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Azure Data

EXERCISE 3 - Data Security and Compliance in Azure

1. Research and Document Azure's Data Encryption Methods

- **What to do**:

o Research how Azure secures data through encryption. Include details on encryption at rest, encryption in transit, and customer-managed keys.

o Cover services like Azure Storage encryption, SQL Database encryption (TDE), and Azure Key Vault.

o Summarize your findings in **1 page** and save it as a **PDF document**.

- **How to do it**:

o Use Azure documentation (https://learn.microsoft.com/en-us/azure/) for research.

o Tools like Word or Google Docs can help you write and export your document as a PDF.

2. Enable Encryption for a Sample Azure Storage Account

- **What to do**:

o Create or use an existing Azure Storage Account.

o Enable encryption for the storage account (Azure encrypts all storage accounts at rest by default).

o Optionally, configure **customer-managed keys** for encryption using Azure Key Vault.

- **How to do it**:

o Log in to the Azure Portal (https://portal.azure.com).

o Navigate to your storage account.

o Under **Settings**, go to **Encryption** and verify or enable encryption.

o If using customer-managed keys, integrate Azure Key Vault.

3. Explore Azure Compliance Manager for Data Regulation

- **What to do**:

o Use Azure Compliance Manager to explore how Azure helps meet regulatory requirements (e.g., GDPR, HIPAA).

o Review the compliance score and understand how to improve it.

- **How to do it**:

o Log in to the Azure Portal.

o Search for **Compliance Manager** in the portal.

o Explore the dashboard, review assessments, and understand the regulatory frameworks Azure supports.

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