

DATA SHEET

Data Protection Strategy and Roadmap for Azure Cloud



Overview

Encryption Consulting's industry-leading expertise helps clients design "Azure Cloud Data Protection Strategy" through a well researched assessment process across data protection domains for Data-AtRest(DAR), Data-In-Motion (DIM) and Data-In-Use (DIU). Our strategy and roadmap design will guide the client towards compliance with standards and regulations such as NIST, ISO, GDPR, PCI DSS and Azure best practices. Domains to be covered under the Azure Cloud Data Protection Strategy are:

Encryption & Tokenization

Azure Cloud data to be secured using SAML token encryption in Azure AD to safeguard data from unauthorized parties.

Azure Key Management

Configuring Key Vault with tenant, vault owner, HSM administrator etc and make sure TripleDES encryption is in place.

Data Retention & Destruction

Data retention and destruction strategy to be determined based on regulatory requirements and compliance

Cloud Data Discovery

We perform cloud wide discovery to identify sensitive data for data mapping and inventory. Azure databases such as Azure SQL Database, Azure Cosmos DB, Azure Cache for Redis etc. will be considered for DAR scans.

Data Leakage Prevention

We design strategy to prevent the risk of data breach and manipulation by configuring eDiscovery, BYOK, HYOK etc.

Azure Certificate Management

We develop strategy to identify, manage and deploy SSL/TLS using Key Vault's certificate management service.

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 experienced Azure security specialists capable of analysing, classifying and safeguarding sensitive data hosted on the cloud using various techniques such as cryptography and key management.

Key Benefits

- **To Protect proprietary and sensitive data**
- **To Comply with regulatory and standard requirements**
- **To Align with Azure Cloud industry best practices**

Expertise Dedicated for your Cloud Data Protection

Encryption Consulting's team will evaluate the existing Data Protection strategy and controls through assessment to identify crown jewels and areas with highest risk. Outcomes are considered to design strategy with priority order of implementation. This will enable you to prioritize your efforts and budget efficiently.



Our Approach

Encryption Consulting's team will evaluate the existing strategy and determine the target state through assessment and workshops. Recommendations are determined and categorized based on risk prioritization. Based on the prioritized recommendations Strategic Roadmap is designed with "Do-Now", "Do-Next" and "Do-Later" implementation phases and timeline.

Design and Planning

- Design project plan with work activities and timeline.
- Develop assessment framework to identify recommendations for Azure Cloud.
- Obtain documentation for review.



Strategic Roadmap

- Perform assessment based on designed framework and identify recommendations.
- Categorize recommendations based on risk rating and critical business requirements.
- Design roadmap with "Do-Now", "Do-Next", "Do-Later" depending on the identified priority.



Executive Summary Reports

- Socialize Strategic Roadmap with key stakeholders for approval.
- Develop an executive summary reports indicating the classified recommendations risk rating, implementation plan for CISO level presentation.



Deliverables

At the end of the Azure Cloud Data Protection Strategy engagement, Encryption Consulting experts will provide following deliverables:

- Strategy with prioritized implementation plan
- Azure Cloud Implementation roadmap
- Training and awareness documentation
- Executive summary report

Client References

1. Global Health Care Corporation

Background

A global health care and electronics corporation sought out an Azure Cloud Data Protection Strategy and Roadmap for Encryption Strategy implementation. Client requirement was to provide a phase-wise implementation plan as per risk prioritization.

What we did

- Designed requirements framework for assessing Azure Cloud Infrastructure encryption controls to understand the risk appetite.
- Provided recommendations to enhance compliance and risk rating.
- Developed roadmap for implementing the finalized encryption recommendations for Azure Cloud as well as provided estimated number of Compute Engine VMs and cost associated with it.
- Implemented the provided recommendations as per the agreed up on timeline during Phase-2 of the engagement.

Outcomes/impact

- Secure gap assessment framework.
- Strategic roadmap with implementation plan for next 3 years.
- Training and awareness material.

2. Leading Food Processing Company

Background

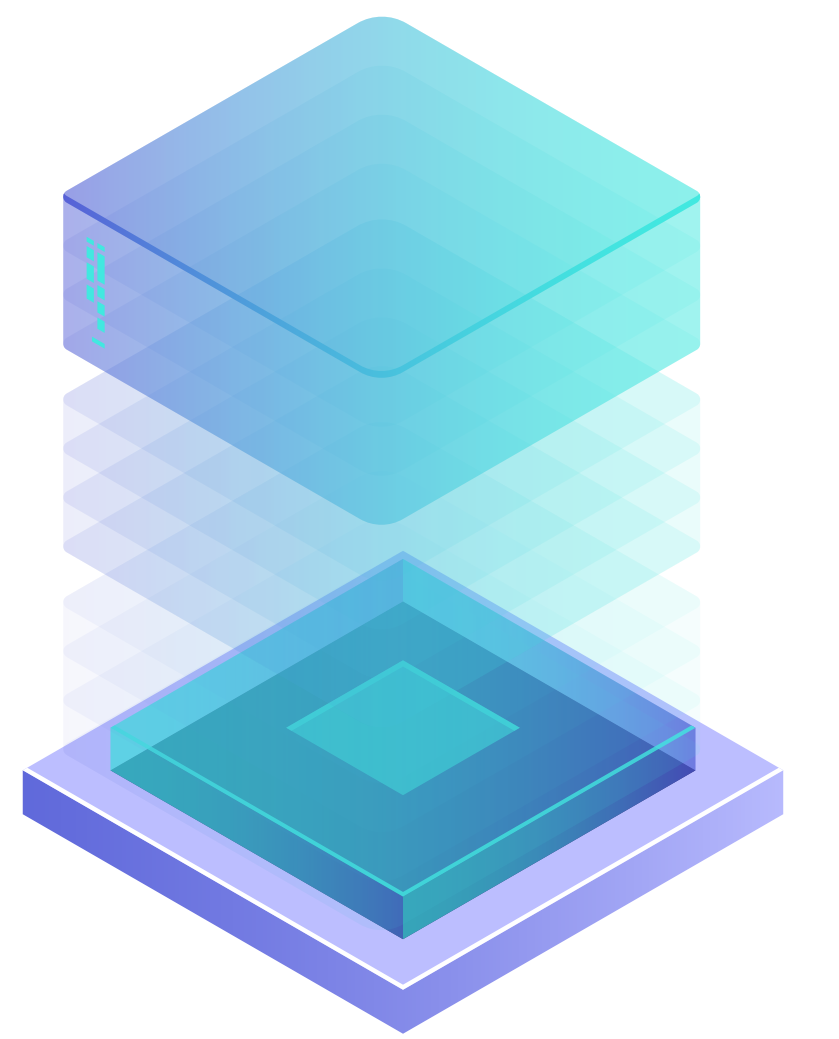
A leading food processing company sought out an overall data protection assessment for Azure cloud data and required a strategic roadmap to enhance the security landscape. They wanted to safeguard customer data and create awareness among key stakeholders.

What we did

- Performed document review and assessment framework for all six data protection domains.
- Proposed recommendations based on industry best practices and developed strategic roadmap with prioritized recommendations. High priority classified to be implemented in "DoNow". Medium priority in "Do-Next" and low priority recommendations in "Do-Later" phase.
- Provided instructor led Secure Programming training to the stakeholders on cloud data protection best practices and classification.

Outcomes/impact

- Secure gap assessment framework.
- Strategic roadmap with implementation plan for next 3 years.
- Training and awareness material .



Why Encryption Consulting LLC?



Encryption Advisory Services

Encryption is used for securely protecting data from unauthorized access. Data encrypted can only be seen by those that possess the key to change the data back to plain text. Encryption is now one of the oldest yet still most effective technology solutions able to have data security



Public Key Infrastructure

PKI is a security ecosystem that has stood the test of time for achieving secure Internet-based transactions by the use of digital certificates. Digital certificates have provided security to servers and routers from the very early stages of the Internet through Public Key Infrastructure



Hardware Security Module – HSM

Hardware Security Modules provides protection and strong authentication with cryptographic processing by the use of digital keys inside a physical computing device. This device offers an isolated tamperproof environment which can create and secure cryptographic keys, protecting critical cryptographic operations, all while enforcing self-implemented policies over the keys.



Certificate Lifecycle

Certificates typically have a 4-phase lifecycle - Discovery, Enrollment, Provisioning, and End-of-life. To make your PKI mature and reliable, you must have more control over all the phases



Enterprise Encryption Platforms

Does your business have the need to encrypt large amounts of data-at-rest found in structured databases or in unstructured files across physical, cloud, or both types of environments? Do you want to protect data without disruptive changes to applications or business practices?



Cloud Data Protection Services

The transition towards uploading data on the public cloud is now becoming the normal standard. With relying on the cloud for data storage, cloud security must now become the number one priority for organizations

See it in action

Encryption Consulting LLC is a customer-focused cyber security consulting firm providing an array of services in all aspects of data protection.

Contact Us