



WSO2 ESB

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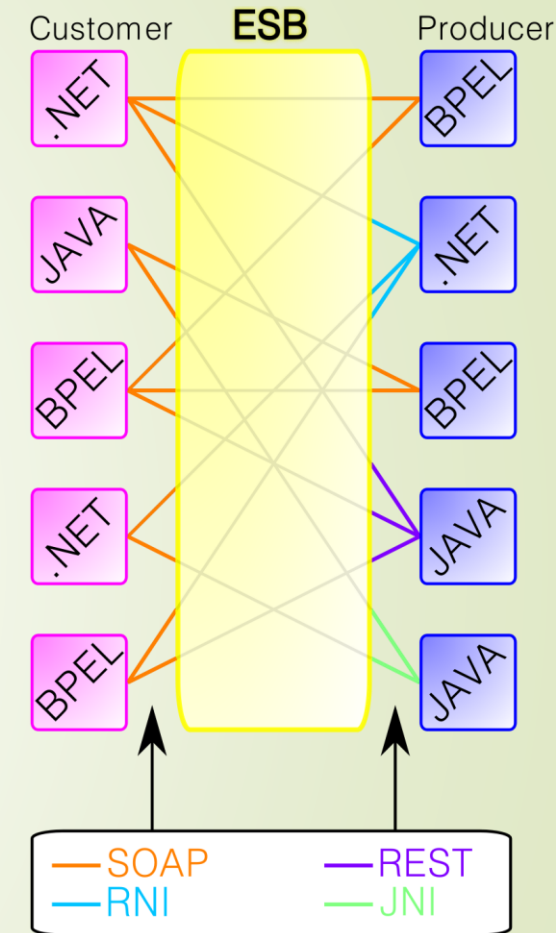
Florian Lotter

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Introduction

- WSO2: Web Services oxygenated
- ESB: Enterprise Service Bus
 - Routes messages between services
 - Monitor and control message exchange between services
 - Resolve contention between service components
 - Control deployment and versioning of services



Key Components API Manager



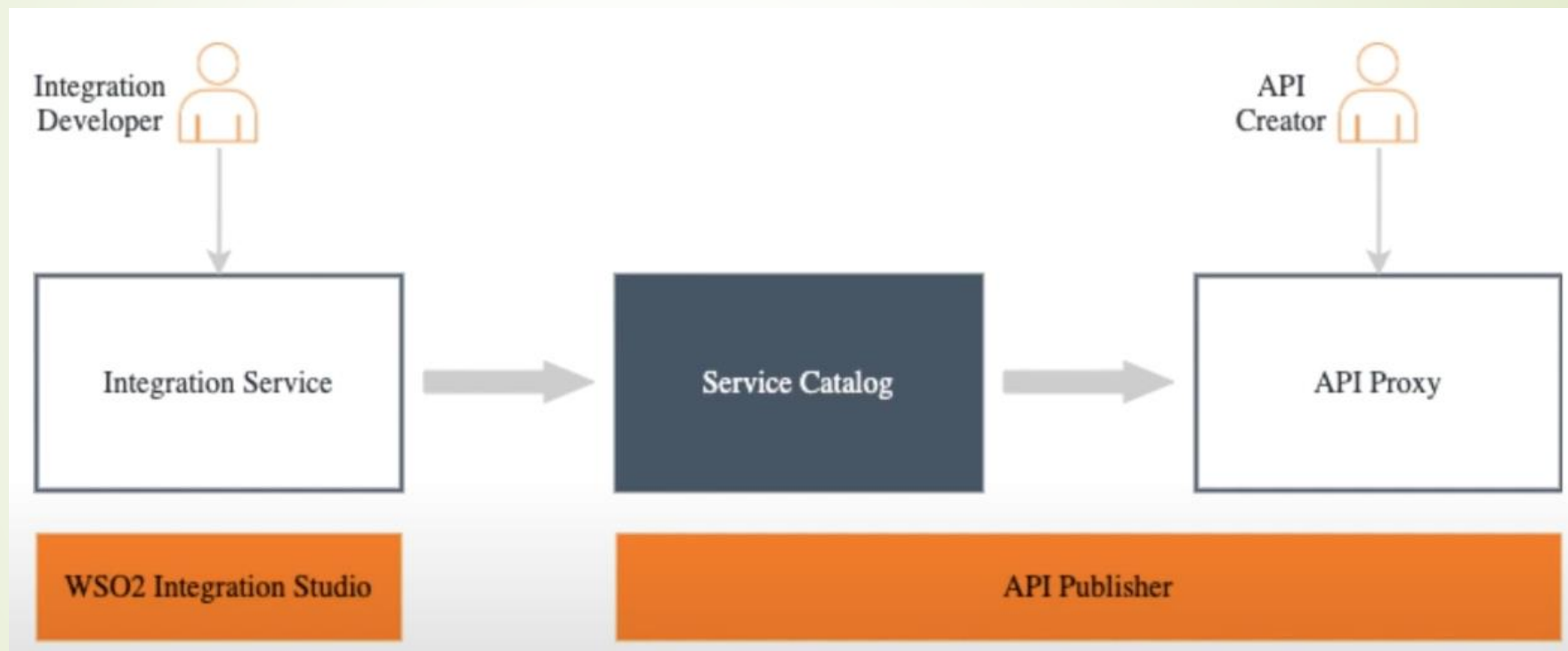
What is API management?

- **API design**
- **API gateway**
- **API store**
- **API analytics**

Benefits and drawbacks of ESB

- Scales from point-solutions to enterprise-wide deployment
- More configuration rather than integration coding
- No central rules-engine, no central broker
- Easy plug-in and plug-out and loosely coupling system
- Slower communication speed, especially for those already compatible services
- Single point of failure can bring down all communications in the Enterprise
- High configuration and maintenance complexity

Integration First Development



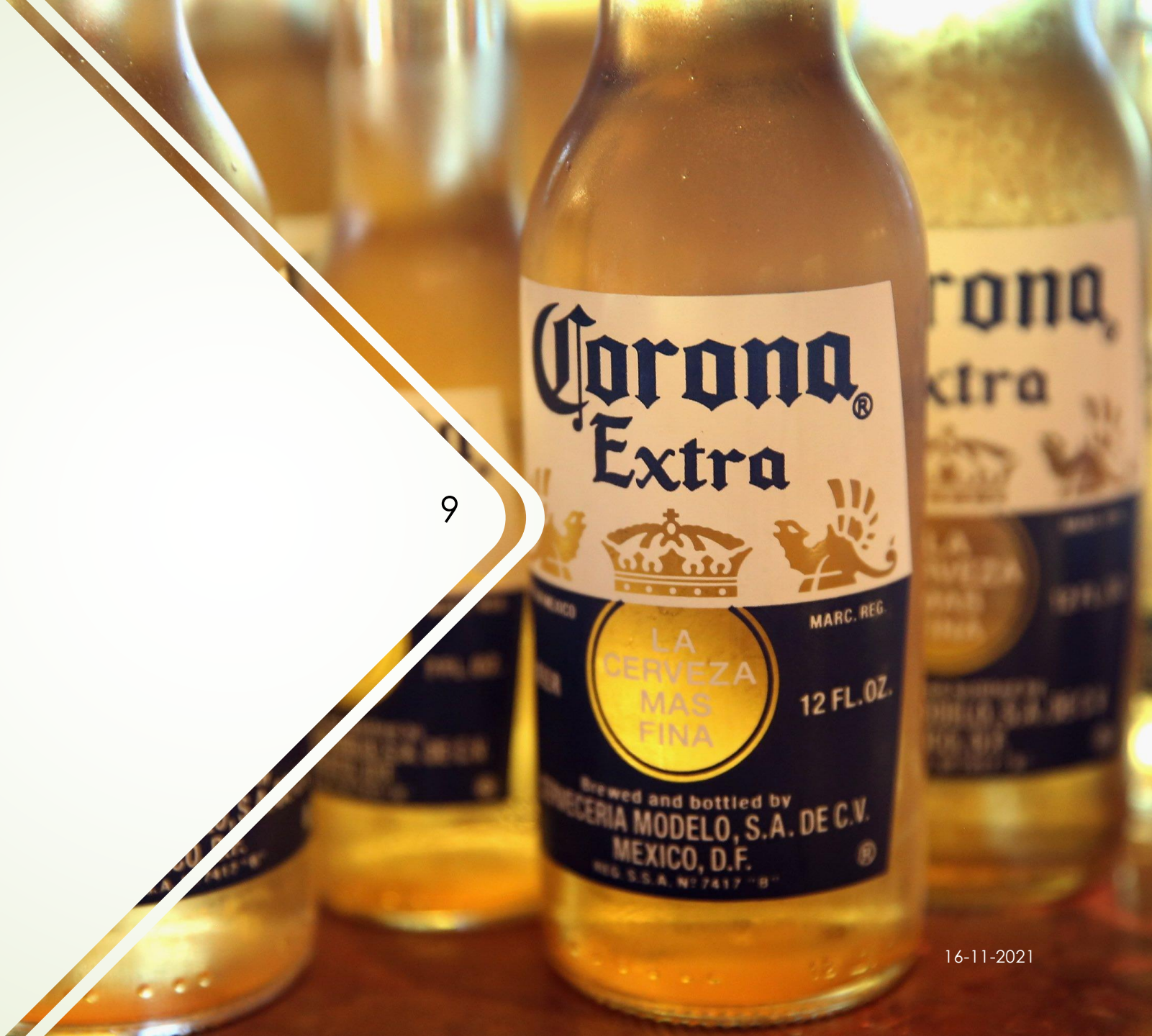
Service-oriented architecture

- Architectural style that supports service orientation
- Way of thinking and developing in terms of service.
- According to SOA, a service has four properties:
 - 1. It logically represents a repeatable business activity with a specified outcome.
 - 2. It is self-contained.
 - 3. It is a black box for its consumers.
 - 4. It may be composed of other services.

Break

- A few minutes break to:
 - Go to the bathroom
 - Grab a coffee or a corona

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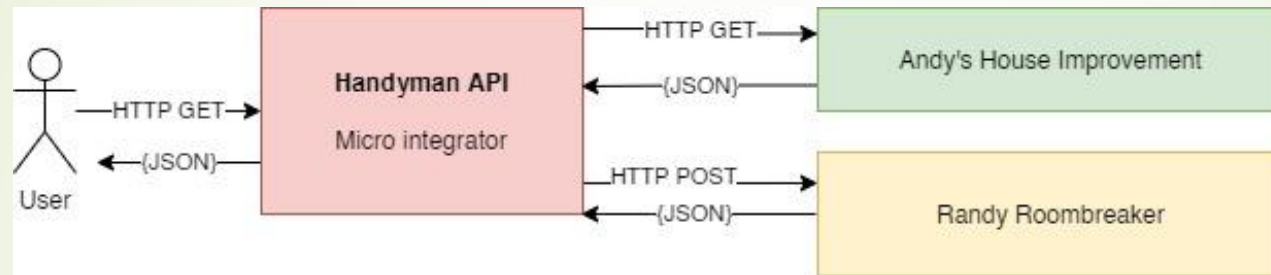
Demo

- ▶ API Management – Joris

Tasks

- Create your own Integration Solution
 - Use case: Hospital Microservice
 - Connect Users and Healthcare Providers through a convenient service
 - Get started here:
 - <https://ei.docs.wso2.com/en/latest/micro-integrator/develop/integration-development-kickstart/>

Extra Task



- Create a **Handyman Finder** in your area Microservice
 - Follow the same steps you learned in the previous example use case
 - Additional Challenge: Unit test your Microservice

Extra help if you get stuck on tasks

- ▶ <https://ei.docs.wso2.com/en/latest/micro-integrator/develop/creating-unit-test-suite/>

Kahoot!

<https://bit.ly/3nj5bNj>



The end

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The end

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