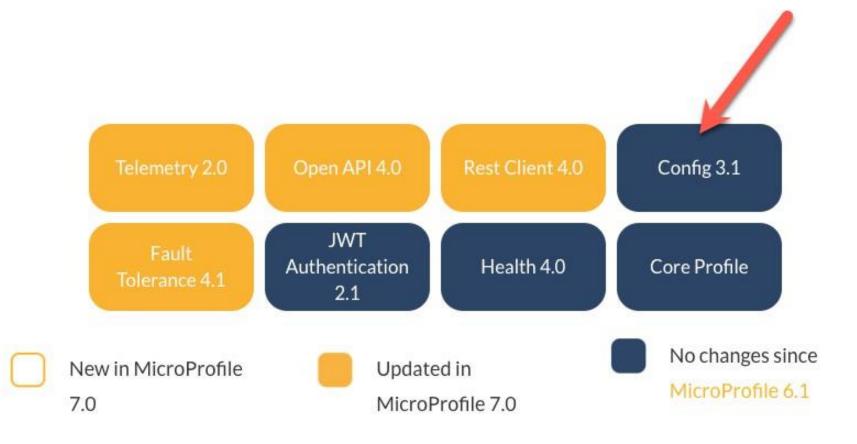
# Desarrollo de micro servicios cloud-native con Quarkus

# Administrando la configuración de la aplicación en Microservicios

#### MicroProfile 7.0

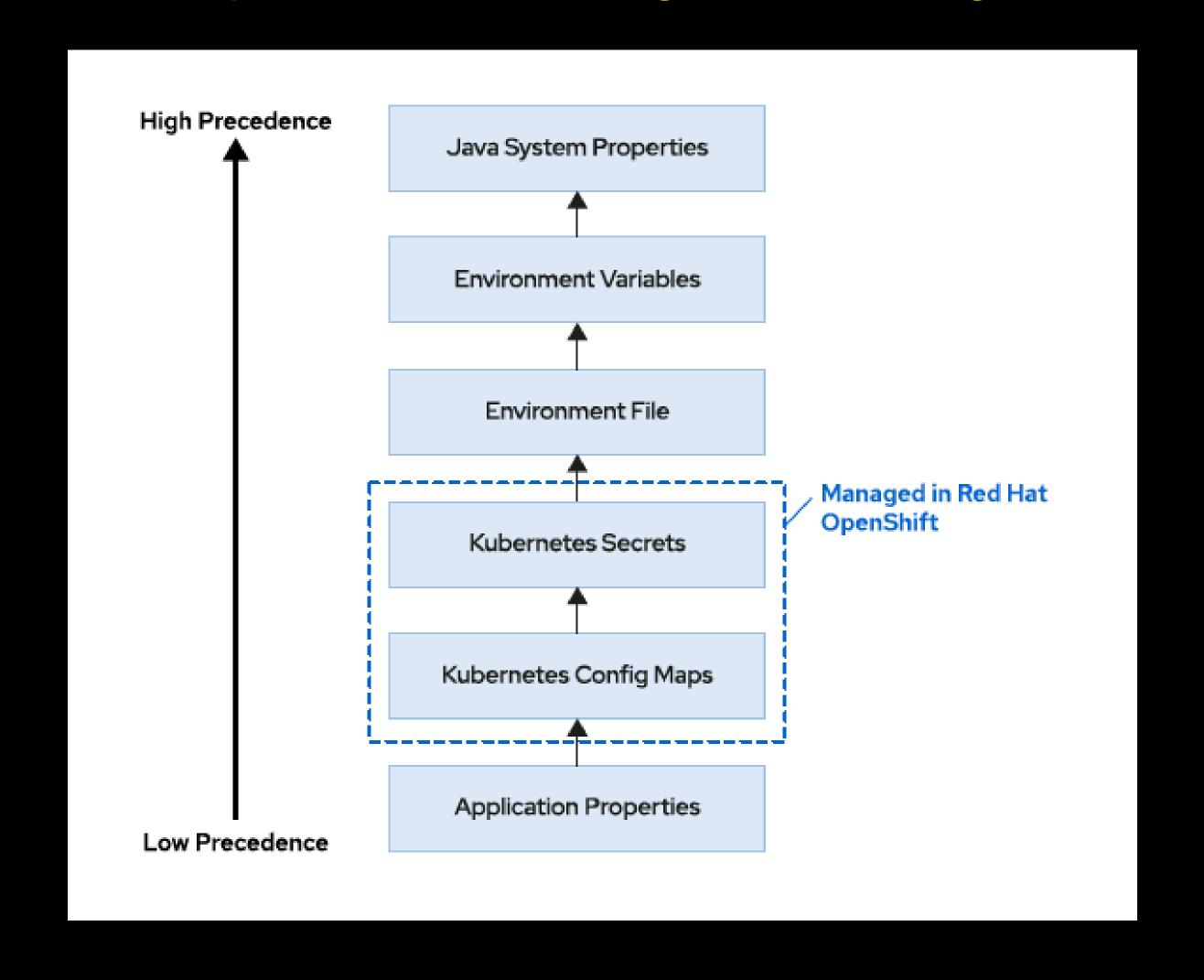
MicroProfile 7.0 is a major release that introduces significant changes, notably replacing MicroProfile Metrics with the more comprehensive MicroProfile
Telemetry 2.0. Additionally, it specifies
Jakarta EE 10 Core Profile as a dependency, simplifying integration. This release also includes updates to several specifications, and allows certification on Java SE 11 and higher.

MicroProfile 7.0 Presentation



#### SmallRye Config Library

#### Orden de precedencias en orígenes de configuración



# Desarrollando microservicios basados en REST

### Especificacione

S

#### JakartaEE y Microprofile

- ArC -> Jakarta Context and Dependency Injection
- RESTEasy -> JAX-RS
- Jackson, un framework que mapea objetos Java hacia y desde JSON

#### jakarta.enterprise.context

#### Common Class-level Lifecycle Annotations

Annotation	Scope
@ApplicationScoped	ArC instantiates the object one time and reuses the instance for all injection points.
@RequestScoped	ArC instantiates a new object for each HTTP request.
@SessionScoped	When you use the quarkus-undertow extension, the javax.servlet.http.HttpSession object manages the lifespan of a session-scoped bean.

Annotation	Scope
@Dependent	A dependent scope binds a property object instance to its parent Java object. Arc provides a new instance to each parent object, and destroys the instance with the parent object.

#### Descubrimiento de Beans en la Inyección de Dependencias

Clases descubiertas por el ArC dependency injection

- Clases Application que son anotadas con anotaciones como @ApplicationScoped
- 2. Dependencias en el archivo beans.xml
- 3. Clases referenciadas en el indice Jandex
- 4. Clases referenciadas por el quarkus.index-dependency property en el application.properties

### Limitaciones ArC

1. Java Reflection. No se recomienda usar campos privados.

```
@ApplicationScoped
public class GreeterBean {
   @Inject
   GreeterService greeter;
}
```

Es mejor usar inyección por constructor:

```
@ApplicationScoped
public class GreeterBean {
   private GreeterService greeter;
   public GreeterBean(GreeterService greeter) {
     this.greeter = greeter;
   }
}
```

### Limitaciones ArC

#### 2. beans.xml

Arc ignora el contenido del descriptor en el archivo beans.xml, y no soporta configurar interceptors, decorators, o alternatives usando el archivo beans.xml

#### 3. BeanManager

Esta clase implementa los siguientes métodos: getBeans(), createCreationalContext(), getReference(), getInjectableReference(), resolve(), getContext(), fireEvent(), getEvent(), y createInstance().

4. Quarkus no soporta @ConversationalScoped y @Interceptors, extensiones portables, especialización, passivization y passivizing scopes, y métodos interceptors en super clases.

# Implementando REST APIs con JAX-RS

#### JAX-RS Class and Method-level Annotations Summary

Annotation	Description
@Path	A relative request path for a class or method.
@GET, @PUT, @POST, @DELETE, @HEAD	An endpoint HTTP verb.
@Produces, @Consumes	The Internet media types for the content consumed as the request parameters or produced as the response. The javax.ws.rs.core.MediaType class specifies the allowed values.

#### JAX-RS Method Parameter-level Annotations Summary

Annotation	Description
@PathParam	Retrieves a method parameter from a segment of the URI.
@QueryParam	Retrieves a method parameter from an HTTP query parameter by using the query parameter name.
@HeaderParam	Retrieves a method parameter from a header in the HTTP request by using the header name.
@FormParam	Retrieves a method parameter from a form field by using the form field name.

Annotation	Description
@Context	Returns the context of the HttpServletRequest object or the SecurityContext object for the incoming HTTP request.
	Additionally, you can use this annotation to inject class-level variables and the UriInfo for incoming requests.

### Gracias

www.joedayz.pe