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# Data Centers

## **Data Centers:**

Facilities that house servers, networking systems, and components that a company needs to process data.

So if you take Google for example, they have a massive search engine that has to accommodate 3.5 billion searches per day.

That is an insane amount of data to process, and Google also has an insane amount of data stored in order to provide relevant results to all of those searches.

Seeing as Data Centers are so vital to the operations of many companies, they are often heavily protected and the same data is often saved in multiple locations.

If anyone has seen the cyber security show Mr. Robot, Elliot and his team try to wipe out all 3 of the data centers for a major credit card company, so that they can effectively erase all of the debt.

## **What companies have them, and why?**

Can anyone guess?

Regardless of the size of the data a company has, every company's success invariably depends on smooth software operations.

Companies from Amazon all the way to UPS depend on Data Centers in order to provide services to their customers.

## **Any impacts?**

Having so many computers, of course, requires huge amounts of electricity, and maintaining so many servers requires sufficient cooling.

Because of this companies over the past few years have been making the shift towards using more renewable energy to ensure the efficiency

of the centers and to offset the impacts to the environment.