





Outline

- Overview
- □ Server side
- Client side



PiCaS overview

- Pilot job system
- Token pool server
- Based on CouchDB
- Python client library



Server side

- □ Needed: a queue
- ☐ Flexible data structure
- □ Accessible



CouchDB

- Document database
- Dynamic data model
- Restful API
- GUI on VM: http://localhost:5984/_utils
- Website: http://couchdb.apache.org/
- Guide: http://guide.couchdb.org/



CouchDB documents

- □ Key Value pairs
- Database defined:
 - _id: unique identifier, can be set when creating the document
 - _rev: revision number, used for detecting collisions

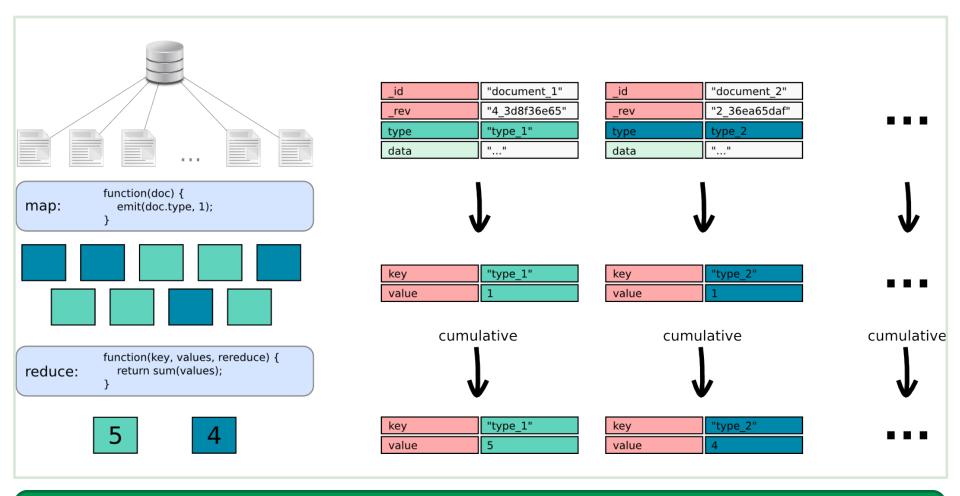


CouchDB views

- Extract, transform and combine data from documents
- □ Based on Map/Reduce
- Javascript or Python



CouchDB views (2)







CouchDB design documents

- Containers for views
- Updates all views in one go

