

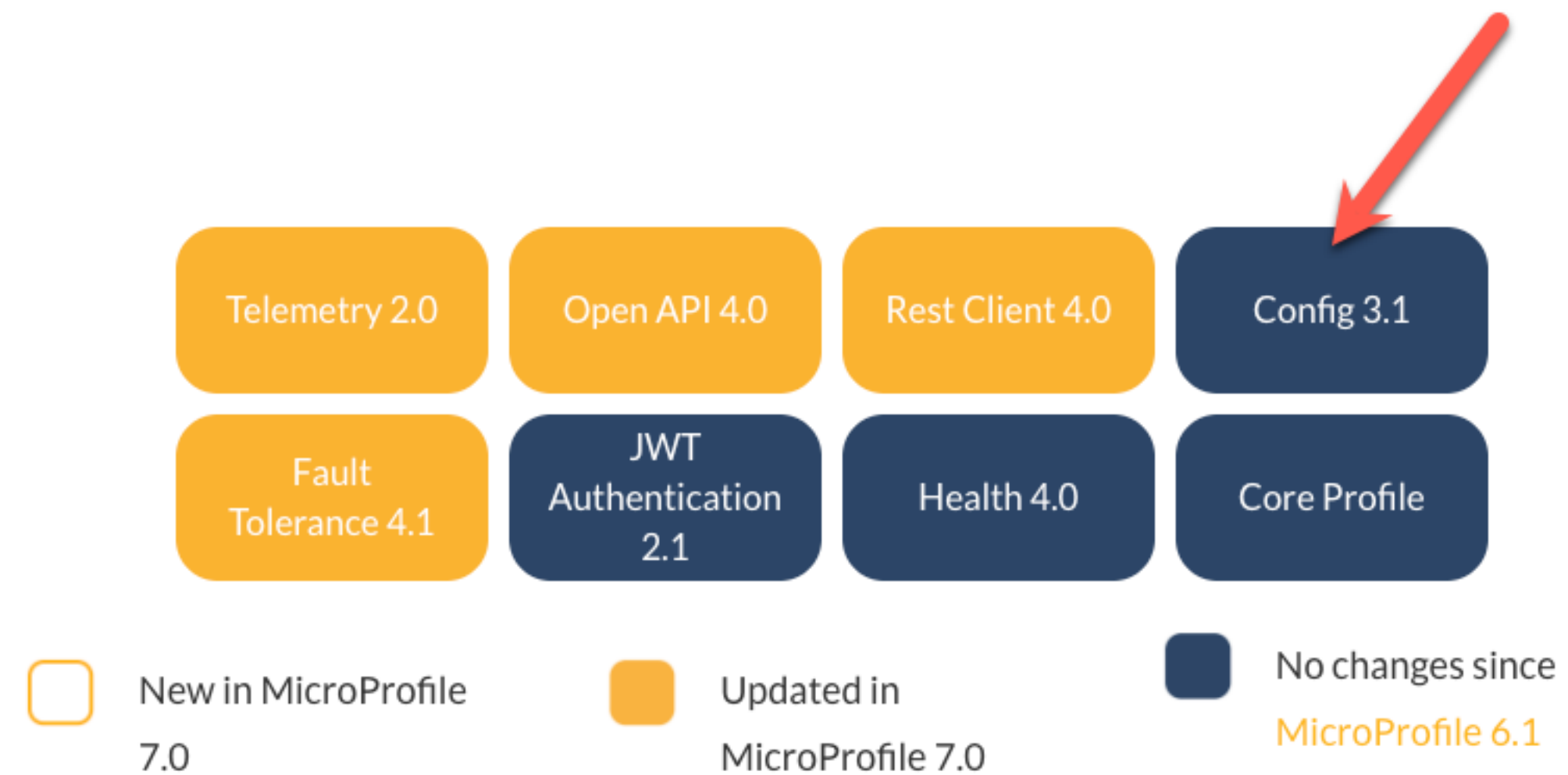
Desarrollo de micro servicios cloud-native con Quarkus

Administrando la configuración de la aplicación en Microservicios

MicroProfile 7.0

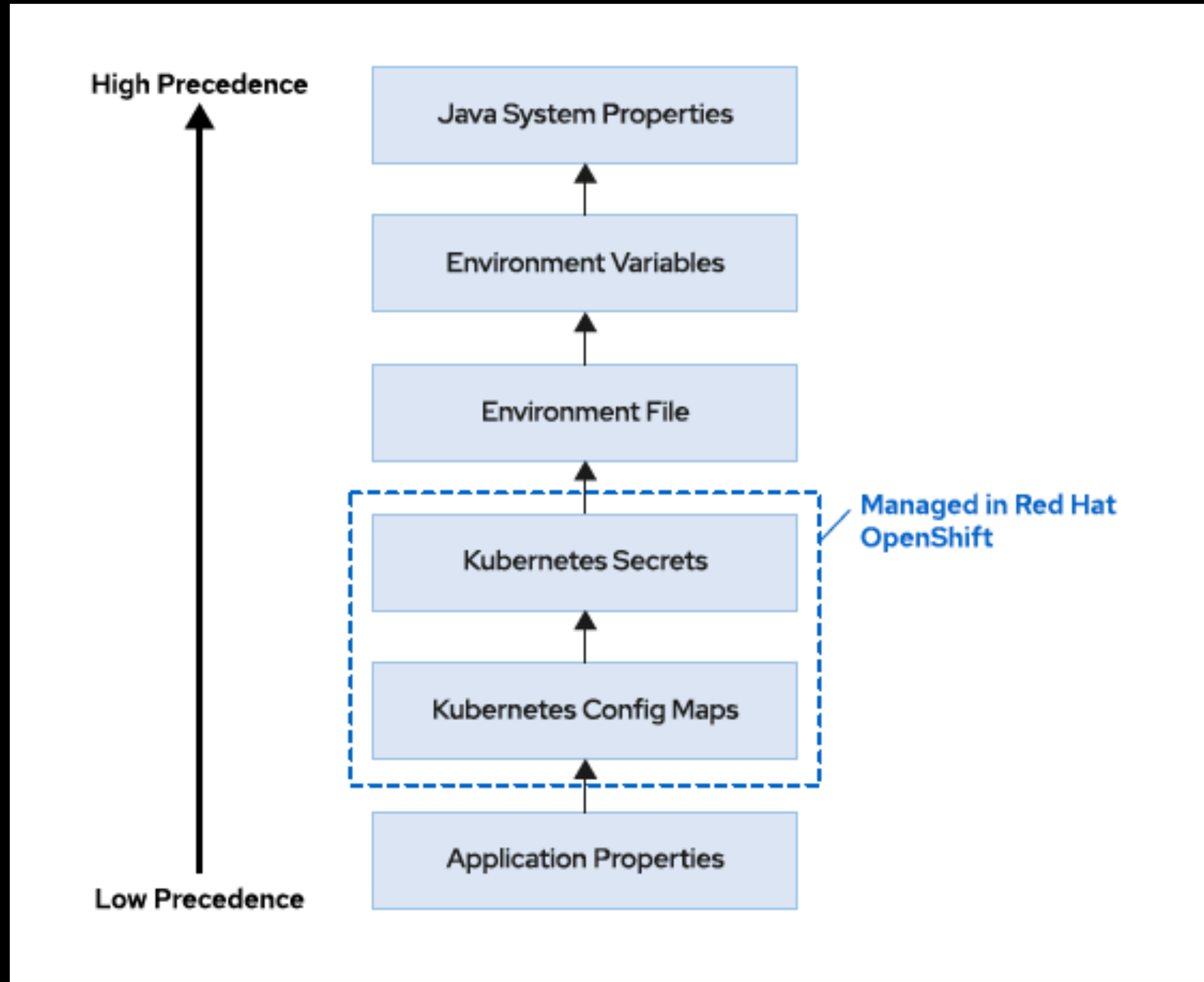
MicroProfile 7.0 is a major release that introduces significant changes, notably replacing MicroProfile Metrics with the more comprehensive MicroProfile Telemetry 2.0. Additionally, it specifies Jakarta EE 10 Core Profile as a dependency, simplifying integration. This release also includes updates to 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

Especificaciones

JakartaEE y Microprofile

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

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 <code>jandex.servlet.http.HttpSession</code> 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

1. Clases Application que son anotadas con anotaciones como `@ApplicationScoped`
2. Dependencias en el archivo `beans.xml`
3. Clases referenciadas en el índice 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 `@Interceptros`, 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 <code>javax.ws.rs.core.MediaType</code> 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	<p>Returns the context of the <code>HttpServletRequest</code> object or the <code>SecurityContext</code> object for the incoming HTTP request.</p> <p>Additionally, you can use this annotation to inject class-level variables and the <code>UriInfo</code> for incoming requests.</p>

Gracias

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