

Serverless Revolution

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How Women Shape Technology Today (part 2)
10/19/2016

My life in one slide...



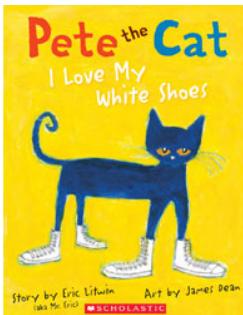
Originally from Romania



Masters in distributed systems
PhD in computer architecture
Intern at Intel Labs and IBM Research

IBM Research

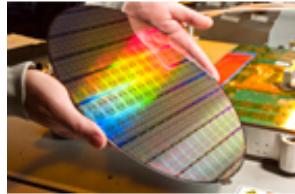
Infrastructure for cloud computing
Data for social good



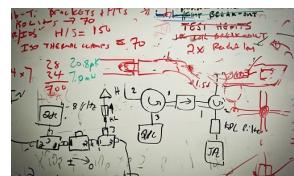
Married to a computer science researcher
~ 2 year old son

IBM T.J. Watson Research Center

One researcher - many domains



One title - many projects



basic research



product impact



open source

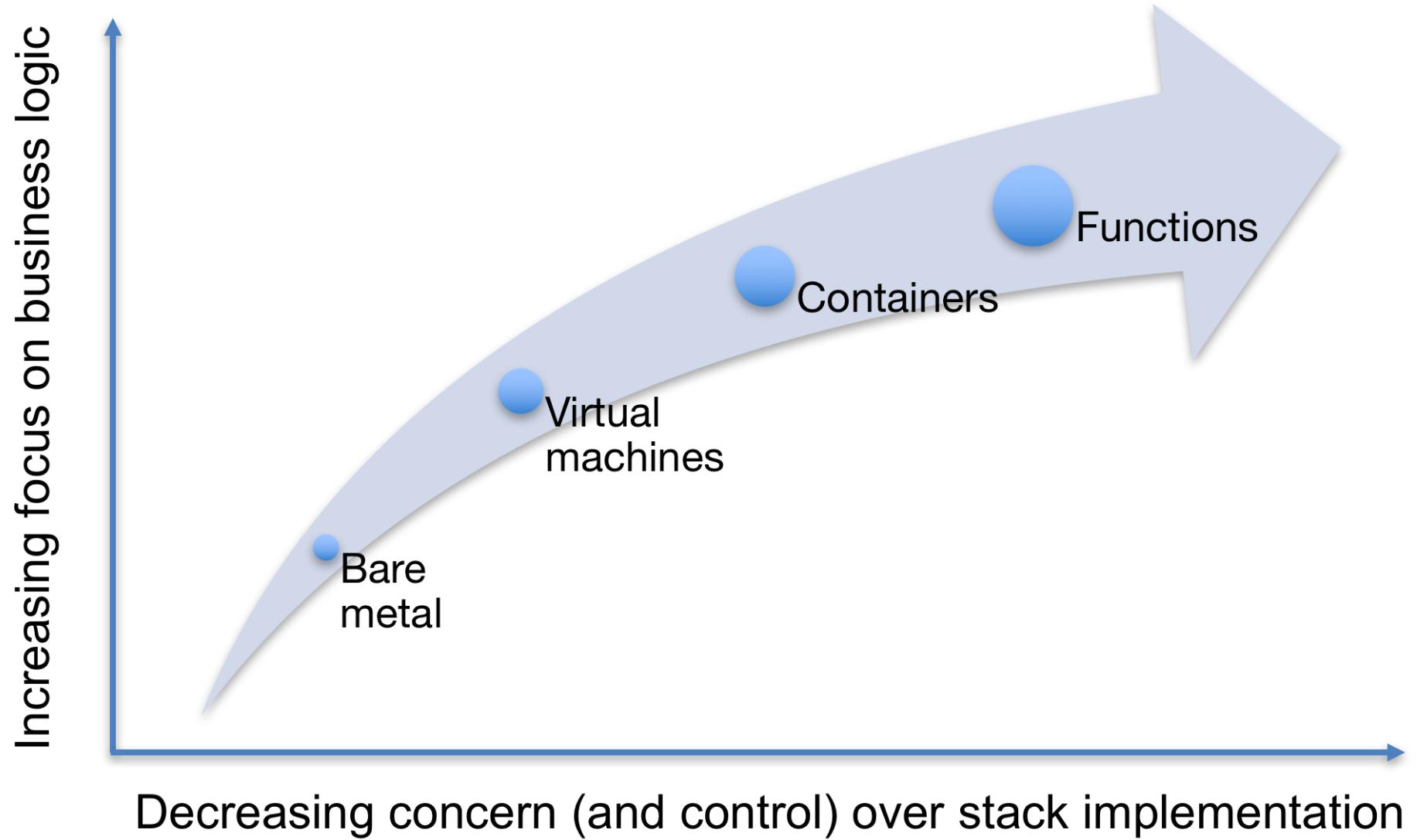


science4good

One person - many roles



Cloud computing from 10K feet



Serverless aka Function-as-a-Service

Code snippet as unit of deployment

BYOC - Bring Your Own Code - any (supported) language

Event driven

Function execution triggered by events

Pay-as-you-go cost model

No more “idle” cost

Automatic scaling

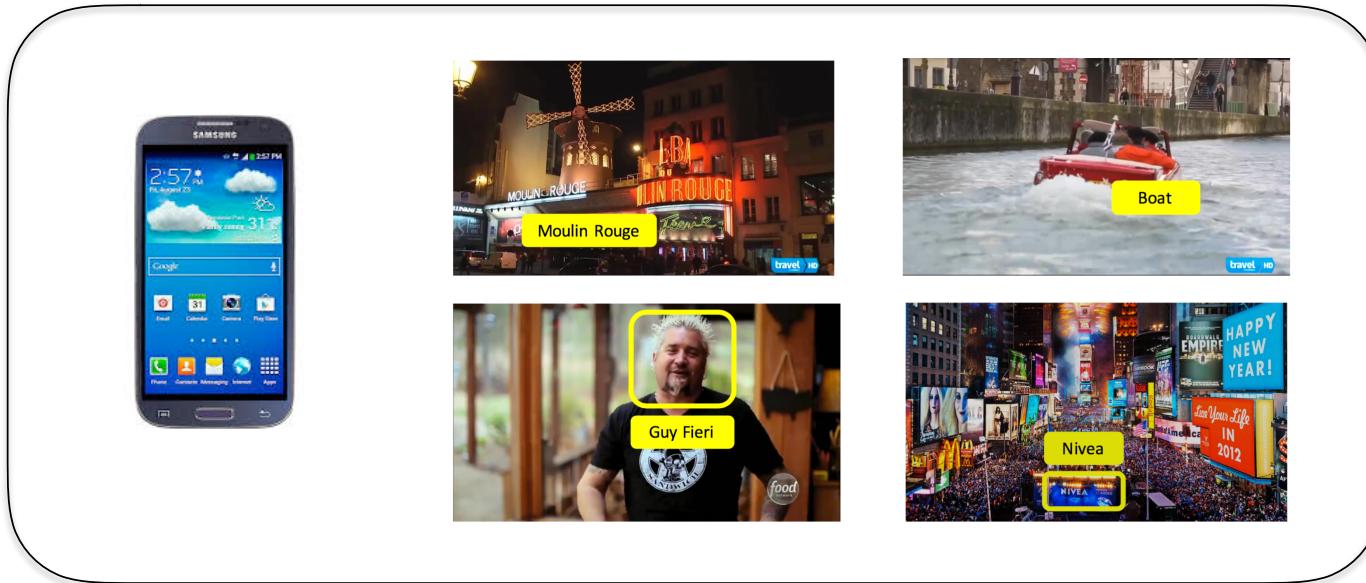
Resources allocated on-demand

Spoiler alert

Tons of servers behind the scene

Dark Vision (Fred Lavigne)

https://www.youtube.com/watch?v=1teIMpkI_Sg



1. User uploads video from mobile device
2. Cloud (Watson services) analyze frames to detect products, objects, faces, text
3. Use results to deliver improved navigation, recommendations, search



Open source

<https://github.com/openwhisk/openwhisk>

High level programming constructs

<https://developer.ibm.com/openwhisk/>

Awesome OpenWhisk

<https://github.com/openwhisk/awesome-openwhisk>

IBM Bluemix OpenWhisk (Beta)

<https://new-console.ng.bluemix.net/openwhisk/>

OpenWhisk - From infrastructure to impact

