CHANGE SERVER PORT IN OBIEE 11G

CLEARPEAKS - WHITE PAPER



CLEARPEAKS LEADERS IN BUSINESS INTELLIGENCE SOLUTIONS

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Introduction

It is not unusual to find that default ports in software applications are already used or blocked in the firewall. OBIEE 11g ports are not an exception.

Knowing this, WebLogic (the application server used in OBIEE 11g) allows the administrator to change the port of the WebLogic servers.

This blog is going to guide you step by step in order to achieve this objective. We are going to change the default port for the WebLogic Managed Server *bi_server1* from the original 9704 to 8765 (any other port could be used).

The steps to follow are the following:

- 1. Stop the WebLogic Managed Server *bi_server1*
- 2. Change the port number
- 3. Start the WebLogic Managed Server bi_server1
- 4. Test that everything is running properly (not really a step to apply the change but it's always good to remind developers of the need of testing any change properly)



1. Stop the WebLogic Managed Server *bi_server1*

Login into the WebLogic Console by typing the following URL in your web browser:

http://<OBIEE_11g_server>:7001/console

Note that you should replace "<OBIEE_11g_server>" with the IP of the server where OBIEE 11g has been installed.



Type in the user credentials to login to the WebLogic Console. You should see the following screen:





Click on the link *Servers* highlighted in the next screenshot:



You should see now the different WebLogic servers available:



Summary of Servers - bifoundation_doma	ain - WLS Console - Windows Internet E	xplorer					_ 8 ×					
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Summary of Servers - bifoundation_domain - W	LS Co			🔂 • 🖑 🗖	- 🖃 🌐 - Pa	age 🔹 Safety 👻 Tools 👻 🔞 🕶	🛎 🤎					
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Click the Lock & Edit button to modify, add or delete items in this domain.	Summary of Servers											
Lock & Edit	Configuration Control											
Release Configuration												
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Domain Structure	This page summarizes each server the	at has been configured in the cu	rrent WebLogic Server domain.									
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How do I	bi_server1	bi_cluster	localhost.localdomain	RUNNING	🖋 ОК	9704						
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Clone Servers												
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 Start and stop servers 												
System Status												
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Click on the "Lock & Edit" button.

Then navigate to the *Control* tab.

Summary of Servers - bifoundation_domai	in - WL	S Console - Windows Internet Exp	lorer					_ 8 ×						
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Click the Lock & Edk button to modify, add or delete items in this domain. Lock & Edk Release Configuration	Summary of Servers Configuration Control A server is an instance of WebLogic Server that runs in its own Java Virtual Machine (JVM) and has its own configuration.													
Domain Structure	Т	his page summarizes each server that h	as been configured in the currer	nt WebLogic Server domain.										
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Select the check box next to *bi_server1*.

Then click on the Shutdown button and select "Force Shutdown Now".



🖉 Summary of Servers - bifoundation_domai	in - WLS Console - Windows Intern	et Explorer			_ 8 ×
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Summary of Servers - bifoundation_domain - WL	LS Co		🙆 • 🤄	🖤 🗟 👻 🚍 🗰 👻 Page 🗸 Safety 🗸 Tools 🗸 🌘	0- 🗳 🦷
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domain.	Configuration Control				
Lock & Edit					
Release Configuration	Use this page to change the state mode requires the domain-wide a	of the servers in this WebLogic Server domain. Control opera dministration port.	ations on Managed Servers require star	rting the Node Manager. Starting Managed Servers in St	andby
Domain Structure					
bifoundation_domain	¢5				
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	🗖 Server 🗞	Force Shutdown Now	State	Status of Last Action	
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How do I 🗉					
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Start Managed Servers from the Administration Console					
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Confirm the operation by clicking on the Yes button.

Server Life Cycle Assistant - bifoundation_	n_domain - WLS Console - Windows Internet Explorer	_ 8 ×
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Server Life Cycle Assistant - bifoundation_doma	nain - W 🚺 👻 🖏 🗸 🖻 👘 👻 Page + Sal	iety 🕶 Tools 🕶 🔞 🕈 类 🛛 🦈
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Change Center	🟦 Home Log Out Preferences 🔤 Record Help	d to: bifoundation_domain
View changes and restarts	Home >Summary of Servers	
No pending changes exist. Click the Release Configuration button to allow others to edit the	Server Life Cycle Assistant	
domain.	Yes No	
Lock & Edit	Forcibly Shutdown Servers	
Release Configuration	You have selected the following servers to be immediately shut down. Press 'Yes' to continue or 'No' to cancel.	
Domain Structure	bi_server1	
bifoundation_domain	Yes No	
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How do I		
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Start and stop servers Configure startup arguments for Managed		
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The shutdown operation will then start. It may take some minutes depending on your environment.

Refresh the page to check that the shutdown has completed. Note the changes in the columns *Estate* and *"Status of Last Action"*.



Hint: Click on the button highlighted below in order to set the auto-refresh for this page.

Summary of Servers - bifoundation_doma	in - WLS Console - Windows Internet Explo	rer			_ 8 ×
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No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	A request has been sent to immediately	shut down the selected servers.			
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Domain Structure bifoundation_domain Deployments Deplo	Use this page to change the state of the se mode requires the domain-wide administrat Control the state Servers (Filtered - More Columns Exi Start Resume Suspend V Shutd	ervers in this WebLogic Server domain. Con on port. st) restart SSL	ntrol operations on Managed Servers require	starting the Node Manager. Starting Manager	1 Servers in Standby f 2 Previous Next
	🗖 Server 🗞	Machine	State	Status of Last Action	
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Haw do T	bi_server1	localhost.localdomain	FORCE_SUSPENDING	TASK IN PROGRESS	
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Done				Internet Protected Mode: On	- • • • 100% • //

When the WebLogic Managed Server *bi_server1* has been completely stopped, you will see the following information on the screen:

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bfoundation_domain mode require the domain-wide domainstration port. Image: Static s										
		☐ Server ⊗	Machine	State	Status of Last Action					
		AdminServer(admin)	localhost.localdomain	RUNNING	None					
		bi_server1	localhost.localdomain	SHUTDOWN	TASK COMPLETED					
How do I		Start Resume Suspend v Shutdov	vn v Restart SSL		Showing 1 to 2 (of 2 Previous Next				
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2. Change the port number

Click on *bi_server1*.

Summary of Servers - bifoundation_doma	in – WLS Console – Windows Internet Expla	rer			_ @ ×
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bifundation_comain ⊕ Environment →Deployments ⊕ Services ⊕ Services ⊕ Interoperability ⊕ Diagnostics	mode requires the doman-wide administrat 2 Last Refreshed: 12-Apr-2011 22: 5 Customize this table Servers (Filtered - More Columns Ex- Start Resume Suspend Status	ion port. 56:47 ist) iown y Restart SSL		Showing 1 t	o 2 of 2 Previous Next
	🗖 Server 🗞	Machine	State	Status of Last Action	
	AdminServer(admin)	localhost.localdomain	RUNNING	None	
	bi_server1	localhost.localdomain	SHUTDOWN	TASK COMPLETED	
How do I	Start Resume Suspend - Shute	lown v Restart SSL		Showing 1 t	to 2 of 2 Previous Next
 Start and stop servers 					
 Start Managed Servers from the Administration Console 					
Start Managed Servers in Admin mode					
Start Managed Servers in a cluster					
Conrigure the domain-wide administration port					
System Status				Televisit I Protected Medice C	•

Change the "Listen Port" to 8765 (remember that you could use any other port).

The click on the *Save* button.

The message " Settings updated successfully." will appear on the top part of the screen.

Finally, click on " Activate Changes".



Settings for bi_server1 - bifoundation_dom	ain - WLS Consol	e - Windows	Internet Explo	er									_8,
🕞 😔 🗢 🙋 http://192.168.184.130:7001/co	nsole/console.portal	_nfpb=true&_	pageLabel=http:	//192.168.184.	130:7001/cor	sole/console.po	rtal?_nfpb=t	rue&_pagel	abel=:	🗟 🐓 🗙 🔁	Sing		P
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Change Center	🟦 Home Log C	ut Preference	s 🔤 Record H	elp		Q				Welcome,	weblogic Co	nnected to: bifoundati	on_domain
View changes and restarts	Home >Summar	y of Servers >b	_server1 >Summa	ry of Servers >bi	_server1 >Su	nmary of Servers	>bi_server	1					
Pending changes exist. They must be activated to take effect.	Settings up	dated successf	ully.										
Activate Changes Settings for bi_server1													
Undo All Changes	Configuration	Protocols	Logging Deb	ug Monitoring	Control	Deployments	Services	Security	Notes				
Domain Structure	General Clu	ister Servici	es Keystores	SSL Federa	tion Services	Deployment	Migration	Tuning	Overload	Health Monitoring	Server Star	:	
Foundation_domain Fouriers Clusters Witual Hosts Migretable Targets Migretable Targets Migretable Targets Startup & Shutdown Classes SerServices Foreivices	Save Use this page View JNDI Tree Name: Machine:	to configure ge ge 많	neral features of	this server such as default network communications.					An alphanumeric name for this server instance. More Info The Webl nois: Server host completer (machine) on which this server i				
- Interoperability - Interoperability - Diannostirs tow do I	Cluster:			bi_cluster					to run. More Info The cluster, or group of WebLogic Server instances, to which this server belongs. More Info				
Configure default network connections	街 Listen Ado	iress:							The IP ac connectio	ddress or DNS name ti ons. More Info	nis server uses	to listen for incoming	
Configure clusters Start and stop servers	🗹 Listen Por	t Enabled							Specifies (non-SSL	whether this server o) listen port. More In	an be reached	through the default plair	n-text
Configure WLDF diagnostic volume	Listen Port:			8765					The defa incoming	ult TCP port that this connections. More 1	server uses to info	listen for regular (non-S:	SL)
System Status 🛛 🖃 Health of Running Servers	🗆 55L Listen	Port Enabled	I						Indicates port. M	whether the server o	an be reached:	through the default SSL	listen
one	1									😜 Internet Protect	ed Mode: On	· ·	🔍 100% 🔹

You will then get the following screen:

Settings for bi_server1 - bifoundation_dom	ain - WLS Cor	nsole - Wi	ndows In	ternet Explo	rer											_ 8 ×
🕞 🕤 🗢 🙋 http://192.168.184.130:7001/con	isole/console.po	ortal?_nfpb	=true&_pa	ageLabel=http	//192.1	168.184.13	0:7001/con	sole/console.por	tal?_nfpb=t	rue&_pagel	abel=1	🗟 🐓 🗙 🔽	ing			P •
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Settings for bi_server1 - bifoundation_domain - W	۸.S											• 🖑 🗟 - 🖻	🖶 🔻 Page 🕶	Safety 🕶	Tools 🔹 🔞 🖣	🐣 "
	dministratio	on Conso	le													<u> </u>
Change Center	🟦 Home L	.og Out Pri	eferences	Necord H	ielp			Q				Welcome, v	weblogic Con	nected to: t	bifoundation_	Jomain
View changes and restarts Home >Summary of Servers >bi_server1 >Summary of Servers >bi_server1 Click the Lock & Edit button to modify, add or delete items in this domain. All changes have been activated. No restarts are necessary.																
Lock & Edit Settings for bi_server1																
Release Configuration	Configura	tion Pro	tocols I	ogging Deb	ug M	Ionitoring	Control	Deployments	Services	Security	Notes					
Domain Structure	General	Cluster	Services	Keystores	SSL	Federati	on Services	Deployment	Migration	Tuning	Overload	Health Monitoring	Server Start			
Converses Custers Withul Hosts Withul Hosts Withul Hosts Migratule Targets Machines Work Managers Startup & Shutdown Classes	Click the Lock & Edit button in the Change Center to modify the settings on this page. Serve Use this page to configure general features of this server such as default network communications. View JNDI Tree															
B-Services	Name:				bi_se	rver1					An alpha	numeric name for this	server instance	More Inf	o	
Security Realms Theroperability Dianonstics	Machine:				localt	nost.localdo	main				The Web to run.	Logic Server host com More Info	puter (machine)	i on which th	his server is mea	nt
How do I	Cluster:				bi_clu	ıster					The clust belongs.	er, or group of WebLo More Info	igic Server insta	inces, to wh	nich this server	
Create and configure machines Configure clusters	街 Listen	Address:									The IP ac connectio	idress or DNS name th ons. More Info	iis server uses t	o listen for i	incoming	
Start and stop servers Configure WLDF diagnostic volume	🗹 Listen	Port Enat	led								Specifies (non-SSL	whether this server c) listen port. More In	an be reached t fo	hrough the	default plain-tex	t
System Status	Listen Por	rt:			876	5					The defa incoming	ult TCP port that this : connections. More I	server uses to li: nfo	sten for reg	ular (non-SSL)	
Health of Running Servers	E ce 11	n			0141110410						Teoliestee	whathar the course of	on ha raachad k	hearah tha	dafault CCI lista	
Done												😜 Internet Protecte	ed Mode: On		- Mar 🔍 1	JO% • //



3. Start the WebLogic Managed Server bi_server1

Click on the *Control* tab for *bi_server1*.

Scroll down until you find the "Server Status" table. Then click on the Start button.

Confirm the operation by clicking on the *Yes*button.

Then navigate on the "*Domain Structure*" section at the left of the screen to "*Environment.Servers*" and click on the refresh button as during the stop of the WebLogic Managed Server.

Settings for bi_server1 - bifoundation_dor	main - WLS Console - Windows Interne	et Explorer				_ 8 ×
	onsole/console.portal?_nfpb=true&_pageLal	bel=ServerControlServersPage		•	🗟 😽 🗙 🔁 Bing	₽ •
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Settings for bi_server1 - bifoundation_domain -	WLS			6	🕯 🔹 🖑 🔊 👻 🖃 🖶 🔹 Page 🔹 Safe	ty 🕶 Tools 🕶 🔞 🕶 🚢 🤍
Lock & Edit	Settings for bi_server1					_
Release Configuration	Configuration Protocols Logging	Debug Monitoring Control	Deployments Servi	ces Security Notes		
Domain Structure	Start/Stop Remote Start Output	Migration Jobs	"			
bifoundation_domain Servers Servers Wrtual Hosts "Migratable Targets "Machines "Work Managers	Click the <i>Lock & Edit</i> button in the Cl Save Use this page to change the state of and the domain-wide administration p	hange Center to modify the settings of the current server. You can also spector,)	in this page. ify particular shutdown	settings or view the current	status of this server. (Some operations require	e the Node Manager
Control Classes C	Ignore Sessions During Shutd	own		Indicate immedia	es whether a graceful shutdown operation drop ately. More Info	ps all HTTP sessions
Security Realms Theroperability Diagnostics	Graceful Shutdown Timeout:		0	Number down. A complet are una specify	 of seconds a graceful shutdown operation wa A graceful shutdown gives WebLogic Server su te certain application processing currently in pri ble to complete processing within the number of here. then the server will force shutdown auto 	aits before forcing a shut bsystems time to ogress. If subsystems of seconds that you omatically. More Info
Start and stop servers Start Managed Servers from the Administration Console	🕂 Startup Timeout:		0	Timeout start in	t value for server start and resume operations the timeout period, it will force shutdown. Me	. If the server fails to ore Info
Start Managed Servers in a cluster Configure startup arguments for Managed Servers	Server LifeCycle Timeout:		120	Number killing its seconds that tim	of seconds a force shutdown operation waits self. If the operation does not complete within s, the server will shutdown automatically if the e was SHUTTING_DOWN. More Info	before timing out and the configured timeout state of the server at
System Status Health of Running Servers	Customize this table					
Failed (0)	Server Status (Filtered - More Co	olumns Exist)				
Overloaded (0)	Start Resume Suspend V S	snutdown V Restart SSL			Showing 1 to	1 of 1 Previous Next
Warning (0) OK (1)	Server 🗞	Machine		State	Status of Last Action	
	Di_server1	localhost.localdomain	2	STARTING	TASK IN PROGRESS	
					😜 Internet Protected Mode: On	🖓 🕶 🔍 100% 👻 //

After some time, you will be able to see the following screen:



Summary of Servers - bifoundation_domai	in - WLS	S Console - Windows Internet Explo	rer	للمعاود والأراب والمتعاولة والمتعاو				_ 8 ×						
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🖕 Favorites 🛛 👍 🏉 Suggested Sites 👻 🙋 W	Veb Slice	Gallery 🔻												
Summary of Servers - bifoundation_domain - WL	LS Co				🙆 • 🖑 E	🛛 🔹 🚍 🝷 Pa	age 🔹 Safety 👻 Tools 👻 😯	• 🗳 🦈						
	Admini	istration Console				<u>Q</u> _								
Change Center		Home Log Out Preferences 🔤 Record	Help	٧	elcome, weblogic	Connected to: bifoundation_	domain							
View changes and restarts	Home >Summary of Servers >bi_server1 >Summary of Servers >bi_server1 > Summary of Servers													
Click the Lock & Edit button to modify, add or delete items in this domain.	Sum	Summary of Servers												
Lock & Edit	Cor	Configuration Control												
Release Configuration	А	A server is an instance of WebLogic Server that runs in its own Java Virtual Machine (JVM) and has its own configuration.												
Domain Structure	TH	his page summarizes each server that has	been configured in the curre	ent WebLogic Server domain.										
bifoundation_domain														
Servers	u	Last Refreshed: 12-Apr-2011 23:3	32:56											
Clusters	₽	Fustomize this table												
Virtual Hosts														
Migratable Targets	S	Servers (Filtered - More Columns Exi	st)											
Work Managers	d	lick the <i>Lock & Edit</i> button in the Chang	e Center to activate all the b	uttons on this page.										
Startup & Shutdown Classes														
Deployments		New Clone Delete				St	howing 1 to 2 of 2 Previous N	ext						
Services		-	-											
Security Realms		I Name ↔	Cluster	Machine	State	Health	Listen Port							
ter Interoperability ⊕:Diagnostics	I	AdminServer(admin)		localhost.localdomain	RUNNING	🖋 ОК	7001							
How do I	I	bi_server1	bi_cluster	localhost.localdomain	RUNNING	🖋 ОК	8765							
Create Managed Servers		New Clone Delete				st	howing 1 to 2 of 2 Previous N	ext						
Clone Servers														
Delete Managed Servers	_													
Delete the Administration Server														
Start and stop servers														
System Status 😑														
Health of Running Servers								-						
Done					🛛 🔯 🚱 Interne	t Protected Mode: C	On 🦗 • 🔍	100% • //						



4. Test that everything is running properly

Type the following URL in your web browser:

http://<OBIEE_11g_server>:9704/analytics

Note that you should replace "<OBIEE_11g_server>" with the IP of the server where OBIEE 11g has been installed.

This is the old URL using the original port, 9704. The page can't be found using this port.



Now change the port to use the new one, 8765 (or the port you have used). Assuming that the *"OracleBIPresentationServicesComponent"* BI System Component is not started, you will get the following web page:





That will tell us that the WebLogic Managed Server *bi_server1* is started and listening on the new port (in our case, 8765).

In case you have already started the "OracleBIPresentationServicesComponent" BI System Component, you will get the OBIEE 11g login page.

Contracte business intelligence sign in - windows internet explorer			
S = 1 http://192.168.184.130:8765/analytics/saw.dll?bieehome&startPage=1		💌 🗟 🔸 🗙 🔽 Bing	₽ •
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Cracle Business Intelligence Sign In		🏠 🔹 🖑 🔂 👻 🖶 🗰 🔹 Page 🔹 Safety 🔹	Tools 🔹 🔞 🔹 🤎
ORACLE Business Intelligence			Help
	Sign In		
	Enter your user id and password.		
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	Password		
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	English		
Copyright © 1997, 2010, Oracle and/or its affiliates. All rights reserved.			About Product
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Having tested that the WebLogic Managed Server *bi_server1* is working properly, you can now put a tick on the box:

☑ Task Completed!