

ShadowXafe™

Powerful Data Protection Made Simple

StorageCraft® ShadowXafe™ is a data protection solution that brings a unified, SLA-driven management for the complete data protection lifecycle. ShadowXafe delivers dependable data recovery with an optimized, easy-to-use management workflow. Its powerful data protection is both host-based and agent-based, applicable for a wide range of workloads, physical and virtual, on premises and in the cloud. ShadowXafe ensures reliable data protection, reducing application downtime and improving productivity. In the event of system-wide failure, data corruption or natural disaster, ShadowXafe's patented VirtualBoot technology allows organizations to perform a virtual machine recovery in milliseconds and restore their entire infrastructure in minutes. ShadowXafe provides total business continuity when integrated with StorageCraft Cloud Services, our disaster recovery as a service (DRaaS) as a service platform.

ShadowXafe's Architecture

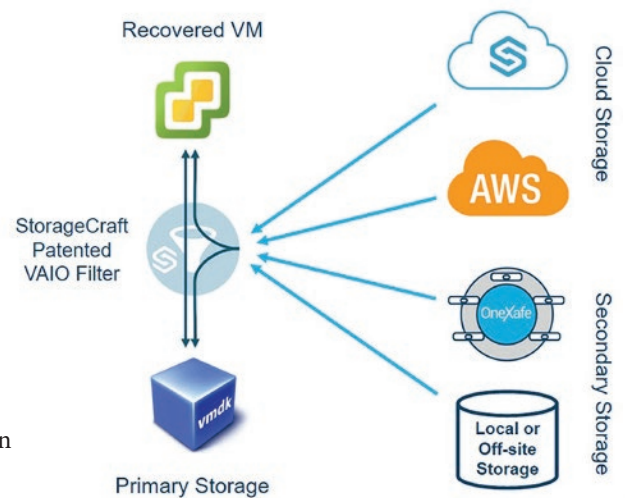
Designed for scalability, ShadowXafe's microservices-based architecture can rapidly deploy service nodes for an unlimited number of sites. It includes a collection of interconnected, scalable, and easily manageable microservices that deliver robust data protection and storage access. There are three main components: **Data Protection Services**, **Agents**, and **OneSystem®**. The Data Protection Services deliver storage access and data protection procedures including backup, restore, replication, and storage. **Agents** are adapters for protecting physical servers and virtual machines (VMs) to deliver higher SLAs. **OneSystem** is the cloud-based management service (which can also be on-premises) that orchestrates and manages the activities within Data Protection Services. It provides real-time monitoring, reporting, and visibility from any location.

Instant Restore with VirtualBoot

The patented StorageCraft VirtualBoot technology instantly restores data, directly from the backup images, and gives full access to system resources and applications in seconds. There is no need for VMware Storage vMotion as data can be accessed directly on the primary storage. VirtualBoot is built on VAIO filter and performs advanced intelligent I/O read-ahead to deliver the data before it is needed. Although rapid failover in the event of a disaster is the most critical function of VirtualBoot, it provides various other valuable functions including:

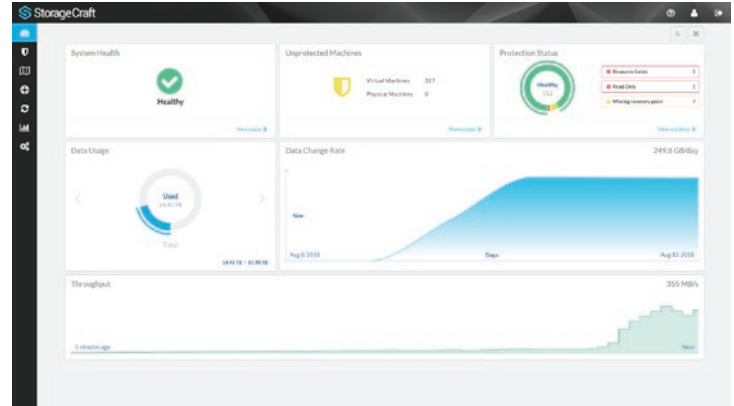
- Confirm and validate backup images proactively
- Act as a temporary solution to minimize downtime during server migration
- Test software packages
- Provide application/kernel updates before production deployment
- Access applications from a specific point in time to export data from applications

ShadowXafe VirtualBoot



Management Simplicity with OneSystem

The data protection workflow is managed through OneSystem®, a unified management platform featuring a true SLA-based protection framework. OneSystem seamlessly integrates into VMware vCenter and Hyper-V environments, delivering a simple deployment experience that's similar to setting up a virtual appliance. The dashboard gives an overview of the health of the system. Policy creation is intuitive with all the ingredients that make up the SLA—backup frequency, retention policy, target location, replication for offsite disaster recovery—in a single location. Once created, the SLA protection policy can be applied to any combination of virtual and physical machines.



Features and Benefits

Features	Benefits
Management Simplicity	<p>Single pane of glass for ease of management</p> <ul style="list-style-type: none"> • Intuitive SLA-based data protection workflow • Optimized for ease of use • Highly scalable architecture – fast and simple to deploy
Flexible Recovery	<p>Recover to dissimilar HW or virtual environments</p> <ul style="list-style-type: none"> • Ensures that recovery is fast and quick (v2v, p2p, v2p & p2v) • Utilize resources on hand. No waiting for any specific resources
Instant Recovery	<p>Quickly recover files/folders and entire system in seconds</p> <ul style="list-style-type: none"> • Recovery using VirtualBoot IO read-ahead technology, irrespective of the VM size • Direct recovery to primary store means no Virtual Storage Motion and no performance impact during recovery
Reliable Recovery & Data Integrity	<p>Dependable recovery</p> <ul style="list-style-type: none"> • VMware Certified VAIO filter driver for VirtualBoot restores • Automated, advanced reverification of backup images along with inflight verification ensures dependable backup images • Smart retries, and self-healing repairs ensures service reliability • Retained metadata for improved recovery experience • Cold file access technology for file folder recovery • AES 256-bit encryption for data security (in-flight and at rest) • Best-in-class certified VSS integration for app-consistent data protection
Integrated DRaaS	<p>Total business continuity</p> <ul style="list-style-type: none"> • Orchestrated, one-click virtual failover • Self-service portal with no 3rd party intervention during recovery • Replication to another site or StorageCraft Cloud Services • Seed/BMR drives and web download



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For questions or additional information, please contact your StorageCraft Account Manager or StorageCraft Distributor, or email us at: ContactUs@StorageCraft.com

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