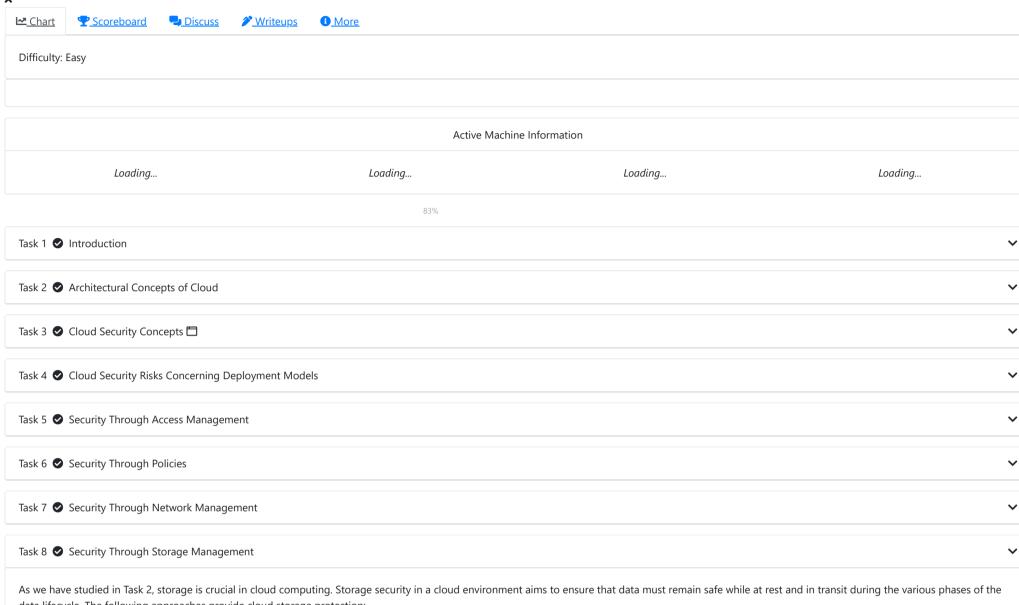


Intro to Cloud Security

Awards Help 🕸 合 Cloud Details Show Split View

Learn fundamental concepts regarding securing a cloud environment.



data lifecycle. The following approaches provide cloud storage protection:

- Create Geographical Boundaries: Define geographical regions and set policies permitting data access.
- Set Role-based Authorisation: Create identities and assign roles to access a particular data set per the rights and privileges.
- Data Encryption: Almost all cloud service providers allow data encryption at rest. With this approach, server-side encryption is applied to data.

Important Aspects

For any storage (file, database, etc.), the following aspects are of utmost importance:

- Connection String with database containing hostname, username and password must be used using secure means.
- Access security policy.
- Data encryption standards.
- Physical security measures by the cloud service provider.

Storage Security in AWS

The cloud environment provides different types of data repositories to store data. In terms of AWS, we have Relational Database Service (RDS), Simple Storage Service (S3), Redis, etc., to keep and retrieve data. Data security is ensured by applying various policies to database instances per the data sensitivity.

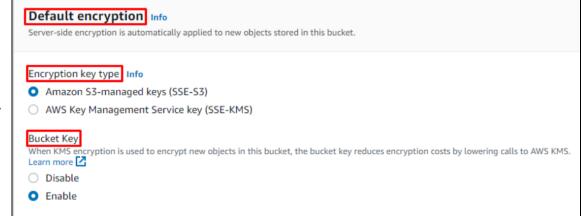
Practical Exercise

In this example, we will Create S3 Bucket and enable data encryption at rest.

- Login to your AWS account & Navigate to S3 in the services menu.
- Click on create bucket & Enter basic information such as bucket name, AWS region, etc. The bucket name must be globally unique; there can't be two buckets with the same name.

Create a bucket Every object in S3 is stored in a bucket. To upload files and folders to S3, you'll need to create a bucket where the objects will be stored. Create bucket





- Now click, Create bucket . Congrats, you have created your first S3 bucket with server-side encryption.

Answer the questions below

Encryption of data at rest is unnecessary if we carry out encryption at transit (yea/nay)?

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