

1) What are the main challenges related to data storage in IoT?

How accurate does data need to be? Amount of data, same thing as before how much data do you need for the use case. Do you need temperature every second vs every 15 seconds? Where is the data? is it in the cloud or local storage in hot or cold? Inside the EU or outside of it? Data quality and complexity of using different sensors in the same analysis there will be differences in raw data that need to be solved so data can be used to gather.

2) What is the difference between structured versus unstructured data

Structured data has a defined structure like a booking database, which must know rows and columns. Unstructured data can be text files or IoT sensor data in its raw form. You will just have huge storage with data mined saved there waiting for more analysis.

(<https://www.ibm.com/cloud/blog/structured-vs-unstructured-data>)

3) What is edge computing and why it is beneficial in IoT?

Edge computing is the processing of data that happens closer to the sensor. So, the whole raw sensor data is not sent but it can be analysed closer for example in the local network. This can have the effect of lower data usage and transfers as file sizes are smaller. The device can work with lower latency if it can

handle some function on local data and doesn't need to check the cloud for every tick.

4) What is big data?

In simple terms, its data set what is too large or complex to analyse normally. It also includes a lot of useless data what needs analysed to find the important data. But a moment later the now the useful data is useless one needs to analyse it again as the data is growing all the time. There are a lot of V's that can be tough to be "guidelines" for big data:

- Volume, more than terabytes of data
- Variety, it's not just structured data but also include unstructured data
- Veracity, how accurate and trustworthy is the collected data
- Velocity, how fast in data generated
- Value, the value of information inside the data
- Variability, what is the format or source of data.

(https://en.wikipedia.org/wiki/Big_data)