

Product Brief



Desensitize sensitive data in multi-cloud and hybrid-cloud environments.



You control your data wherever it's stored.



Self-healing data neutralizes cloud storage ransomware.

Cloud-enable your data

ShardSecure is changing the nature of data security. Our patent-pending Microshard™ technology desensitizes your sensitive data in multi-cloud and hybrid cloud environments.



What if your sensitive data was no longer sensitive?

Our Microshard technology follows a three-step process (see figure 1) to help ensure your sensitive data is unintelligible and of no value to unauthorized users:

1. **Shred** – Unstructured and structured data are shredded into 4-byte microshards, which are too small to contain sensitive data
2. **Mix** – Microshards and poison data are mixed across multiple containers
3. **Distribute** – Containers are distributed to multiple, *customer-owned* storage locations of their choosing



Self-healing data neutralizes cloud storage ransomware

How much of your data would be vulnerable if a cloud storage administrator's account was compromised? A core function in the microsharding process is to enforce data integrity. If a data integrity check fails for any reason, including due to ransomware, we automatically reconstruct the affected Microshard data in real-time helping to preserve business continuity. And if a storage service is unavailable, we take the same approach to reconstruct the affected Microshard data. Think of it like RAID-5 for your data in the cloud.



Your data. Your storage. You're in control.

Because microsharding enables storage of unintelligible fractions of complete data in multiple locations that you own, you control where and to how many locations your data is stored. This means that you control who can access your data no matter where it's stored. And, you can easily move your Microshard data to different storage locations, as you require, in just four clicks without impacting production.

We support most major storage and backup solutions.



How We Do It

Our Microshard technology desensitizes your sensitive data to help ensure that it is unintelligible and of no value to unauthorized users. Here's how.



Figure 1



Virtual clusters for ease of deployment, redundancy, and scale

Our solution is software-based, and each instance is a virtual cluster for redundancy and performance. Virtual clusters may be deployed on-prem and/or in any cloud for quick deployment and scalability. Multi-cluster sync enables high-availability and failover of the solution for business continuity.



To your applications, we're just storage

We expose an AWS S3-compatible API on our frontend and provide an iSCSI module. Our solution simply appears to be cloud and/or network storage to your applications. This means minimal configuration changes to your applications, and you may now securely take advantage of cloud storage for your non-cloud-native applications.



No keys: Reduced complexity and better performance

Microshard technology has no concept of a key, so there just simply aren't the cost, complexity, or trust concerns that come with key management. Encrypted data can be microsharded, and because we write to and read from storage in parallel, there is often no impact to performance. You'll even see some improvements. The net is that *you* choose the appropriate methods and levels of data security that *you* want.



**ED AMOROSO, CEO TAG CYBER,
FORMER CSO, AT&T:**

"ShardSecure's shred, mix and distribute approach provides a simple path to eliminating data sensitivity on back-end infrastructure that works regardless of one's cloud expertise."

**GARRETT BEKKER, PRINCIPAL
ANALYST, 451 RESEARCH:**

"ShardSecure has...the ability to protect data with less overhead than standard encryption or need to modify applications, and support for multiple cloud offerings as well as Box and Dropbox, etc."



box



Alibaba.com



ORACLE

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To learn more, visit us at <https://shardsecure.com> to learn more and schedule a demo.

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