

Anything as a Service (XaaS)

TIE-23600 Palvelupohjaiset
järjestelmät

Anything as a Service (XaaS)

- Besides the more traditional IaaS/PaaS/SaaS, various other "as a Service" concepts have been introduced
- Eg.
 - Backend as a Service
 - Database as a Service
 - Humans as a Service
 - I.e. crowdsourcing
 - IDE as a Service
 - ...

Backend as a Service (BaaS)

- A lot of mobile and web applications need similar features
 - User management
 - Data storage
 - Integration with 3rd party applications
 - Push notifications
 - Versioning, analytics
 - ...
- BaaS providers offer these (= the backend) as a service
 - To be used by application developers
 - Saving them the problem of backend implementation (on PaaS or IaaS)
 - SDKs for various environments
 - Web, Android, iOS, Windows Phone, ...
 - + often a REST API
 - Eg. [Parse](#), [FireBase](#), [Kinvey](#), ...
- BaaS does not provide the application runtime environment

Eri BaaS-tarjoajiin voi tutustua vaikka TTY:llä järjestetyn BaaS-seminaarin esityksistä:
<http://www.cs.tut.fi/~taivala/kurssit/BaaS2013/>

Database as a Service (DBaaS)

- A database on the cloud
- SQL or NoSQL
- Often offered as a part of PaaS
 - Eg. [Google App Engine](#) Datastore, [Amazon DynamoDB](#), [Microsoft SQL Azure](#)
- Or independent
 - Eg, [ScaleDB](#), [BitCan](#)

Humans as a Service

- Subdividing work into small tasks to be performed by large group of people
- AKA crowdsourcing
- Either
 - For money
 - Eg. [Amazon Mechanical Turk](#)
 - Voluntarily
 - Eg. [YLE: merkitse vaarallinen risteys](#)
 - By some other incentive
 - Eg. [reCAPTCHA](#)

IDE as a Service

- Integrated development environment as a Service
- Besides offering the application runtime environment (PaaS), offer a full set of tools for developing the applications on the web
 - Code editor
 - Debugger
 - Version control
 - Collaboration
 - ...
- Eg. [Cloud9](#), [Codebox](#)