Trend Micro

SecureCloud™

Hosted or Managed Service for Cloud Data Encryption and Key Management

Your customers are turning to your cloud offerings to provide rapid provisioning, agility, and cost savings. However, these benefits may also introduce some privacy and security risks–businesses may be concerned that they don't always know where their data is or who can access it. Now you can give them greater confidence in the security of their data in the cloud.

Trend Micro SecureCloud is a data encryption and key management solution that increases your recurring revenue by offering your customers additional security from data theft or compromise for cloud computing environments. SecureCloud encrypts cloud storage volumes and uses a policy-based management system to validate guest virtual machines requesting keys for encrypted cloud storage volumes. This efficient, easy to use cloud security solution will help give you a competitive advantage over other service providers with less robust data security options.

Trend Micro gives you the flexibility to package SecureCloud in the way that works best for your business. You can deploy the SecureCloud key server as an on-promise software appliance or as a managed service hosted by Trend Micro. The on-premise option gives you total control over the service offering because you manage the SecureCloud key server in your data centre. Or you may choose to reassure your customers with enhanced separation of duties and accountability available in the hosted option. Because physical custody of encryption keys remains separate from the data and service provider, only the data owner can unlock encrypted data. So you benefit doubly by shifting responsibility for operating and maintaining the key server to Trend Micro while still collecting revenue for the service.

In both service delivery options, end users are charged a retail monthly subscription fee for the number of managed encryption keys deployed within the cloud. You simply aggregate the total number of encryption keys managed for all customers and remit periodic payments to Trend Micro based on a sliding volumetric scale.

MANAGED OR HOSTED SERVICE

Protection Points

• Infrastructure-as-a-Service

KEY BENEFITS FOR SERVICE PROVIDERS

• Provides a critical security service that helps differentiate you from the competition

• Gives customers security options that help overcome barriers to cloud adoption

• Improves your service offerings without additional management and maintenance

• Reduces the burden of complying with subpoenas and other legal action

• Creates clear separation of duties and roles

• Offers simple, clear subscription management

• Enhances recurring revenue potential

BENEFITS TO YOUR CUSTOMERS

SECURITY

• Enables data protection in public clouds and virtual environments

• Promotes safe storage recycling by rendering any data remnants indecipherable

• Facilitates compliance and supports internal governance

CONTROL

• Specifies when and where information is accessed through policy-based key management

• Offers unique server authentication to ensure only authorised virtual machines receive keys

• Provides remote management of cipher keys to enhance data security and control

KEY FEATURES FOR END USERS

Standard Protocols and Advanced Techniques for Securing Information

• Uses industry-standard 128, 192, or 256-bit AES encryption

• Encrypts and decrypts information in real time, so data at rest is always protected

• Applies whole volume encryption to secure all data, metadata and associated structures without impacting application functionality

Robust Auditing, Reporting and Alerting

• Performs audit logging of actions in the management console

• Provides detailed reporting and alerting features

Access and Authentication Controls

• Employs role-based management to help ensure proper separation of duties

• Policy-driven Key Management

• Utilises identity- and integrity-based policy enforcement to ensure only authorised virtual machines receive keys or access secure volumes

• Automates key release and virtual machine authorisation for rapid operations or requires manual approval for increased security

• Delivers keys via SSL encrypted Internet channels

• Enhances separation of duties between vendor and key manager

PLATFORMS SUPPORTED

Infrastructures natively supported in this product version:

Infrastructure Providers	Host Operating Systems
• Amazon EC2 • VMware vCloud • RightScale • Eucalyptus • TCloud	• CentOS 5.5 (32/64-bit) • Red Hat Enterprise Linux 6 (32/64-bit) • Ubuntu 10.10 (32/64-bit) • SUSE Linux Enterprise Linux 11.4 • Windows 7 • Windows 7 Ultimate • Windows Server 2003 R2 SP2 (32/64-bit) • Windows Server 2008 R2 SP2 (32/64-bit) • Windows Server 2008 SP2 (32/64-bit)

Trend Micro also provides the ability to write a plug-in for a Cloud Service Provider (CSP) that is not supported in a standard release. The plug-in is a thin, translation layer which communicates with the API of the CSP and presents a uniform interface between CSPs. The CSP-specific implementation will handle all logic specific to the CSP such that the rest of the Runtime Agent is CSP agnostic.

The plug-in is available via the Trend Micro Community

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