

# Deploying DBsign on Oracle's WebLogic Server 11g





Version 4.0

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## **1.0 Introduction**

#### 1.1 Document Organization

This document explains how to deploy the DBsign server on Oracle's WebLogic Server 11g. The following instructions assume that DBsign for HTML Applications version 4.0 and WebLogic Server 11g have already been installed. The instructions and screen shots contained in this document were prepared using Microsoft Windows Server 2008; however, implementation on other operating systems will be very similar.

Installing and configuring the DBsign files is beyond the scope of this document. For information related to these topics, see the DBsign documentation distributed with the product.

Installing, configuring, and setting up domains on the WebLogic server are beyond the scope of this document. For information related to these topics, see Oracle's documentation.

#### 1.2 Contacting Gradkell Systems

#### Web Site

Gradkell's web address is <u>http://www.gradkell.com</u>.

#### Email

Sales inquiries, send email to sales@gradkell.com

For DBsign technical support, email <a href="mailto:support@gradkell.com">support@gradkell.com</a>

#### **Postal Service**

Corporate Headquarters:

4910 University Square, Suite 2

Huntsville, AL 35816

#### Telephone

Corporate Headquarters:

866-GRADKELL (866-472-3535)

#### 2.0 Deploying DBsign on WebLogic Server 11g

#### 2.1 Extracting The DBsign Servlet WAR File

WebLogic supports deploying J2EE applications in two ways: (1) archive files, and (2) exploded archive directories. The difference between the two methods is explained here:

## http://download.oracle.com/docs/cd/E13222\_01/wls/docs81/deployment/overview.html#1036 326

By default the DBsign server uses a configuration file found in its deployment directory, and must be able to read and write to this file. Because of this, we should deploy DBsign using the "Exploded Archive Directories" method as recommended by Oracle's documentation referenced above.

The first step in deploying the DBsign server on WebLogic is to locate the the "dbsign.war" file in your DBsign installation directory. If DBsign was installed using the default settings, this file will be located in the following directory:

C:\Program Files\Gradkell Systems, Inc\DBsign Data Security Suite\HTML\Server

🕌 Server			
	Server	👻 🔂 Search	
<u>File E</u> dit <u>V</u> iew <u>T</u> ools <u>H</u>	<u>i</u> elp		
🕒 Organize 👻 📗 Views	🔻 🕐 Burn		0
Eavorite Links	Name	→ Date modified → Type	
	dbsign.war	5/27/2011 3:46 PM WAR File	9,582 KB
Documents	📓 DbsServlet.jar	5/27/2011 3:46 PM JAR File	409 KB
Pictures			
Music			
Recently Changed			
Searches			
\mu Public			
-			
Folders ^			

Copy the "dbsign.war" file to "dbsign.zip":

🕌 Server	<u>] _</u>	Ľ
	Server - 🗸 🐼 Search	2
<u>File E</u> dit <u>V</u> iew <u>T</u> ools <u>H</u>	delp	
🕘 Organize 👻 📗 Views	🔻 🍋 Open   Burn	2
Favorite Links	Name 🔽 Date modified 🔽 Type 🔽 Size 🔽 Tags	-
	dbsign.war 5/27/2011 3:46 PM WAR File 9,582 KB	
Documents	DbsServlet.jar 5/27/2011 3:46 PM JAR File 409 KB	
E Pictures	dbsign.zip 5/27/2011 3:46 PM Compressed (zip 9,582 KB	
🚯 Music		
Recently Changed		
Searches		
\mu Public		
Folders ^		

Then, using the built-in Windows ZIP utility, extract the "dbsign.zip" archive<sup>1</sup>:

🕌 Server					
	Server 👻	<b>→</b> 🔮	Search		
<u>File E</u> dit <u>V</u> iew <u>T</u> ools <u>H</u>	lelp				
🕒 Organize 👻 📗 Views	🝷 🔲 Open 🛛 💦 Share	🕙 Burn			0
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	dbsign.war	5/27/2011 3:46 PM	WAR File	9,582 KB	
Documents	📧 DbsServlet.jar	5/27/2011 3:46 PM	JAR File	409 KB	
E Pictures	🌗 dbsign.zip	5/27/2011 3:46 PM	Compressed (zip	9,582 KB	
🚺 Music	🃗 dbsign	7/8/2011 10:48 AM	File Folder		
Recently Changed					
📳 Searches					
\mu Public					
Folders ^					

<sup>1</sup> It is possible to use the "jar" utility (or any number of archive utilities) to extract the WAR file directly. For the sake of simplicity, this document uses the built-in zip functionality in Windows.

The contents of the resulting "dbsign" directory should look like this:

퉬 dbsign			<u>- 🗆 ×</u>
	Server 🕶 dbsign 👻	👻 🔯 Search	
<u>File E</u> dit <u>V</u> iew <u>T</u> ools <u>H</u>	<u>t</u> elp		
🕘 Organize 👻 📗 Views	👻 🕙 Burn		0
Eavorite Links	Name 🔺	Date modified      Type     Size     Ta	ags 🗸
	images 🔰	7/8/2011 10:48 AM File Folder	
Documents	META-INF	7/8/2011 10:48 AM File Folder	
E Pictures	WEB-INF	7/8/2011 10:48 AM File Folder	
🚯 Music	🥖 index.html	5/27/2011 12:00 HTML Document 2 KB	
Recently Changed			
📳 Searches			
📔 Public			
Folders ^			

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#### 2.2 Logging Into The WebLogic Admin Console

The easiest way to deploy an application in WebLogic is by using the WebLogic Administration Console. Once you install WebLogic and set up domain for your web applications, you can login to the Administration Console with the following URL<sup>2</sup>:

#### http://localhost:7001/console



<sup>2</sup> Your URL may differ depending on your installation. By default, the server will run on port 7001 and listen on localhost.

Among Ange - my\_domain - WLS Console - Windows Internet Explorer - 🗆 🗵 💌 😽 🗙 Live Search (a) v line (//localhost: 7001/console/console.portal?\_nfpb=true&\_pageLabel=HomePage1 P -🔄 • 🔊 - 🖶 • 📴 Page • 🎯 Tools • \* 😭 🍄 🌈 Home Page - my\_domain - WLS Console <u>o</u> ORACLE WebLogic Server® Administration Console 🟦 Home Log Out Preferences 🔤 Record Help Q Welcome, weblogic Connected to: Change Center my\_domain View changes and restarts Home Configuration editing is enabled. Future changes will automatically be activated as you Home Page modify, add or delete items in this domain — Information and Resources – Domain Structure Helpful Tools General Information my domain Configure applications Common Administration Task Descriptions Environment --- Deployments Configure GridLink for RAC Data Read the documentation ⊕ -Services
 Security Realms Source Ask a question on My Oracle Support Recent Task Status Oracle Guardian Overview Interoperability Set your console preferences Diagnostics — Domain Configurations Interoperability Domain Services Domain WTC Servers Messaging JMS Servers Jolt Connection Pools Store-and-Forward Environment Agents Servers Diagnostics How do I... JMS Modules Clusters • Log Files Path Services Search the configuration Virtual Hosts Diagnostic Modules Bridges • Use the Change Center Migratable Targets Diagnostic Images Data Sources Record WLST Scripts Request Performance Coherence Servers Persistent Stores Change Console preferences Coherence Clusters Archives Monitor servers XML Registries Machines Context • XML Entity Caches Work Managers SNMP Foreign JNDI Providers System Status Startup And Shutdown Classes Work Contexts Charts and Graphs Health of Running Servers jCOM • 💦 📢 Local intranet | Protected Mode: Off 100% http://localhost:7001/console/console.portal?\_nfpb=true&\_pageLabel=PreferencesPage -

Once you have logged in, you should see a screen similar to this:

### 2.3 Installing/Deploying DBsign

On the left-hand side of the screen, you will see a navigation block labeled "Domain Structure". Locate the "Deployments" link, and click it:

Summary of Deployments - my_domain - W	VLS Console	- Windows Intern	et Explorer				
G S + Attp://localhost:7001/console/cons	sole.portal?_r	nfpb=true&_pageLab	el=AppDeployme	ntsControlPage	• • •	X Live Search	<b>₽</b> •
😪 🏟 🏉 Summary of Deployments - my_domai	in - WLS Cons	ole				🐴 • 🗟 • 🖶 • 📑	Page 🔹 🎯 Tools 🔹 🎽
	Administrat	ion Console					Q 🔺
Change Center View changes and restarts Configuration editing is enabled. Future changes will automatically be activated as you	Home Home >S	Log Out Preference	es 🔤 Record H	elp	Q	Welcome, webl	ogic Connected to: my_domain
modify, add or delete items in this domain.	Summary	of Deployments					
Domain Structure	Control	Monitoring					
my_domain B-Environment H-Deployments B-Services H-Security Realms B-Interoperability B-Diagnostics	This pag Installed selecting To instal	e displays a list of Ja l applications and mo the application nam II a new application or <b>nize this table</b>	va EE application dules can be star e and using the c r module for deple	s and stand-alone a ted, stopped, updat ontrols on this page oyment to targets in	pplication modul ted (redeployed this domain, di	les that have been installed to ), or deleted from the domain ck the Install button.	ı this domain. by first
	Install	Update Delete	Start v Sto	) ¥		Showing 0 to 0 of 0	Previous   Next
		Name 🐟	State	Health	Туре	Deployment Order	
How do I				There are no iten	ns to display		
<ul><li>Install an Enterprise application</li><li>Configure an Enterprise application</li></ul>	Install	Update Delete	Start ∽ Sto	) <b>v</b>		Showing 0 to 0 of 0	Previous   Next
Update (redeploy) an Enterprise application     Start and stop a deployed Enterprise							
application							
<ul> <li>Monitor the modules of an Enterprise application</li> </ul>							
Deploy EJB modules							
Install a web application							
Done					🛍 Local intran	et   Protected Mode: Off	100% 👻 🕼

On the "Summary of Deployments" page, locate the "Install" button and press it to begin the "Install Application Assistant".

Browse to the location of your DBsign servlet files (in this example, "C:\Program Files (x86)\Gradkell Systems, Inc\DBsign Data Security Suite\HTML\Server").



Be sure to choose the option for "dbsign (open directory)", and not "dbsign.war". If you choose "dbsign.war", the DBsign server will not be able to read and write its configuration file for the reasons mentioned in section "2.1 Extracting The DBsign Servlet WAR File".

For this purposes of this document, all of the default options were used in deploying the DBsign server application. The following screen shots show the options selected:



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🖉 Install Application Assistant - my_domain	- WLS Console - Windows Internet Explorer	
🕒 💽 👻 🙋 http://localhost:7001/console/cor	isole.portal?AppApplicationInstallPortlet_actionOverride=/com/bea/console/z 🍕 🗶 Live Search .	<b>P</b> - <b>Q</b>
🖌 🏟 🌈 Install Application Assistant - my dor	nain - WLS Console	s • **
ORACLE WebLogic Server®	Administration Console	
Change Center View changes and restarts Configuration editing is enabled. Future	Home Log Out Preferences Record Help     Welcome, weblogic     Connected t     my_domai     Home >Summary of Deployments	o: in
changes will automatically be activated as you modify, add or delete items in this domain.	Install Application Assistant	
Domain Structure	Back Next Finish Cancel	
my_domain BP=Environment P=Deployments BP=Services P=Security Realms BP=Interoperability B=Diagnostics	Optional Settings         You can modify these settings or accept the defaults         General         What do you want to name this deployment?         Name:       dbsign         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.	
How do I   • Start and stop a deployed Enterprise application	$^{\rm C}$ $$ Custom Roles: Use roles that are defined in the Administration Console; use policies that are defined in the deployment descriptor.	
Configure an Enterprise application     Create a deployment plan	$\dot{\rm C}$ Custom Roles and Policies: Use only roles and policies that are defined in the Administration Console.	
<ul> <li>Target an Enterprise application to a server</li> <li>Test the modules in an Enterprise application</li> </ul>	C Advanced: Use a custom model that you have configured on the realm's configuration page.	
System Status	- Source accessibility	
Health of Running Servers	How should the source files be made accessible?	
one	j j j j j j j j j j j j j j j j j j j	• //

Install Application Assistant - my_domain -	WLS Console - Windows Internet Explorer	IX
COC + Ittp://localhost:7001/console/cons	sole.portal?AppApplicationInstallPortlet_actionOverride=/com/bea/console/ 💌 🖅 🗙 Live Search	- (
🔆 🍄 🏉 Install Application Assistant - my_dom	ain - WLS Console 🛛 🗸 🖶 🔹 🔂 Page 🔹 🎯 Tgols	• »
How do I   • Start and stop a deployed Enterprise application	C Sustom Roles: Use roles that are defined in the Administration Console; use policies that are defined in the deployment descriptor.	
Configure an Enterprise application     Create a deployment plan     Target an Enterprise application to a server	© Custom Roles and Policies: Use only roles and policies that are defined in the Administration Console.	
Test the modules in an Enterprise application	<ul> <li>Advanced: Use a custom model that you have configured on the realm's configuration page.</li> </ul>	
System Status	- Source accessibility	
Health of Running Servers	How should the source files be made accessible?	
Failed (0) Critical (0)	$\ensuremath{\mathfrak{S}}$ Use the defaults defined by the deployment's targets	
Overloaded (0) Warning (0)	Recommended selection. C 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.	
	$\ensuremath{\mathbb{C}}$ I will make the deployment accessible from the following location	
	Location: C:\Program Files (x86)\Gradkell Systems, Inc\DBsign Da	
	Provide the location from where all targets will access this application's files. This is often a shared directory. You must ensure the application files exist in this location and that each target can reach the location.	
	Back Next Finish Cancel	
WebLogic Server Version: 10.3.5.0 Copyright © 1996,2010, Oracle and/or its affiliates. All ri Oracle is a registered trademark of Oracle Corporation	ghts reserved. and/or its affiliates. Other names may be trademarks of their respective owners.	- -
Done	🛛 🔹 🖓 📢 Local intranet   Protected Mode: Off	• //.

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Install Application Assistant - my_domain -	WLS Console - Wine	dows Internet Explorer		
🕒 🗸 🖉 http://localhost:7001/console/con	sole.portal?AppApplica	tionInstallPortlet_actionOverride=/com/bea/console/a	Live Search	<b>P</b> -
🔆 🍄 🍘 Install Application Assistant - my_dom	nain - WLS Console		🏠 • 🔊 - 🖶 • 📴 <u>P</u> age • 🄇	) T <u>o</u> ols • *
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Install Application Back Next F	n Assistant		
my_domain ⊕ TEnvironment → Deployments ⊕ Services → Security Realms ⊕ Tinteroperability ⊕ Diagnostics	Review your ch Click Finish to com — Additional con In order to work su configuration after	noices and click Finish plete the deployment. This may take a few moments to figuration ccessfully, this application may require additional config completing this assistant?	complete. uration. Do you want to review this application's	
How do I	<ul> <li>Yes, take m</li> <li>No, I will rev</li> <li>Summary</li> <li>Deployment:</li> </ul>	e to the deployment's configuration screen. riew the configuration later. C:\Program Files (x86)\Gradkell Systems, Inc\D8sign I Suite\HTML\Server\dbsign	Data Security	
<ul> <li>Start and stop a deployed Enterprise application</li> </ul>	Name:	dbsign		
Configure an Enterprise application     Create a deployment plan     Target an Enterprise application to a server	Staging mode: Security Model:	Use the defaults defined by the chosen targets DDOnly: Use only roles and policies that are defined in	n the deployment	
Test the modules in an Enterprise application	Target Summar	aescriptors.		
System Status	Components 4	ŵ	Targets	
Health of Running Servers	dbsign		AdminServer	-     -
Failed (0) Critical (0) Overloaded (0)	Back Next F	inish	·	
Done		Loc	al intranet   Protected Mode: Off 🛛 🗍 🔍 1	.00% • //

#### 2.4 Testing the DBsign Deployment

Once these steps are performed, you should be able to navigate to the DBsign server's welcome page (http://localhost:7001/dbsign):



At this point you configure your DBsign server using the DBsign Configuration Editor, as described in the DBsign product documentation.

Once your DBsign server is properly configured, you should be able to view your license information, and test your application (http://localhost:7001/dbsign/server):

DBsign Servlet Version - Windows Inte	rnet Explorer		_ [ ]
🗸 🗸 🖉 http://localhost:7001/dbsign	/server	🗾 🐓 🗙 Live Search	<b>P</b>
🔅 🔡 🛛 🏈 Settings for dbsign - m	y_do 🧭 DBsign Servlet Version 🗙	🟠 🔹 🔝 👒 🖶 Page	- 💮 T <u>o</u> ols -
DBsign for HTM	L Applications version 4.0		
LICENSE INFORMATION:	Cradkall Systems, Inc.		
	E2E90703		
	DBrigg for HTML Applications		
	4.X		
	2012 05 20 00:00:00		
	2012-06-20 00:00:00		
TIME REMAINING	347 days, 13 hours, 3 minutes, 27.629 seconds		
LICENSED APPLICATION NAME	DBsign Demo Applications		
APPLICATION ARCHITECTURE	CENTRALIZED		
LICENSE STATUS	VALID		
For more information, see the G	radkell Systems web site at <u>www.gradkell.com</u> .		
		Local intranet   Protected Mode: Off	<b>100%</b>