



Servidores de aplicaciones

Sesión 2: Administración del servidor de aplicaciones

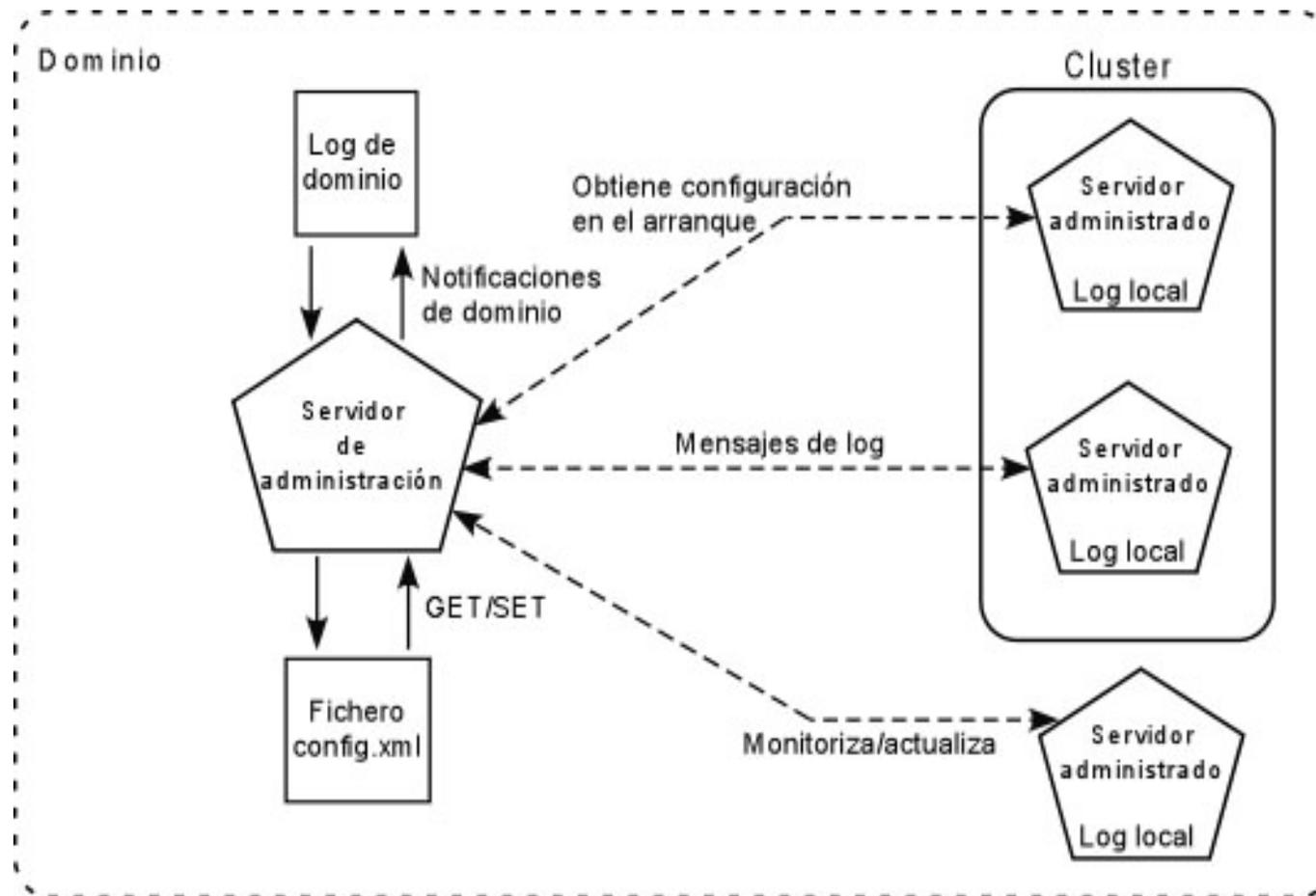


Índice

- Revisión de conceptos
- Configuración de dominios, servidores y máquinas
- Administración desde línea de comandos



Funcionamiento del sistema





Arranque del dominio

- Para arrancar cualquier servidor administrado nos pide la contraseña. Podemos eliminar esto e introducirla en los ejecutables, dando valor a las variables:
 - `WLS_USER=system`
 - `WLS_PASSWORD=weblogic`
- Comando de arranque:
 - `./startManagedServer.cmd serv2`
`http://localhost:7001`



Creación de servidores

- Pinchamos en *Servers*

Summary of Servers

A server is an instance of WebLogic Server that runs in its own Java Virtual Machine (JVM) and has its own configuration.

This page summarizes each server that has been configured in the current WebLogic Server domain.

[▶ Customize this table](#)

Servers

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

New Clone Delete Showing 1 - 2 of 2 Previous | Next

<input type="checkbox"/>	Name	Cluster	Machine	State	Health	Listen Port
<input type="checkbox"/>	AdminServer(admin)			RUNNING	OK	7001
<input type="checkbox"/>	servidor2			Unknown	Unknown	6001

New Clone Delete Showing 1 - 2 of 2 Previous | Next



New

Create a New Server

Back Next Finish Cancel

Server Properties

The following properties will be used to identify your new server.

* Indicates required fields

What would you like to name your new server?

*Server Name:

Where will this server listen for incoming connections?

Server Listen Address:

Server Listen Port:

Should this server belong to a cluster?

No, this is a stand-alone server.

Yes, create a new cluster for this server.

Back Next Finish Cancel



Configuración del servidor

- Pinchamos en *Servers* y luego en el nombre del servidor a configurar

The screenshot shows the configuration page for a server instance. The tabs at the top include Configuration, Protocols, Logging, Debug, Monitoring, Control, Deployments, Services, Security, and Notes. The 'General' tab is selected, and sub-tabs include Cluster, Services, Keystores, SSL, Deployment, Migration, Tuning, Overload, Health Monitoring, and Server Start. A 'Save' button is visible at the top left of the configuration area.

Use this page to configure general features of this server such as default network communications.

[View JNDI Tree](#)

Name:	servidor3	An alphanumeric name for this server instance. More Info...
Machine:	(None)	The WebLogic Server host computer (machine) on which this server is meant to run. More Info...
Cluster:	(Standalone)	The cluster, or group of WebLogic Server instances, to which this server belongs. More Info...
Listen Address:	localhost	The IP address or DNS name this server uses to listen for incoming connections. More Info...
<input checked="" type="checkbox"/> Listen Port Enabled		Specifies whether this server can be reached through the default plain-text (non-SSL) listen port. More Info...
Listen Port:	8001	The default TCP port that this server uses to listen for regular (non-SSL) incoming connections. More Info...
<input type="checkbox"/> SSL Listen Port Enabled		Indicates whether the server can be reached through the default SSL listen port. More Info...
SSL Listen Port:	7002	The TCP/IP port at which this server listens for SSL connection requests. More Info...
<input type="checkbox"/> Client Cert Proxy Enabled		Specifies whether the HttpClusterServlet proxies the client certificate in a special header. More Info...



Opciones avanzadas (Advanced)

Java Compiler:	<input type="text" value="javac"/>	The Java compiler to use for all applications hosted on this server that need to compile Java code. More Info...
▼ Advanced		
<input type="checkbox"/> WebLogic Plug-In Enabled		Specifies whether this server uses the proprietary WL-Proxy-Client-IP header, which is recommended if the server instance will receive requests from a proxy plug-in. More Info...
Prepend to classpath:	<input type="text"/>	The options to prepend to the Java compiler classpath when compiling Java code. More Info...
Append to classpath:	<input type="text"/>	The options to append to the Java compiler classpath when compiling Java code. More Info...
Extra RMI Compiler Options:	<input type="text"/>	The options passed to the RMI compiler during server-side generation. More Info...
Extra EJB Compiler Options:	<input type="text"/>	The options passed to the EJB compiler during server-side generation. More Info...
External Listen Address:	<input type="text"/>	The external IP address or DNS name for this server. More Info...
Local Administration Port Override:	<input type="text" value="9002"/>	Overrides the domain-wide administration port and specifies a different listen port on which this server listens for administrative requests. Valid only if the administrative channel is enabled for the domain. More Info...
Startup Mode:	<input type="text" value="Running"/>	The state in which this server should be started. If you specify STANDBY, you must also enable the domain-wide administration port. More Info...
JDBC LLR Table Name:	<input type="text"/>	The table name for this server's Logging Last Resource (LLR) database table(s). WebLogic Server creates the table(s) and then uses them during transaction processing for the LLR transaction optimization. This setting must be unique for each server. The default table name is WL_LL_R_SERVERNAME. More Info...



Health Monitoring

Configuration Protocols Logging Debug Monitoring Control Deployments Services Security Notes

General Cluster Services Keystores SSL Deployment Migration Tuning Overload **Health Monitoring** Server Start

WebLogic Server provides a self-health monitoring capability to improve the reliability and availability of servers in a WebLogic Server domain. Selected subsystems within each server monitor their health status based on criteria specific to the subsystem.

Use this page to configure the frequency of this server's automated health checks, and the frequency with which the Node Manager application (optional) checks the server's health state. You can also use this page to specify whether Node Manager automatically stops and restarts the server if the server reaches the "failed" health state.

<input checked="" type="checkbox"/> Auto Restart	Specifies whether the Node Manager can automatically restart this server if it crashes or otherwise or goes down unexpectedly. More Info...
<input type="checkbox"/> Auto Kill If Failed	Specifies whether the Node Manager should automatically kill this server if its health state is failed. More Info...
Max Restarts Within Interval:	<input type="text" value="2"/> The number of times that the Node Manager can restart this server within the interval specified in RestartInterval. More Info...
Health Check Interval:	<input type="text" value="180"/> The number of seconds that defines the frequency of this server's self-health monitoring. The server monitors the health of its subsystems every HealthCheckIntervalSeconds and changes the Server's overall state if required. More Info...
Restart Delay Seconds:	<input type="text" value="0"/> The number of seconds the Node Manager should wait before restarting this server. More Info...



Protocols->HTTP

Configuration Protocols Logging Debug Monitoring Control Deployments Services Security Notes

General HTTP jCOM IIOP Channels

Save

Web-based clients communicate with WebLogic Server using HTTP (HyperText Transfer Protocol).

Use this page to define the HTTP settings for this server.

Default WebApp Context Root:	<input type="text"/>	<input type="checkbox"/> Send Server Header
Post Timeout:	<input type="text" value="30"/>	<input type="checkbox"/> Accept Context Path In Get Real Path
Max Post Size:	<input type="text" value="-1"/>	HTTP Max Message Size: <input type="text" value="-1"/>
<input checked="" type="checkbox"/> Enable Keepalives		<input type="checkbox"/> Enable Tunneling
Duration:	<input type="text" value="30"/>	Tunneling Client Ping: <input type="text" value="45"/>
HTTPS Duration:	<input type="text" value="60"/>	Tunneling Client Timeout: <input type="text" value="40"/>
Frontend Host:	<input type="text"/>	
Frontend HTTP Port:	<input type="text" value="0"/>	
Frontend HTTPS Port:	<input type="text" value="0"/>	
<input type="checkbox"/> WAP Enabled		Save



Logging

Configuration Protocols Logging Debug Monitoring Control Deployments Services Security Notes

General HTTP

Save

Use this page to define the general logging settings for this server.

Log file name: logs/servidor3.log

— Rotation —

Rotation type: By Size

Maximum file size: 500

Begin rotation time: 00:00

Rotation interval: 24

Limit number of retained files

Files to retain: 7

Log file rotation directory:

Rotate log file on startup



Logging->Advanced

▼ Advanced

Logging implementation:

— Message destination(s) —

Log file :

Severity level:

Filter:

Redirect stdout logging enabled

Standard out :

Severity level:

Filter:

Domain log broadcaster :

Severity level:

Filter:

Memory buffer :

Severity level:

Filter:



Debug

Configuration Protocols Logging **Debug** Monitoring Control Deployments Services Security Notes

Use this page to define debug settings for this server.

Debug settings for this Server

Enable Disable Clear Showing 1 - 1 of 1 Previous | Next

<input type="checkbox"/>	Debug Scopes and Attributes	State
<input type="checkbox"/>	⊕ default	Disabled
<input type="checkbox"/>	⊖ weblogic	Disabled
<input type="checkbox"/>	⊕ protocol	Disabled
<input type="checkbox"/>	⊕ transaction	Disabled
<input type="checkbox"/>	⊕ iiop	Disabled
<input type="checkbox"/>	⊕ core	Disabled
<input type="checkbox"/>	⊕ deploy	Disabled
<input type="checkbox"/>	⊕ connector	Disabled
<input type="checkbox"/>	⊕ management	Disabled
<input type="checkbox"/>	⊕ default	Disabled



Workload

Configuration Protocols Logging Debug Monitoring **Control** Deployments Services Security Notes

General Health Channels Performance Threads Timers **Workload** Security Default Store JMS JTA

This page displays statistics for the work managers, constraints, and request classes that are configured for this server.

Work Managers

Name	Pending Requests	Completed Requests
direct	0	0
weblogic.kernel.System	0	10194
weblogic.logging.DomainLogBroadcasterClient	0	14
weblogic.admin.RMI	0	26
JmsAsyncQueue	0	0
JmsDispatcher	0	0
weblogic.logging.LogBroadcaster	0	126
weblogic.kernel.Non-Blocking	0	0
weblogic.Rejector	0	0
SafDispatcher	0	0
WatchManagerEvents	0	0
weblogic.kernel.Default	0	15011
ImageWorkManager	0	0



Security

Configuration | Protocols | Logging | Debug | Monitoring | Control | Deployments | Services | Security | Notes

General | Health | Channels | Performance | Threads | Timers | Workload | **Security** | Default Store | JI

This page allows you to monitor user lockout management statistics for this server.

Total Invalid Logins:	0
User Lockout Total Count:	0
Total Login Attempts while Locked:	0
Invalid Logins High:	0
Locked Users:	0
Total Users Unlocked:	0



Control

Configuration Protocols Logging Debug Monitoring **Control** Deployments Services Security Notes

Start/Stop Remote Start Output Migration

Save

Use this page to change the state of the current server. You can also specify particular shutdown settings or view the current status of this server. (Some operations require the Node Manager and the domain-wide administration port.)

Ignore Sessions During Shutdown

Graceful Shutdown Timeout:

Startup Timeout:

Save

[Customize this table](#)

Server Status

Start Resume Suspend Shutdown Restart SSL Showing 1 - 1 of 1 Previous | Next

<input type="checkbox"/>	Server	Machine	State	Status of Last Action
<input type="checkbox"/>	AdminServer		RUNNING	None

Start Resume Suspend Shutdown Restart SSL Showing 1 - 1 of 1 Previous | Next



Definición de máquinas

- WebLogic se puede utilizar en diversos tipos de máquinas (Windows, Linux, Solaris, etc.)
- Ventaja frente a otros SA: podemos utilizar máquinas heterogéneas en el mismo dominio



Definición de nueva máquina

Create a New Machine

OK | Cancel

Machine Properties
The following properties will be used to identify your new Machine.

What would you like to name your new Machine?

Name:

Specify the type of machine operating system.

Machine OS:

OK | Cancel



Opciones de máquinas Unix

Configuration | **Monitoring** | Notes

General | Node Manager | Servers

Save

This page allows you to define the general configuration for this Unix machine.

Name: Machine-0

Enable Post-Bind UID

Post-Bind UID:

Enable Post-Bind GID

Post-Bind GID:

Save



Asignación de servidores a la máquina

Settings for maquina1

Configuration **Monitoring** Notes

General **Node Manager** Servers

This page displays the servers that have been assigned to this Machine. You can select a server to con of available servers.

[Customize this table](#)

Servers

Add Remove Showing 0 - 0 of

<input type="checkbox"/>	Name	Cluster	Machine	State	Health	Lister
There are no items to display						

Add Remove Showing 0 - 0 of



Asignación de servidores a la máquina (2)

Add a Server to Machine

Back Next Finish Cancel

Identify Server

Identify the server to be added

How would you like to proceed?

Select an existing server, and associate it with this machine

Select a server: AdminServer ▼

Create a new server and associate it with this machine

Back Next Finish Cancel



Asignación de servidor a máquina

Settings for servidor2

Configuration Protocols Logging Debug Monitoring Control Deployments

General Cluster Services Keystores SSL Deployment Migration 1

Save

Use this page to configure general features of this server such as default network

[View JNDI Tree](#)

Name: servidor2

Machine:

Cluster:

Listen Address:

Listen Port Enabled



Administración desde líneas de comandos

- En aplicaciones en modo producción suele ser aconsejable deshabilitar la consola
- Para continuar con la administración podemos hacer uso de utilidades desde línea de comandos

```
java -cp $BEA_HOME/weblogic92/server/lib/weblogic.jar  
weblogic.Admin -url URL -username usuario -password  
contraseña COMANDO argumentos
```



Algunas opciones desde línea de comandos

- CONNECT tiempo de conexión
- FORCESHUTDOWN, START, SHUTDOWN
- GETSTATE, VERSION
- Deployer, dbping