Amazon SimpleDB

## Service Overview

Amazon SimpleDB is a web service for running queries on structured data in real time. This service works in close conjunction with Amazon Simple Storage Service (Amazon S3) and Amazon Elastic Compute Cloud (Amazon EC2), collectively providing the ability to store, process and query data sets in the cloud. These services are designed to make web-scale computing easier and more cost-effective for developers.

SimpleDB comes with a [number of features](https://aws.amazon.com/simpledb/#Featured_Use_Cases) like scalability, speed, ease of use, reliability and etc.

When using Amazon SimpleDB, your [data model](https://docs.aws.amazon.com/AmazonSimpleDB/latest/DeveloperGuide/DataModel.html) is the following: you organize your structured data in domains within which you can put data, get data, or run queries. Domains consist of items which are described by *attribute* name-value pairs.

SimpleDB has a relatively small number of [API calls](https://docs.aws.amazon.com/AmazonSimpleDB/latest/DeveloperGuide/APISummary.html), that provide all the core functionality, which you would need, like **create/put/delete/get.**

When speaking of [consistency](https://docs.aws.amazon.com/AmazonSimpleDB/latest/DeveloperGuide/ConsistencySummary.html), under the hood, SimpleDB replicates all written data to several instances to ensure that data is persistent and durable. When it comes to read operations, Amazon SimpleDB supports two read consistency options: eventually consistent read and consistent read.

As the service is designed to support parallel applications, you can [separate your data](https://docs.aws.amazon.com/AmazonSimpleDB/latest/DeveloperGuide/DataSetPartitioningConcepts.html) between multiple domains (e.g. Movies/Music/Books) to increase performance and allow apps to read the needed data from different domains in parallel.

## Use cases / Considerations

You can check the example use cases to check if SimpleDB suites your needs [here](https://aws.amazon.com/simpledb/#Featured_Use_Cases).

## Governance

SimpleDB uses [IAM and AWS Access Keys](https://docs.aws.amazon.com/AmazonSimpleDB/latest/DeveloperGuide/IAM.html) for authentication and authorization.

## Cautions

SimpleDB is unofficially deprecated and you cannot get access to it through AWS Management Console, only API access is supported.

## Pricing considerations

[You are charged for](https://docs.aws.amazon.com/AmazonSimpleDB/latest/DeveloperGuide/Introduction.html#HowAmazonChargesForSDB):

* Storage
* Data transfer
* Machine Utilization

All info regarding SimpleDB pricing can be found in [AWS docs](https://aws.amazon.com/simpledb/pricing/)

## More details