

# STORAGECRAFT® SHADOWPROTECT. 5 IT EDITION

## PRODUCT SCENARIOS



### UNLIMITED DISASTER RECOVERY, DATA PROTECTION, AND SYSTEM MIGRATION FOR ALL WINDOWS SYSTEMS

Backing up and recovering Windows servers can be challenging for small and medium-sized businesses (SMBs). Rebuilding a server typically takes time and drains already-limited resources. Add to this the current trend toward migrating physical servers to virtual systems and it becomes even more critical for SMBs to accurately budget and manage their IT projects. StorageCraft® ShadowProtect® IT Edition provides you with unlimited disaster recovery, data protection, and system migration for every Windows system in your IT Environment, without installing any software. It can back up everything on a system—including the operating system, applications, services, and data.

ShadowProtect IT Edition has these benefits:

- Bare metal recovery of Windows servers, desktops, and laptops in minutes.
- Support for new operating systems and technologies, including Windows Server 2012, Windows 8, UEFI systems, and GPT disk partitions.
- Restore backup images to or from physical and virtual machines.
- Migrate backup images to new systems (physical or virtual) with StorageCraft Hardware Independent Restore™ technology.
- Move everything from one disk to another with disk copy feature.
- Back up systems without installing any software.
- Recover individual files and folders in moments.
- Use on an unlimited number of servers, desktops, and laptops during your subscription period.

As part of the StorageCraft® Recover-Ability™ solution, ShadowProtect IT Edition simplifies backup and recovery of an unlimited number of servers, desktops, and laptops. The StorageCraft Recover-Ability solution allows you to not only backup currently running systems without the need for a software installation, but you can also recover these systems anytime, anywhere, and to any hardware environment (physical or virtual). Which means you can keep business running after any disaster—great or small. Use ShadowProtect IT Edition to take full backup images of an Exchange server, SQL server, SharePoint server or other important computer system. Restore to the same or new hardware, or use backup images to migrate to a variety of industry standard hypervisor platforms. By adding ShadowProtect IT Edition as part of the tools you're already using in the StorageCraft Recover-Ability solution, you have complete backup and system recovery of critical systems, applications, and important data.

## ShadowProtect IT Edition Use Case 1—Quickly Virtualize Existing Physical Machines

**Scenario:** Jeff is tasked with migrating 23 physical servers to Microsoft Hyper-V Server 2012 to consolidate resources and reduce the hardware footprint. Many of these physical systems are currently in use and providing services and information critical to ongoing business. Jeff is the only IT professional in this small business and he has a limited budget already largely depleted by the upgrade to new hosting hardware.

**Desired Solution:** Migrate all 23 physical systems to three new Hyper-V Server 2012 hosts without interrupting existing operations. Do this with a limited budget, limited resources, and within a one month timeframe.

**How ShadowProtect IT Edition can help:** With ShadowProtect IT Edition, you can backup and restore an unlimited number of machines. In this case, Jeff is able to purchase a one month subscription license of ShadowProtect IT Edition. Then, without installing any software on existing systems, Jeff quickly takes full backup images of the 23 servers and restores those images to Hyper-V clients. These Hyper-V clients are exact copies of the original physical systems and can be tested and run in parallel until the moment that Jeff cuts over from the physical to the virtual systems. Jeff was able to complete the migration under budget and within the one month timeframe.

## ShadowProtect IT Edition Use Case 2—Migration Across Varied Environments

**Scenario:** John and Sam have finally received approval for new hardware. They've purchased new Intel CORE laptops for the sales team. In addition they are consolidating all VMs on the Microsoft Hyper-V standard, which means converting a few VMware servers to Hyper-V.

**Desired Solution:** Migrate existing physical laptops for the sales team to new hardware, transferring the existing user information, installed applications, and data that is specific to each user. In addition, migrate several virtual servers from one hypervisor platform to another.

**How ShadowProtect IT Edition can help:** ShadowProtect IT Edition includes Hardware Independent Restore (HIR) technology, so John and Sam take a snapshot and back up each AMD-based laptop. These backup images include the OS, installed applications, custom user settings, and data specific to each user's laptop. John and Sam then restore the backup image to the new Intel-based hardware and HIR injects the correct drivers for the new laptop hardware as it rebuilds each machine.

Using the same process, John and Sam take snapshots of VMware servers at the client level, effectively capturing everything on the client VM. They then use these backup images to restore the VM server to a new Hyper-V client with all of the same running services, permissions, and data in the new Hyper-V virtual machine (VM) that existed in the original VMware VM.



## ShadowProtect IT Edition Use Case 3—Copy/Clone a “Golden” Laptop to New Laptops

**Scenario:** Rebecca has perfected a Windows 8 installation with all of the company-approved applications necessary for new hires. She was just informed by human resources that there are seven new employees starting next week. Her order for laptops arrives Thursday, leaving her two days to build seven new laptops.

**Desired Solution:** Quickly and efficiently clone the “golden” laptop template Rebecca has created to seven new laptops.

**How ShadowProtect IT Edition can help:** Rebecca takes a quick snapshot of her golden Windows 8 laptop, storing the backup on a portable USB drive. She then uses the disk copy feature in ShadowProtect IT Edition to clone seven new laptops based on her original template. While the laptops are being built, she creates new user profiles in active directory for each new employee so that when the employees boot their new (cloned) laptops for the first time, they will be able to login to the network and immediately begin working.

## ShadowProtect IT Edition Use Case 4—Roll-back when Applying New Code to a Mission Critical Server

**Scenario:** Mario is applying new code to the company’s SQL server during an after-hours maintenance window. After bringing the server online and running a quick smoke test he realizes that something is terribly wrong.

**Desired Solution:** Restore the mission critical transaction server to its original condition before changes were made. Complete this restore process before the maintenance window expires.

**How ShadowProtect IT Edition can help:** There isn’t enough time to troubleshoot the issue, but Mario has taken a full backup of the SQL server before any changes were made using ShadowProtect IT Edition. This snap shot leveraged Microsoft VSS to correctly quiesce the SQL database—to create a solid backup of both the running database and server OS. He uses ShadowProtect IT Edition and the backup image to restore the SQL server to its original state before the new code was applied. After the restore process completes he again runs a quick smoke test and confirms that everything is working as it should.

## ShadowProtect IT Edition Use Case 5—Get Reliable Backups before Imminent Hardware Failure

**Scenario:** Susan has noticed some erratic behavior on one of her servers (random errors, CPU spikes, clicking noises). This is a Windows 2008 R2 server with no backup software installed. Losing this system would be terrible because it contains legacy code and customizations for the past several years, including work done by people no longer with the company.

**Desired Solution:** Get a quick and reliable copy of EVERYTHING on the server before it fails. Do it without installing any software or rebooting the server, in case it doesn’t come back online.

**How ShadowProtect IT Edition can help:** Susan carries ShadowProtect IT Edition with her on her keychain. She plugs the USB flash drive into the server and makes a full backup of the existing server’s hard disk drive with the operating system, the custom code, and the important data. She knows that she can recover this backup image to new hardware or she can convert this ShadowProtect backup to a VM if necessary. Either way, she has insurance that the complete system on this failing hardware is now captured in a usable format in case the hardware fails. Now she can begin troubleshooting to resolve the hardware problems.



## ShadowProtect IT Edition Use Case 6—Prepare for a Superstorm that Is Imminent

**Scenario:** No one wants to face an impending natural disaster. However, Brad has been listening to the National Weather Service advisory reports on the radio for the past hour and realizes that there is a distinct possibility his small business may soon be flooded. How does he protect the few servers, laptops, and workstations that contain the lifeblood of his growing business?

**Desired Solution:** Back up roughly 20 Windows systems to a portable storage device. There is no time to select important files/folders, Brad needs everything and he needs it quickly so there will be time to board up windows, lock doors, and leave town. It is critical that these backups be useful wherever he sets up shop in the next 48 hours.

**How ShadowProtect IT Edition can help:** Brad has a small NAS device with 4TB of storage space available. Using ShadowProtect IT Edition, he creates full backup images of every server, laptop, and workstation and stores them on the NAS. He packs up what laptops and important items he can and then locks the doors, knowing that whatever happens he can restore/recover everything at another location. This is one business that will continue functioning regardless of what Mother Nature sends his way.

## ABOUT STORAGECRAFT

*At StorageCraft®, the goal of complete disaster recovery drives everything we do. Our StorageCraft® Recover-Ability™ solution is an end-to-end, best-in-class backup and disaster recovery solution that is both fast and reliable.*

### StorageCraft Recover-Ability

It starts with a good backup. Our award-winning *StorageCraft® ShadowProtect®* takes complete, pristine images of your machines, including all your operating systems, applications, services, and settings. It then records changes at the sector level, so you always have an up-to-date copy of every machine in your IT environment, whether it's a critical server or an employee laptop, physical or virtual. We even work with specialized database servers, like SQL, SharePoint, or Exchange. You can get granular recovery in Exchange with *ShadowProtect Granular Recovery for Exchange*. You have complete control over the frequency of your backups and you can set rules for consolidation and retention to manage your precious storage space using *StorageCraft® ImageManager*. Plus, with *StorageCraft® ShadowControl® CMD™* you can monitor the machines in your backup environment from a single interface and get alerts when a machine is running out of space, when a backup doesn't happen, or when any of a variety of conditions you specify is met.

We also give you tools to test your backups using *StorageCraft® VirtualBoot™* and *StorageCraft® Image-Ready™* technologies, which gives you confidence that your data is safe and that a disaster won't shut you down or hold you up. Then we make it easy to replicate your backup images offsite to *StorageCraft® Cloud Services* sites or to your own offsite location so you can always have your data close when you need it and at a good safe distance when a disaster comes. When it does, you can launch your backups as virtual machines with VirtualBoot or mount them as drives for complete, granular access to your data. Or you can pre-stage the recovery of a backup image in a virtual machine with our patented *StorageCraft® HeadStart Restore®* technology, so if your main server blows up, you can be up and running in minutes. Plus, you can virtualize your data in the cloud, so not even Mother Nature can't keep you down. Then, you can rebuild your infrastructure and recover to all kinds of machines, physical or virtual, using our *StorageCraft Hardware® Independent Restore™* technology or *ShadowProtect IT Edition*. You can't be sure what kind of disaster will strike you next, but with the StorageCraft Recover-Ability solution, you can be sure it doesn't matter. You'll be just fine.



## For Additional Information

For additional information about ShadowProtect IT Edition please visit:

**[www.storagecraft.com/shadow\\_protect\\_IT\\_edition.php](http://www.storagecraft.com/shadow_protect_IT_edition.php)**



**STORAGECRAFT®**

***Backup Fast, Recover Faster***

**StorageCraft Technology Corporation**

11850 S. Election Road, Suite 100  
Draper, UT 84020 U.S.A.

[www.StorageCraft.com](http://www.StorageCraft.com)  
[contactus@storagecraft.com](mailto:contactus@storagecraft.com)  
[sales@storagecraft.com](mailto:sales@storagecraft.com)

Copyright ©2013 StorageCraft Technology Corporation. All rights reserved. This publication is for informational purposes only. STORAGECRAFT MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, IN THIS PUBLICATION. StorageCraft, ShadowProtect, ShadowControl, intelligentFTP, ShadowStream, and HeadStart Restore names and logos are registered trademarks and ImageReady, CMD, VirtualBoot, Hardware Independent Restore, Recover-Ability, and ShadowCloud names and logos are trademarks of StorageCraft Technology Corporation. All other brands and product names are trademarks or registered trademarks of their respective owners.

