REMOTE DATA, DATA STORAGE, & DATA SOURCES

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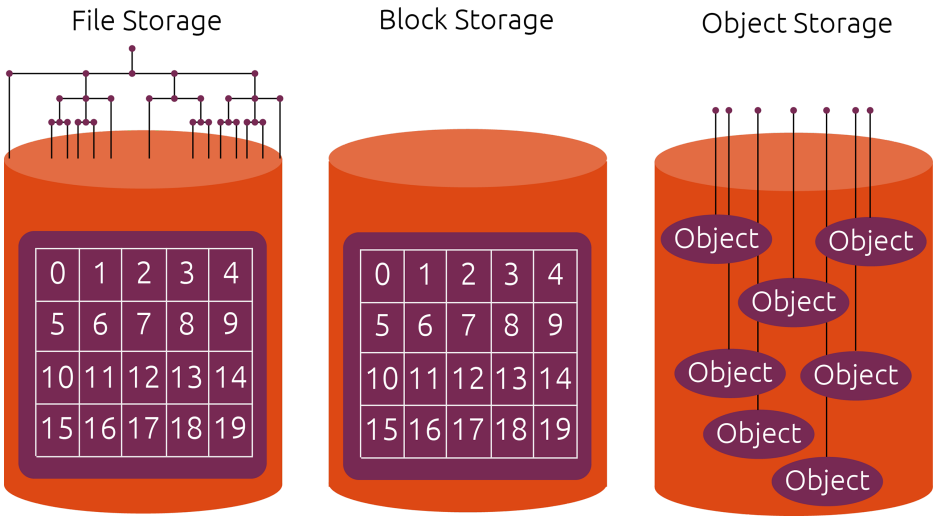


(2019). [Image]. Retrieved from
https://assets.ubuntu.com/v1/09b510e0-UAS_storage_options.png

What is a Data Source?

There are endless possibilities for what a data source could be, for example a data source is exactly what it sounds like and it is any type of source that a database could receive data from. The data that an airplane sends to an airport is remote to the airport but local to the airplane. A remote data source is a source of data

that resides anywhere except the local area where the data is being collected, processed and stored.

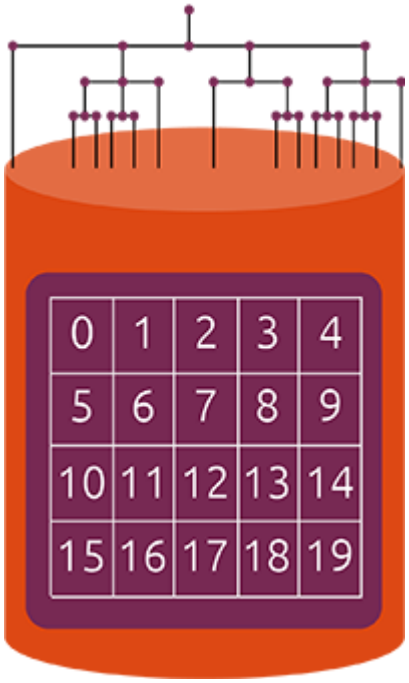
App Feature With Multiple Data Sources

An app feature with multiple data sources could be an app like Yelp. In Yelp the application gets information from users like location and date / time while also obtaining historical ratings for the current average rating of a place being reviewed. Three examples of remote data and how they are currently used in an example app could be a weather app that receives it's data from multiple locations around the world, a dating app that gets it's data from many remote users or an app like Pokimon Go, which gets it's data from user locations, gps and a maps database.

What is Data Storage?

Data storage is the collection and holding of information. Data storage is everywhere and in many different forms. One example of data storage might be a hospital keeping records of patient allergies or health conditions for later use and ease of treatment. Another example of data storage is how a website like twitter keeps your tweets as data inside a database.

Data Storage Solution 1



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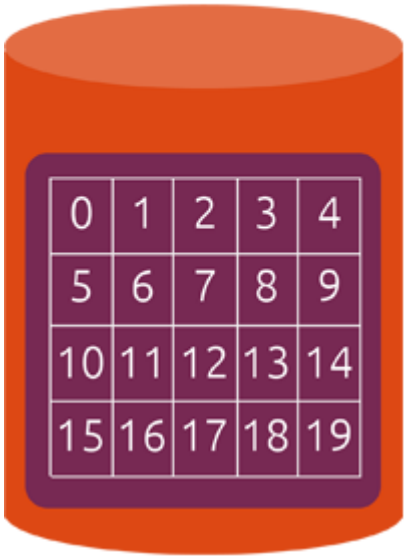
One type of data storage solution is file storage. File storage is usually inexpensive and easy to manage while the pool of files remains relatively small. File storage is commonly found on hard drives and other storage media. File storage on these devices will look the same to the hard drive as they do to the user and are highly accessible to anybody. ("What are the

different types of storage: block, object and file? | Ubuntu", 2019)

Data Storage Solution 2

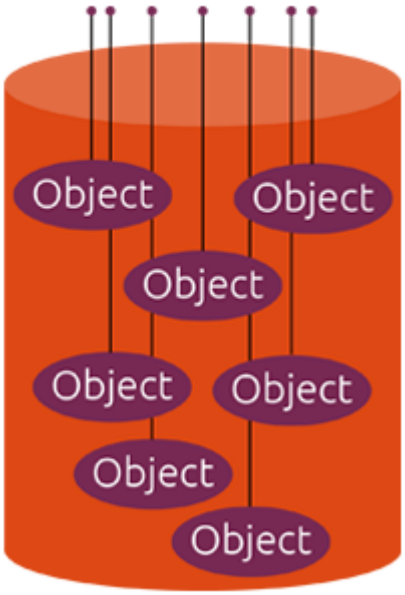


(2019). [Image]. Retrieved from https://assets.ubuntu.com/v1/09b510e0-UAS_storage_options.png

Another type of data storage is block storage. Block storage is a type of data storage that is typically used in a storage-area network (SAN) environment where data is stored in evenly sized volumes. These volumes are also referred to as blocks. Database storage is a

common use for data storage. Block storage is considered ideal for any data that must be constantly accessed and edited. ("What are the different types of storage: block, object and file? | Ubuntu", 2019)

Data Storage Solution 3



(2019). [Image]. Retrieved from https://assets.ubuntu.com/v1/09b510e0-UAS_storage_options.png

Finally another type of data solution is object storage. With object storage the data is stored as objects with metadata and unique identifiers for

retrieval. It is generally much less expensive to store data in object storage, object storage is only ideal for data that doesn't need to be edited regularly. The unique identifier makes finding data objects an easy and quick experience. ("What are the different types of storage: block, object and file? | Ubuntu", 2019)

What is Remote Data?

Remote Data is any kind of data that is taken from some location other than ones local area. Examples of remote data could be attaching a GPS monitor to a shark and then receiving the data later. Since the shark is not at your location the data held on the GPS device is considered to be remote.

Remote Data Example 1

A good example of remote data could be how Google fitness tracks people's location and speeds in relation to the user's location from a user's phones. This is remote data to google that is used to calculate exercise intensity remotely.

Remote Data Example 2

Another good example of remote data could be the accuweather forecast app which gets all of it's weather data from weather stations around the world remotely and then serves it to application users.

Remote Data Example 3

Last but not least one more example of remote data is the leader boards and in app purchase parts of game applications on the Google Play store or the Apple App Store. The data is sent to and from the user's device to the google database. The database is not local and can be retrieved remotely.

References

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