



StorageCraft *ShadowProtect*

VIRTUAL backup, recovery and disaster recovery



Affordable and reliable protection and recovery for virtual & physical servers

Unquestionably, virtualisation has changed the way in which organisations of all sizes deploy, use and manage servers.

Backup confusion in a virtual world

With the sprawl of virtual environments, many companies are confused by what needs to be backed up, how to back it up and more importantly, how it can be restored quickly and reliably.

Can you use the same product to protect both your physical and virtual servers (regardless of environment e.g. Hyper V, VMware, ZEN, etc) to reduce software and management costs?

If a server crashes at 16:50 this afternoon – how much data (or database transactions) will you lose? What is the real **cost to the business** of losing every file and every transaction created today?

Virtual Backup Challenges

Most organisations need to make a decision – backup inside or backup outside the virtual environment, and hence whether they want fast restores or fast backups. Backup inside the virtual system typically provides the best recovery capabilities, however, with traditional backup technologies, this can have a massive I/O impact, which often forces companies to backup ‘outside’ the virtual environment, resulting in lost data and increased complexity.

A simple solution to a complex problem

The best of both worlds – StorageCraft ShadowProtect™ provides the ability protect all your Windows™ virtual or physical servers with a single integrated technology that protects your systems, data and databases (e.g. Exchange, SQL and SharePoint) every 15 minutes with minimal impact on production systems with minimal to zero impact on the physical or virtual server.

StorageCraft ShadowProtect eliminates cost & complexity

StorageCraft ShadowProtect has the ability to **protect** and **migrate** to/from your physical and virtual environments without requiring any additional agents or options, making ShadowProtect one of the most powerful, reliable and affordable solutions for backup, recovery and disaster recovery available.

Why ShadowProtect is SUPERIOR for virtual backup, recovery and disaster recovery

Continuous Incrementals

This feature provides the ability to perform one full backup and thereafter only backup the changed sectors every 15 minutes for maximum protection and recoverability of systems, data and databases (e.g. Exchange, SQL and SharePoint).

Protection every 15 minutes

ShadowProtect enables data and Microsoft™ databases to be protected in real-time, every 15 minutes throughout the day. Never again lose more than 15 minutes of data or database transactions and exceed business recovery objectives.

SECTOR level Backups

Performing sector level backups reduces I/O and capacity requirements as only the changed sectors are backed up. Once a sector is backed up, it is never backed up again with Continuous Incrementals.

Self-Healing Incremental Backups

Included is the ability to verify that the previous incremental backup is intact and correct. If a problem is identified, a differential backup is automatically created, self-healing the chain to help ensure backup integrity.

Image Manager

This included technology delivers the ability to manage complex image chains, helping to improve recoverability and minimising restore times – even for single file, databases or single Exchange mailboxes. It automatically collapses all daily, weekly and monthly ShadowProtect backups into easy to manage file sets.

VSS Integration

StorageCraft is one of the few applications to be classified as a VSS writer. Most other products claim VSS awareness or support, but they are not true VSS writers, which limits reliability and recoverability when protecting critical VSS systems and databases.

P 2 V Migrations

Included is the ability to perform complete physical to virtual migrations to help make virtualisation easy & affordable.

V 2 P Migrations

Included is the ability to migrate from virtual back to physical environments, should you find that performance of the server is too degraded, as well as for disaster recovery capabilities.

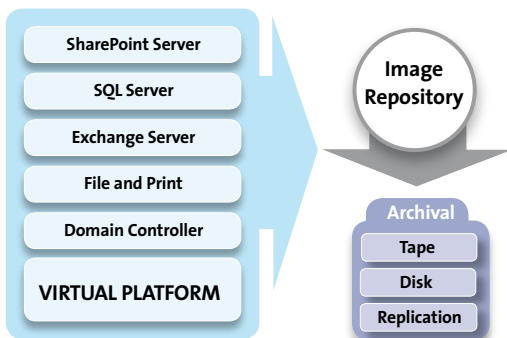


STORAGECRAFT™

The world leader in Real-Time Recovery

The justification is SIMPLE – no other product delivers the RECOVERY capabilities of ShadowProtect

Critical Questions to ask any backup vendor	Product 1	Product 2	StorageCraft ShadowProtect
Is the product virtual environment independent – does it support Hyper V, VMware, XEN, etc – with the same product without additional agents, options or modules?			YES
Does it protect your Data, Exchange, SQL and SharePoint databases every 15 minutes?			YES
Does the SAME solution protect both physical and virtual environments?			YES
Does it support both VMDK and RMD disks?			YES
Does it Self-Heal a broken incremental chain to ensure maximum data integrity?			YES
Does it only backup the sectors that have changed on the disk (and not the whole volume) to reduce disk space required and deliver the ability to restore from 15 minutes ago?			YES
Does it have in-built management policies for minimising disk space utilisation?			YES
Can you restore a single file in seconds (typically less than 10 seconds)?			YES
Does it include the ability to convert a physical server to a virtual server?			YES
Does it include the ability to convert a virtual server back to a physical server – Including restoring to totally different hardware?			YES
Does the vendor provide FREE technical training throughout Asia Pacific?			YES
Can you perform a test restore of the entire volume in just a couple of minutes (e.g. using VMware Workstation)?			YES
Are NTFS permissions, settings and security maintained during a restore?			YES
If the server has high disk I/O, can the backup solution perform real-time backups with minimal impact on the production server?			YES
Is the product a single solution that does not require additional agents, options or modules?			YES
Is the solution fully integrated into Microsoft VSS as a VSS writer – as opposed to being VSS 'aware, capable or enabled' to ensure reliable backup of VSS databases?			YES
Does it provide disaster recovery of a Domain Controller in minutes?			YES
Does it truncate the log files after each backup of a VSS database?			YES
Can you eliminate having to use VCB in a VMware environment for backups?			YES
Will it eliminate cost and complexity of backup, recovery and disaster recovery?			YES



Key Benefits of ShadowProtect

REDUCED RTO (Recovery Time Objectives)

Servers can be rebuilt in minutes back to virtual or physical environments to reduce downtime and business disruption

REDUCED RPO (Recovery Point Objectives)

Never lose more than 15 minutes of data or database (e.g. Exchange, SQL or SharePoint) transactions

REDUCED TRO (Test Recovery Objectives)

Test restores (OS, data and databases) in typically minutes with just a few mouse clicks

ShadowProtect Key Features

- **PROTECT** your data and databases every 15 minutes to minimise data loss after a problem or corruption
- **RECOVER** files in seconds
- **REBUILD** servers in minutes
- **ELIMINATE** cost and complexity with a single integrated solution – NO AGENTS REQUIRED
- **MIGRATE** to and from physical and virtual servers in minutes
- **EASY** to deploy and manage
- **AFFORDABLE** solution to solve your backup, recovery and disaster recovery issues once and for all

REDUCED COSTS

Slash software, hardware and management costs traditionally required to protect your data and databases on both virtual and physical servers.

SIMPLIFIED PROCESSES

Easy to purchase, deploy and manage – **with complete reliability**

WORLD LEADING TECHNOLOGY

As the world leader in Real-Time Recovery, you can rest assured that your virtual and physical servers, data and databases are protected every 15 minutes with almost 'instant restore' capabilities



Call us on +61 2 9929 9770, visit our web site (www.StorageCraft.com.au/INFO) or send us an email (sales@StorageCraft.com.au) to finally solve your backup, recovery and disaster recovery issues with the world leading Real-Time Recovery solution from StorageCraft – ShadowProtect.

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