Real-time data protection for the OpenShift Container Platform

Red Hat Software Partner

Zettaset

- ▢ Provides real-time data protection
- ▢ High performance with near zero impact
- ▢ Container storage separation
- ▢ Direct integration with Kubernetes
- ▢ Automated encryption policy management
- ▢ No changes to your existing processes

"Zettaset delivers on the promise of container data security in the same way that Red Hat OpenShift delivers the stable, consistent, and supported base that organizations need to get applications out the door."

—

Tim Reilly, CEO, Zettaset

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High Performance, Software-Defined Encryption for Red Hat OpenShift. Move from DevOps to DevSecOps

Zettaset XCrypt for Red Hat OpenShift provides a first-of-its-kind, software-only encryption solution that protects containers from data theft in any physical or virtual environment. Most companies rely on access control, monitoring, and existing workload security to protect their container environment, but are missing the most critical component of a successful security strategy – data protection. Move from DevOps to DevSecOps with Zettaset XCrypt for Red Hat OpenShift. Because it's software-only, it helps organizations overcome the typical adoption barriers. XCrypt OpenShift Encryption is transparent, easy-to-deploy, cost effective and has a negligible effect on performance.

"Data security is top of mind for nearly every organization and having a range of options to more reliably and efficiently safeguard critical data and systems is a key need for cloud-native platforms. We're pleased to have Zettaset join the Red Hat ecosystem and provide its encryption solution as a Kubernetes Operator certified for production environments on Red Hat OpenShift, enabling an encryption service designed to 'just work' across the cloud wherever OpenShift runs."
Julio Tapia, Director, Cloud Platforms Ecosystem, Red Hat

Executive Summary

Containers have gained momentum in the market, but despite their impact, containers also create a host of new security challenges. Containers have short lifespans and move fast, so gaining full visibility into the environment has proven to be difficult. And if they aren't isolated from each other, one compromised container can quickly lead to another. Critical data resides in containers and it needs to be encrypted to ensure both security and compliance.

Product Profile

XCrypt OpenShift Encryption's ease of use and intelligence enables pervasive and on-demand encryption that is scalable across any deployment. Upon creation, containers request a particular-sized encrypted storage volume. Then, Zettaset's volume driver requests a volume from the host and Zettaset's volume manager constructs a volume from various partitions on the device and creates a volume group. The volume manager communicates with the key manager to create a key and encrypts the volume group.

Product Benefits

Built specifically for containers, XCrypt for Red Hat OpenShift overcomes the typical adoption barriers with low impact on performance and doesn't add additional complexity to your container environment. Protect data from theft in any physical or virtual environment with transparent integration, all required services run in containers, management of host storage is completely automated, a dedicated volume group is allocated for each container volume, and are cryptographically tied to containers.

Use cases

- Ensuring protection of IP and sensitive data in container environments. Transparently deploy encryption in new or legacy container environments
- Complying with California Consumer Privacy Act (CCPA) by encrypting consumer data collected in California
- Incorporating encryption in mature DevOps practices without changing processes, adding complexity, or impacting performance
- Transition from DevOps to DevSecOps by implementing container encryption
- Increase the level of protection for data at rest in container environments to meet or exceed security and compliance mandates

Learn More about Software-defined encryption with Zettaset

Company: Zettaset   Contact: sales@zettaset.com   URL: www.zettaset.com

About Zettaset

Zettaset is a leader in data protection and security. Its software-defined encryption solution protects against data theft and can be transparently deployed across all physical and virtual environments. Zettaset's XCrypt products offer high performance encryption that scales efficiently across all types of enterprise infrastructures. The XCrypt Platform simplifies encryption deployment and policy management to achieve the required level of data protection. Whether sensitive data resides on-premise, in the cloud or in hybrid environments, Zettaset encryption is there to secure and defend these critical assets.

About Red Hat

Red Hat is the world's leading provider of enterprise open source software solutions, using a community-powered approach to deliver reliable and high-performing Linux, hybrid cloud, container, and Kubernetes technologies. Red Hat helps customers integrate new and existing IT applications, develop cloud-native applications, standardize on our industry-leading operating system, and automate, secure, and manage complex environments. Award-winning support, training, and consulting services make Red Hat a trusted adviser to the Fortune 500. As a strategic partner to cloud providers, system integrators, application vendors, customers, and open source communities, Red Hat can help organizations prepare for the digital future.

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