

# DATA SHEET

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## AWS Data Protection Strategy Implementation



## Why Choose Encryption Consulting LLC?

Encryption consulting is a leading cyber security firm with a spread of expertise across domains in Cryptography and Cloud Security. Encryption Consulting recruits industry best resources with ample amount of experience in Cyber Security with capability to perform comprehensive tasks especially in Data Protection Domains. Cryptography and Key Management are core service areas.

## Expertise Dedicated for your Cloud Data Protection

Encryption Consulting's team, with their solid expertise, performs document review along with remote interviews and workshops to identify gaps and provide data protection assessment recommendations as per the industry best practices. Tailor made assessment controls and questionnaire will be developed as per the client requirements.

## Key benefits of AWS Data Protection Implementation

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- **Secure Deployment**

Achieve high secure deployment of AWS Data Protection domain-wise matching your requirements

- **Deep Analysis**

In-depth understanding of your cloud environment with proper assessment and workshops

- **Risk Elimination**

Eliminates risk with expert deployment of Key Management Infrastructure, certificate management and DLP

- **Regulatory Compliance**

Secure and efficient Data Protection implementation by achieving various regulatory compliance such as PCI DSS, GDPR



# Our Approach to secure your AWS Environment

Encryption Consulting's team will implement domain-wise Data Protection Strategy based on risk prioritization and timeline. Right from classification of data in AWS cloud to protecting Data in various layers through encryption, DLP across AWS storages such as Amazon Elastic Block Store (EBS), Amazon Relational Database Service (RDS), Amazon DynamoDB, and Amazon S3 etc. We leverage AWS native encryption capabilities in providing an efficient security to your data in support with other Data Protection technologies.

## DATA – AT – REST PROTECTION

### **AWS Discovery**

Data at rest scans will be performed across AWS Cloud environment to identify sensitive data and develop Data Flow Diagrams (DFD), Inventory

### **Amazon Redshift Encryption (DB)**

Data in databases are protected through Amazon Redshift database encryption while writing your data to data centres

### **Disk – Level Encryption**

Static data residing on AWS storages such as disks with in clusters and back ups in Amazon S3 can be protected through standard AES-256

## DATA – IN – TRANSIT PROTECTION

### **AWS Elastic Load Balancing (ELB)**

Static data residing on AWS storages such as disks with in clusters and back ups in Amazon S3 can be protected through standard AES-256

### **Cloud DLP**

Data in transit can be protected by implementing CASB solution in cloud and also by protecting endpoint machines with Endpoint DLP. We evaluate and implement appropriate vendor for your environment

### **Network Traffic Encryption**

AWS Load Balancer performs encrypting TLS traffic from clients. AWS Key Management can be configured to manage keys and certificates

## DATA – IN – USE PROTECTION

### **Field – Level Encryption**

AWS CloudFront FieldLevel Encryption can be implemented to protect dynamic web sensitive data while meeting compliance requirements

### **Transparent Data Encryption (TDE)**

AWS RDS supports TDE for all major databases such as SQL, Oracle. TDE automatically encrypts data and decrypts data when read from storage

### **Tokenization & Obfuscation**

Our experts will implement Tokenization and Obfuscation to protect highly critical sensitive data stored in AWS cloud. This ensures compliance with GDPR

# Deliverables

Implementation deliverables vary as per the client requirements and engagement scope. Please find below sample deliverables for high level view:

- AWS Workbook
- Regulatory requirements and assessments framework
- Service documentation
- Training and awareness documentation framework
- Executive summary report framework

## Client References

### 1. Global Media and Tech Organization

#### Background

A leading global Media organization sought out Encryption Strategy implementation for AWS . Client requirement was to provide a phase-wise implementation as per risk prioritization plan.

#### What we did

- Designed requirements framework for assessing AWS Cloud environment and identifying risk appetite
- Developed implementation plan based on workshop outcomes and risk prioritization
- Implemented Field-level encryption for Amazon CloudFront web services as per the assessment outcomes
- Developed service documentation with standards for future reference

#### Outcomes/impact

- Encryption strategy report
- AWS Encryption implementation guide
- Service documentation

### 2. Global Health Care Corporation

#### Background

A global health care corporation decided to perform an overall AWS Data Discovery and identify sensitive data stored/used across the organization. They wanted to create develop Critical Data Inventory and Data Flow Maps for AWS Cloud data

#### What we did

- Performed document review to identify existing storage locations
- Conducted workshops with critical crown jewel business stakeholders to identify “Critical Data Elements” and data flow process
- Mapped and developed Data Flow Maps depicting the sensitive data flow and security controls implemented
- Created a global data inventory with critical data assets and elements

#### Outcomes/impact

- Data Flow Maps
- Critical Data Inventory

