

Let's have a look at the data generated per minute
on the internet



"2.1Million"



"3.8Million"



"1.0Million"



"4.5Million"

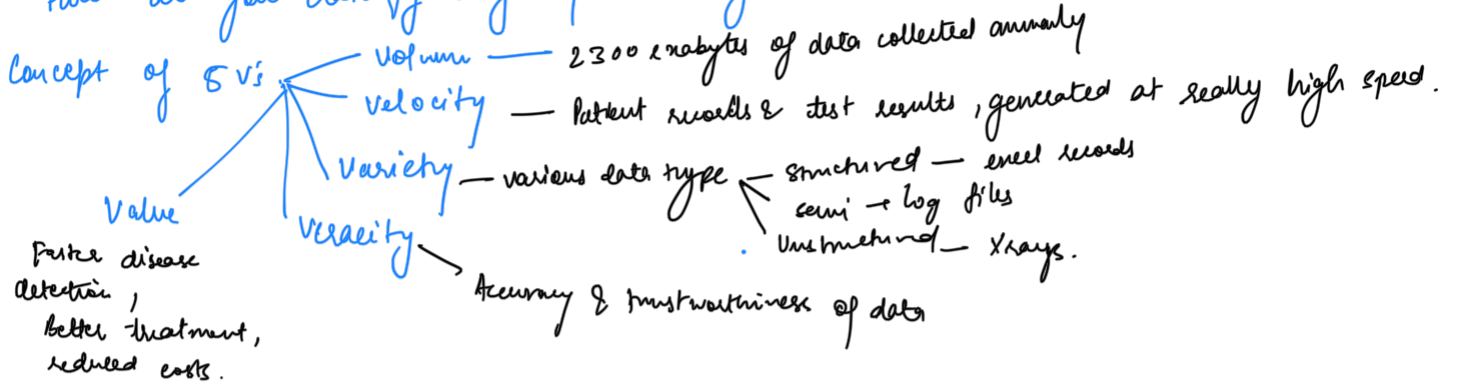


"188Million"

That's a lot of data

Big Data

How do you classify anything as big data.



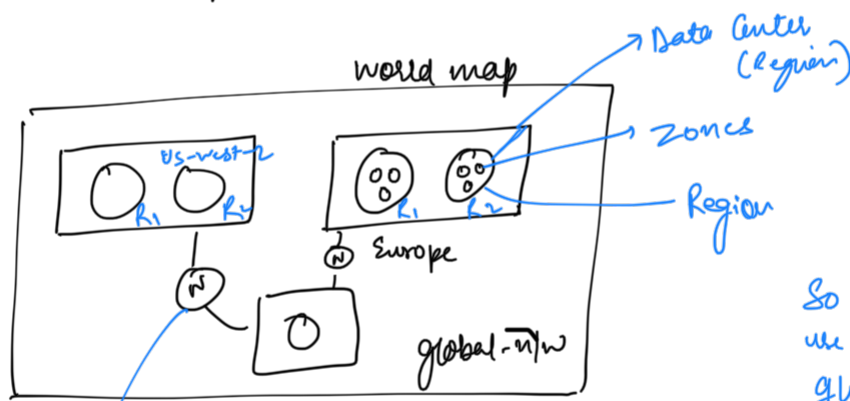
→ It can be incredibly hard to scalably ingest, store & analyze that data as it rapidly grows.

Bigquery: was designed to make large-scale data analysis accessible to everyone.

- Storage → Perfect for BigData as BQ manage all storage & scaling ops
- Ingestion → upload data from cloud storage / excel,
- Querying → supports SQL

Optional

GCP



google has
20 Regions
↓
61 Zones

- ① Network (global resource)
- ② Regional resources could be a Sub-network

→ Subset of global network
when a global n/w comes & tries connecting to regional resources

it will divide the particular n/w into multiple networks

breaks parent n/w into multiple child n/w

- ③ zonal resource

So whatever service you use is either a
global resource,
regional resource,
zonal resource

○ <https://cloud.google.com/about/locations#regions>

References:

BigQuery:

- https://www.youtube.com/watch?v=d3MDxC_iuaw&ab_channel=GoogleCloudTech
- https://www.youtube.com/watch?v=StEuT-pntZQ&ab_channel=GoogleCloudTech
- https://www.youtube.com/watch?v=Abzj-Vyhi74&ab_channel=GoogleCloudTech

Service Account

→ Special account that can be used by an application or VM but not user

In google console

At user level →  email + admin → GCP Services

But at application level



- Your application uses the service account to call the Google API of a service, so that users aren't directly involved.
- Service account belongs to the user rather than an individual end user