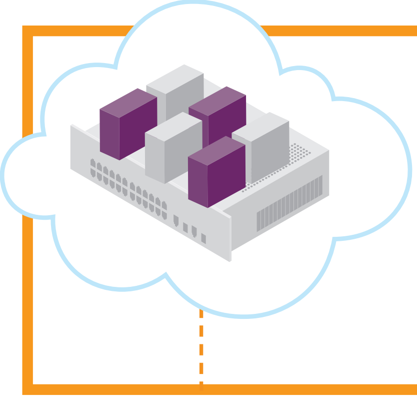
THE
DATA
PROTECTION
COMPANY



Securing Sensitive Workloads in the AWS Cloud

SOLUTION BRIEF

Key Features

Complete virtual machine and storage encryption:

- Enables encryption of entire virtual machines and the storage volumes associated with them
- No data is written to system partition or storage volume disk without first being encrypted
- Even data stored in the OS partition is protected
- Complete encryption and key management solution can be purchased on AWS Marketplace and run completely in the AWS cloud (EC2 or VPC)

Only high-assurance solution for data compliance in the cloud:

- Undisputed command and proof of ownership for data and keys
- Only authorized individuals can launch AMIs
- Prevents unauthorized data exposure or superuser abuse
- Helps meet a range of regulations, such as PCI and HIPAA

The Business Problem

When organizations are running business-critical applications or storing and accessing sensitive data, they often need rapid access to flexible and low-cost IT resources. Cloud services from Amazon Web Services (AWS) 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 pricing, has convinced many organizations to create their servers in or move existing servers to the AWS cloud—with substantial cost and efficiency benefits.

Some applications and data require additional security due to rigorous contractual or regulatory requirements. Until now, companies had to store sensitive data (and/or the encryption keys protecting it) in on-premise data centers. Unfortunately, this either prevented migration of these applications to the AWS cloud or significantly slowed their performance.

Solution

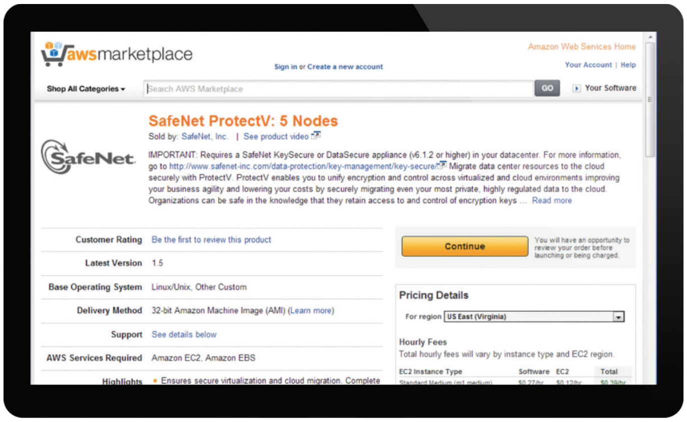
Today, AWS and SafeNet have teamed up to provide protection for virtual machines, storage volumes, and encryption keys in the AWS cloud that is as secure as physical servers and storage in the most robust, secure on-premise environment.

ProtectV and Virtual KeySecure from SafeNet and CloudHSM from AWS makes sure your sensitive workloads can migrate to the AWS cloud—no matter what level of security is needed. Best of all, the entire solution stack is available for purchase from AWS.

The Components

ProtectV

ProtectV, available on AWS Marketplace, secures your data in the cloud, **encrypts entire virtual machine instances and attached storage volumes,** and ensures complete isolation of data and separation of duties. ProtectV also ensures that **no virtual machine instance can be launched without proper authorization** from ProtectV StartGuard pre-boot authentication.



SafeNet ProtectV: 5 Nodes

Sold by: SafeNet, Inc. | See product video

IMPORTANT: Requires a SafeNet KeySecure or DataSecure appliance (v6.1.2 or higher) in your datacenter. For more information, go to http://www.safenet-inc.com/data-protection/key-management/key-secure/ Migrate data center resources to the cloud securely with ProtectV. ProtectV enables you to unify encryption and control across virtualized and cloud environments improving your business agility and lowering your costs by securely migrating even your most private, highly regulated data to the cloud. Organizations can be safe in the knowledge that they retain access to and control of encryption keys ... Read more

Customer Rating	Be the first to review this product
Latest Version	1.5
Base Operating System	Linux/Unix, Other Custom
Delivery Method	32-bit Amazon Machine Image (AMI) (Learn more)
Support	See details below
AWS Services Required	Amazon EC2, Amazon EBS
Highlights	▪ Ensures secure virtualization and cloud migration. Complete

You will have an opportunity to review your order before launching or being charged.

Pricing Details

For region: US East (Virginia)

Hourly Fees

Total hourly fees will vary by instance type and EC2 region.

EC2 Instance Type	Software	EC2	Total
Standard Medium (m1.medium)	$0.27/hr	$0.12/hr	$0.39/hr

Key Features

Enterprise key lifecycle management with government-grade assurance:

- The only solution that stores encryption keys in a high-assurance hardware-based key vault hosted by AWS
- Only your organization has access to the keys in CloudHSM— AWS has no ability to view or access

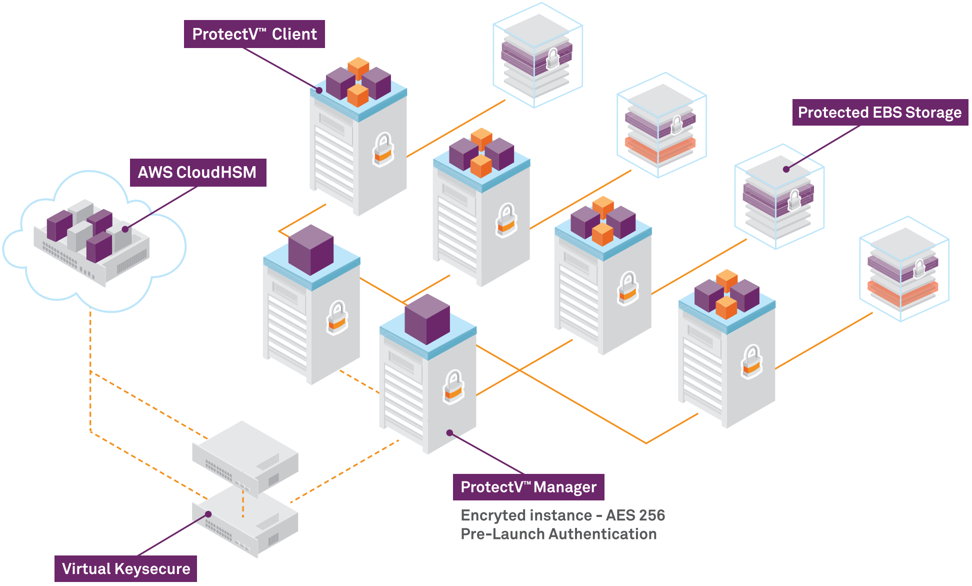
Virtual KeySecure

Virtual KeySecure, also available on AWS Marketplace, centralizes key management for ProtectV-secured virtual instances, as well as other applications, in a hardened software appliance that runs in the AWS cloud. The combination of Virtual KeySecure and ProtectV enables organizations to unify encryption and control across virtualized and cloud infrastructure, increasing security and compliance for sensitive data residing in AWS EC2 environments. Virtual KeySecure allows organizations to quickly deploy centralized key management in high-availability, clustered configurations. Additionally, Virtual KeySecure ensures that organizations maintain ownership of their encryption keys at all times by hardening the appliance OS and encrypting the entire virtual appliance.

AWS CloudHSM

SafeNet KeySecure is the only solution to optionally provide a hardware root of trust for encryption keys in support of the AWS CloudHSM service, available directly from AWS. Only your organization has access to the keys stored in CloudHSM—AWS has no ability to view or access the keys. The AWS CloudHSM service helps you meet corporate, contractual, and regulatory compliance requirements for data security by using dedicated hardware security module (HSM) appliances within the AWS cloud. The AWS CloudHSM service allows you to protect your encryption keys within HSMs designed and validated to government standards for secure key management. You can securely generate, store, and manage the cryptographic keys used for data encryption such that they are accessible only by you. AWS CloudHSM helps you comply with strict key management requirements without sacrificing application performance.

Amazon Web Services



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