

Bring transparent, high performance encryption to containers with Zettaset

Despite its growing importance, encryption is one of the last security solutions to make its way into containers. Zettaset is helping organizations overcome typical adoption barriers with a first-of-its-kind, software-only encryption solution that transparently protects containers from data theft in any physical or virtual environment.

Containers have gained a lot of momentum

Containerization has many benefits and as a result, it has seen wide adoption. In fact, some analysts believe that containers will eventually overtake virtual machines.

By 2020 more than **50% of organizations** will be running containerized apps, according to Gartner.



They simplify configuration

Run any platform with its own config on top of infrastructure, without the overhead of VMs



They increase developer productivity

Get closer to production and ensure dev environments are fast for interactive use



They support multi-tenancy

Avoid major application rewrites with multi-tenant applications, such as IoT



They enable server consolidation

Use application isolation abilities to consolidate multiple servers and save costs



They drive rapid deployment

Bring up new hardware resources in seconds, as opposed to minutes or days

Unfortunately, containers also create new security challenges

Many organizations rely on access control, logging, or existing workload solutions to secure container environments. But just like hardware, the last thing to be adopted is encryption as it often adds complexity and affects performance.

Containers have short lifespans

Monitoring them and gaining full visibility into an ever-changing environment can be difficult.



Containers aren't isolated

Unlike VMs, containers aren't always isolated from one another, so one compromise can lead to another.



Container environments move fast

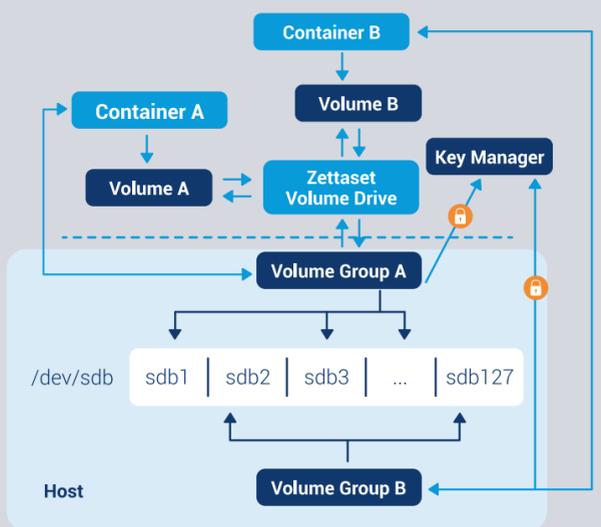
The fast-moving nature of container environment makes compliance a particularly big challenge.



Data protection remains one of the top concerns for containers. The reality is that data resides in containers, and it needs to be encrypted to ensure both security and compliance.

Zettaset strengthens container security and simplifies compliance

Zettaset's XCrypt Container Encryption is transparent, easy-to-deploy, and doesn't have an effect on performance as it's software-defined. Plus, it works seamlessly with major container software and is scalable across any on-prem, cloud, or edge deployment.



1

Upon creation, containers request a particular-sized encrypted storage volume.

2

Zettaset's volume driver requests a volume from the host.

3

Zettaset's volume manager constructs a volume from various partitions on the device and creates a volume group.

4

The volume manager communicates with the key manager to create a key and encrypt the volume.

5

On container destruction, the encryption key is destroyed and volumes are made available again.

The value of Zettaset XCrypt Container Encryption



Ensure data protection in containers without the performance tax



Secure DevOps procedures across your organization



Ensure compliance in highly regulated industries



Achieve internal or corporate security mandates

Learn more about Zettaset

Visit www.zettaset.com/xcrypt-container to learn more or schedule a meeting to discuss the container security concerns and challenges you're facing in your organization.