





Implementări servicii

- SOAP Simple Object Access Protocol
- RabbitMQ, ActiveMQ, JMS
- gRPC google Remote Procedure Call
- WCF Windows Communication Foundation
- REST



REpresentational State Transfer (REST)

CHAPTER 5 Representational State Transfer (REST)

This chapter introduces and elaborates the Representational State Transfer (REST) architectural style for distributed hypermedia systems, describing the software engineering principles guiding REST and the interaction constraints chosen to retain those principles, while contrasting them to the constraints of other architectural styles. REST is a hybrid style derived from several of the network-based architectural styles described in Chapter 3 and combined with additional constraints that define a uniform connector interface. The software architecture framework of Chapter 1 is used to define the architectural elements of REST and examine sample process, connector, and data views of prototypical architectures.



Roy Fielding



REST – Client-Server





REST - Stateless

Visibility

Reliability

Request (+state info)

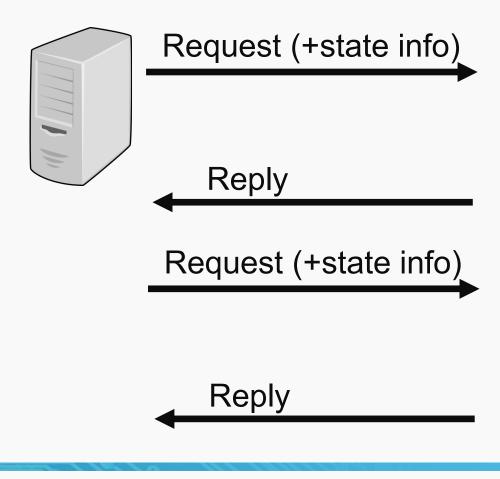
Reply

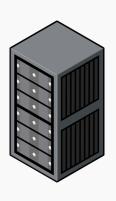
Fără informații de context pe server

Scalability



REST - Cache





Request (+state info)
Reply



Cache

- Poate fi server
- Poate fi local client



REST – Uniform Interface

Identification of resources

Manipulation of resources

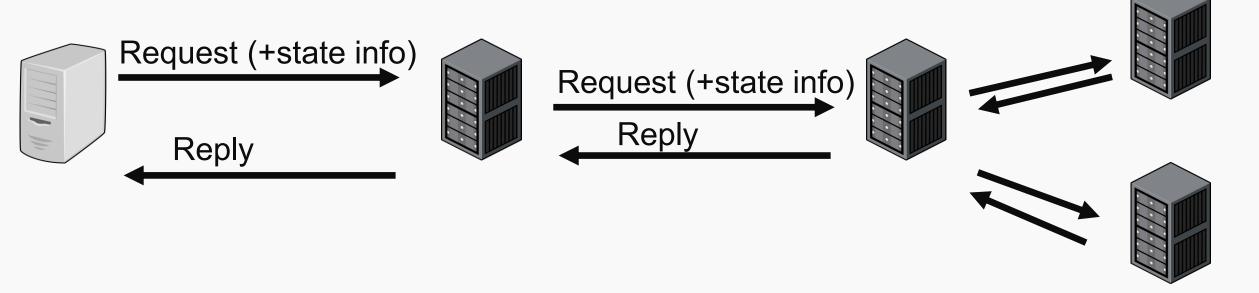
Self-descriptive messages



REST – layered system

• Independence

Permits load balancing



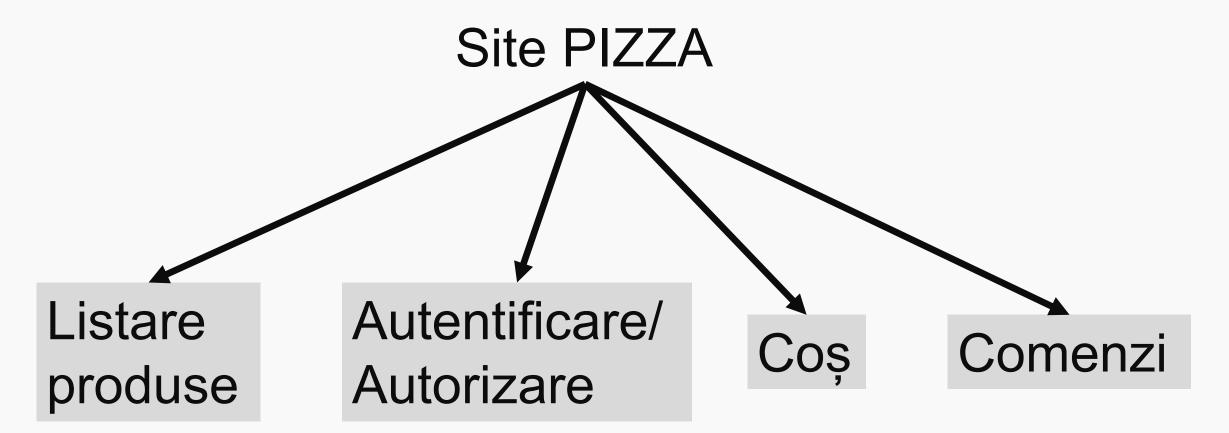


Microservicii

Containere + Servicii

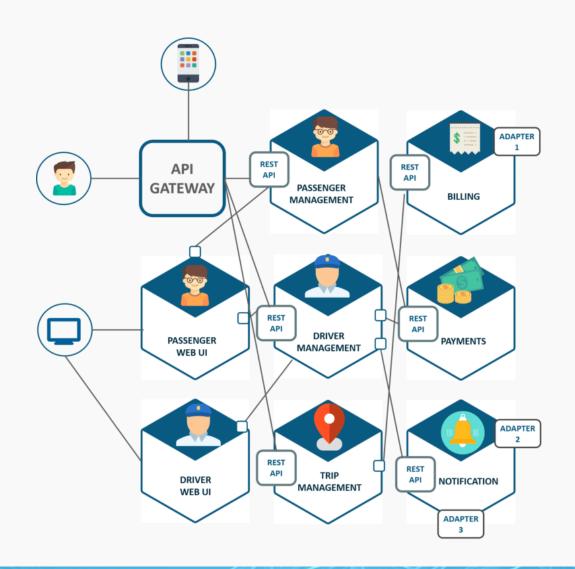


Microservicii exemplu



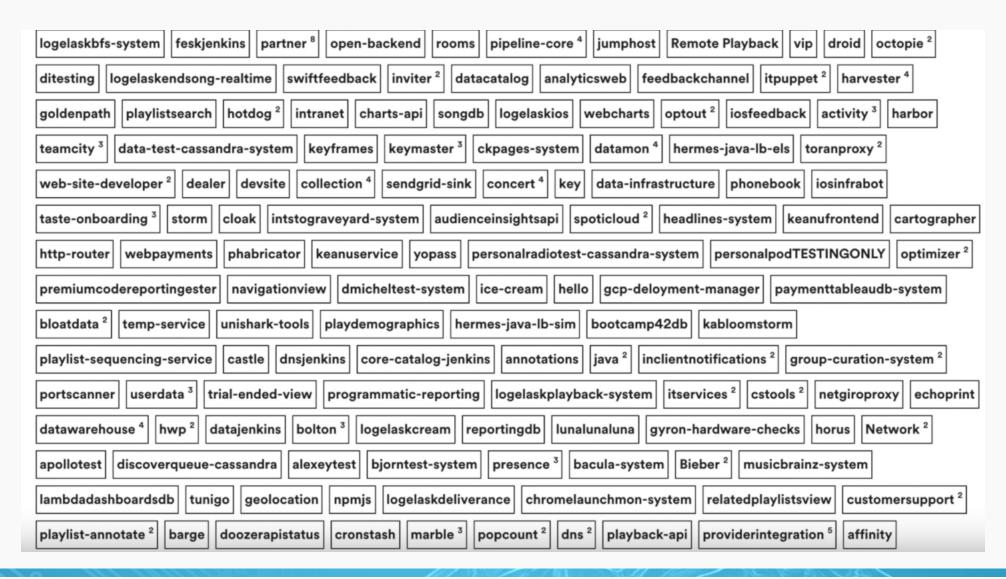


Uber



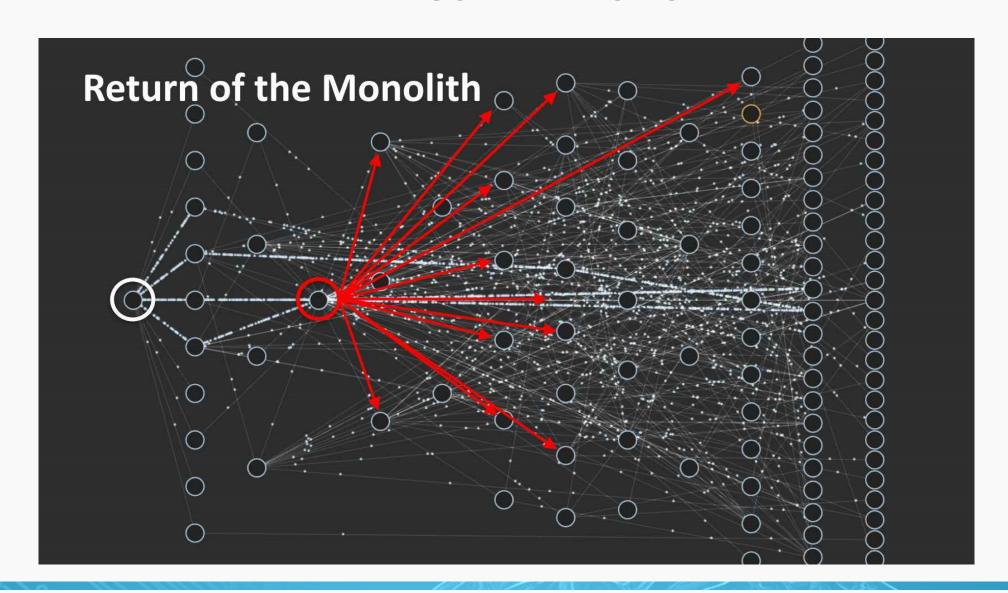


Spotify





Netflix - 2016





Amazon

