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Monolitos o Microservicios

Ventajas de MicroProfile para aplicaciones monolíticas

INVERSIONES INTELECTUALES

¿ Quien ?

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https://github.com/Motojo/Slides

¿ Quien ?

DROIDS4DROIDS

Google Developers

PE

GT

Google I/O Extended Guatemala

Java day17

INVERSIONES INTELECTUALES

COECYS 2017

ORACLE CODE

Contenido

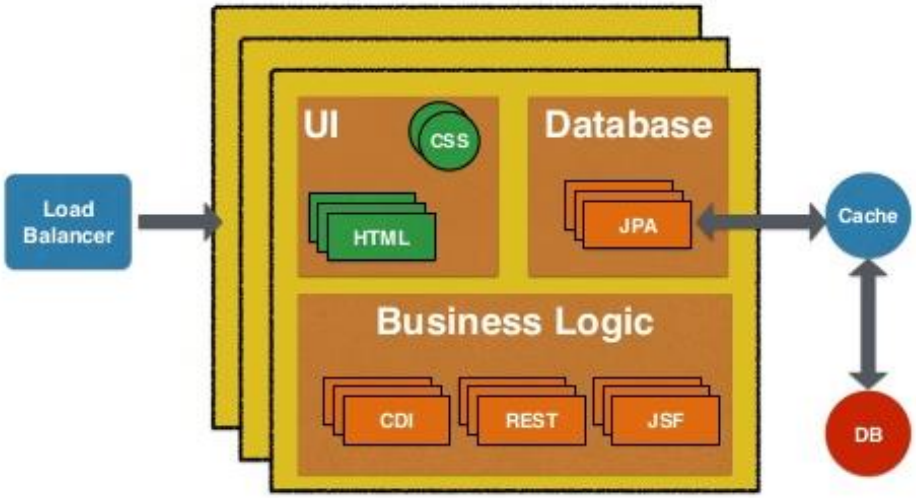
Temas

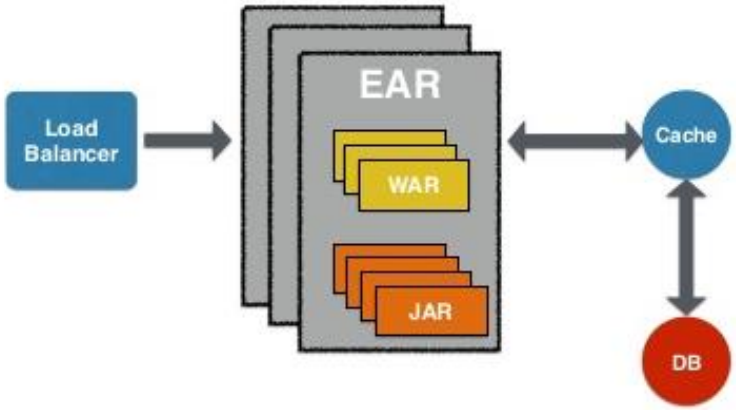
- Monolitos
- Microservicios
- ¿JavaEE o JakartaEE?
- Eclipse MicroProfile
- Lo mejor de dos mundos
- Preguntas

JAKARTA EE
Monolitos
¿Son del pasado?

Monolitos

En Java





Imágenes: @arungupta #devoxx

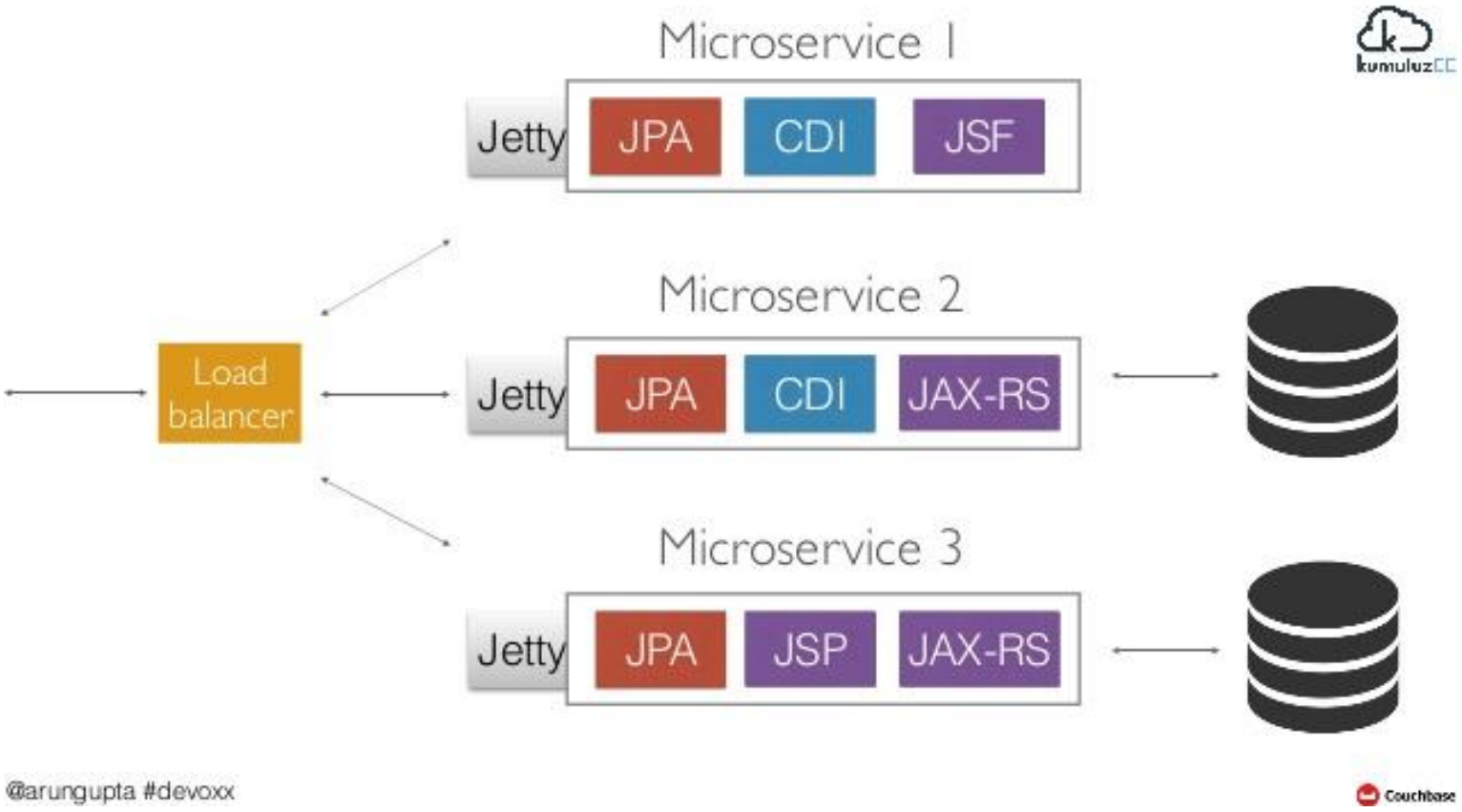
JAKARTA EE

Microservicios

El Futuro

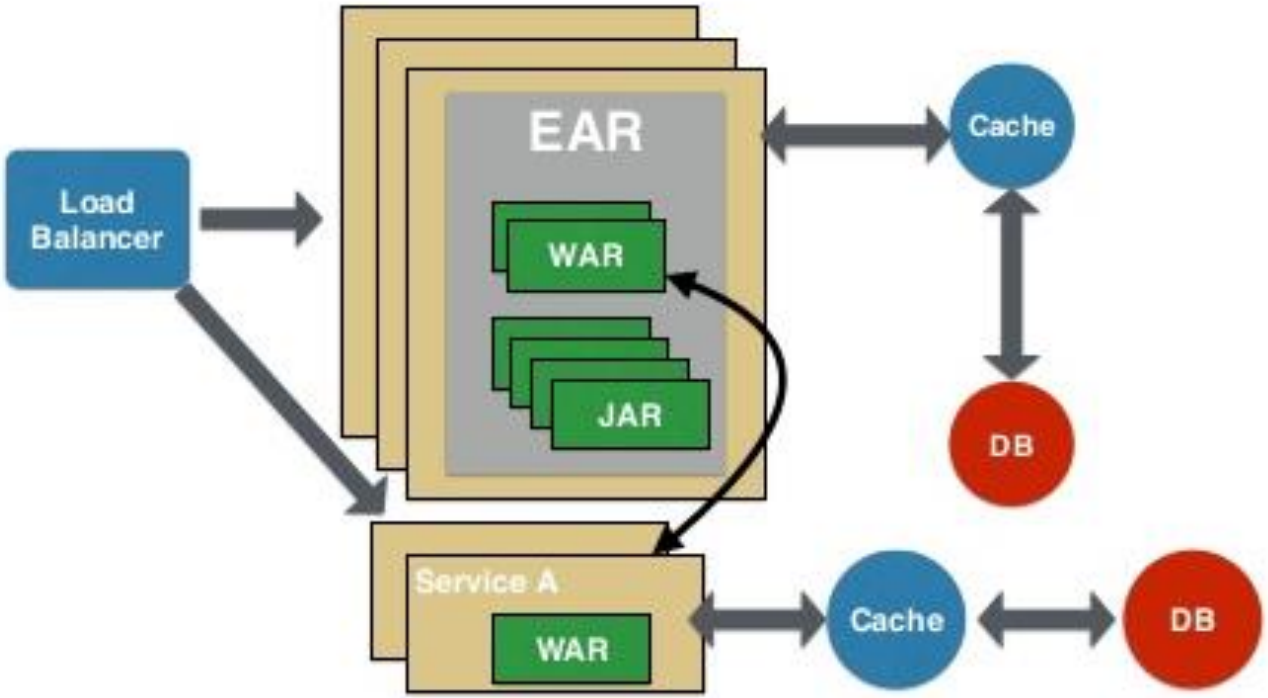
Microservicios

En Java



Microservicios

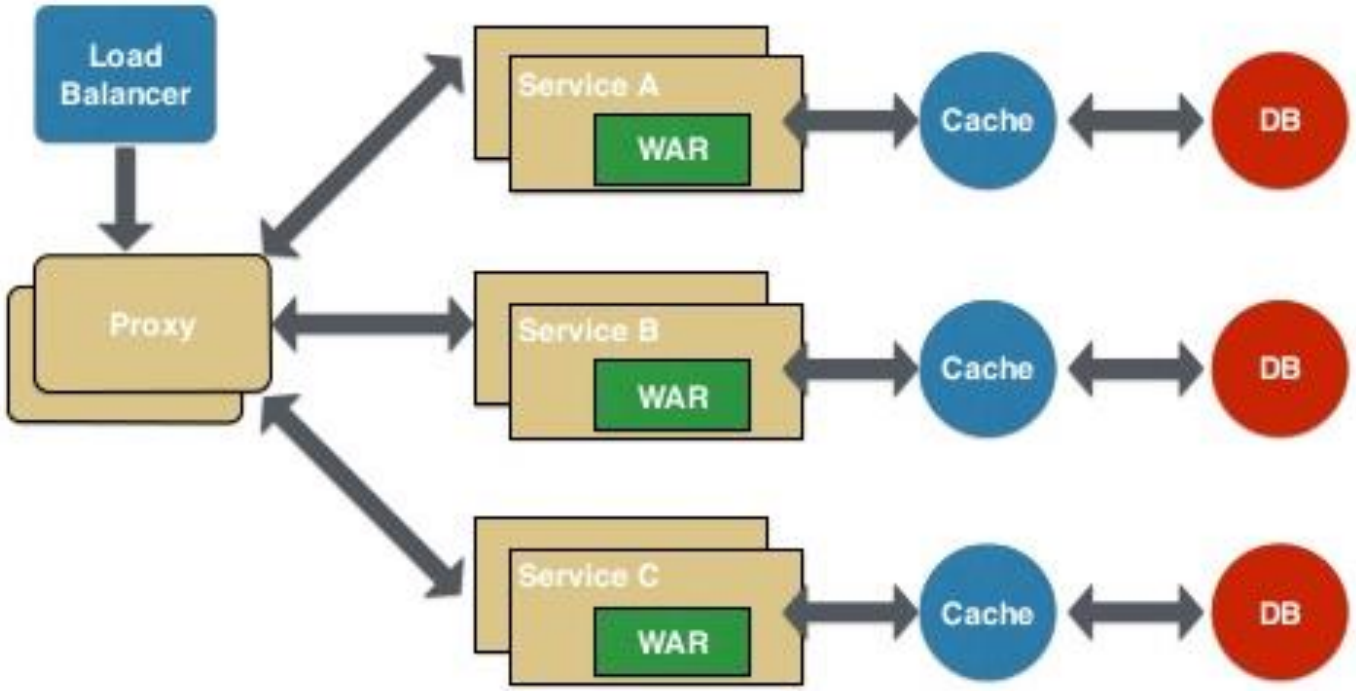
Migración



Couchbase

Microservicios

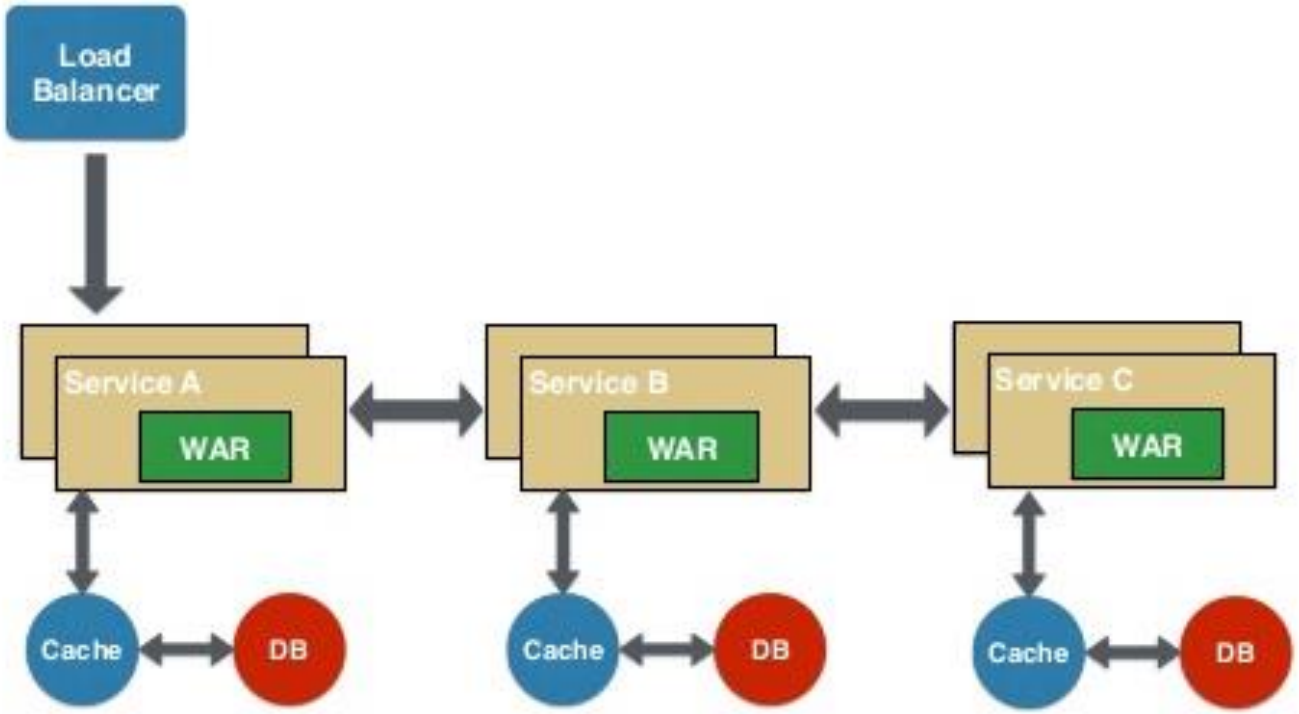
Migración



Couchbase

Microservicios

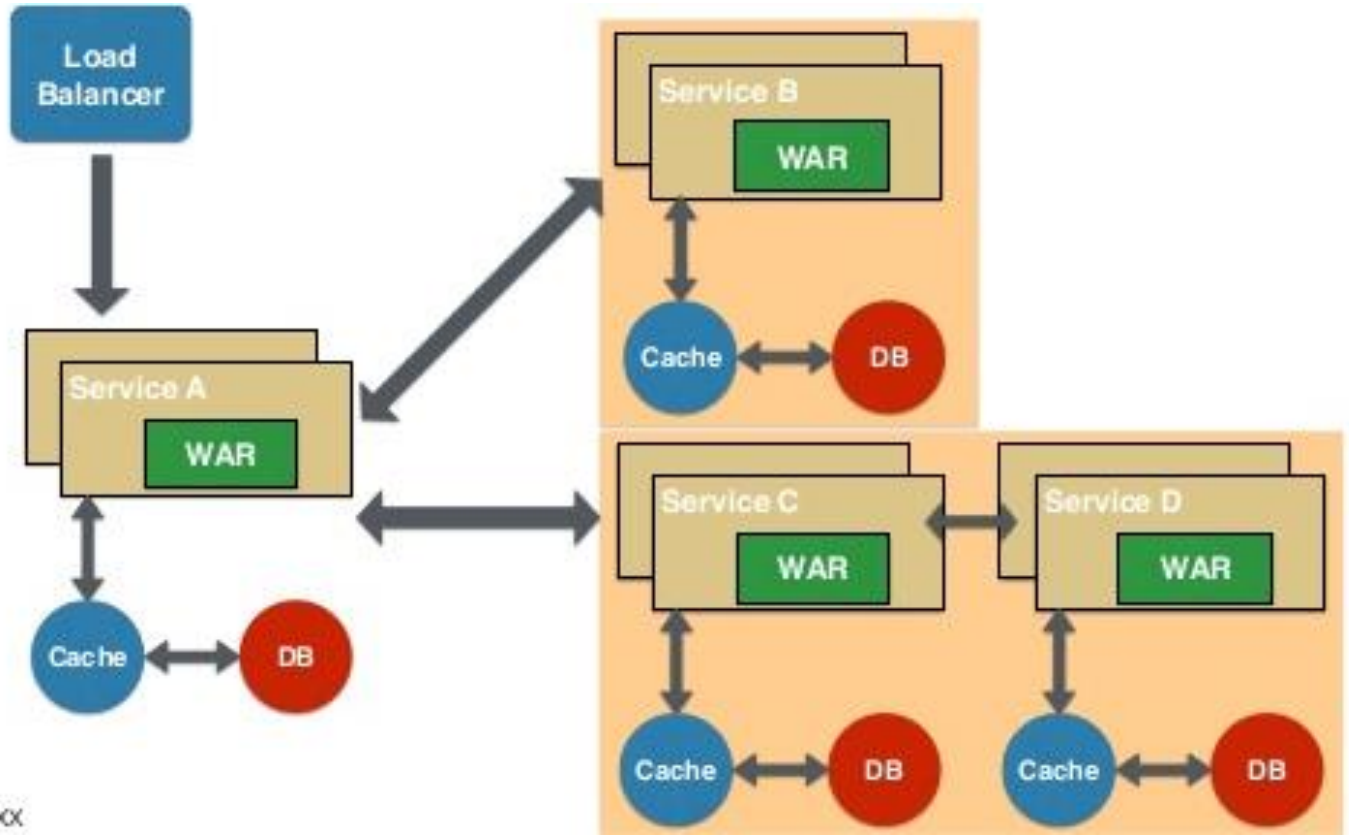
Migración



JAKARTA EE

Microservicios

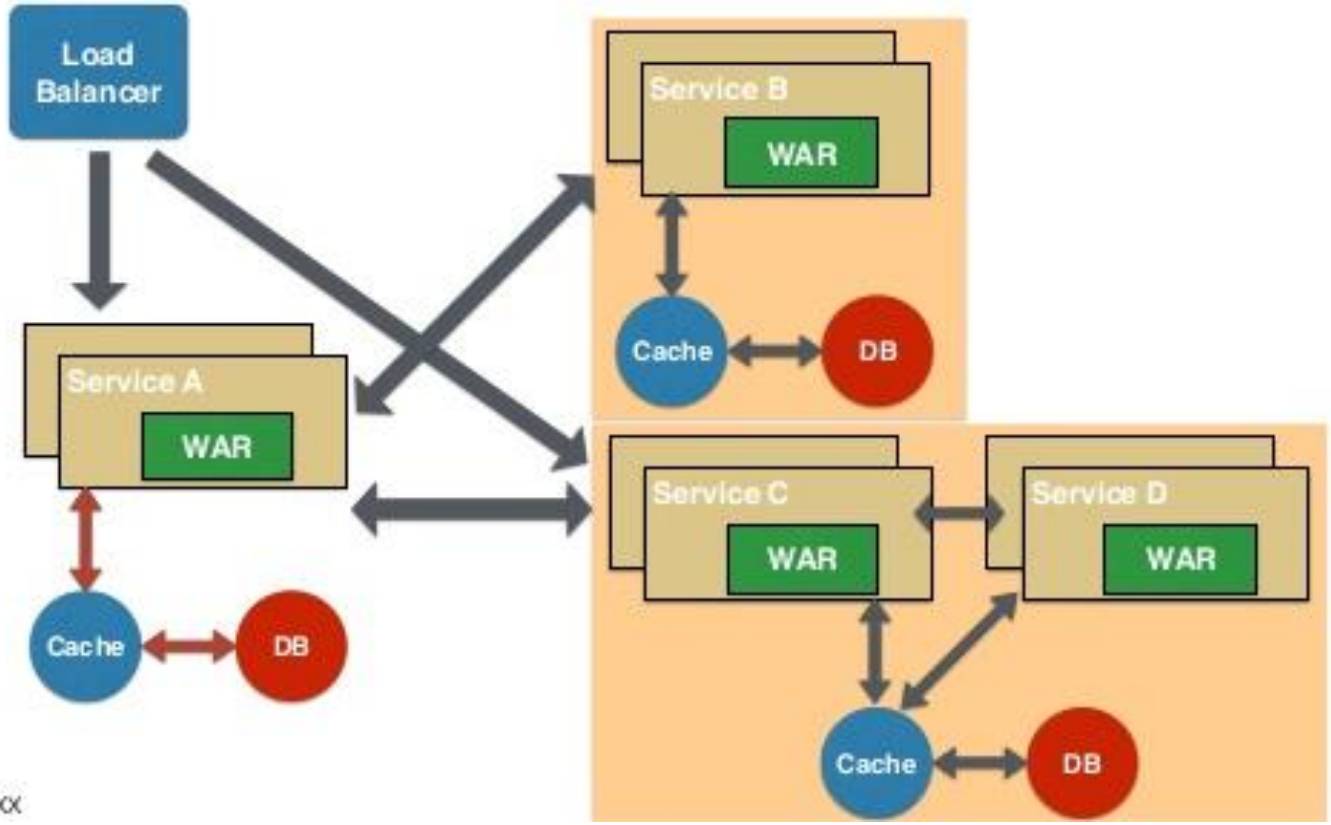
Migración



Couchbase

Microservicios

Migración

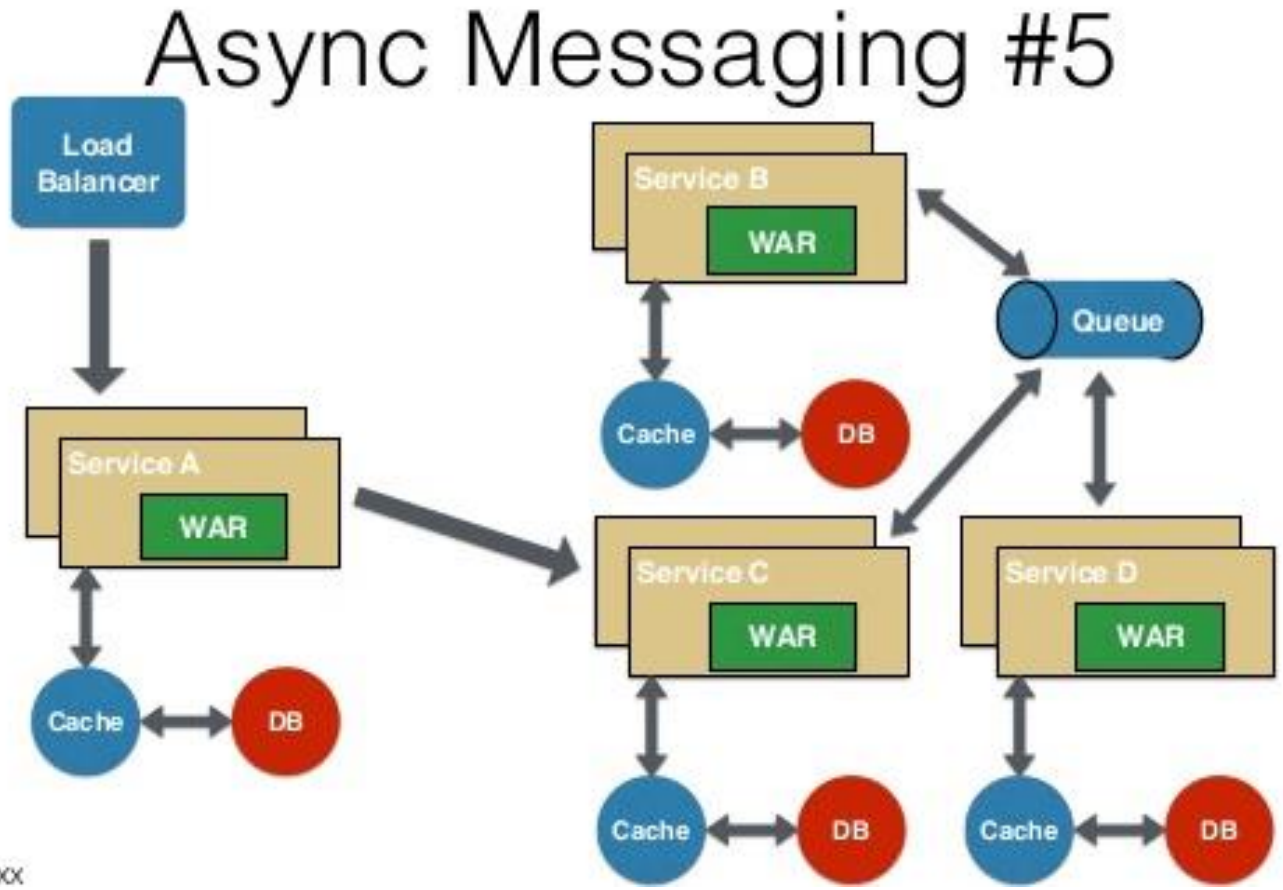


Couchbase

JAKARTA EE

Microservicios

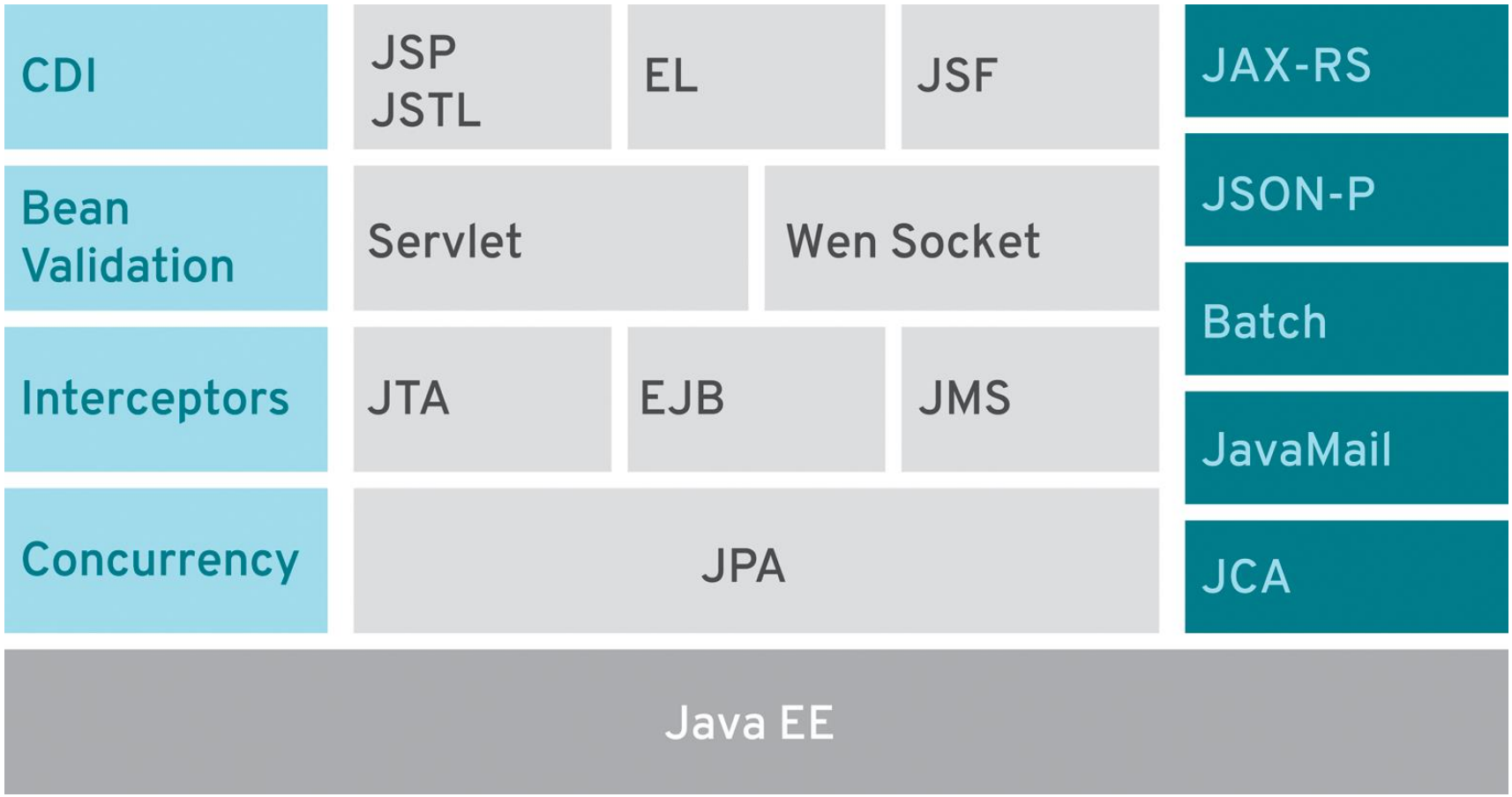
Migración



Couchbase

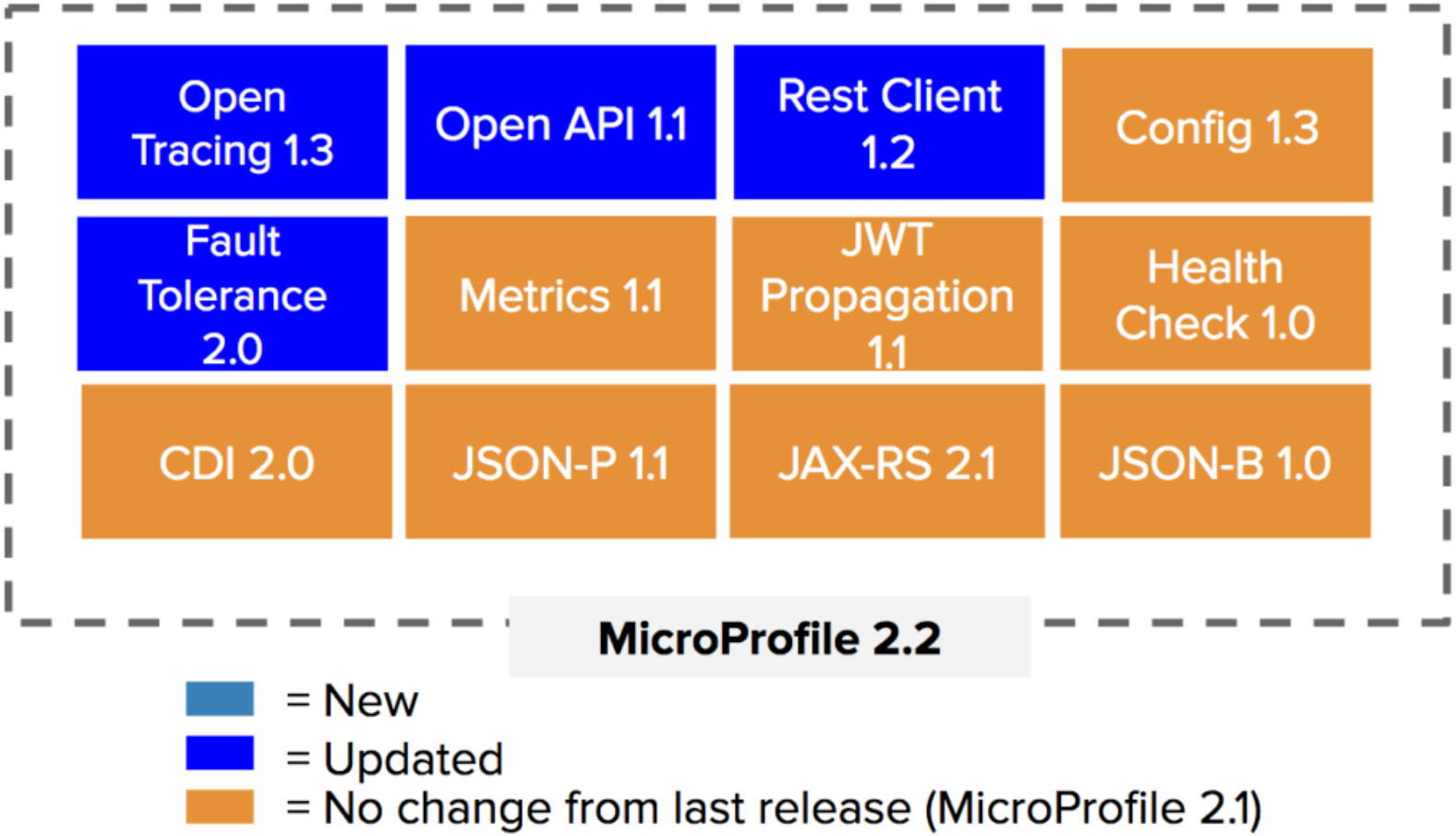
Java EE o JakartaEE

JavaEE 7



Eclipse MicroProfile

Microservicios con Java



Java EE o JakartaEE

¿Quienes?

Eclipse MicroProfile

Dependencias

```
apply plugin: 'java'
apply plugin: 'war'

war
{
    archiveName = 'Application.war'
}

repositories
{
    mavenCentral()
}

dependencies
{
    providedCompile group: 'javax', name: 'javaee-api', version: '8.0'
    providedCompile group: 'org.eclipse.microprofile', name: 'microprofile', version: '2.1'
}
```

Java EE o JakartaEE

Tolerancia a Fallos

```java
@GET
@Path("/{id}")
public Response findById(@PathParam("id") final String id) {
    //Logic and magic
    return Response.ok().build();
}
```

Java EE o JakartaEE

Tolerancia a Fallos

```java
@GET
@Path("/{id}")
@Timeout(300)
public Response findById(@PathParam("id") final String id) {
    //Logic and magic
    return Response.ok().build();
}
```

Java EE o JakartaEE

Tolerancia a Fallos

```java
@GET
@Path("/{id}")
@Timeout(300)
@Retry(maxRetries = 5, delay = 60)
public Response findById(@PathParam("id") final String id) {
    //Logic and magic
    return Response.ok().build();
}
```

Java EE o JakartaEE

Tolerancia a Fallos

```
@GET
@Path("/{id}")
@Timeout(300)
@Retry(maxRetries = 5, delay = 60)
@Fallback(fallbackMethod = "findByIdFallBack")
public Response findById(@PathParam("id") final String id) {
    //Logic and magic
    return Response.ok().build();
}

public Response findByIdFallBack(@PathParam("id") final String imdbId) {
    //more magic from cache here
    return Response.ok().build();
}
```

Java EE o JakartaEE

Métricas

```
@GET
@Path("/{id}")
@Timeout(300)
@Counted(name = "queries")
@Retry(maxRetries = 5, delay = 60)
@Fallback(fallbackMethod = "findByIdFallBack")
public Response findById(@PathParam("id") final String id) {
    //Logic and magic
    return Response.ok().build();
}

public Response findByIdFallBack(@PathParam("id") final String imdbId) {
    //more magic from cache here
    return Response.ok().build();
}
```

Java EE o JakartaEE

Métricas

```
@Inject
@Metric
Counter failures;

@GET
@Path("/{id}")
@Timeout(300)
@Counted(name = "queries")
@Retry(maxRetries = 5, delay = 60)
@Fallback(fallbackMethod = "findByIdFallBack")
public Response findById(@PathParam("id") final String id) {
    //Logic and magic
    return Response.ok().build();
}

public Response findByIdFallBack(@PathParam("id") final String imdbId) {
    //more magic from cache here
    failures.inc();
    return Response.ok().build();
}
```

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Monolitos o Microservicios

¿Preguntas?

INVERSIONES INTELECTUALES

¡ Muchas Gracias !

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