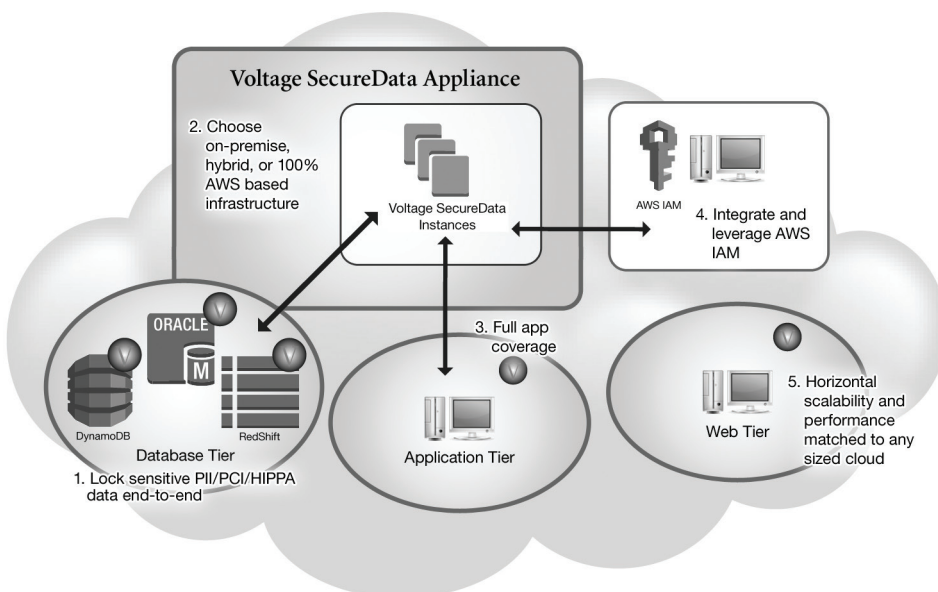# Voltage security

amazon web services™

Cloud Data Protection for the Enterprise

Solution Overview

Amazon Web Service™ (AWS) offers disruptive economics and new agility to enterprise IT applications and services. Data-centric security provided by Voltage Security® provides AWS customers with the trusted movement and use of data across Amazon's compute, storage, and on-demand services in the cloud.

Voltage SecureData™ is a framework that ensures all of your data remains private anywhere it moves, anywhere it resides, and however it is used – including data in AWS as well as within private data centers. This promotes easier cloud-based collaboration, reduces risk, and enables efficient compliance, while ensuring the lowest upfront and ongoing costs for protection.

Cloud Services Protected by Voltage FPE

Voltage SecureData Appliance

2. Choose on-premise, hybrid, or 100% AWS based infrastructure

Voltage SecureData Instances

AWS IAM

4. Integrate and leverage AWS IAM

3. Full app coverage

ORACLE

DynamoDB   RedShift

Database Tier

1. Lock sensitive PII/PCI/HIPPA data end-to-end

Application Tier

Web Tier

5. Horizontal scalability and performance matched to any sized cloud

Features & Benefits

- Voltage Format-Preserving Encryption™ (FPE) from Voltage Security delivers end-to-end protection from inside your business process helping to reduce risks and breaches, with no impact on database schemas and minimal changes to applications. Protection travels with the data, eliminating the security gaps in transmission into and out of different systems and applications.

- Lock private data anywhere and everywhere it moves in your cloud to reduce compliance costs as well as ensuring brand protection against breaches

- Stateless key management perfectly matched to cloud requirements for availability, distribution, virtualization and scale. Removes the need to constantly backup key stores and dramatically reduces complexity of maintenance.

Solving Key Business Challenges

As businesses take advantage of cloud computing, the risk of exposing sensitive data increases. Because the cloud does not have a physical location, compliance with data residency regulations also becomes difficult. Simply protecting data can render it useless to the very business applications that are supposed to process the data.

With Voltage Security and AWS, a comprehensive data protection solution unites end-to-end encryption, tokenization, and masking to protect PCI cardholder data and all other sensitive information while minimizing impact to business processes, work flow, and applications. Highly optimized for Amazon's Web Service architecture, Voltage's FPE secures data in some of the world's largest banks, insurers and retailers across a variety of devices, operating systems, databases, and applications. Voltage's unique stateless, centralized, and scalable key management infrastructure easily matches the scalability and high availability requirements for today's demanding and dynamic cloud architectures.

Key considerations in using the joint Voltage Security and AWS solution:

- **Disruptive economics for reducing CAPEX/OPEN for running IT**
  Replace upfront infrastructure investment with low monthly costs while protecting your sensitive data.

- **Improved security and control through separation of key management and encryption**
  Choose to encrypt data from either within or outside AWS, so that data remains obfuscated even if it is stolen.

- **Opportunities to accelerate convergence, consolidation and virtualization**
  Deploy applications quicker while accommodating global needs. Protect sensitive data across all applications: SaaS, PaaS and IaaS for all data types, structured, semi-structured and unstructured data.

Use Cases

Accelerate your protection of sensitive data and PCI, HIPAA, GLBA compliance in global industries such as healthcare, financial services, insurance and retail. Voltage Security is well suited to complement the AWS Cloud Computing platform with ease and flexibility in your use case or industry including::

- Big data analytics
- Enterprise applications
- Web, mobile & social applications

"The best way to limit your liability, of course, is to avoid security incidents by minimizing vulnerabilities and using effective security controls.

Many organizations have made significant progress in increasing the security levels of their own infrastructures, and will need to extend those security processes out to cloud services.

Gartner, May 7, 2012
Securing and Managing Cloud Computing
John Pescatore

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