Java EE moderno, de Monolitos a Payara Micro

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4 de noviembre de 2017

Java Day Guatemala 2017



Acerca de

- Developer (JVM/Open Source Advocate)
- Consultor independiente (Nabenik)
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Advertencia 0





J2EE



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Java J2ee with UI Developer Java J2ee Core Developer Java J2EE Senior Developer Java J2EE Developer Java J2EE Senior Developer Java J2ee with Spring Batch Developer



NABENIK











- · Nuevo JMS
- WebSockets
- JSON Support
- Concurrency
- · Nuevo JAX-RS
- · Batch apps



Java EE 7 - La rebelión de los Dukes



JavaEE 7 - La rebelión







JavaEE Micro



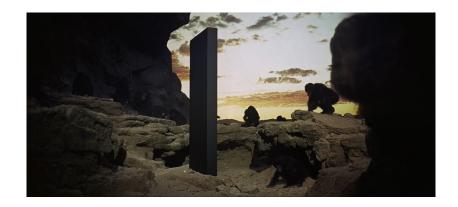
Solución

Estado zen del arquitecto de software

- · Productividad Iava 8
- Recurso humano POO -> Funcional
- · ¿Predictibilidad y estabilidad?
- · ¿Escalabilidad?
 - App Server Vertical y luego horizontal
 - · Microservicios Horizontal
- Costos Todas las anteriores



Solución





Monolito

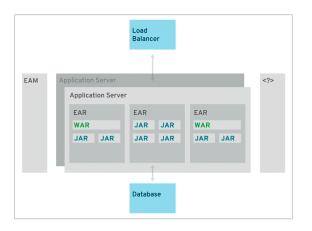


Figura 1: Arquitectura monolitica - Creditos: Markus Eisele



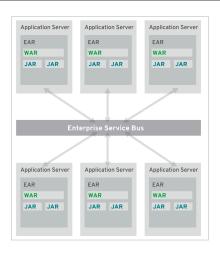


Figura 2: Arquitectura Esb - Creditos: Markus Eisele



Microservicios

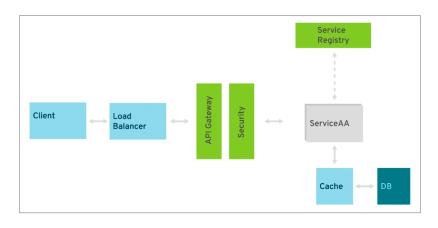


Figura 3: Arquitectura Microservicio - Creditos: Markus Eisele



Microservicios

Ventajas

- · Bases de código pequeñas
- · Buenas practicas de programación
- · Tolerancia a fallas
- · Escalabilidad

Desventajas

- · Tooling overhead
- Debug
- · Transacciones distribuidas
- Latencia
- · Interdependencia
- · Falacias de la computación distribuida



Microservicios

Desventaja

Hype Driven Development



Microservicios funcionales con JavaEE



JavaEE el framework más anti-hype de la tierra

J2EE 1.2 (Diciembre 12, 1999)



Implementación

- · Refactoring iterativo
- Refactoring practico
- · Nuevos servicios



Implementación

- · Refactoring iterativo
- · Refactoring practico
- · Nuevos servicios



Subset de Api en JavaEE

- · JAX-RS
- · JSON-P
- · CDI, EJB
- · JCache, JPA

Nuevas formas de despliegue

- Versiones micro JavaEE (CLI)
- Uber-Jar/Fat-Jar/Serverless



Opciones

- · Wildfly Swarm
- KumuluzEE
- · Dropwizard
- · WebSphere Liberty
- · Payara Micro





Microservicios - Payara Micro

- · Glassfish Embedded (Web Profile)
- Container friendly
- · War en CLI
- FatJar en main()
- · Compatible con Microprofile (JAX-RS, CDI, Config, JSON-P)
- JCache y clustering Hazelcast



Motivación

Estado zen del arquitecto de software

- · Productividad Java 8
- · Recurso humano POO -> Funcional
- · Predictibilidad y estabilidad Payara Micro
- · Escalabilidad brutal Microservicios
- · Costos Todas las anteriores



Demo



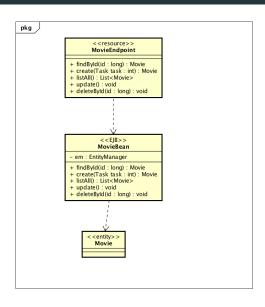
Payara Micro - Demo

Java 8, JAX-RS, CDI, EJB, JCache

https://github.com/tuxtor/payara-demo

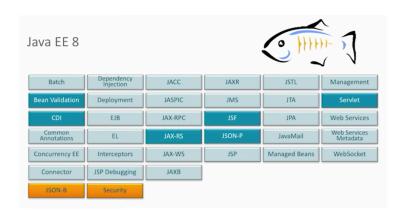


Payara Micro - Demo











- · Mejor integración de JSF con CDI
- · Mejor integración de JMS con CDI
- HTTP/2
- · JSON-B
- Security
- JAX-RS Reactivo





Payara Server 5 Alpha 1 release is here!

12 Sep 2017

We're excited to announce that the first Alpha release of Payara Server 5 is now available for download! We highly encourage you to give it a go, test it out and let us know what further improvements are needed.



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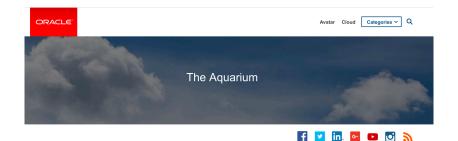


- · Glassfish 100 % compatible con JavaEE 8
- Wildfly(JBoss) Inician los trabajos para JavaEE 8, se esperan para Wildfly 12
- · OpenLiberty Fase beta de soporte
- Payara Fase beta de soporte
- TomEE Inican los trabajos para JavaEE 8
- Weblogic Compromiso publico que JavaEE 8 sera implementado



EE4J





Share







COMMUNITY, JAVAEE | Thursday, August 17, 2017

Opening Up Java EE

By: David Delabassee | Software Evangelist

We continue to make great progress on Java EE 8. Specifications are nearly complete, and we expect to deliver the reference implementation this summer. As we approach the delivery of Java EE 8 and the JavaOne 2017 conference, we believe there is an opportunity to rethink how Java EE is developed in order to make it more agile and responsive to changing industry and technology demands.





GETTING STARTED MEMBERS PROJECTS MORE -



HOME / PROJECTS / THE ECLIPSE ENTERPRISE FOR JAVA PROJECT TOP LEVEL PROJECT CHARTER

The Eclipse Enterprise for Java Project Top Level Project Charter

This is a draft. We invite your feedback. Join the conversation at ee4j-community.

Please see the Frequently Asked Questions.

Overview

Eclipse Enterprise for Java (EE4) is an open source initiative to create standard APIs, implementations of those APIs, and technology compatibility kits for Java runtimes that enable development, deployment, and management of server-side and cloud-native applications. EE4 is based on the JavaTM Platform, Enterprise Edition (Java EE) standards, and uses Java EE 8 as the baseline for creating new standards.

Although Java EE was developed in open source, often the Java EE development process was not perceived as nimble, flexible or open enough when compared to other open source projects and processes. EE4J enables the use of more nimble processes, more flexible licensing, and a more open governance process for evolution of the platform.

This charter was developed in accordance with the Eclipse Development Process and will outline the mission of the EElf Project. This document extends the Eclipse Standard Top-Level Charter v1.2, and includes the required content and overrides that follow. It is anticipated that as the standard charter is updated, this charter will incorporate the changes and make adjustments as seen fit by the PMC, and with approval from the EMC and board of directors.

- Descriptive name: Eclipse Enterprise for Java
- · Nickname: EE4J



Fin



Gracias

- · me@vorozco.com
- http://vorozco.com
- http://github.com/tuxtor/slides



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