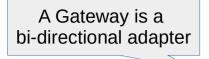# Integration

Integration: Architecture

Adapters and Gateways

- Our basic example showed how we can get Messages from the File System

- But Spring Integration can get or send messages to almost anything!

- There is a **big list of existing adapters** at:

    https://docs.spring.io/spring-integration/docs/5.1.0.M1/reference/html/endpoint-summary.html

Enterprise Service Bus

- With all these adapters it's easy to see how we could implement an ESB

- All data from the different services flows into the ESB (regardless of protocol or format)

- It connects the services performing routing, filtering transforming, etc. **The core of the application**.

Micro Services

- Micro Services are not very clearly defined
  - Similar to how ESB's are not very clearly defined.

- Things central to their philosophy:
  - No Enterprise Service Bus
  - Smart Endpoints and **Dumb Pipes**
  - Combined using simple **RESTish** protocols

Last Part

- The only thing remaining in this course is the **project**, in which I want to encourage you to create **micro services**
  - One person makes it in a couple of days
- Combined using RESTish protocols behind a public API (a single user facing project)