Connecting Millions of Mobile Devices to the Cloud





Couchbase

PHYSICS

So you want to take your data with you?

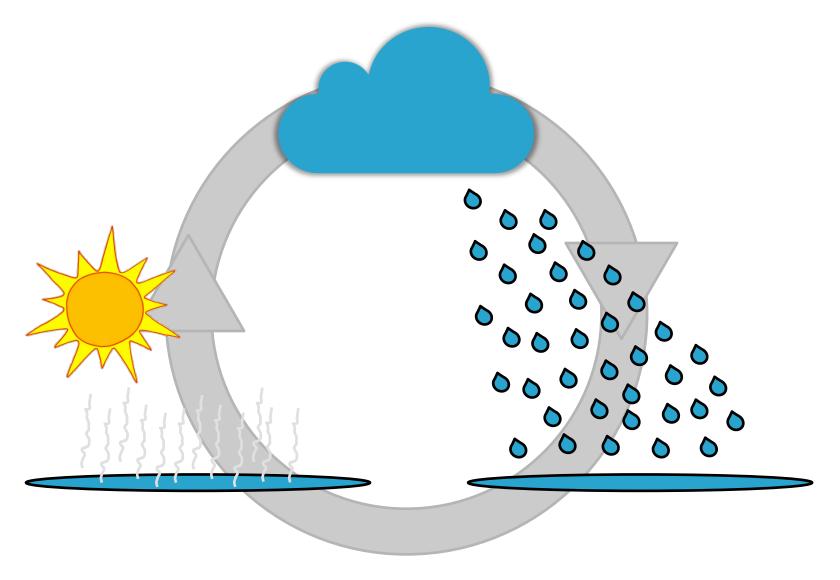
data

...then you are going to have to move it.



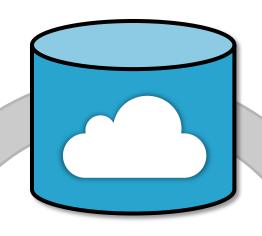
THE WATER CYCLE

The water cycle



Fun fact: In 20 minutes, one thunderstorm can drop 125,000,000 gallons of water.

The water data cycle



<u>1010101010400</u>10101010101000101010101 D1010101000101010101 D1010101000101010101 D1010101000101010101 b1010101000101010101 Panerai has created b1010101000101010101 b1010101000101010101 their strong aesthetic 11101011010110100010:

Increasingly, it starts and ends with a mobile device





Actually, it starts and ends with a LOT of mobile devices

Mobile-broadband subscriptions have grown 45% annually over the last four years and today there are twice as many mobile-broadband as fixed-broadband subscriptions.

The number of mobile-connected devices will exceed the world's population in 2012; and monthly global mobile data traffic will surpass 10 exabytes in 2016.

Fun Fact: By the end of 1999, the sum of human-produced information (including all audio, video recordings and text/books) was about 12 exabytes of data, according to Berkeley study.

GUNS, GERMS AND STEEL

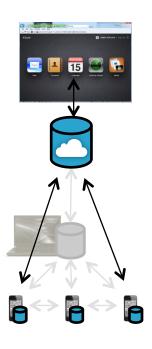
Make farming data work



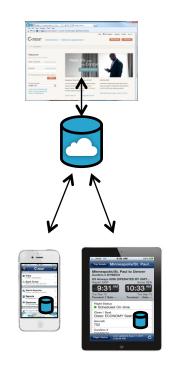
Make intelligence data work



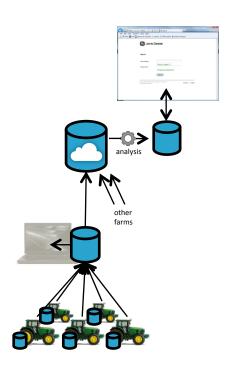
Connecting millions of mobile devices to the cloud



Type 1 backup and sync my stuff

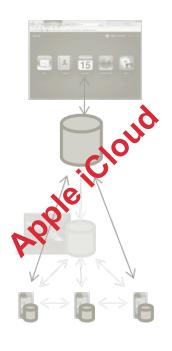


Type 2 sync relevant portion of a database

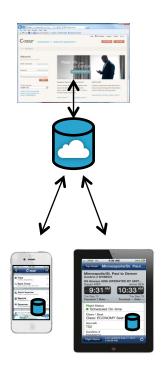


Type 3 collect machine-generated data

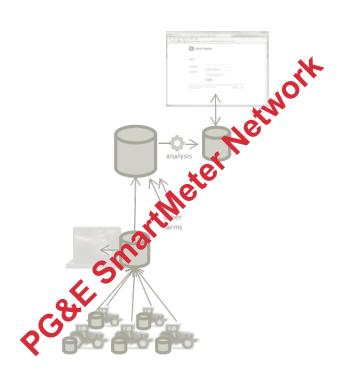
We'll focus on Type 2



Type 1 backup and sync my stuff



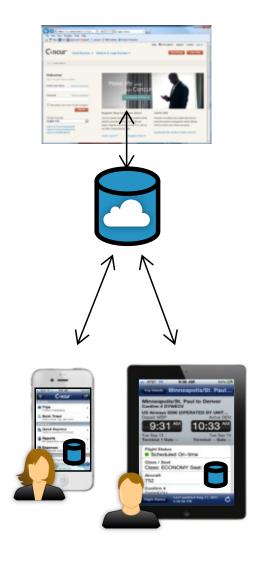
Type 2 sync relevant portion of a database



Type 3 collect machine-generated data

SLAYING DRAGONS

Type 2 Mobile Sync



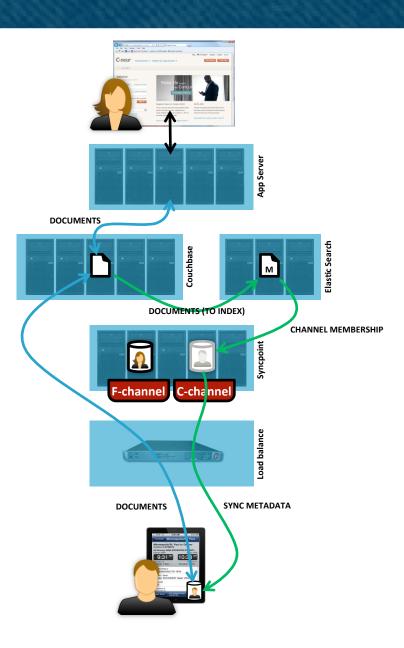
The ultimate home of the data for a business application is not on the device, but is a central data store in the cloud.

Here there be dragons

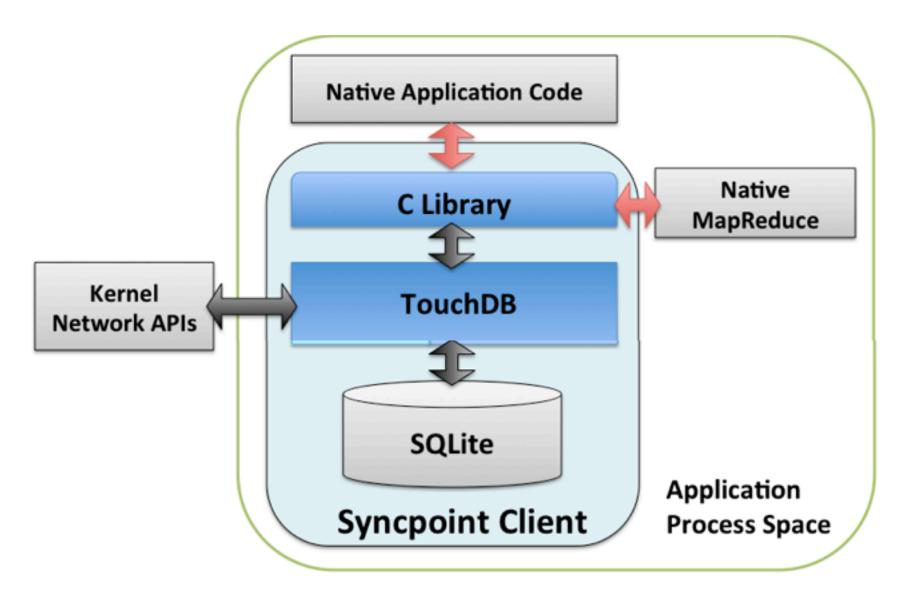


Conflict detection and resolution

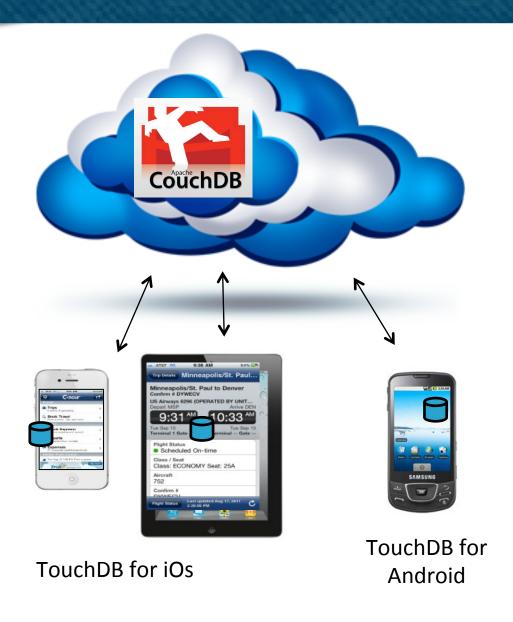
A multi-tier, scalable type 2 sync architecture



TouchDB – Foundation for Syncpoint



TouchDB Betas – Works with CouchDB Today



Not a complete product but a functional open source projects with production deployments.

Open source, and available from Couchbase labs.

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