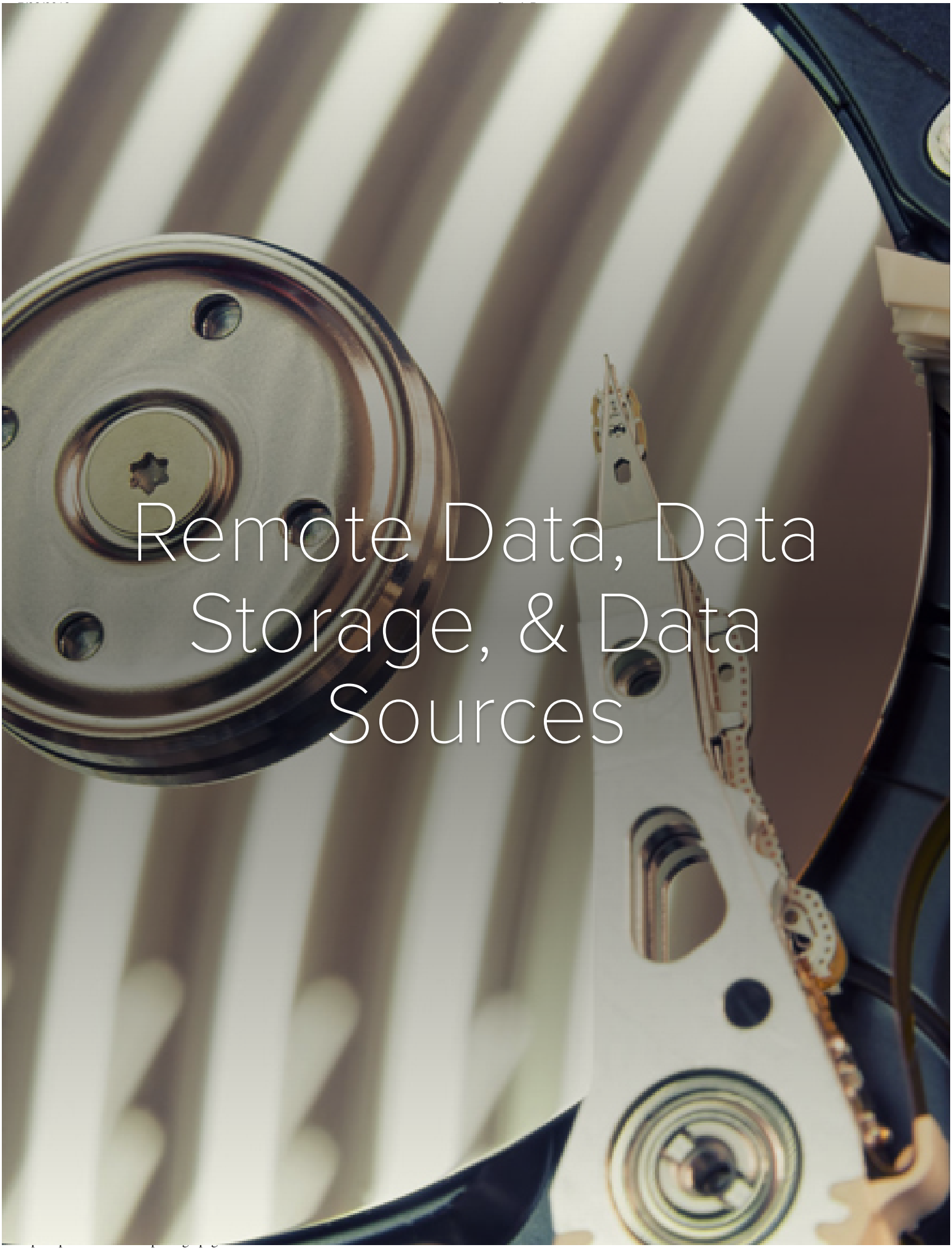
Remote Data, Data Storage, & Data Sources

By:Carlos Belardo

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What is Remote Data?

Remote data is data that is access or stored somewhere other than your own database. Whether your accessing data from a database in another state or accessing the data from another country. The database is storing remote data since it is not stored locally on your computer.

Remote Data Example 1

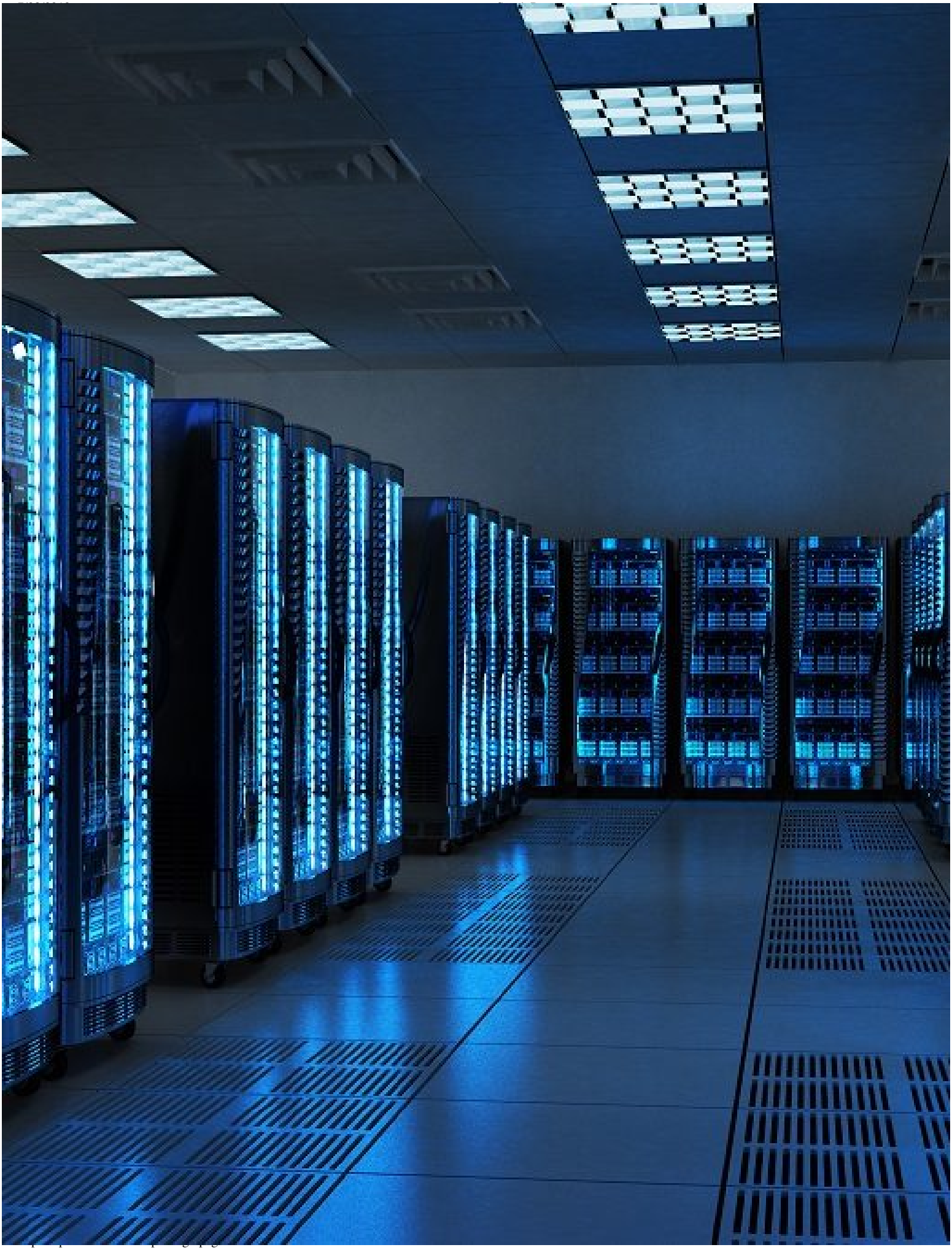
An example of remote data would be information from Google drive. Users can view data remotely through the use of a sharable link. If a folder in a users google drive is public and a link can be created and the data stored in that folder can be accessed remotely.

Remote Data Example 2

A second example of remote data and an application that uses in Facebook and its storage for photos. Facebook stores photos uploaded to its database where we can view these photos or even download them for future use.

Remote Data Example 3

The third example of remote data and an application that uses it is Twitter. Twitter stores its data through the use of an API which can be used to pull queries from twitters database and saved in a JSON format.



What is Data Storage?

Data storage as defined by Techopedia.com is a general term for archiving data in electromagnetic or other forms for use by a computer of device. Some examples of data storage are cache memory, DRAM, CDs, DVDs, USB flash drives and external or internal hard drives.

Data Storage Solution 1

One data storage solution is USB flash drives. Flash drives can be used for many different purposes such as backing up important data and transferring content from one computer to another. An application that can be used with USB flash drives is Outlook. You can back up your emails or calendar event to the USB flash drive and transfer it from one computer to another.

Data Storage Solution 2

A second data storage solution is iCloud. iCloud is Apples own application that Backs up your mobile device and stores it in their online data base. Apple makes syncing new devices seamless by syncing all of your data through the iCloud application. iCloud stores information such as contacts, pictures, messages, events, and more.

Data Storage Solution 3

A third data storage solution is database storage. Items can be stored into databases through the use of JSON files. One example of an application that can store data from JSON files is MongoDB. In MongoDB the user can use commands such as insert( ), insertOne( ), or insertMany( ) to insert a JSON file into the database.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DATA

What is a Data Source

Data source as defines by Techopedia.com in the context of computer science and computer applications, is the location where data that is being used comes from. An example of a data source for a program could be a file, a data sheet, a speadsheet, or hardcoded within the program.

App Feature With Multiple Data Sources

An example that uses multiple databases for its information is LinkedIn. LinkedIn uses Oracle as its RDBMS to manage its user data. the second database LinkedIn uses is Espresso which is LinkedIn's online NoSQL database. Espresso handles member profiles, InMail, and portions of the Homepage. The third Database LinkedIn uses is called Project Voldemort. Project Voldemort is what handles the information for detecting failure and scaling which what vital to LinkedIn due to its increasing in size as it gained popularity.

References

Gildred, J. (2018, July 11). What Is Google Drive and How Does it Work? – A 2019 Guide. Retrieved from https://www.cloudwards.net/how-does-google-drive-work/

Bisson, S. (2015, January 15). How Facebook Does Storage. Retrieved from https://thenewstack.io/facebook-storage/

Zeng, A. (2014, March 15). A beginner's guide to collecting Twitter data (and a bit of web scraping). Retrieved from https://knightlab.northwestern.edu/2014/03/15/a-beginners-guide-to-collecting-twitter-data-and-a-bit-of-web-scraping/

Marr, B. (2014, September 16). Big Data: 20 Free Big Data Sources Everyone Should Know. Retrieved from https://www.smartdatacollective.com/big-data-20-free-big-data-sources-everyone-should-know/

Data Storage. (n.d.). Retrieved from https://www.techopedia.com/definition/23342/data-storage

Rouse, M. (2018, May). Data Storage. Retrieved from https://searchstorage.techtarget.com/definition/storage

Alexander, P. (n.d.). Choosing the Best Data Storage Solution . Retrieved from https://www.entrepreneur.com/article/172226

deAgonia, M. (2017, August 11). How Apple iCloud works (and what to do when it doesn't) . Retrieved from https://www.computerworld.com/article/3215269/how-apple-icloud-works-and-what-to-do-when-it-doesn-t.html

How to use JSON with a Document Store Database. (2017, August 11). Retrieved from https://www.quackit.com/json/tutorial/json_with_database.cfm

Auradkar, A. (2015, January 21). Introducing Espresso - LinkedIn's hot new distributed document store. Retrieved from https://engineering.linkedin.com/espresso/introducing-espresso-linkedins-hot-new-distributed-document-store

Kreps, J. (2009, April 1). Project Voldemort (Part II): How it works. Retrieved from

https://blog.linkedin.com/2009/04/01/project-voldemort-part-ii-how-it-works