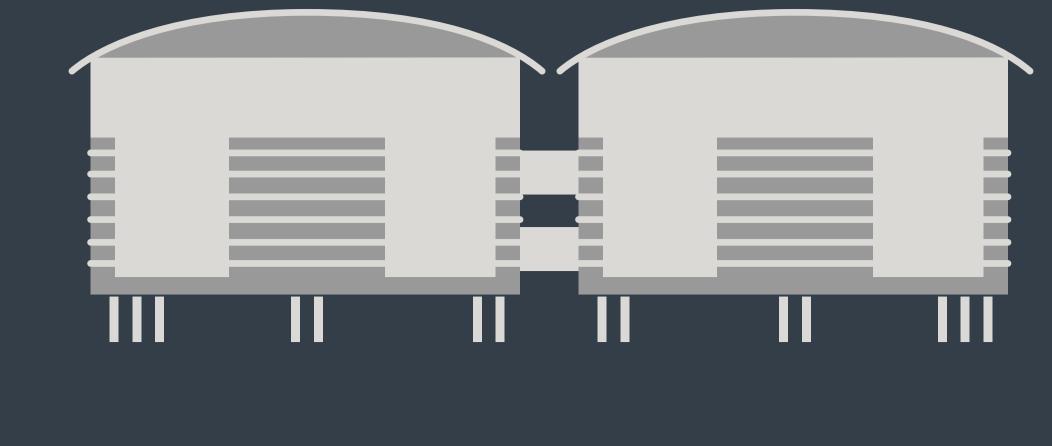
DATA CENTRE?

But more importantly, why does it matter to you?



a hugely techie building full of electric filing cabinets. You probably think they are really expensive and

If you've ever heard of a data centre, you might be thinking of

use a huge amount of electricity? Put simply, a data centre is a large

warehouse full of computers

DATA CENTRES DO FOUR KEY THI

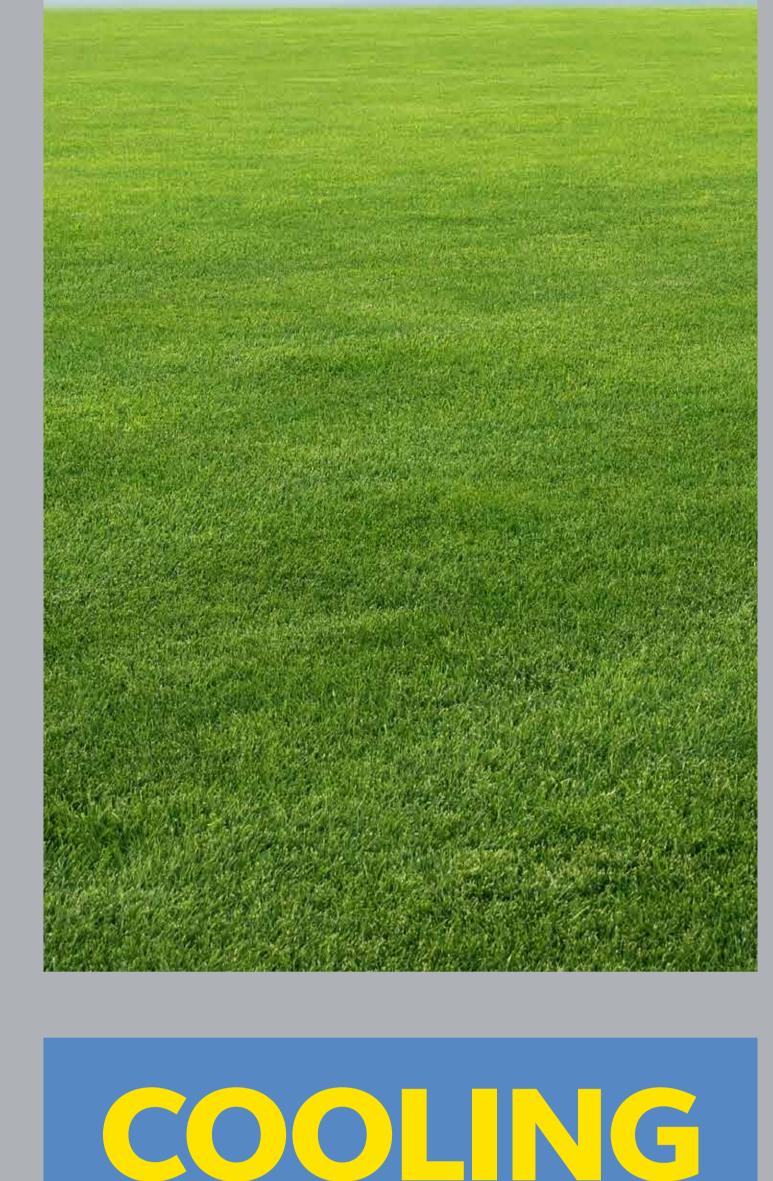
FOR RACKS

Inside the data centre are hundreds of rows of racks.

Each rack is full of computers often called servers.

The servers do lots of different

things. Some are storage, some are running applications and some are making calculations.



ELECTRICITY FOR THE COMPUTERS

POWER

These servers are very powerful and therefore need

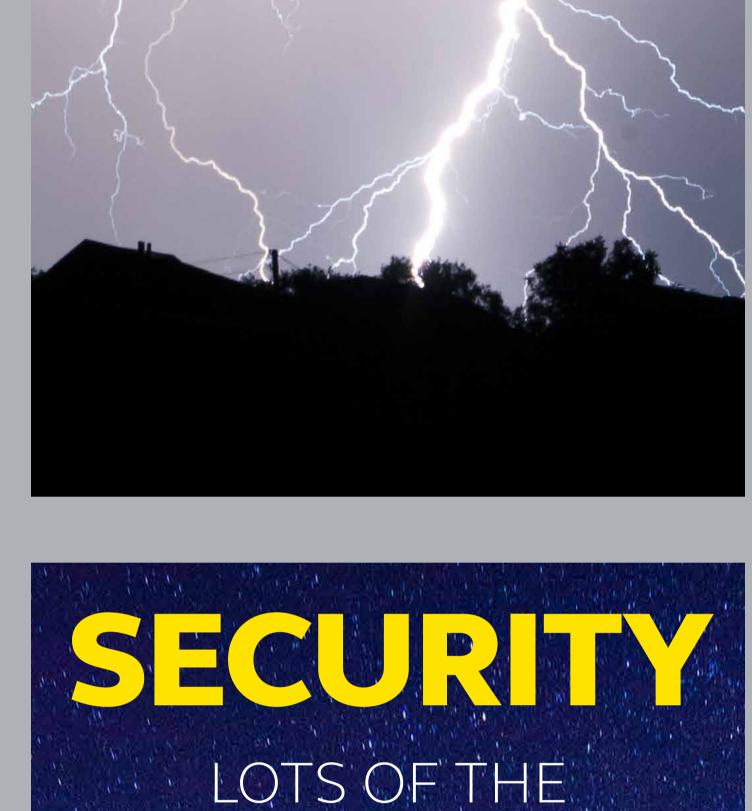
lots of electricity to run

them. Not only this, but lots of the servers are running operations that must never

be interrupted. Therefore,

data centres are built to

never have power cuts. To stop this happening, they have batteries and generators in addition to the power from the grid. We call these buildings 'resiliant'.



Like the computer on your desk, the servers in data

THE COMPUTERS

MAKE LOTS OF HEAT

centres get hot. So due to the huge amount

of computers, there is a massive amount of heat generated.

So data centres need to have

equally powerful cooling

(just like air conditioning).



INFORMATION IS VERY PRECIOUS

Data centres hold a huge amount of information. For example, all high street banks use data centres.

live in a data centre. So to stop anything being stolen, data centres have military style security:

Security fencing, Trembler

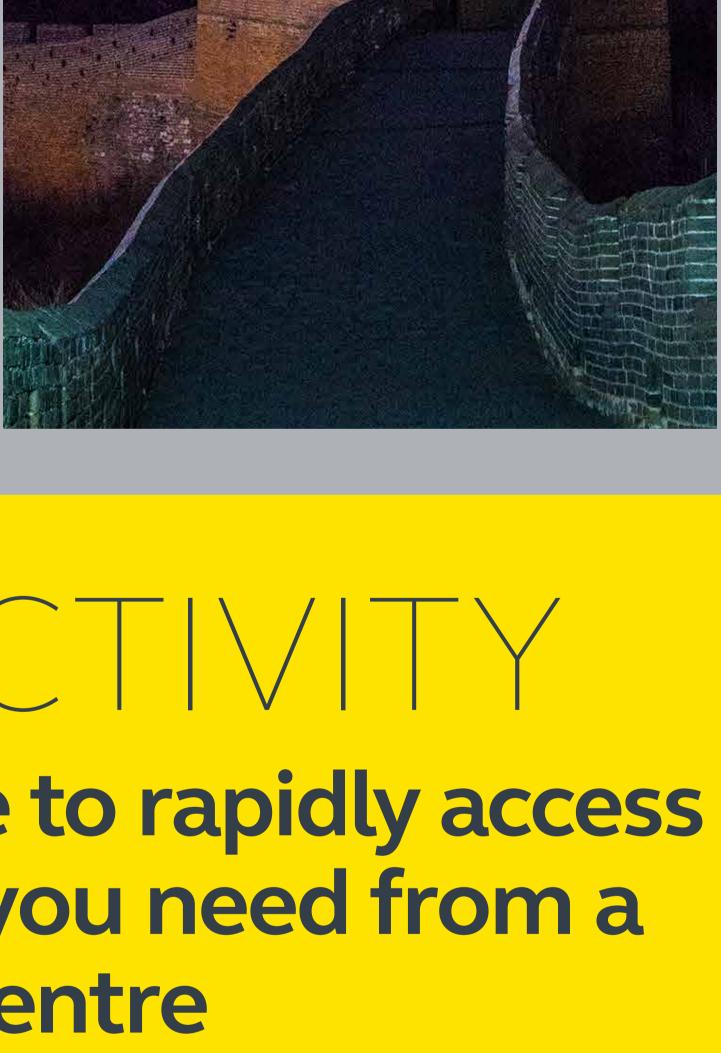
wire, Biometric access

(finger print or iris scanning),

Therefore, your bank details

Specially trained guards, Man traps & CCTV. As well as this, there are different layers of digital security, such as DDoS

mitigation.



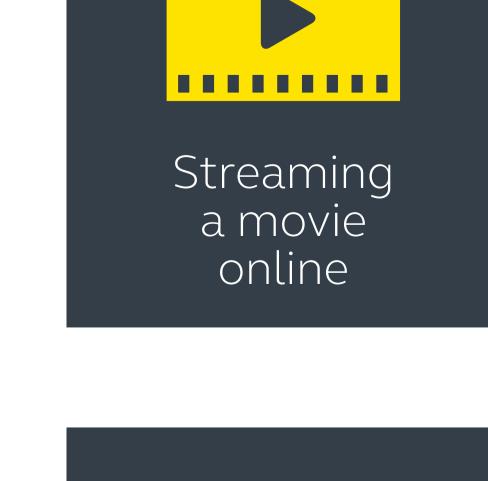
Data centres are connected to the world through thousands of miles of fibre optic cables. These span the globe traveling under the seas to link up the world.

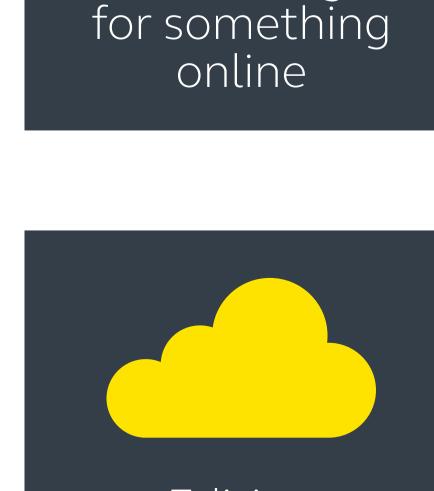
you anywhere. Meaning you can access your files from your office, on the move or at home in less than a second.

This can be done through the internet or through private networks.

The connectivity that data centres offer is super-fast and can get

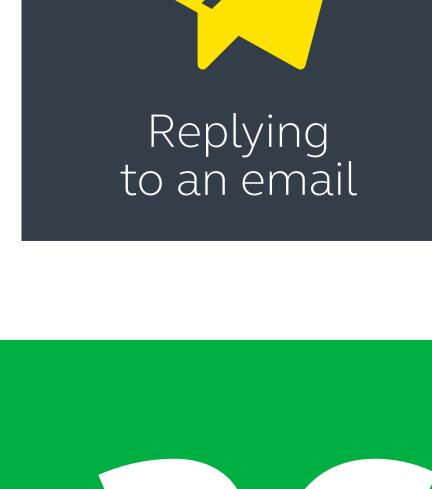
The answer is yes and not only that, but you probably use one every day



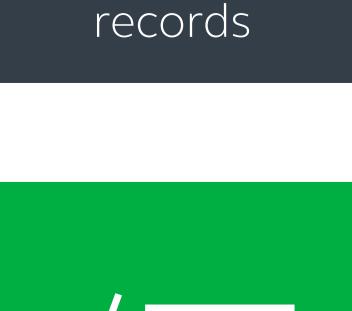


Searching









of your medical

Data Centres