



Anemoia Studios Data Storing Options



MongoDB

- non-relational document database that provides support for JSON storage
- flexible data model that enables one to store unstructured data, while providing full indexing support

```
{  
  company_name: "Anemoia Studios",  
  address: {street: 123 Sesame Street, city: "Tempe"},  
  phone_number: "1-800-0000",  
  industry: ["streaming service", "filmmaking"]  
  type: "public",  
  number_of_employees: 999  
}
```



MongoDB: Advantages vs Disadvantages

Advantages	Disadvantages
Allows for distribution across multiple servers.	Can consume a significant amount of memory resources.
Allows for flexible schemas (crucial when dealing with multimedia content).	Reads may not reflect the recent writes immediately.
Designed to handle large volumes of data.	Requires careful design from developers for optimal performance.



MongoDB Cost

Shared (\$0/month)

- Cloud-based environment with basic configurations.
- 512MB to 5GB of free storage.
- Shared RAM.

MongoDB Atlas (\$57/month)

- Multi-cloud developer data platform available on AWS, Azure, and Google Cloud.
- Advanced configuration controls.
- 10GB to 4TB of storage.
- 2GB to 768GB of RAM.
- Network isolation and fine-grained access controls.



Amazon S3 - Cloud Object Storage

- object storage service provided by Amazon Web Services (AWS).
- designed to store, retrieve, and protect large amounts of data for a range of use cases.
- storage management features that can manage costs, meet requirements, reduce latency, and have multiple copies of data.



Amazon S3: Advantages vs Disadvantages

Advantages	Disadvantages
Cost-effective storage options, especially for long-term storage.	Cost associated with data retrieval.
Global accessibility (accessible from anywhere in the world!).	May not be best choice for services with high request rates or low-latency requirements.
Highly scalable, suitable for handling large amounts of data.	Setting and managing complex storage can be challenging for new developers.



Amazon S3 Cost

Free Trial

- 5GB of storage for 12 months.

S3 Standard

- General purpose storage for any type of data.
- First 50TB per month = \$0.026 per GB
- Next 450TB per month = \$0.025 per GB
- Over 500TB per month = \$0.024 per GB

Pricing quote: <https://aws.amazon.com/contact-us/sales-support/?pg=s3price&cta=herobtn>.



Google Cloud Storage (GCS)

- provides a wide range of platform services allowing organizations to build, deploy, and scale applications and services using Google's global network and data center.
- provides an array of tools and services including web hosting and running complex data analytics.



GCS: Advantages vs Disadvantages

Advantages	Disadvantages
Designed to handle large-scale applications.	Level of support may vary depending on services used.
Offers robust machine learning and AI services (useful for content recommendations and improving user experience).	Manage resources to avoid unexpected charges.
Strong emphasis on security, providing tools and features to protect data.	Once infrastructure is built, challenges may arise when moving from one provider to another.



GCS Cost

Free Trial

- \$300 in free credits to run, test, and deploy workloads.

Only Pay for What You Use

- GCS only requires one to pay for the service used (no up-front fees or termination charges).

Pricing quote: <https://cloud.google.com/products/calculator>.



Azure Cosmos DB

- multi-model database service provided by Microsoft (part of Azure cloud platform).
- designed to meet modern demands, high-scale applications that require low-latency access to data.
- designed to provide high availability and durability.



Azure Cosmos DB: Advantages vs Disadvantages

Advantages	Disadvantages
Designed for global distribution.	DB locked to Microsoft Azure ecosystem, multi-cloud deployment may be limited.
Reliability ensuring data is accessible anytime, even in the case of hardware failure.	Query language and features may require more levels of expertise.
Supports multiple data models, allowing to store various types of data into one DB.	Relatively expensive compared to other DB.



Azure Cosmos DB Cost

Free Trial

- 1,000 RU/s and 25GBs of storage for one Azure Cosmos DB account.
- 12-month trial.

Consumed Storage

- ~\$0.03 to \$0.25/month (per region)

Pricing quote: <https://azure.microsoft.com/en-us/contact/pricing/>.