



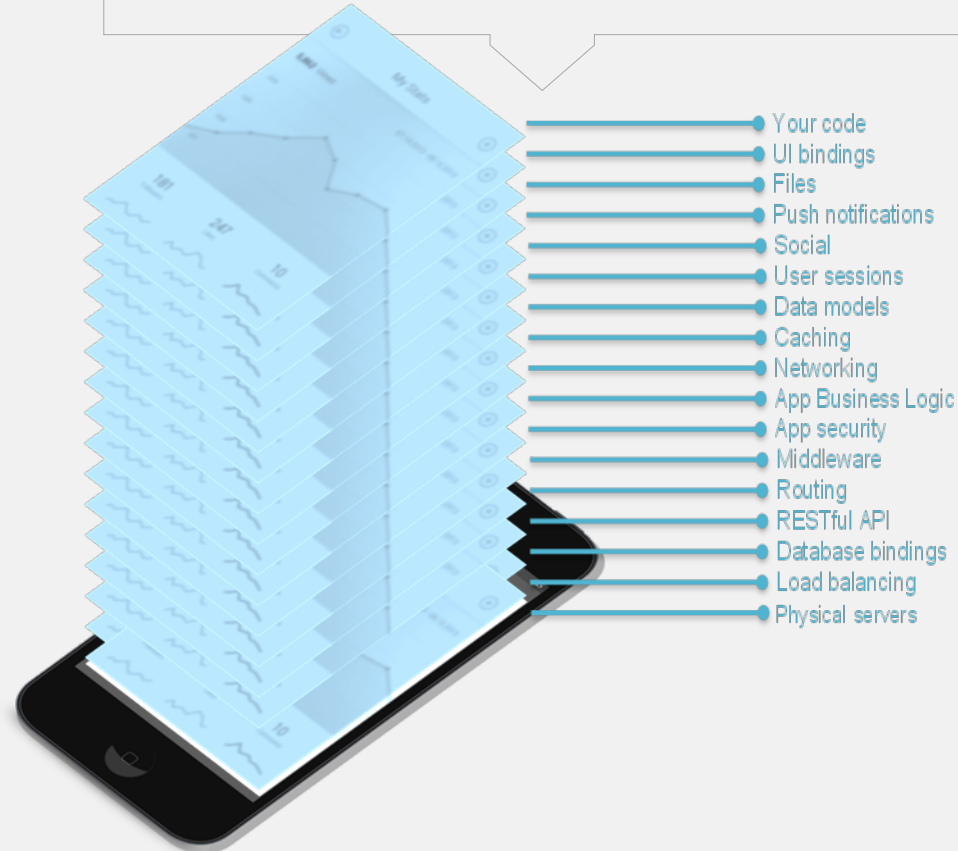
CLOUD COMPUTING APPLICATIONS

Mobile Backend as a Service

Roy Campbell & Reza Farivar

Why MBaaS?

When you are thinking to develop a new app, you have lot of steps like server setup, database creation, routing, social integration, UI binding, file management, etc. that need to be solved:



Just imagine, you focus only on your frontend code and the rest will bind together as a service as follows:



Introduction to MBaaS

- General idea: mobile apps need common services that can be shared among apps instead of being custom developed for each
- Enable web and mobile app developers to link their applications to backend cloud storage and backend APIs
 - Cloud storage
 - User management
 - Push notifications
 - Integration with social networking services
- Provide all of these in a one-shop model

MBaaS Examples

- Appcelerator, AnyPresence, Appery, Built.io, FeedHenry, Kinvey, TruMobi, Apple CloudKit (iCloud), etc.
- Many commonalities
 - E.g. many use MongoDB to serve JSON objects
 - REST API common
 - MicroServices
 - DevOps
 - Frontend design framework
- Different levels of enterprise integration
- Either on-premise or in private clouds
- Some support compliance with HIPAA, PCI, FIPS, and EU data security standards