technology
- Seamless, integrated management of backup and restore directly from vSphere or XenCenter Client
- Completely virtualized solution footprint leveraging the PHD VBA™ (Virtual Backup Appliance)

PHD VBA™ Architecture provides a purpose-built virtualization backup solution giving you the ability to simultaneously backup and restore multiple VMs concurrently. The PHD VBA™ deploys as a small virtual appliance on vSphere or XenServer that autonomously backs up your entire virtual infrastructure.

- Purpose built for and integrated with vSphere/XenServer
- Backs up running or powered down VM's and VM templates
- Does not compromise hypervisor performance
- Does not require dedicated proxy servers, additional hardware or software agents

PHD Virtual saves cost and improves the performance of your virtual servers backups



Management Integration

PHD Virtual Backup provides management plug-ins for VMware vSphere client and Citrix XenCenter to give a "single pane of glass" management of virtual machine backup and restore directly from the management client. A simple right-click in management client allows you to start the VM backup and restore wizards and view job status, history and backup schedules through the PHD Console.

Backup and Restore Faster to meet RPO and RTO

Supports multiple concurrent backup and restore streams enabling you to meet your backup window, RPO and RTO requirements. Backup and restore streams are user configurable from 1-4 streams per VBA™.

Set and Forget Job Scheduling

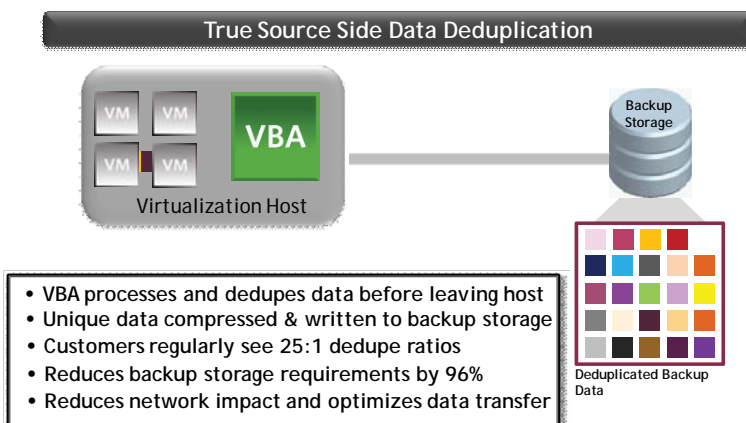
Backup jobs can be assigned to defined containers (representing hosts, clusters, folders...). Any VM in a container or later added to a container will automatically be backed up based on job settings. For flexibility, specific VM's in a container can be set to be excluded from backups.

Reduce Storage Requirements and Optimize Network Backup with TrueDedupe™ Technology

PHD's patent pending technology features source side data de-duplication and compression.

De-duplication and compression occur before data leaves the host, reducing network impact and providing an ideal solution for backup over distributed networks and WAN environments.

PHD customers regularly achieve an average dedupe ratio of 25:1 reducing ongoing backup storage requirements by more than 96%.



Restore with Confidence with TrueRestore™ Technology

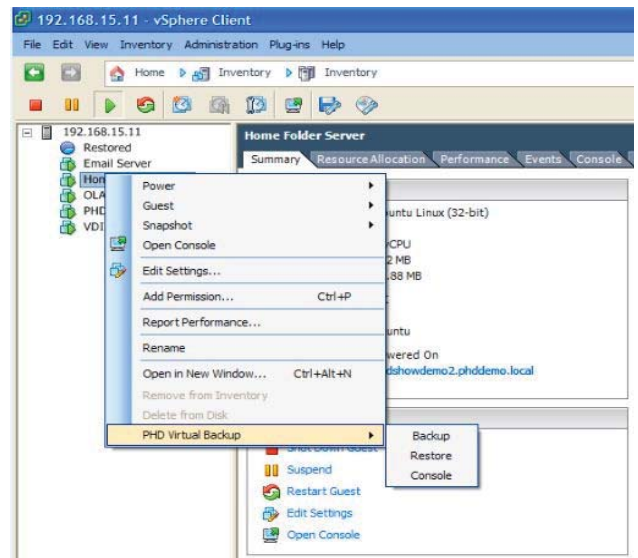
Provides increased confidence in your ability to restore from backup. Data integrity is checked during both the backup and restore processes, ensuring the restored VM data matches the original source data.

File Level Restore (FLR) for Any OS, Any File System

Provides the ability to restore individual files and folders without the need to restore the entire virtual machine image.

Backup Retention and Archiving – Meet Your DR Objectives and Retention Policies

Define and configure flexible retention policies for storing VM backups. Flexible trim options can automatically remove old backups based on customizable policies. Archiving provides the ability to mark specific backups for archive to exclude them from being deleted by the retention policy. Archive can be set at the job level for increased flexibility.



Additional Feature Highlights:

Flexible Job Scheduling

Changed Block Tracking (CBT) Support

Support for Thin Provisioned Disks

Application Backup Integrity through Windows VSS

Export VM from Backup Storage

Configurable Compression (On/Off)

E-mail Notification

Backup Storage Free Space Warnings

Distributed Virtual Switch Support

Supports all OS's supported by virtualisation platform

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