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1. Despliegue de una aplicación en un fichero war

Para desplegar una aplicación contenida en un fichero *war* se procede de la siguiente manera. Primero pinchamos la opción *Deployments*. Nos aparecerá una ventana como la siguiente en la cual se nos muestra las aplicaciones disponibles y se nos permite configurar nuevas. Vamos a pinchar en *Install*.

hia a sana alian latra a lia		م ما ما ما م	a analization mandalan that have been installed.
nis page displays a lis bis domain, installed :	st of JZEE Applications and modules	a standaion s can be sta	e application modules that have been installed ited stopped undated (redeployed) or deleter
om the domain by fir	st selecting the application	on name an	d using the controls on this page.
) install a new applica	ation or module for deploy	yment to ta	rgets in this domain, click the Install button.
Deployments			
Deployments			
Deployments Install Update	Delete Start 🔻	Stop 🔽	Showing 1 - 1 of 1 Previous Nex
Deployments Install Update	Delete Start 💌	Stop 💌	Showing 1 - 1 of 1 Previous Nex
Deployments	Delete Start T State T There a	Stop 💌 Type are no items	Showing 1 - 1 of 1 Previous Nex Deployment Order a to display

El primer paso es localizar el fichero que contendrá nuestra aplicación. Podemos hacer dos cosas. La primera es pinchar en *upload your file*, la cual nos permite cargar un fichero. La otra opción es pinchar en *localhost* y movernos por los directorios de nuestro sistema hasta encontrar el fichero a cargar.

Install Application Assistant
Back Next Finish Cancel
Locate deployment to install and prepare for deployment
Select the file path that represents the application root directory, archive file, exploded archive directory, or application module descriptor that you want to install.
Note: Only valid file paths are displayed below. If you cannot find your deployment files, upload your file(s) and/or confirm that your application contains the required deployment descriptors.
Location: localhost / \
There are no files at the current path which are selectable.
Back Next Finish Cancel

Cuando encontremos el fichero, simplemente debemos seleccionarlo y pinchar en Next.

stal	I Application Assistant
3ack	Next Finish Cancel
Loc	ate deployment to install and prepare for deployment
Sele	ect the file path that represents the application root directory, archive file, exploded archive directory,
ora	pplication module descriptor that you want to install.
Not	
_	a: Only valid tild notifier are displayed below. It you cannot tind your deployment tilds, upload your tild st.
and	e: Only valid file paths are displayed below. If you cannot find your deployment files, upload your file(s) for confirm that your application contains the row ired deployment descriptors.
and/	e: Only valid file paths are displayed below. If you cannot find your deployment files, upload your file(s) for confirm that your application contains the required deployment descriptors.
and	e: Only valid file paths are displayed below. If you cannot find your deployment files, upload your file(s) for confirm that your application contains the required deployment descriptors.
and,	e: Only valid file paths are displayed below. If you cannot find your deployment files, upload your file(s) for confirm that your application contains the required deployment descriptors. ion: localhost / home / miguel / forrest
and,	e: Only valid file paths are displayed below. If you cannot find your deployment files, upload your file(s) for confirm that your application contains the required deployment descriptors.
and,	e: Only valid file paths are displayed below. If you cannot find your deployment files, upload your file(s) for confirm that your application contains the required deployment descriptors. ion: localhost / home / miguel / forrest
and,	e: Only valid file paths are displayed below. If you cannot find your deployment files, upload your file(s) for confirm that your application contains the required deployment descriptors. ion: localhost / home / miguel / forrest jdbc nuevoldbc
and,	e: Only valid file paths are displayed below. If you cannot find your deployment files, upload your file(s) for confirm that your application contains the required deployment descriptors. ion: localhost / home / miguel / forrest jdbc nuevojdbc
and,	e: Only valid file paths are displayed below. If you cannot find your deployment files, upload your file(s) for confirm that your application contains the required deployment descriptors. ion: localhost / home / miguel / forrest jdbc nuevoJdbc nuevoSA
and,	e: Only valid file paths are displayed below. If you cannot find your deployment files, upload your file(s) for confirm that your application contains the required deployment descriptors. ion: localhost / home / miguel / forrest jdbc nuevoJdbc nuevoSA homefits wor

La siguiente opción nos indica que tenemos que indicar si es una aplicación o bien una librería que podrá ser usada por otras aplicaciones. Pinchamos en *Next*

stall	Application Assistant
Back	Next Finish Cancel
Choo	se targeting style
Targe ways	ts are the servers, clusters, and virtual hosts on which this deployment will run. There are several you can target an application.
(÷	Install this deployment as an application
Th us	e application and its components will be targeted to the same locations. This is the most common age.
C	Install this deployment as a library
Ap sh	oplication libraries are deployments that are available for other deployments to share. Libraries Jould be available on all of the targets running their referencing applications.

Ahora nos indica en qué servidor o servidores queremos desplegar nuestra aplicación. Seleccionamos los servidores (deben estar en ejecución) y pinchamos en *Next*.

Back Next Finish	Cancel
Select deployment targe Select the servers and/or clu deployment targets later).	e ts Isters to which you want to deploy this application. (You can reconfigure
ailable targets for benefits	
vailable targets for benefits Gervers	
railable targets for benefits Gervers AdminServer	
railable targets for benefits Gervers AdminServer Servidor2	

Ahora se nos permite configurar una serie de opciones (mostradas en la siguiente figura). Lo primero es cómo queremos que se llame la aplicación dentro del sistema. Lo siguiente son opciones de seguridad: si queremos que se use la información contenida en el descriptor de la aplicación, configurar nosotros la política de privacidad. El último grupo de opciones indican dónde van a quedar los fuentes (el fichero .war) situados.

nstall Application A	ssistant
Back Next Fini	ish Cancel
Optional Settings	
You can modify these	settings or accept the defaults
General	
What do you want	to name this deployment?
Name:	benefits
— Security ———	
What security mo	del do you want to use with this application?
Use the secur descriptors	rity roles and policies exactly as they are provided in the deployment
Customize th later	e security roles used by policies provided in the deployment descriptors
CUse custom r	oles and policies other than those in the descriptors
CUse security	realm configuration (advanced option)
— Source accessib	pility
How should the s	ource files be made accessible?
Use the defa	ults defined by the deployment's targets
Recommended se	election.
Copy this ap	plication onto every target for me
During deployme application is targ	nt, the files will be copied automatically to the managed servers to which the jeted.
ि। will make tl	he deployment accessible from the following location
Location:	/home/miguel/forrest/benefits.war
Provide the locati directory. You mus location.	on from where all targets will access this application's files. This is often a shared st ensure the application files exist in this location and that each target can reach the
Back Next Fin	lish Cancel

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Hemos llegado a las últimas opciones (ver la siguiente figura) donde le podemos decir que nos lleve a la ventana de configuración de los despliegues. Seleccionamos esta opción y pinchamos en *Finish*.

stall Application Assi	stant	
Back Next Finish	Cancel	
Review your choices	and click Finish	
Click Finish to complete t	the deployment. This may tak	ce a few moments to complete.
- Additional configur In order to work succ review this application ^{(*} Yes, take me to ^{(*} No, I will review	ation essfully, this application may n's configuration after comple the deployment's config the configuration later.	require additional configuration. Do you want to #ting this assistant? uration screen.
– Summary –––––		
Deployment:	/home/miguel/forrest/ben	iefits.war
Name:	benefits	
Staging mode:	Use the defaults defined	by the chosen targets
Security Model:	Use the security roles and deployment descriptors	d policies exactly as they are provided in the
arget Summary		
Modules 🚕		Targets
benefits		AdminServer

Hemos pasado a la siguiente ventana, a la que podemos llegar desde la opción de *Deployments*, donde ya nos tiene que aparecer la aplicación recién desplegada. En esta primera opción podemos modificar el orden de despliegue (*Deployment order*). Esta opción nos permite configurar cuándo queremos que se despliegue una aplicación. Si nuestro sistema tiene varias aplicaciones y queremos que una de ellas se despliegue antes que otra (debido a que la segunda necesita algún elemento de la primera), simplemente le damos un valor de orden menor a la primera.

verview Configuration	Security	Targets	Control	Testing	Monitoring	Notes	
Save	······································		·······				
Use this page to view t	he installe	d configu	ration of a	a Web App	olication.		
N	h a nafita						
Name:	benefits						
Context Root:	(No valu	ie specifie	d)				
Path:	/home/n	niguel/for	rest/bene	fits.war			
Deployment Plan:	(no plan	specified)				
Staging Mode:	(not spe	cified)					
Security Model:	DDOnly						
Deployment Order:	100						

La solapa *Configuration ->General* nos permite visualizar y modificar parte del contenido del descriptor de la aplicación.

Save							
In this page, you define with this Web application	e the confi on module	guration c	of the app	lication d	eployment d	escriptor file	e that is associated
Session cookies max age (in seconds):	-1						
Session Invalidation Interval (in seconds):	60						
Session Timeout (in seconds):	3600						
⊤Debug Enabled							
Maximum in-memory Sessions:	-1						
Monitoring							

La solapa *Configuration ->Logging* permite definir qué información se genera de la aplicación (fichero log) y de qué forma se guarda.

verview Configuration	Security Targets Control Testing Monitoring Notes
General Logging	
Save	
In this page, you defin	as the configuration of the log file accession d with this web application module
in this page, you delir	te the configuration of the log file associated with this web application module.
/ Log File Name	
Log File Name:	
🗁 Enable Loggin	9
Rotation Type:	bySize V
∏Number of File	s Limited
File Count:	7
File Size Limit:	500
🚑 🔽 Rotate Log on	Startup
4 Log Rotation	
Directory:	

La solapa de seguridad la veremos más adelante. La solapa *Targets* permite modificar los servidores o cluster donde se despliega esta aplicación.

verview	Configuration	Security	Targets	Control	Testing	Monitoring	Notes
Save							
Use thi	s page to selec	t the Webl	_ogic Serv	er instand	es and c	lusters, and \	virtual hosts on which you
Use thi would li	s page to selec ke to deploy th	t the Webl is Web app	ogic Servolication.	er instand	es and c	lusters, and \	virtual hosts on which you
Use thi would li	s page to selec ke to deploy th	t the Webl is Web app	ogic Serve	er instand	es and c	lusters, and v	rirtual hosts on which you
Use thi would li Servers	s page to selec ke to deploy th	t the Webl is Web app	_ogic Serv olication.	er instand	es and c	lusters, and \	virtual hosts on which you
Use thi would li Servers	s page to selec ke to deploy th Server	t the Webl is Web app	ogic Serve	er instand	es and c	lusters, and v	virtual hosts on which you
Use thi would li Servers Admir servid	s page to selec ke to deploy th Server or2	t the Webl is Web app	ogic Serv	er instand	es and c	lusters, and v	virtual hosts on which you

Pasamos a *Control*, donde podemos poner en marcha o parar una aplicación. Tenemos los botones de *Start* y *Stop*. Dentro del primero podemos arrancar la aplicación para que responda a todas las peticiones o sólo a las administrativas (para configurar la aplicación). En la opción de parar, podemos elegir entre parar cuando el trabajo de la aplicación termine, forzar la parada ahora o parar al servidor pero permitir conexiones de administración.

ven	view C	onfiguration	Security	Targets	Control	Testing	Monitoring	Notes		
his ı	oaqe is	used to stop	and start a	a Web apr	lication.					
10000										
Mor	مليلة									
100	aute									
St	art	Stop					ch	owing 1	lofi Dr.	ouious I Nord
St	art 🖛	Stop 💌					Sh	owing 1 -	lofl Pr	evious Next
St.	art 💌 Name	Stop 🔽					Sh	owing 1 -	lofl Pro	evious Nex
st Г	art ▼ Name ⊡ ben	Stop ▼ • ↔ efits					Sh	owing 1 -	l of l Pro	evious Nex Type Web Application
St	art 💌 Name 🗆 ben	Stop 💌					sh	owing 1 -	l of l Pro	evious Next Type Web Application

Si pinchamos en Start nos pedirá confirmación de lo que queremos hacer (siguiente figura).

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Start Application	Assistant
--------------------------	-----------

Yes No	
Start Deployments	
You have selected the following deployments to be started. Click 'Yes' to continue, or 'No' to cancel.	
benefits	
Yes No	

La opción de *Testing* permite probar la aplicación. Si nos fijamos, nos está diciendo la url asociada a la aplicación, incluso su página principal.

Configuration	Security	Targets	Control	Testing	Monitoring	Notes
age to test th	at the deplo	oyment of	the Web a	applicatio	n componen	t (WAR file) was successful.
nent Tests						
Lock & Edit	button in tl	he Chang	e Center t	o activat	e all the butt	ons on this page.
					Sho	owing 1 - 1 of 1 Previous Ne
≈ Test	Point				Sho Comment	owing 1 - 1 of 1 Previous Ne <mark>s</mark>
≈ Test	Point				Sho Comment	owing 1 - 1 of 1 Previous Ne s
	Point	7001/ben	efits		Sho Comment Default url	owing 1 - 1 of 1 Previous Ne s on server AdminServer
	Configuratior age to test th nent Tests Lock & Edit	Configuration Security age to test that the deplo nent Tests Lock & Edit button in t	Configuration Security Targets age to test that the deployment of nent Tests Lock & Edit button in the Chang	Configuration Security Targets Control age to test that the deployment of the Web a nent Tests Lock & Edit button in the Change Center to the test of the test of the test of	Configuration Security Targets Control Testing age to test that the deployment of the Web application ment Tests Lock & Edit button in the Change Center to activat	Configuration Security Targets Control Testing Monitoring age to test that the deployment of the Web application componen ment Tests Monitoring Monitoring Lock & Edit button in the Change Center to activate all the butt

La aplicación desplegada responde en el servidor *adminserver*. Tenemos que poner el puerto de escucha.

Welcome To Staplerz

Select What Benefits You Would Like To See



alorz 2001

Por último, la solapa de *Monitoring* nos permite monitorizar el estado de la aplicación, indicándonos, entre otros, los servlets que contiene la aplicación o el número de sesiones abiertas.

	configuration									
Web App	olications	ervlets Se	ssions \	Workload	ł					
e this pa rver on w b applica	ge to monitor hich the Web a ation.	the current W pplication is	Veb applic: deployed,	ation. It and sta	includes inf itistics abou	ormation about It the number o	the applica f servlets a	ation such a nd sessions	s the machi associated	ne and with this
Custom	ize this table									
eb App	lications									
lick the	lications Lock & Edit t	utton in the	Change C	enter to	activate al	the buttons or	this page.			
Veb App	lications	utton in the	Change C	enter to	activate al	the buttons or	this page.	Showing 1	-lofl Pre	vious Ne
Click the Click	lications	Server	Change C	enter to	activate al Active Serve Count	the buttons or Source	this page.	Showing 1	- 1 of 1 Pre Sessions High	vious Ne Total Sessior

Siguiendo con las opciones de monitorizado, *Servlets* nos permite echar un vistazo a los servlets de la aplicación, su tiempo de respuesta, etc.

Overview Configuration Security Targets Control Testing Monitoring Notes Web Applications Servlets Sessions Workload

Use this page to monitor the servlets associated with this Web Application along with the following information about each servlet:

- The WebLogic Server instance with which it is associated.
 The total number of times the servlet has been invoked since WebLogic Server started.
 The average time it took to execute the servlet.

Customize this table

Servlets

Click the Lock & Edit button in the Change Center to activate all the buttons on this page.

										Showin	g 1 - 7 of 1
Servlet Name 🊕	Context Root	Application	Server	Machine	Reload Total Count	Invocation Total Count	Pool Max Capacity	Execution Time Total	Execution Time High	Execution Time Low	Execution Time Average
/company.jsp	/benefits	benefits	AdminServer		1	1	0	64	64	64	64
/dental.jsp	/benefits	benefits	AdminServer		1	1	0	1	1	1	1
/vision.jsp	/benefits	benefits	AdminServer	_	1	1	0	1	1	1	1
Benefits	/benefits	benefits	AdminServer		1	4	0	10299	7974	817	2574
FileServlet	/benefits	benefits	AdminServer		1	1	0	14	14	14	14
JspServlet	/benefits	benefits	AdminServer		1	3	0	10231	7907	817	3410
WebServiceServlet	/benefits	benefits	AdminServer		1	0	0	0	0	0	0

También se puede monitorizar las sesiones.

verview	Configura	ition	Secur	rity	Targets	Control	Testing	Monitorin	g Notes		
Web App	lications	Serv	lets	Ses	sions	Workload					
lse this p	age to vie	w stat	istics a	abou	it the ses	ssions ass	ociated v	vith this We	b application.		
Custor	nize this ta	able									
Servlet Click the	Sessions Lock & I	Edit b	outton	in th	ie Chang	e Center I	to activat	e all the bi	uttons on this	oage.	
Servlet ! Click the	Sessions : Lock & I	Edit b	outton	in th	e Chang	e Center I	to activat	e all the bi	uttons on this Showing 1 -	bage. lofl Prev	ious Nex
Servlet : Click the Monito	Sessions Lock & l	E dit k	outton	in th	e Chang	e Center f	to activat	e all the bu Context Root	Showing 1 - Server	l of 1 Prev Time Last Accessed	ious Nex Max Inactive Interval

2. Despliegue de una aplicación en un directorio

Si tenemos una aplicación en un directorio, podemos desplegarla directamente. Lo que hace WebLogic es copiarla a un directorio de despliegue. Cualquier modificación que hagamos en el directorio original no se verá reflejada en la aplicación. La aplicación sin comprimir la podemos dejar en cualquier directorio del sistema. Seguimos los mismos pasos que para una aplicación en un fichero: creamos una nueva aplicación y buscamos el directorio donde tenemos la aplicación. Nos aparecerá un icono distinto a la aplicación desplegada como fichero comprimido.

Back	Next Finish Cancel	
Loc	cate deployment to install and prepare for deployment	1 1 1 1 1 · · · ·
Sele or a	ect the file path that represents the application root directory, archive fi application module descriptor that you want to install.	le, exploded archive directory,
Not and	te: Only valid file paths are displayed below. If you cannot find your depl //or confirm that your application contains the required deployment des	oyment files, upload your file(s) criptors.
Loca	tion: localhost / home / miguel / workspace	
	🗀 .metadata	
	DBC1r	
	JDBC2	
	DBC2r	
	С јовсз	
	DBC3r	
	JDBC4	
	JDBC4r	
	Øl time ut	8
C	umeon .	

Sin embargo, algunas veces es necesario tener desplegada la aplicación e ir modificando el fichero de descripción u otras partes de la aplicación. Esto lo podemos hacer en modo desarrollo. Existe un directorio, dentro del dominio, llamado *autodeploy*. En este directorio,

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cualquier aplicación, tanto en fichero comprimido como en directorio, que copiemos aparecerá en la lista de aplicaciones desplegadas. Si nos fijamos en la lista de aplicaciones de la siguiente figura veremos que indica que la aplicación ha sido *autodeployed*.

ļ				
is pag	ge displays a list of J2EE Applications and sta	andalone application module	s that have b	peen installed t
s aon m the	e domain by first selecting the application n	ame and using the controls	on this page.	ea), or deleted
			-8-1-1	-11 1-11
Instal	ii a new application or module for deployme	nt to targets in this domain,	click the inst	all putton.
eplo	yments			
Instal	II Update Delete Start 🔻 Stop	showi	ng 1 - 1 of 1	Previous Nex
Instal	II Update Delete Start 💌 Stop	showin	ng 1 - 1 of 1 Type	Previous Nex Deployment Order
Instal	II Update Delete Start 💌 Stor	Showin Showin State	ng 1 - 1 of 1 Type Web Application	Previous Nex Deployment Order
	II Update Delete Start Stor Iame A Delete Start Stor	Showin State Active	Meb Application Web Application	Previous Nex Deployment Order 100 100

3. Manejo y despliegue con Workshop for Weblogic

El Workshop es un conjunto de plugins para Eclipse que permiten una integración completa con Weblogic. Para empezar a trabajar con él, lo arrancamos desde *Bea Products->Workshop for Weblogic Platform.* Podemos crear un nuevo proyecto con las configuraciones necesarias según el tipo de aplicación a realizar: servicio web, aplicación web, EJB, etc.

🐨 New Project	X
Select a wizard Create a Dynamic Web project	
Wizards:	
EJB Second Sec	
☐ Show All Wizards.	Ô
< Back Next > Finish	Cancel

Si pinchamos con el botón derecho en un proyecto y le decimos *Run as...* nos aparecerá una ventana como la mostrada en la siguiente figura. En ella podemos elegir entre ejecutar la aplicación del proyecto actual en un servidor existente o bien crear un nuevo servidor (Apache o Weblogic). Dentro de Weblogic nos permite incluso buscar otras versiones instaladas.

W Run On Server
Define a New Server
Choose the type of server to create
How do you want to select the server?
C Choose an existing server
Manually define a new server
Server's host name: localhost
Select the gerver type:
B ⊕ Apache ⊖ ⊕ EEA Systems, Inc. – G ₂ EEA WebLogic γ9.2 Server
Vendor
Server guntime: BEA WebLogic v9.2 Installed Runtimes
Set server as project gefault (do not ask again)
< Back Next > Brish Cancel

A continuación nos permite elegir un dominio ya definido o bien crear un nuevo dominio (simplemente, llama a la aplicación de Weblogic para crear el dominio).

🕅 Run On Server 🛛 🗙
BEA WebLogic v9.2 Server The domain path 'C:/bea/user_projects/domains/prueba1' is already used by server 'BEA WebLogic v9.2 Server (prueba1].
Domain home: Eilbeeluser, projects/domains/pruebal Browse Click here to launch Configuration Wizard to create a new domain
Name Vite default Server name: JBEA WebLogic v9.2 Server @ localhost
< Back Next > Erich Cancel

Después se nos permite elegir qué aplicaciones tienen que ejecutarse en este servidor.

Move projects to the right to config Available projects:	ure them on the server	⊆onfigured projects:		
← GAmigos 표- CE EARProject_WebAppTutor	Add >	🔓 serv-aplic-sesion3	3	
	< Remove			
	Add All >>			
	<< Remove Al			
<				
		,		

En la parte inferior, nos aparece una solapa, *Servers*, que nos permite arrancar y/o parar servidores y desplegar, redesplegar o parar aplicaciones.

	* Cal.	New	▶ h this controller instance is
Θ	@Overr:	Initialize Server Status	
Î.	protect)	Delete	
Θ	/ * *	🕸 Debug	
	* Cal.	🜔 Start	h this controller instance is
	*/	🔊 Profile	
Θ	00verr:	Restart	•
	protect	Stop	ssion session) {
	·	😰 Publish	
<		Monitoring	•
A Serve	rs X Pr	Move to Workspace	
Server		🏪 Add and Remove Projects	State
🖃 🎧 B	EA WebLogic v	/9.2 Server [pruet 🚮 Started	Republish
G	Amigos serv-aplic-s	esion3	

Al crear un nuevo proyecto, Workshop incluye las librerías necesarias para funcionar dentro de Weblogic. Si tenemos una aplicación que corre en otro servidor y queremos pasarla a Weblogic usando Workshop, sólo tendremos que copiar las clases .java y los ficheros de configuración y de presentación (html, jsp, etc.).