



# IBM Cloud HSM for SoftLayer

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and secure your data.

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## A Solution for Enterprise Customers

Organizations running business-critical applications or storing and accessing sensitive data often need rapid access to flexible and low-cost IT resources. Cloud services from SoftLayer, an IBM Company, provide the agility, elasticity, capacity, and redundancy required to maintain a competitive advantage in the market. On-demand delivery of these IT resources, with pay-as-you-go consumption, has convinced many organizations to provision new servers in, or move on-premises workloads to, a cloud environment—with substantial cost and efficiency benefits.

Migrating data and workloads to the cloud poses significant challenges for organizations concerned with compliance, data sovereignty, and maintaining control of data. IBM Cloud HSM helps solve these challenges by providing key management and key storage as a managed service built on a high assurance Hardware Security Module (HSM). In this way, IBM Cloud HSM allows you to build a hardware-based root of trust to manage and secure your encryption keys.

## Approach to Key Security: Keys in Hardware

IBM Cloud HSM employs a keys-in-hardware approach that protects the entire key lifecycle within the FIPS 140-2 validated confines of the hardware appliance. This method ensures that your keys always benefit from both physical and logical protections of the IBM Cloud HSM and prevents unwanted third-party access to your keys.

## Compliance Through Customer Control

Being able to own your encryption keys and prove that you have complete control of all of your data is crucial to meet the requirements of many compliance standards, including PCI-DSS. Many encryption key solutions available in the cloud are designed so that the keys are owned—and therefore accessible—by the cloud provider. While every reputable cloud provider makes assurances about the security of these solutions, the bottom line is that if you don't own your encryption keys, you can't prove control of your data.

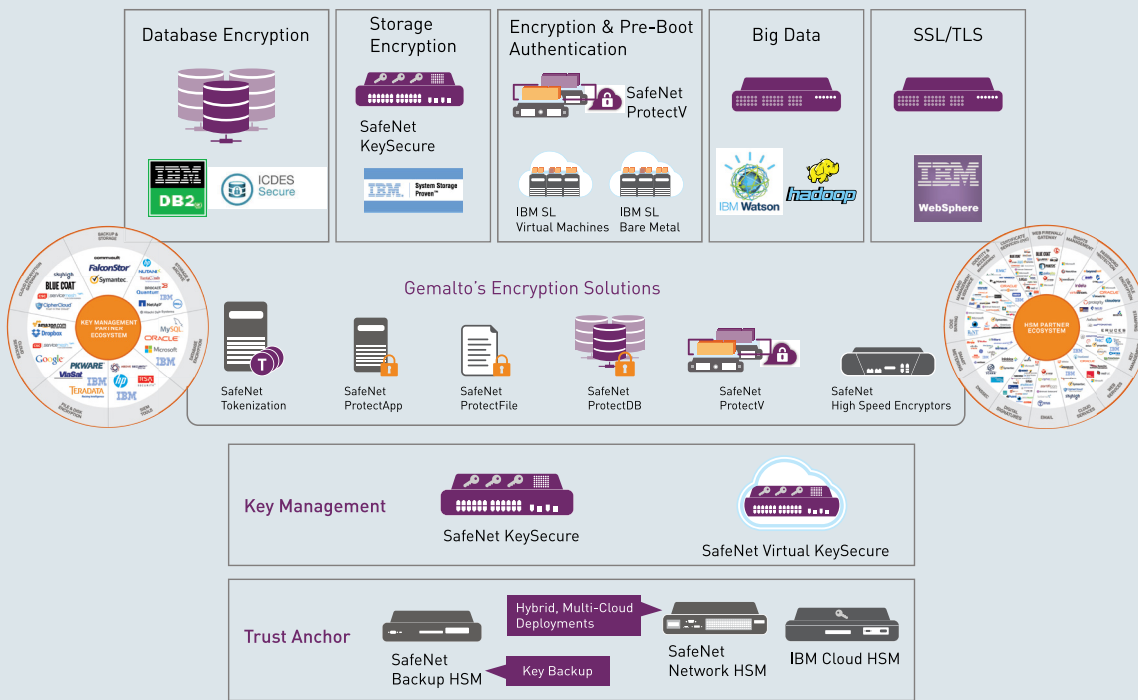
IBM Cloud HSM empowers organizations with customer-owned encryption, which ensures only you can access encryption keys for your company's data in SoftLayer cloud data centers.

## IBM Ecosystem and Breadth of Integrations

By leveraging IBM Java & GSKit, organizations can use cryptographic resources stored in the highly secure IBM Cloud HSM for WebSphere—and more than 200 other IBM applications. IBM Cloud HSM also supports other IBM products, including Tivoli Key Lifecycle Manager, PureData System, and z/series mainframes. What's more, IBM Cloud HSM benefits from one of the broadest ecosystems available on the market and integrates with more than 400 of the most commonly used enterprise applications.



# Using IBM Cloud HSM as the Trust Anchor for Enhancing SoftLayer Security with IBM and Gemalto Data Production Solutions



## Global Availability

IBM Cloud HSM can be provisioned and deployed in any SoftLayer data center location around the world, which allows users to build a highly available HSM.

## Cloud Portability

Built on HSM technology from Gemalto, IBM Cloud HSMs can be used to create high availability groups with SafeNet Network HSMs located in customer data centers. This provides a tremendous amount of flexibility as it enables customers to move keys in and out of cloud environments. With seamless application integration across HSMs on-premises and in the cloud, IBM Cloud HSM supports multi-cloud environments and provides the portability that customers demand.

## Secure Management

Customers can be confident that once IBM Cloud HSM is provisioned and deployed, they will have access to an HSM appliance that has been delivered in a factory state. Users will need to reset credentials during the first login.

## Common Cloud HSM Use Cases



Transparent Data Encryption



Code Signing



Hybrid and Multi-Cloud



Web Application Services /  
SSL Key Security



Big Data



Cryptography for Cloud Applications

## Learn More

To find out more about IBM Cloud HSM, visit [softlayer.com/cloud-HSM](http://softlayer.com/cloud-HSM).

To find out more about the SoftLayer cloud platform, visit [softlayer.com](http://softlayer.com), email [sales@softlayer.com](mailto:sales@softlayer.com), or call **866.398.7638**.

