Understand the Cloud



May 10, 2018



"I don't need a hard disk in my computer if I can get to the server faster...carrying around these non-connected computers is byzantine by comparison."

Computing on the ground

Do you remember...

When computers were defined by processor speed, storage, and memory?

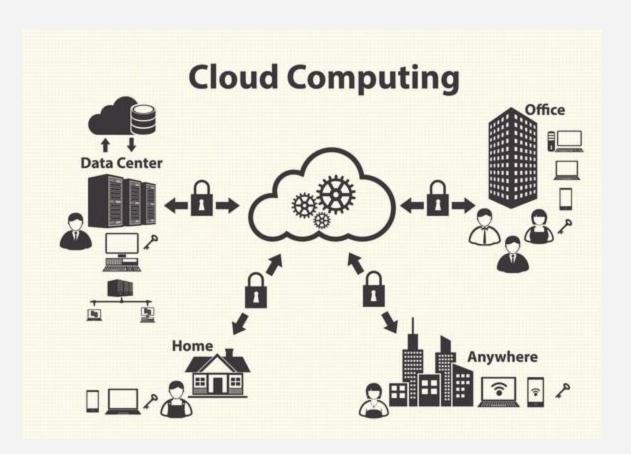
Or what it was like buying, installing, and updating software?

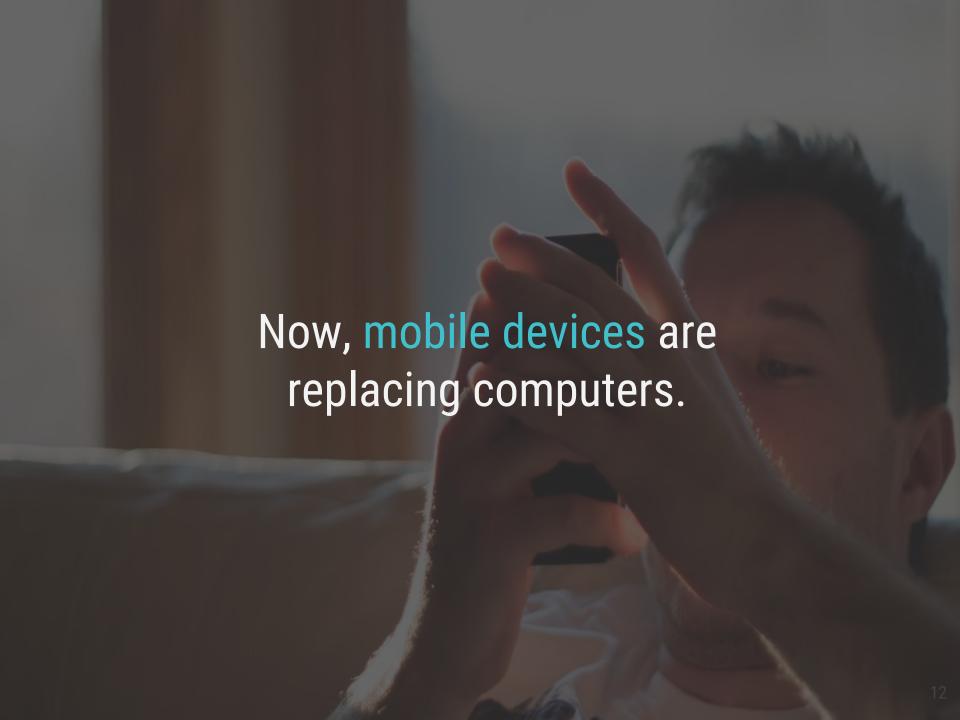
When you suddenly had gigabytes of digital photos and music to store?

So, you bought a bigger hard drive to store them.



Computing in the cloud

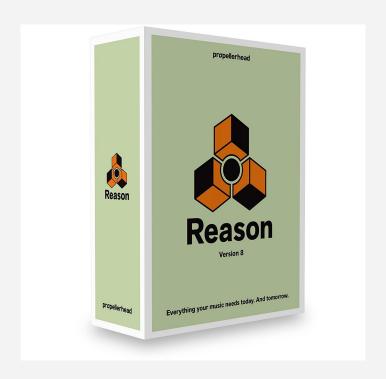




Connectivity to the network is more important than computing power.

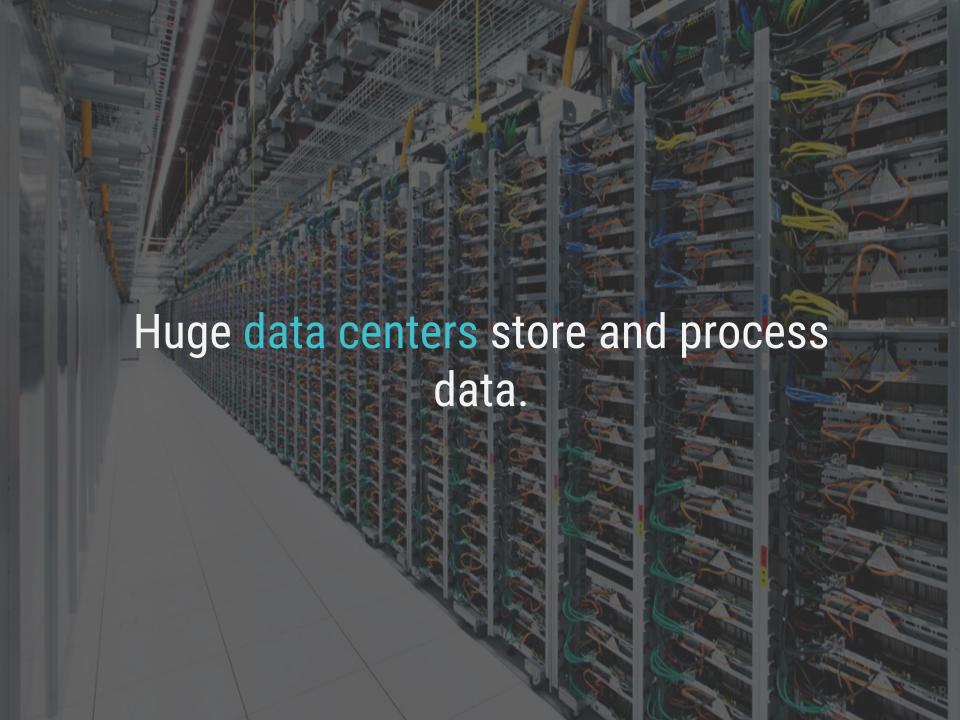
We use web browsers to communicate, work, create, and play.

Web-based software is instantly available, always up-to-date.



Reason Update Available! (Version 9.2.2d1) More Info Download Not Now

We create accounts to use software for free (or with monthly fees).



Files are backed up across multiple locations, sometimes around the world.

Types of cloud computing

Software as a service (SaaS)

TurboTax online
Google Drive
Salesforce CRM
Reason (music software)

Platform as a service (PaaS)

Google App Engine Amazon Elastic Beanstalk Heroku

Infrastructure as a service (laaS)

Google Compute Engine Amazon EC2 & S3 Microsoft Azure

Examples of cloud computing

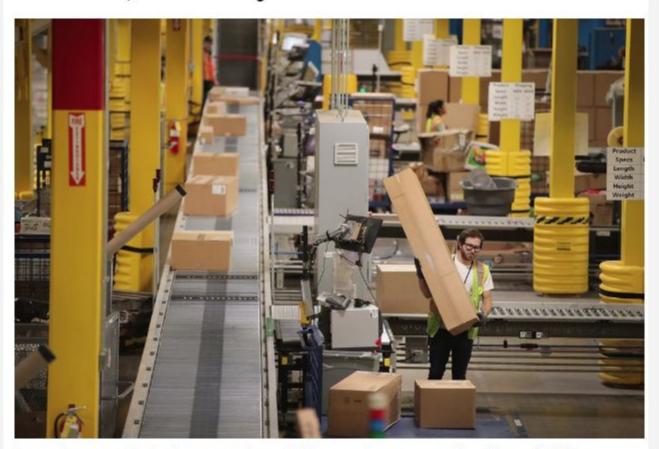
Hosting email with Office 365

"Some people have very large mailboxes, so we can save money on storage by moving that content to Microsoft Office 365 rather than keeping it on our storage area network."

Using <u>Amazon Web Services</u> for infrastructure



Amazon's Profit Swells to \$1.6 Billion, Lifted by Its Cloud Business



Amazon's revenue for the first quarter jumped 43 percent from a year earlier, rising to \$51 billion from \$35.7 billion in the same period last year. Scott Olson/Getty Images

Benefits of cloud computing

PEOPLE

Spend less time managing a computer.

Your files are always available.

Use devices that suit each situation.

Benefits of cloud computing

COMPANIES

Focus on core business not managing infrastructure.

Easily scale services to meet demand.

Small companies access vast resources of mega companies like Amazon and Microsoft

Drawbacks?

Control, access, and cost

Security and the cloud

Is the cloud secure?



Thank you!



