

HOW THE CLOUD WORKS

THE CLOUD EXPLAINED

CLOUD STORAGE

VS

CLOUD COMPUTING



Cloud storage is the aspect of storing your files and other data offsite, either for general storage purposes or as backups.

POPULAR CLOUD STORAGE PROVIDERS INCLUDE:



GOOGLE DRIVE



DROBOX



MICROSOFT ONE DRIVE



ICLOUD



Cloud computing is running applications over the internet, through a virtual desktop, like with the Adobe Creative Cloud.

Your data is stored offsite



- Not on your hard drive

- Not on your local servers

A cloud provider hosts your data on their physical servers, or on a virtual server.

HOW TO ACCESS THE CLOUD



Have a secure internet connection on any device, including computers, phone, tablet, or server.



Access your files or software wherever you are.



Log into the cloud storage or computing system you're already set up.

YOUR DEVICES, THE CLOUD, AND HOW THEY INTERACT

FRONT END



Computer user (you) or the client



Consists of computer or computer network



Access for the cloud computing system

BACK END



The System



Multiple computers, data storage systems, and servers



May include a variety of computer programs

\$209.2 B TO \$246.8 B



Demand for cloud storage and cloud-based software services is projected to grow 18% in 2019 \$209.2 billion to \$246.8 billion in worldwide revenue

SECURING THE CLOUD

SOFTWARE SECURITY

On the software side, a lot of the security is up to the client to implement



This includes managing life cycle of instances, new and old



Monitoring internal computer networks and machines



Following compliance regulations for your industry

On the cloud server side, typical IT-related redundancies and security measures are in place



Firewalls



Auto-redundancy protection



Intrusion prevention



Integrity monitoring and logging



Protection against distributed denial of service (DDoS) attacks



Data storage and transfer encryption



Many cloud providers store backups in multiple locations



Backups are stored in places protected by fire suppression and smoke detection systems



Data storage buildings are secured against intruders



Emergency backup power systems are also in place in most data centers

Through 2020, cloud computing spending is estimated to grow more than 6x the rate of IT spending

2020



IT SPENDING

3 CLOUD COMPUTING TRENDS FOR 2019



Hybrid and multi-cloud platforms are becoming more common



More and more companies are adopting cloud-based AI and machine learning



SaaS will continue to be the growth leader of cloud service, the spending for which is expected to hit \$113 billion by 2021

RESOURCES

- <https://www.zdnet.com/article/top-cloud-providers-2018-are-ibm-oracle-amazon-google-cloud-aws-which-should-you-choose-downloads.com/>
- <https://www.fasttrack.com/blog/tech/what-is-cloud-computing/>
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