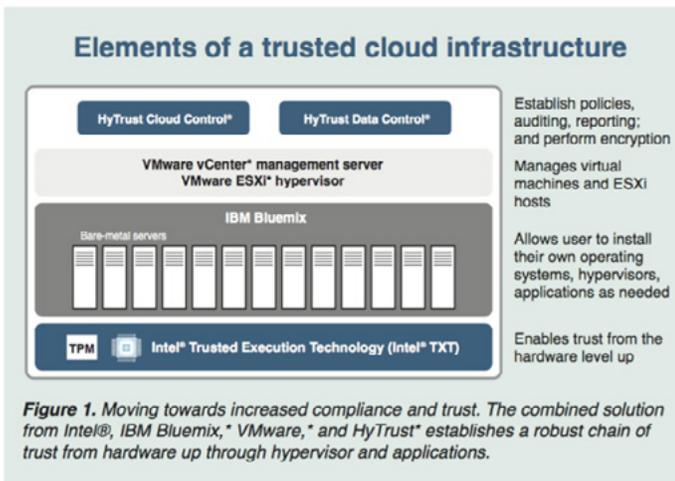# IBM Cloud Secure Virtualization

Automated compliance controls and data security for virtualized workloads on the cloud.

IBM Cloud Secure Virtualization, leverages technology from IBM, Intel and HyTrust to simplify compliance demands for organizations in highly regulated industries and provide workload security down to the microchip level. The solution enables a trusted cloud infrastructure that helps address in-house security needs as well as compliance requirements for mission-critical business operations.

The trust attested by the combined solution from IBM, Intel and HyTrust enables powerful leading concepts and use cases: trusted compute pools, hardware-based policy tags, data location, boundary control, geo-fencing, and policy-based decryption. This robust solution stack allows administrators to set, apply, and enforce consistent, trust-based policies even at the virtual workload level. Trust attestation gives IT visibility of physical servers across any virtualized infrastructure so that IT can make sure that only authorized servers in authorized locations handle sensitive workloads.

Figure 1. Moving towards increased compliance and trust. The combined solution from Intel®, IBM Bluemix,* VMware,* and HyTrust* establishes a robust chain of trust from hardware up through hypervisor and applications.

IT and business leaders can now take full advantage of the benefits of cloud computing while maintaining the strongest levels of data protection, visibility, and auditing necessary to protect the business.

Solution Features

Server Platform Integrity
Only allow virtual workloads to run on untampered hardware and software.

Deployment Control by Location
Only allow certain virtual servers to be run on hardware in an authorized location.

Data Decryption by Location
Only allow virtual server data to be decrypted in hardware in an authorized location.

Automated Infrastructure Deployment
Infrastructure deployment is automated offering fast and repeatable installation.

Global Infrastructure
Securely provision cloud resources where, and when, they need them.

IBM Cloud Secure Virtualization Use Cases

	Meet Data Sovereignty Requirements	IBM Cloud Secure Virtualization enable you to define and create a logical boundary by geography, regulatory standard (e.g. EU GDPR), department, etc. by assigning tags to key assets and then set policies and security controls for automated boundary enforcement.
	Protect Data	IBM Cloud Secure Virtualization helps you make sure that decryption occurs only at trusted locations on authorized servers. Even if a workload is moved to an untrusted host, the workload cannot be decrypted without authorization. In addition, with trust attestation and data location, HyTrust policies can enforce and approve decryption requests only for authorized hosts that are physically located in authorized locations.
	Audit and Compliance Readiness	Be prepared and ready for audit and compliance with automated metering, continuous monitoring, and templated reports support PCI 3.0, HIPAA, FISMA and GDPR (European Union Data Sovereignty Regulations) requirements.
	Operational Risk Reduction	Reduce operational risk with HyTrust BoundaryControl is enabled either by software-based tags or through the more robust security option via Intel TXT, hardware-based policy tags, and HyTrust. Once you knows the actual, physical location of each host, you can use HyTrust policies to restrict data and workloads to only authorized locations, and provide evidence-based reporting for those restrictions.

Choose your IBM Cloud Secure Virtualization solution

	IBM Professional Services	The IBM Professional Services team helps you to design, deploy and implement IBM Cloud Secure Virtualization. Whether you need help with implementation, workload migration or a fully managed environment, the IBM professional services team can help meet your needs.
	VMware Cloud Foundation with Secure Virtualization (expected availability Q2 2017)	Enjoy the convenience of simple automated deployment through the self service user portal. This solution offers IBM Bluemix cloud infrastructure, Intel Trusted Executed Technology, HyTrust security software and a fully virtualized stack of compute, networking and storage with VMware Cloud Foundation.

Talk with an IBM Cloud advisor to learn more. **1-844-95-CLOUD (Priority code: CLOUD)**

For more information about VMware on IBM Cloud, please visit: **ibm.com/cloud/secure-virtualization**