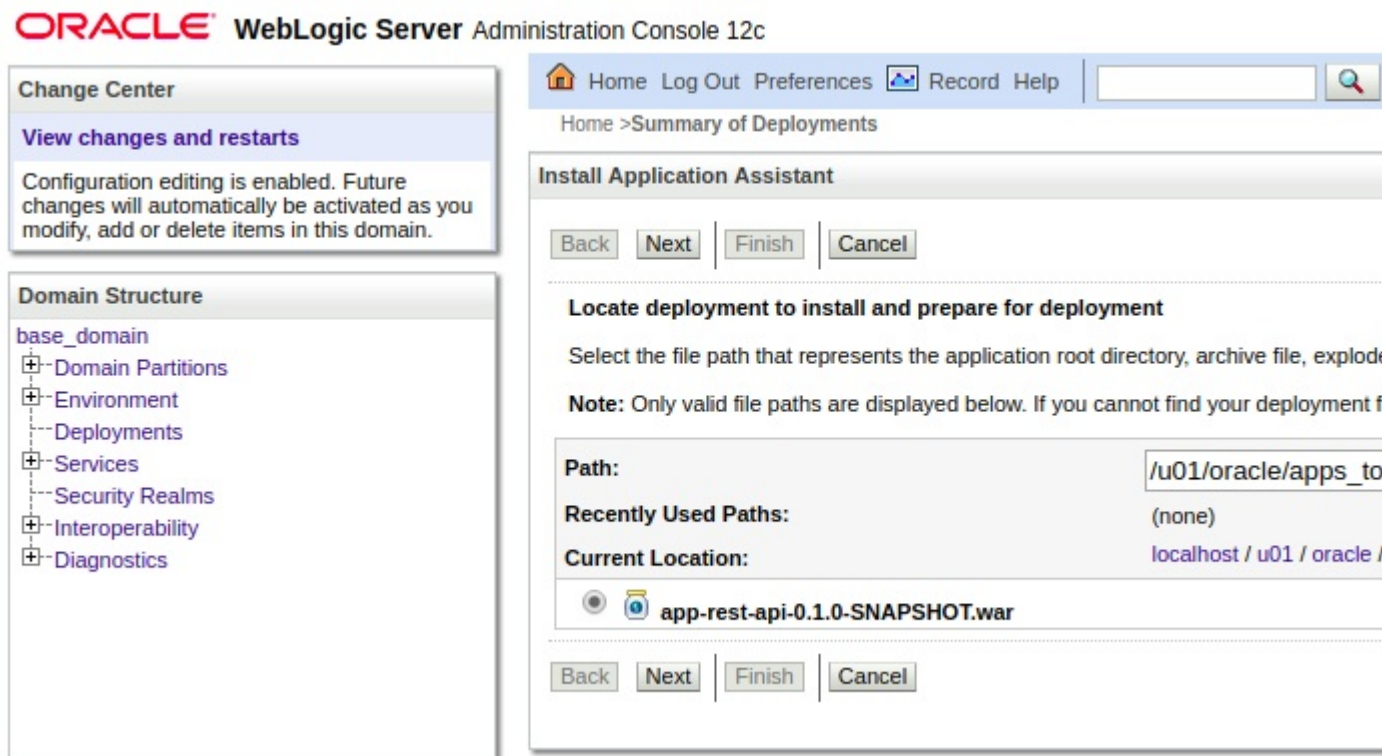


Despliegue del API REST en Weblogic

En el clase anterior creamos una aplicación REST que nos consumía datos del contenedor con el Oracle DB. A continuación vamos a ver como desplegar esta aplicación en WL y en la siguiente sección de esta clase veremos como poder consumirlo [pulsa aquí para ir directamente](#).

Tras tener el archivo *war* como vimos en la anterior clase y copiado al contenedor (a modo de recordatorio empleando el comando `docker cp ./OpenwebinarDockerAPI/openwebinar_mavel/app-rest-api/target/app-rest-api-0.1.0-SNAPSHOT.war oracle-wl:/u01/oracle/apps_to_deploy/` adaptado al path de la máquina de cada uno).

Deberemos ir a la consola de WL e ir a la sección de *Deployments*. Ahí se nos abrira una nueva vista y deberemos pulsar sobre el botón de **install**, nos aparecerá la siguiente vista y deberemos poner en el input lo que se muestra en la imagen:



- **Path:** /u01/oracle/apps_to_deploy/app-rest-api-0.1.0-SNAPSHOT.war
- **Current Location:** deberá estar seleccionado *app-rest-api-0.1.0-SNAPSHOT.war*.

Y a continuación pulsaremos sobre el botón *Next* para poder pasar a la siguiente vista que nos preguntará si nuestro **WAR** es una **aplicación** o una librería:

Change Center

View changes and restarts

Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.

Domain Structure

- base_domain
 - Domain Partitions
 - Environment
 - Deployments
 - Services
 - Security Realms
 - Interoperability
 - Diagnostics

How do I...

- Start and stop a deployed enterprise application

Home Log Out Preferences Record Help

Home > Summary of Deployments

Install Application Assistant

Back Next Finish Cancel

Choose installation type and scope

Select if the deployment should be installed as an application or library. Also decide

The application and its components will be targeted to the same locations. This is the

☒ **Install this deployment as an application**

Application libraries are deployments that are available for other deployments to share

☐ **Install this deployment as a library**

Select a scope in which you want to install the deployment.

Scope:

Back Next Finish Cancel

Seleccionaremos la opción **Install this deployment as an application** y pulsaremos sobre *Next*. En la siguiente vista sólo seleccionaremos la opción **I will make the deployment accessible from the following location:**

Install Application Assistant

[Back](#) [Next](#) [Finish](#) [Cancel](#)

Optional Settings

You can modify these settings or accept the defaults.

* Indicates required fields

General

What do you want to name this deployment?

* Name:

Security

What security model do you want to use with this application?

- ☒ **DD Only:** Use only roles and policies that are defined in the deployment descriptors.
- ☐ **Custom Roles:** Use roles that are defined in the Administration Console; use policies that are defined in the deployment descriptors.
- ☐ **Custom Roles and Policies:** Use only roles and policies that are defined in the Administration Console.
- ☐ **Advanced:** Use a custom model that you have configured on the realm's configuration page.

Source Accessibility

How should the source files be made accessible?

- ☐ Use the defaults defined by the deployment's targets

Recommended selection.

- ☐ **Copy this application onto every target for me**

During deployment, the files will be copied automatically to the Managed Servers to which the application is targeted.

- ☒ **I will make the deployment accessible from the following location**

Location:

Provide the location from where all targets will access this application's files. This is often a shared directory. You must ensure the application is accessible from this location.

Plan Source Accessibility

How should the plan source files be made accessible?

- ☒ **Use the same accessibility as the application**

Recommended selection.

- ☐ **Copy this plan onto every target for me**

During deployment, the plan files will be copied automatically to the Managed Servers to which the application is targeted.

- ☐ **Do not copy this plan to targets**

You must ensure the plan files exist in the shared location and that each target can reach the location.

[Back](#) [Next](#) [Finish](#) [Cancel](#)

Pulsaremos sobre el botón de *Next* para terminar ya la configuración. En la vista siguiente generalmente se suele emplear la opción No, I will review the configuration later. para ir más rápido, pero en este caso para ver las distintas configuraciones seleccionaremos la opción Yes, take me to the deployment's configuration screen:

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Home > Summary of Deployments

Install Application Assistant

Back Next Finish Cancel

Review your choices and click Finish

Click Finish to complete the deployment. This may take a few moments to complete

Additional Configuration

In order to work successfully, this application may require additional configuration. Do you want to configure now?

☒ Yes, take me to the deployment's configuration screen.

☐ No, I will review the configuration later.

Summary

Deployment:	/u01/oracle/apps_to_deploy/app-rest-
Name:	app-rest-api-0.1.0-SNAPSHOT
Staging Mode:	I will make the deployment accessible
Plan Staging Mode:	Use the same accessibility as the appl
Security Model:	DDOnly: Use only roles and policies t
Scope:	Global

Target Summary

Components
app-rest-api-0.1.0-SNAPSHOT

Back Next Finish Cancel

Change Center

View changes and restarts

Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.

Domain Structure

- base_domain
 - Domain Partitions
 - Environment
 - Deployments
 - Services
 - Security Realms
 - Interoperability
 - Diagnostics

How do I...

- Start and stop a deployed enterprise application
- Configure an enterprise application
- Create a deployment plan
- Target an enterprise application to a server instance
- Test the modules in an enterprise application

System Status

Health of Running Servers as of 9:51 AM

Failed (0)
Critical (0)
Overloaded (0)
Warning (0)
OK (1)

Tras pulsar a *Next* se nos pondrá una vista con la configuración general de WAR:

Change Center

View changes and restarts

Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.

Domain Structure

- base_domain
 - Domain Partitions
 - Environment
 - Deployments
 - Services
 - Security Realms
 - Interoperability
 - Diagnostics

How do I...

- Deploy Web applications
- Configure Web applications
- Create a deployment plan
- Test the deployment
- Monitor Web applications and servlets

System Status

Health of Running Servers as of 9:52 AM

<div></div>	Failed (0)
<div></div>	Critical (0)
<div></div>	Overloaded (0)
<div></div>	Warning (0)
<div></div>	OK (1)

[Home](#)
[Log Out](#)
[Preferences](#)
[Record](#)
[Help](#)

Home > Summary of Deployments > app-rest-api-0.1.0-SNAPSHOT

Settings for app-rest-api-0.1.0-SNAPSHOT

[Overview](#)
[Deployment Plan](#)
[Configuration](#)
[Security](#)
[Targets](#)
[Control](#)

Save

Use this page to view the installed configuration of a Web application.

Name:	app-rest-api-0.1
Scope:	Global
Context Root:	/app-rest-api
Path:	/u01/oracle/ap
Deployment Plan:	(no plan specifie
Staging Mode:	nostage
Plan Staging Mode:	(not specified)
Security Model:	DDOnly
Deployment Order:	100
Deployment Principal Name:	

Save

Modules and Components

Name
app-rest-api-0.1.0-SNAPSHOT
REST Services
None to display
Web Services
None to display

Y si vamos a la sección de **Testing** podremos ver la **dirección IP** que tiene el

contenedor y el rescuso de nuestra aplicación que definimos en el archivo `app-rest-api/src/main/webapp/WEB-INF/weblogic.xml`:

```
<wls:context-root>/app-rest-api</wls:context-root>
```

The screenshot shows the Oracle WebLogic Server Administration Console. The breadcrumb trail is "Home > Summary of Deployments > app-rest-api-0.1.0-SNAPSHOT". The page title is "Settings for app-rest-api-0.1.0-SNAPSHOT". There are several tabs: Overview, Deployment Plan, Configuration, Security, Targets, Control, Testing (selected), Monitoring, and Notes. The "Testing" tab contains instructions: "Use this page to test that the deployment of the Web application component (WAR file) was successful. If you select the Classloader Analysis Tool link, you must enter your Console login credentials." Below this is a section titled "Deployment Tests" containing a table:

Name ^	Test Point
<input type="checkbox"/> app-rest-api-0.1.0-SNAPSHOT	
/wls-cat/index.jsp	Classloader Analysis Tool
default	http://172.17.0.2:7001/app-rest-api

Salvo expresa necesidad, en nuestro caso podremos emplear localhost, ya que hemos redirigido el tráfico de nuestro localhost puerto 7001 al puerto del contenedor, como recordatorio:

```
docker run -d --name oracle-wl -p 7001:7001 -p 9002:9002 -v $PWD_WL:/u01
```

Con la opción `-p` creamos un tunel de nuestra máquina al contenedor, por ello y volviendo a nuestro caso, en vez de emplear `http://172.17.0.2:7001/app-rest-api` podremos emplear `http://localhost:7001/app-rest-api` como podemos ver en el siguiente ejemplo:

<http://172.17.0.2:7001/app-rest-api/avengers/get/1> vs <http://localhost:7001/app-rest-api/avengers/get/1>

Finalmente para validar que esté todo bien desplegado iremos a la sección de "Deployments" y deberemos ver la aplicación como se muestra a continuación:

Change Center

View changes and restarts

Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.

Domain Structure

base_domain

- [-] Domain Partitions
- [-] Environment
 - [-] **Deployments**
- [-] Services
- [-] Security Realms
- [-] Interoperability
- [-] Diagnostics

How do I...

- [Install an enterprise application](#)
- [Configure an enterprise application](#)

Home Log Out Preferences Record Help

Home > Summary of Deployments > app-rest-api-0.1.0-SNAPSHOT > Summary of Deployments

Summary of Deployments

Configuration

Control

Monitoring

This page displays the list of Java EE applications and standalone application modules.

You can update (redeploy) or delete installed applications and modules from the domain.

To install a new application or module for deployment to targets in this domain, click the **Install** button.

Customize this table

Deployments

Install Update Delete

<input type="checkbox"/>	Name
<input type="checkbox"/>	app-rest-api-0.1.0-SNAPSHOT

Install Update Delete

Deberá estar la sección de *State* a **Active** y la sección de *Health* a **OK**.