

IBM Cloud Workshop

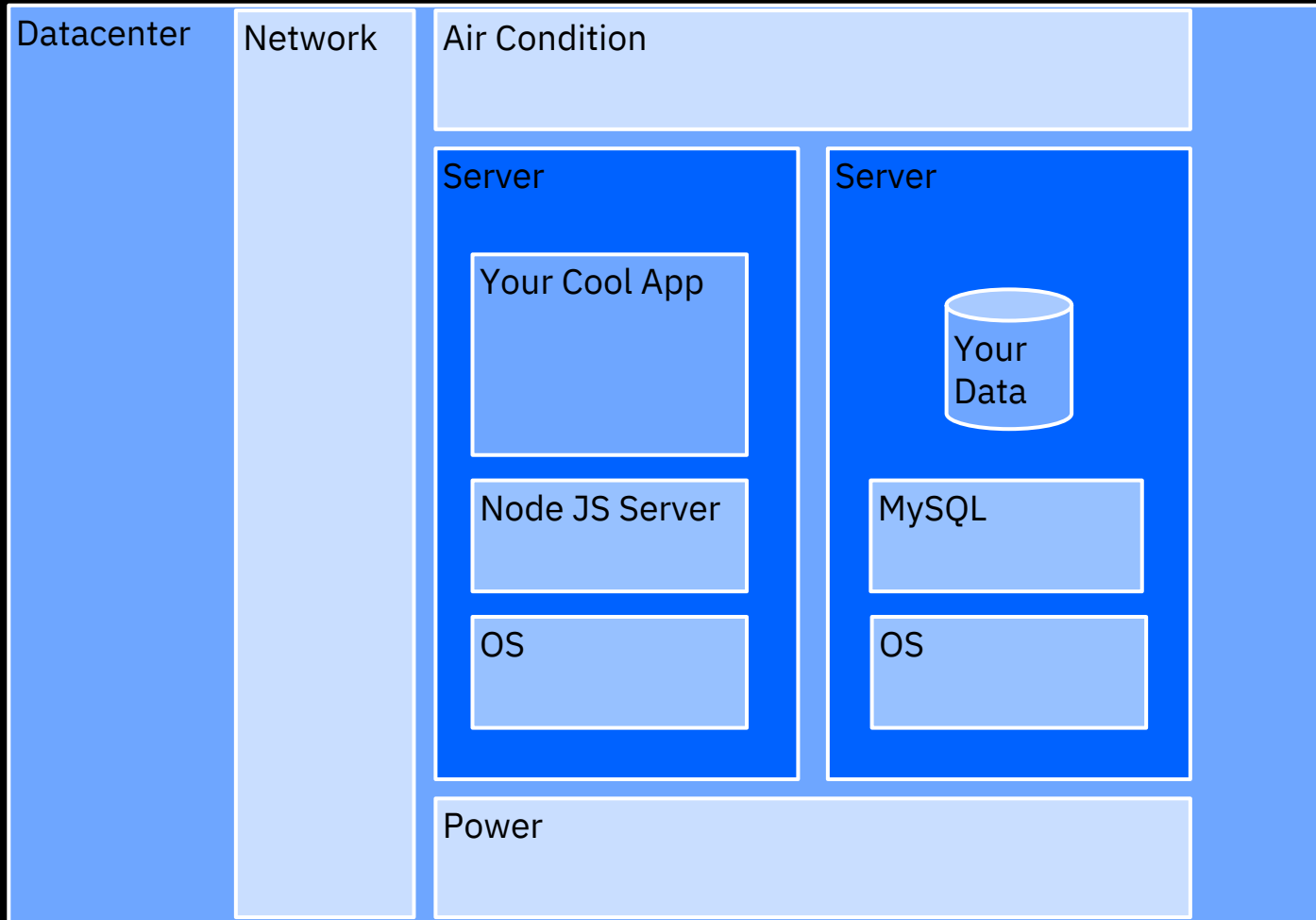
Hochschule Reutlingen

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Marc Schwind
Enrico Regge
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Why Cloud ???

Thought Experiment

No Cloud !!

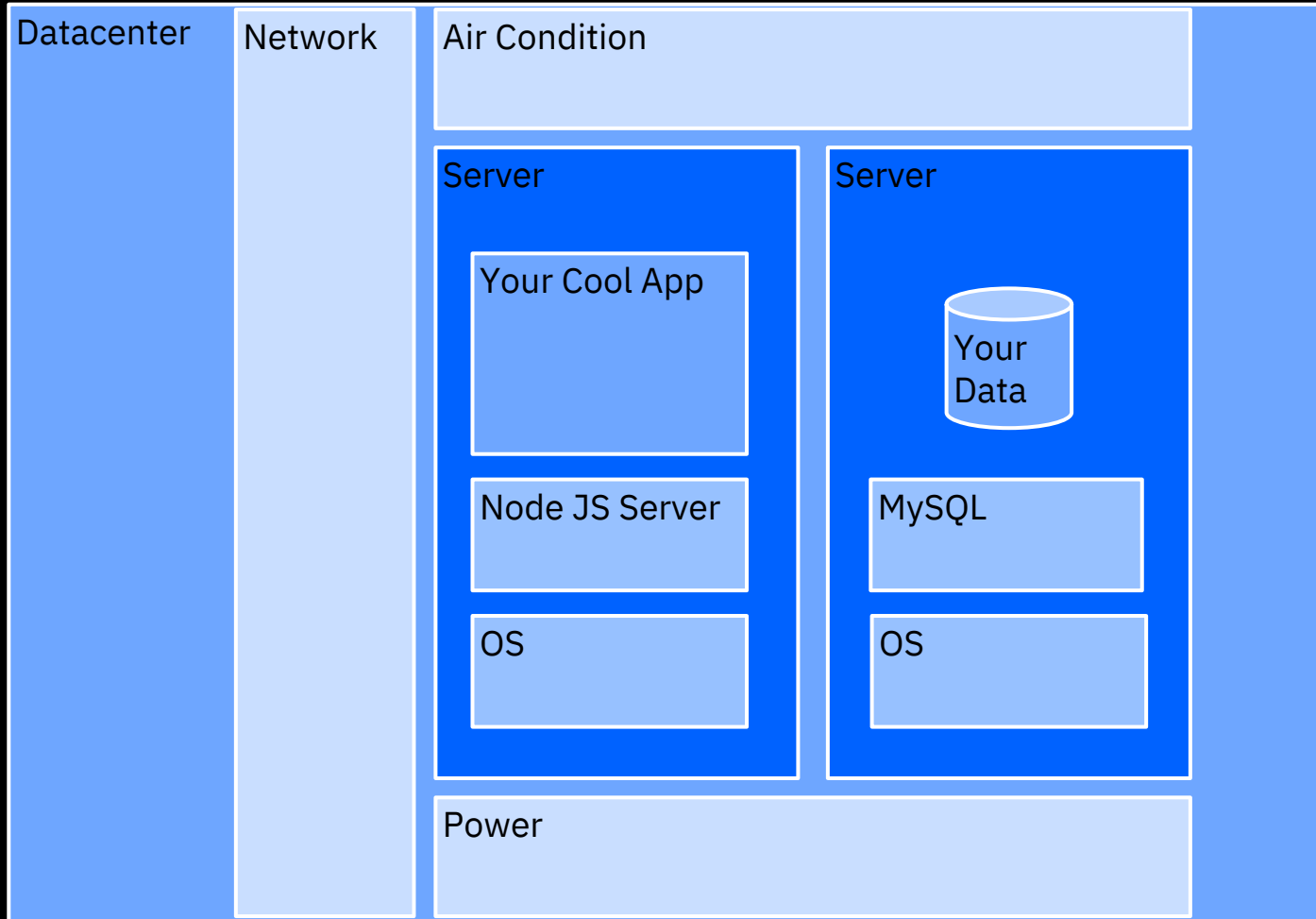




Back to Reality

IaaS

Infrastructure as a Service



PaaS

Platform as a Service

SaaS

System as a Service



Your Cool App

Node JS Server



MySQL



One more Thing

FaaS

(aka Serverless)

```
function main(params) {  
    return { message: 'Hello World' };  
}
```

Exposed via API or started by Event

No cost when not invoked

Scales automatically

Sequences to combine actions

OpenWhisk Dark Vision

openwhisk-darkvision.mybluemix.net/#!/videos/079754bacc4f92998d630d9e97bf3f26

OpenWhisk Dark Vision

← All Uploads

How to trick yourself into good behavior - Bob Nease - TED Institute

Video Frames (16)

Video overview

Filter image frame

00:00


00:48

01:36

02:24

03:12

04:00



Video Overview

Frames: 16

Entities: 5

Keywords: 63

Concepts: 8

Face Detection

No known face detected

Image Keywords

person 87%

decision maker 67%

coal black color 99%

master of ceremonies 84%

entertainer 87%

light blue color 71%

woman 65%

red carpet 81%

rug 81%

floor cover 81%

Audio Keywords

good intentions 97%

new york times 80%

petsmart charities 73%

right thing 72%

conscious processing ca

important health behavior 67%

Kim Kardashian 67%

bad intentions 67%

early twentieth century 67%

rever

candy dish 66%

homeless pets 66%

clear candy dish 65%

wrong choice 65%

bits 62%

bits limitation 61%

behavior change 61%

HESITATION DESY 61%

conscious throughput 60%

biggest thing 60%

siren song 60%

awful creatures 60%

Ryan Seacrest 60%

successful dieting 60%

bees wax 60%

tempting carbs 60%

st

conscious choice 59%

classical music 59%

unborn children 59%

self defeating 59%

daily lives 59%

cap

odious Eunice 59%

wrong stuff 59%

unintended pregnancies 59%

intent behavior 59%

weekday edition 59%

high time 59%

recent recession 59%

Entities

Kim Kardashian (Person) 94%

Ryan Seacrest (Person) 65%

America (Location) 64%

Otis (Person) 60%

PROCESSING: 8 Images

Cloud Workshop Hochschule Reutlingen © 2019 IBM Corporation

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Why Cloud ???

- Speed to Market
- Scale
- Money

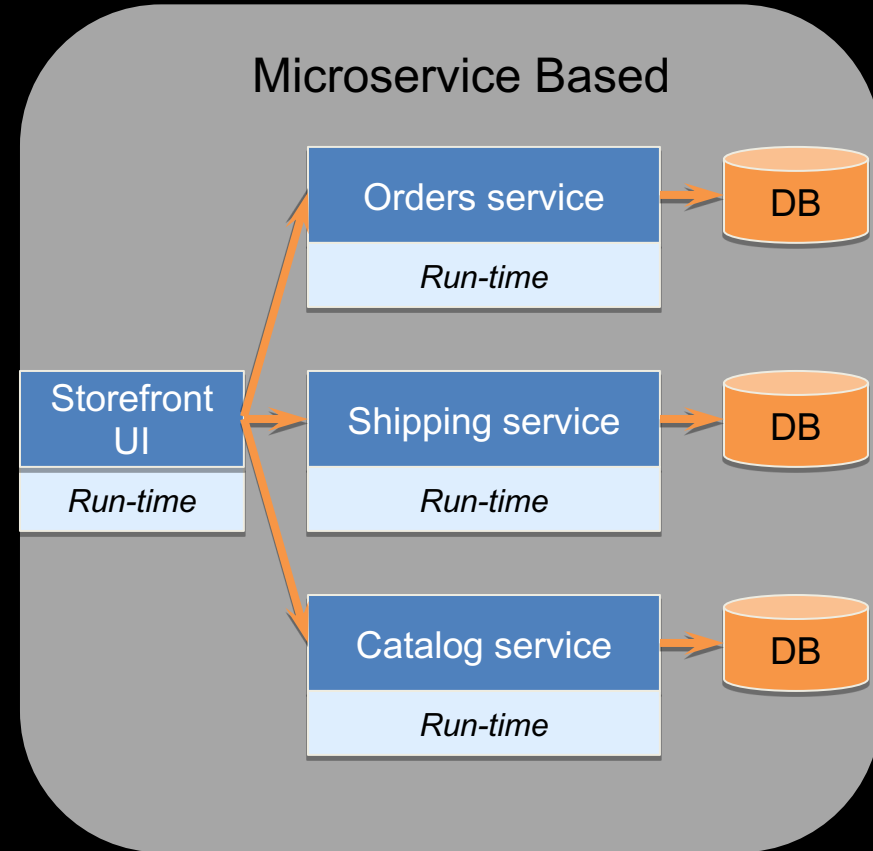
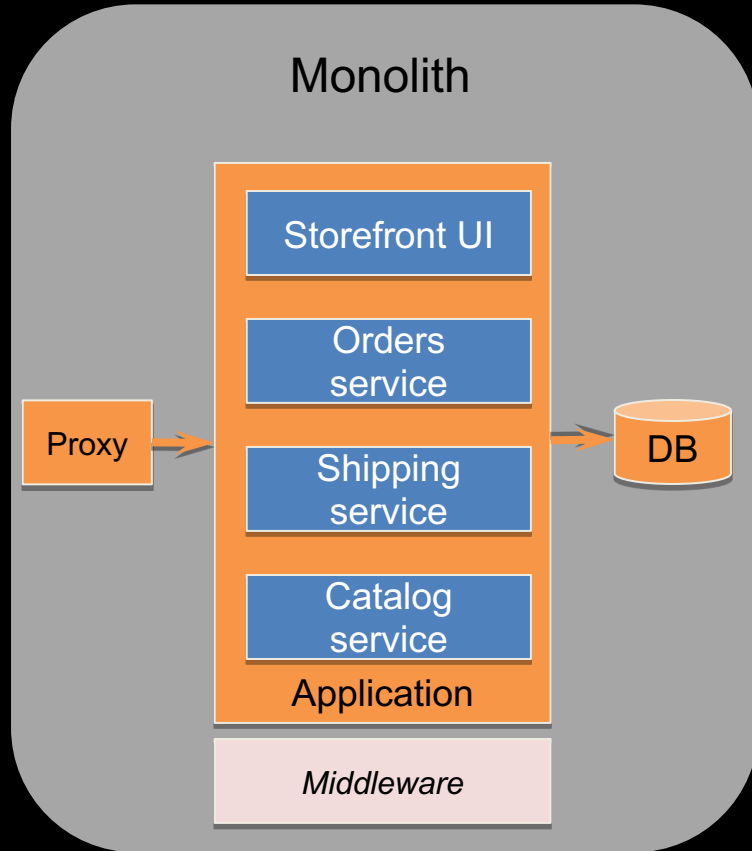
Demo

Platforms & Service Catalog

How ???

Microservices

Monolith to Microservices - Example



Source Control

Everything is in the Source Repo

The screenshot shows the GitHub repository for Apache OpenWhisk. At the top, there's a search bar and navigation links for Pull requests, Issues, Marketplace, and Explore. Below this, the repository name 'apache / openwhisk' is displayed with statistics: 235 Unwatch, 4.4k Unstar, and 846 Fork. A tab bar shows 'Code' as the active tab, with other tabs for Issues (441), Pull requests (26), Actions, Projects (0), Wiki, Security, and Insights. A description states 'Apache OpenWhisk is an open source serverless cloud platform' with a link to 'https://openwhisk.apache.org/'. Below the description are tags for 'openwhisk', 'apache', 'serverless', 'cloud', 'faas', 'functions-as-a-service', 'serverless-architectures', 'serverless-functions', 'docker', and 'kubernetes'. A summary bar shows 2,656 commits, 2 branches, 0 packages, 1 release, 1 environment, 168 contributors, and Apache-2.0 license. Below this is a 'Branch: master' dropdown and a 'New pull request' button. A row of buttons includes 'Create new file', 'Upload files', 'Find file', and 'Clone or download'. The commit history table shows the latest commit by 'rabbah and tysonnorris' removing legacy view code from subjects index, with a list of other recent commits and their descriptions.

Search or jump to... [Pull requests](#) [Issues](#) [Marketplace](#) [Explore](#)

[apache / openwhisk](#) [Unwatch](#) 235 [Unstar](#) 4.4k [Fork](#) 846

[Code](#) [Issues](#) 441 [Pull requests](#) 26 [Actions](#) [Projects](#) 0 [Wiki](#) [Security](#) [Insights](#)

Apache OpenWhisk is an open source serverless cloud platform <https://openwhisk.apache.org/>

[openwhisk](#) [apache](#) [serverless](#) [cloud](#) [faas](#) [functions-as-a-service](#) [serverless-architectures](#) [serverless-functions](#) [docker](#) [kubernetes](#)

[functions](#)

2,656 commits 2 branches 0 packages 1 release 1 environment 168 contributors Apache-2.0

Branch: master [New pull request](#) [Create new file](#) [Upload files](#) [Find file](#) [Clone or download](#)

rabbah and tysonnorris Remove legacy view code from subjects index. (#4638) ...	Latest commit 3235a94 5 days ago
.github	graduation: remove more incubator- references (#4581) 3 months ago
ansible	Remove legacy view code from subjects index. (#4638) 5 days ago
bin	Move wskadmin to tools/admin. 3 years ago
common/scala	Remove legacy view code from subjects index. (#4638) 5 days ago
core	Remove legacy view code from subjects index. (#4638) 5 days ago
docs	Update rest_api.md (#4720) 7 days ago

CI/CD

Continuous Integration
Continuous Deployment
(Continuous Testing)

Everything is automated



Travis CI



ANSIBLE

Open Platforms

Community
Proven



Questions

