Secure Your Journey to the Cloud with Data Protection

Built for VMware Virtual and Cloud Environments

Cloud computing is quickly growing in popularity, providing businesses with more agility, efficiency, and cost savings. In a recent Trend Micro survey, over half of the respondents have cloud projects in place—either deployed, implementing, or piloting cloud computing.

With the new cloud benefits come new security risks. In the same survey, 50 percent of respondents expressed concerns over cloud security. And 43 percent of respondents who are currently using a cloud computing service reported that they have experienced a data security issue with their cloud service within the last twelve months.

Even with these risks, businesses are increasing the number of applications they are deploying into the cloud. To provide businesses with needed cloud data protection, Trend Micro designed a solution that integrates with VMware, allowing companies to maximize virtual and cloud computing rewards without compromising data privacy and security.
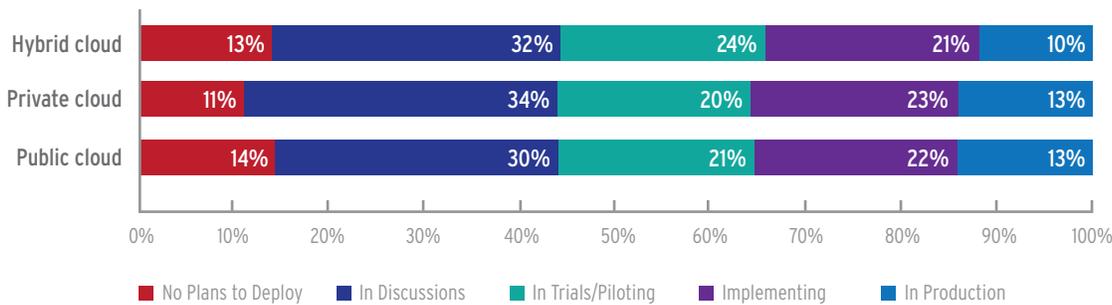
Companies with public or hybrid clouds

- 45% of existing applications in the cloud
- 53% of new applications will be deployed in the cloud

Trend Micro Global Survey Conducted:

- In May 2011
- In six countries: U.S., Canada, U.K., Germany, Japan, and India
- With 1200 respondents
- With business of at least 500 employees

Business Cloud Deployment by Cloud Model

Cloud Model	No Plans to Deploy	In Discussions	In Trials/Piloting	Implementing	In Production
Hybrid cloud	13%	32%	24%	21%	10%
Private cloud	11%	34%	20%	23%	13%
Public cloud	14%	30%	21%	22%	13%

Source: Trend Micro global survey, May 2011.

Trend Micro Data Protection for VMware Virtual and Cloud Infrastructure

VMware is the market leader in virtualization. And whether deploying private clouds or Infrastructure as a Service (IaaS) public clouds, virtualization is the foundation of cloud computing. However, VMware also goes beyond virtualization with technologies for cloud infrastructure, providing solutions that power a business's private cloud as well as public cloud deployments. To secure these VMware virtual and cloud environments, Trend Micro offers data protection using encryption with policy-based key management with native support for VMware vSphere and vCloud.

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Cloud Security Risks

Cloud computing and virtualization provide rapid provisioning and business agility. But these benefits can also raise issues with data mobility and control. Businesses may not always know where their data is or who can access it. Encryption can help keep sensitive data private and helps businesses meet their compliance requirements.

Of businesses that have a public cloud in production, 85 percent encrypt their data stored in the cloud. Although the vast majority of businesses recognize encryption as a security best practice, most commonly used encryption key management techniques leave companies vulnerable in the cloud.

Cloud Data Security with Efficient, Easy-to-Use Encryption

Trend Micro SecureCloud pairs encryption with policy-based key management to give control over data stored in public, private, or hybrid clouds back to businesses. The patent-pending, simple key management system enables users to set policies that determine where and when encrypted data can be accessed. In addition, server validation applies identity and integrity rules when servers request access to secure storage volumes. SecureCloud's simple approach safely delivers encryption keys to valid devices without the need to deploy an entire file system and management infrastructure.

The SecureCloud key management and data encryption solution is available as Software as a Service (SaaS) or as a software application. Businesses can safely migrate applications and data to virtual or cloud environments with protection against theft or unauthorized exposure. This protection helps support internal governance and ensure compliance with regulations like HIPAA, HITECH, Sarbanes-Oxley, GLB, and PCI DSS.

Protect Your VMware Cloud Journey

Trend Micro was the first vendor to use VMware vShield Endpoint APIs to provide virtual machine security through Trend Micro Deep Security. With SecureCloud, Trend Micro continues to partner with VMware to secure each business's journey to the cloud. SecureCloud integrates with VMware vCloud, leveraging the API for policy-driven control, and provides native vSphere support. And SecureCloud has vCloud Director support to enable users to encrypt data in private, public, or hybrid clouds.

By integrating with both VMware virtual and cloud environments, businesses have the flexibility to encrypt data throughout their cloud journey. They can start by encrypting their vSphere virtual environments to create a safe cloud foundation and later encrypt their sensitive data in a vCloud infrastructure. And with SecureCloud, customers retain encryption key ownership, giving them the choice to secure their data stored in a vCloud infrastructure as a private cloud or as a service provider public cloud. With Trend Micro SecureCloud and VMware, customers have the flexibility to protect their data throughout their own unique journey to the cloud.

VMWARE-READY TREND MICRO PRODUCTS

Virtual and Cloud Security
- SecureCloud for data protection
- Deep Security for server and VDI security

Virtual Appliances
- Web Security
- Messaging Security
- Email Encryption
- Data Loss Prevention

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