



MicroService & Wildfly Swarm

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MicroService Trend

- IAAS (AWS)
- Mobile Apps
- DevOps
- Docker

Architecture Changed

- Block → Async (NIO)
- Monolithic → Micro (NodeJS, Vertx)
- Java/dotNET → Multi-lang (Javascript, Go)
- Redeploy → New version application

JavaEE is Monolithic?

- Full profile: Yes
- Web Profile: Well ...
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- Anyway, the developer should pick out feature-pack:
 - Servlet, JPA
 - CDI, JSF
 - JMS, MDB
 - ...

MicroService design

- SOA back
 - Every application work as a service
- Not “tiny” service
 - An useful service should be integrity
- Service Management

Java world

- Dropwizard (Jersey, JPA)
- SpringBoot
 - SpringFramework (core)
 - SpringConfig (configuration)
 - SpringCloud (multi-node)
 - Spring Boot Actuator
- EE
 - Payara Micro (Glassfish)
 - Wildfly swarm

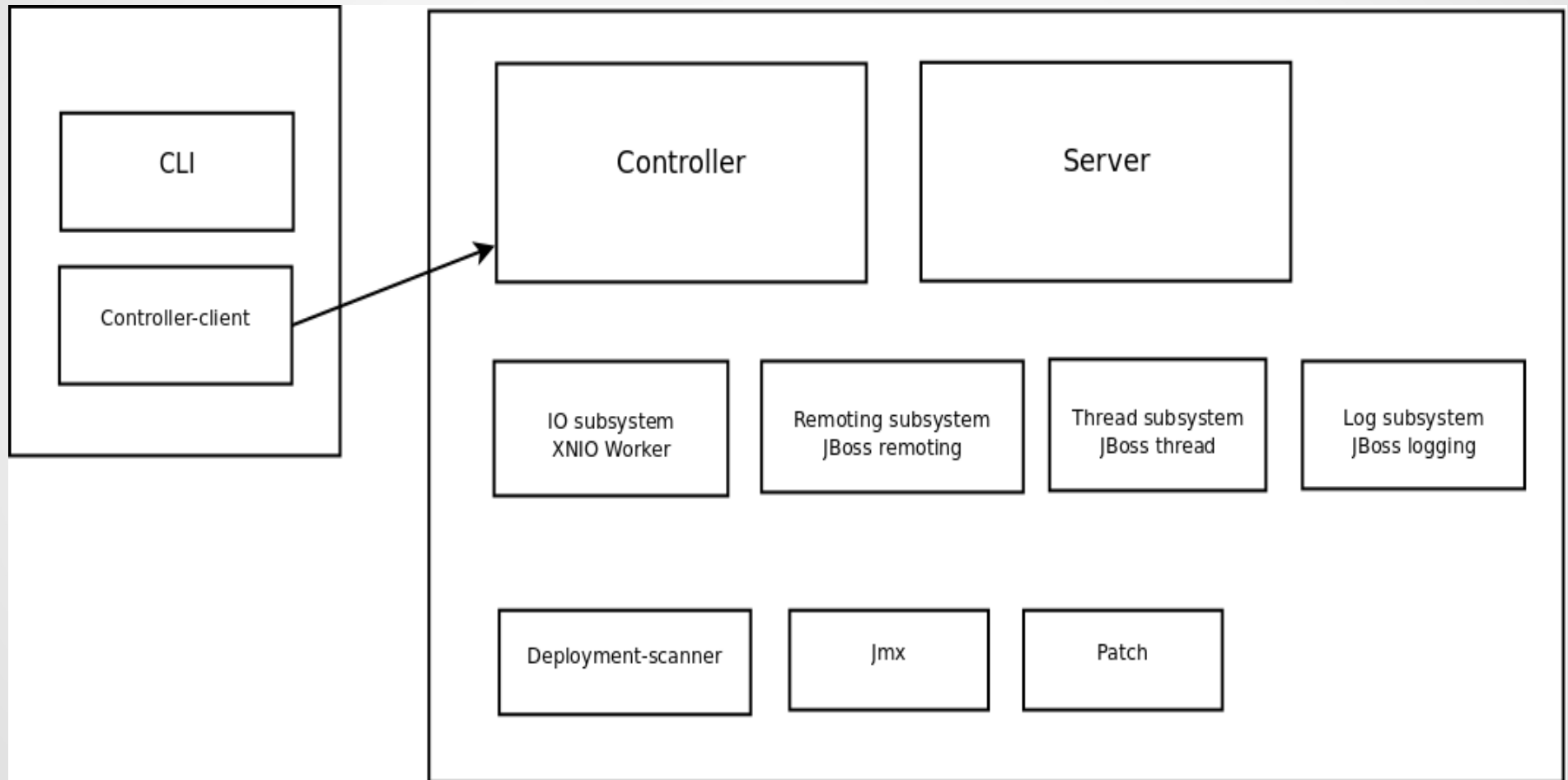
Wildfly Core

- From wildfly 9
- ~20M
- Minimal core server
- Base server
 - Wildfly
 - Infinispan
 - BRMS
 - (JBoss products and projects)

Core component

- MSC
- JBossModule
- JBossLogging
- JBossThread
- CommonCore
- DMR
- Invocation
- Jandex
- Marshalling
- Remoting
- Remoting-JMX
- Xnio
- VFS
- StaxMapper

Standalone



Feature-pack

- Since Wildfly 9
 - Web feature-pack
 - Full feature-pack
- Maybe more later?
 - JaxRS/JPA

Wildfly Swarm

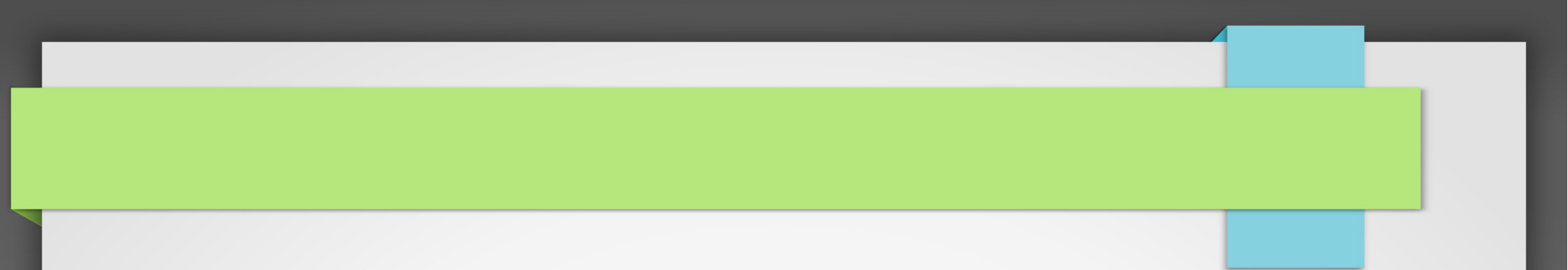
- Smart project from March
- 1.0.0.Alpha2
- Base on Wildfly-core 9 and Wildfly 9
- Inspired by SpringBoot
- Maven

Code

- Bootstrap
 - JBossModule
 - Maven local m2 repository
- API
 - Container
 - Servlet/Jaxrs/Jpa/Messaging/Dataresources/...
- Runtime

Executable jar

- A fat jar
- Include wildfly-core and fractions
 - Msc 10M
 - Servlet 24M
 - JaxRS 33M
 - CDI/JPA 86M! (Wildfly optimize feature pack)



Demo & QA