

# **CHANGE SERVER PORT IN OBIEE 11G**

***CLEARPEAKS - WHITE PAPER***



## TABLE OF CONTENTS

Introduction .....	3
1. Stop the WebLogic Managed Server <i>bi_server1</i> .....	4
2. Change the port number.....	9
3. Start the WebLogic Managed Server <i>bi_server1</i> .....	11
4. Test that everything is running properly .....	13

## 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:

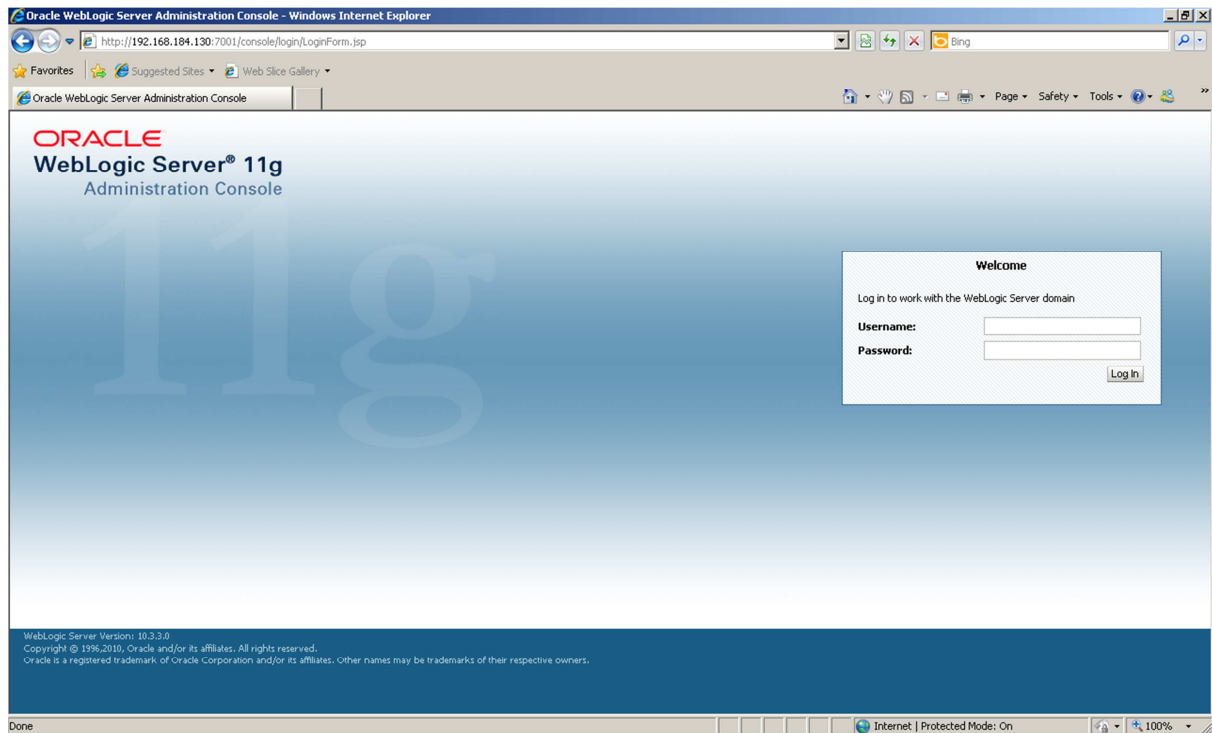
1. Stop the WebLogic Managed Server *bi\_server1*
2. Change the port number
3. Start the WebLogic Managed Server *bi\_server1*
4. Test that everything is running properly (not really a step to apply the change but it's always good to remind developers of the need of testing any change properly)

## 1. Stop the WebLogic Managed Server *bi\_server1*

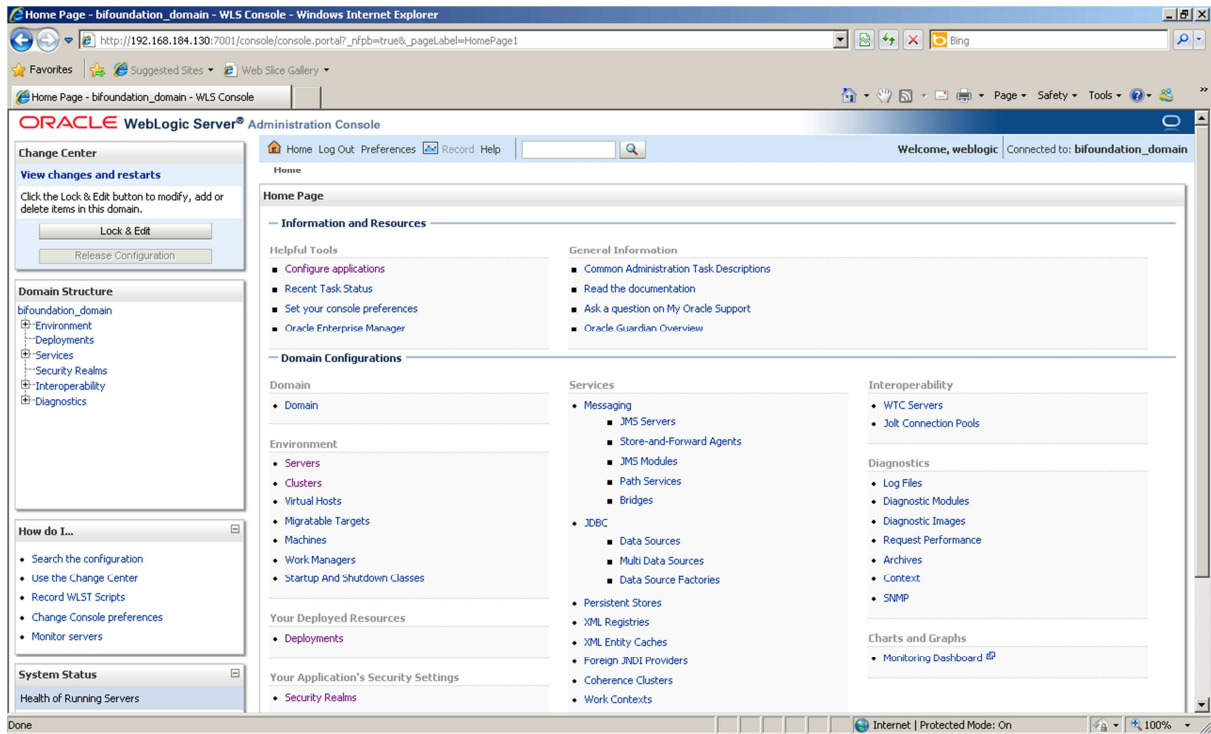
Login into the WebLogic Console by typing the following URL in your web browser:

[http://<OBIEE\\_11g\\_server>:7001/console](http://<OBIEE_11g_server>:7001/console)

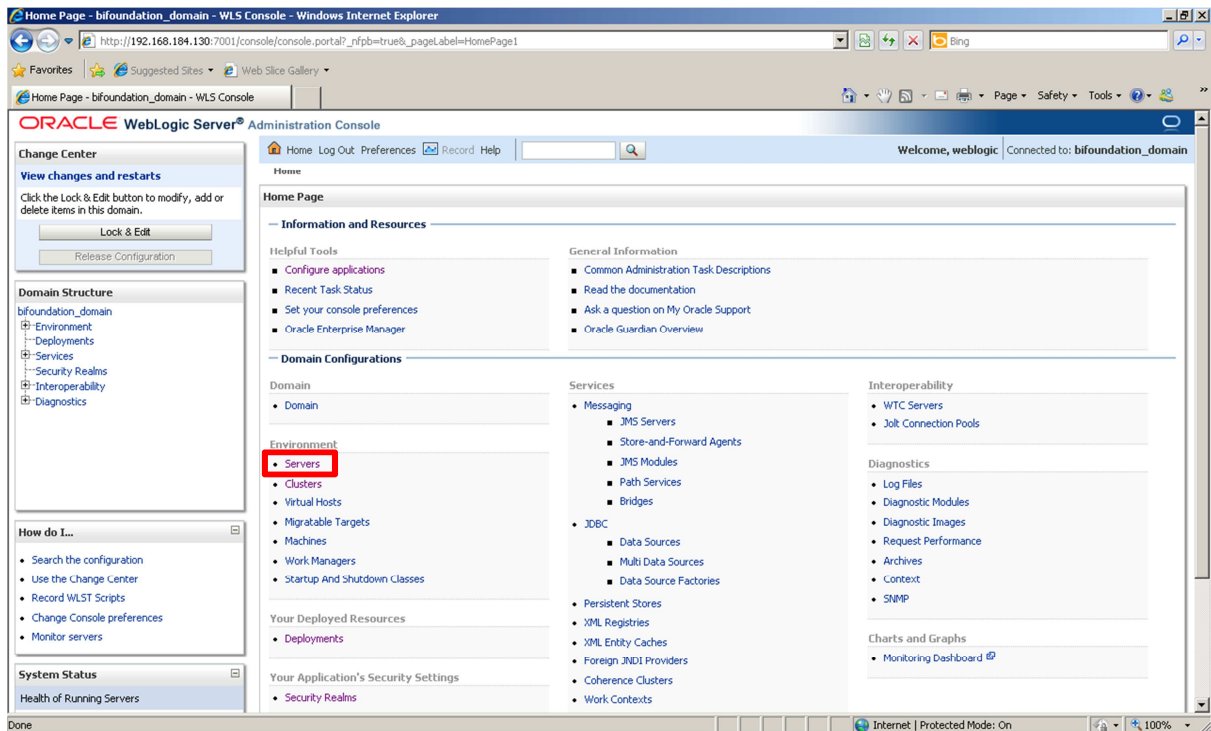
Note that you should replace “<OBIEE\_11g\_server>” with the IP of the server where OBIEE 11g has been installed.



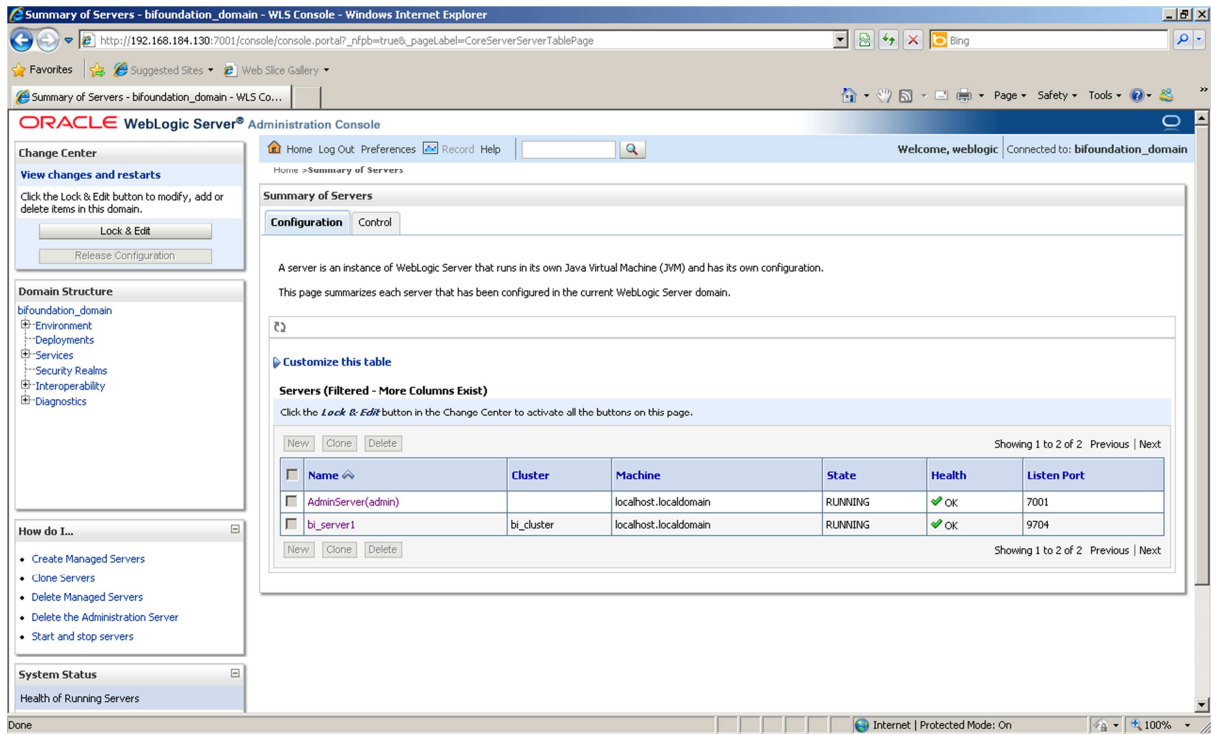
Type in the user credentials to login to the WebLogic Console. You should see the following screen:



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

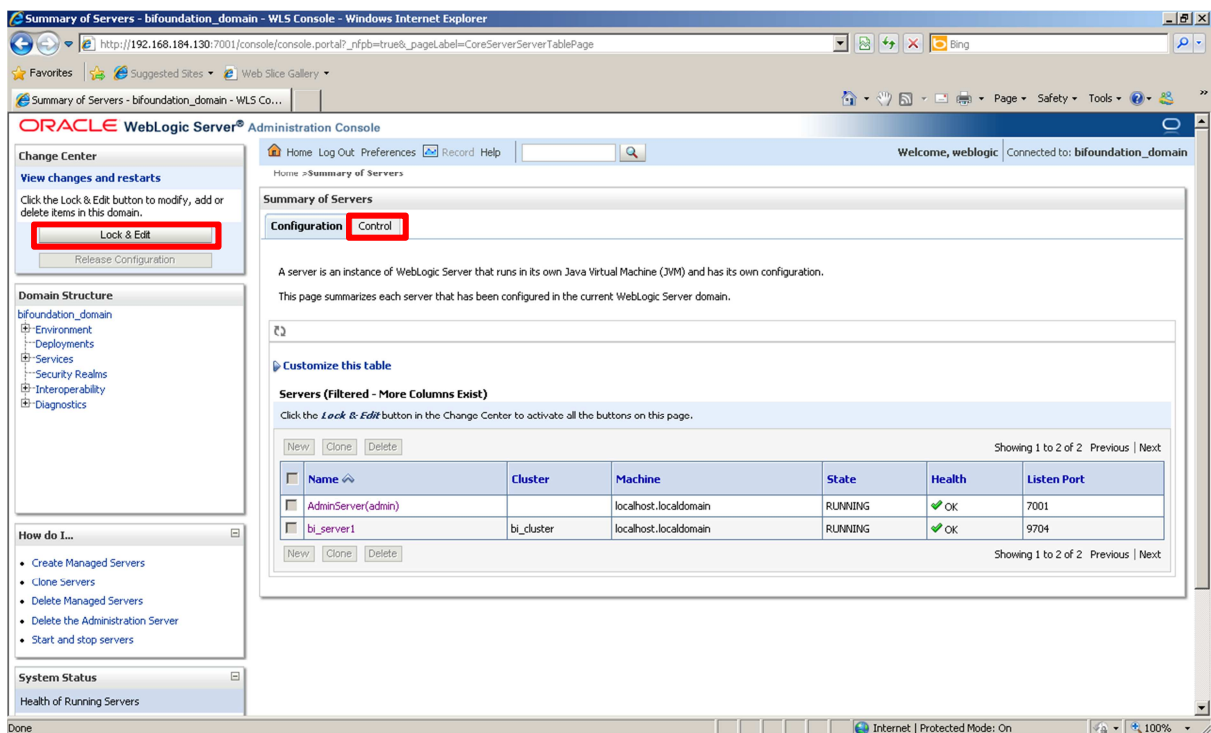


You should see now the different WebLogic servers available:



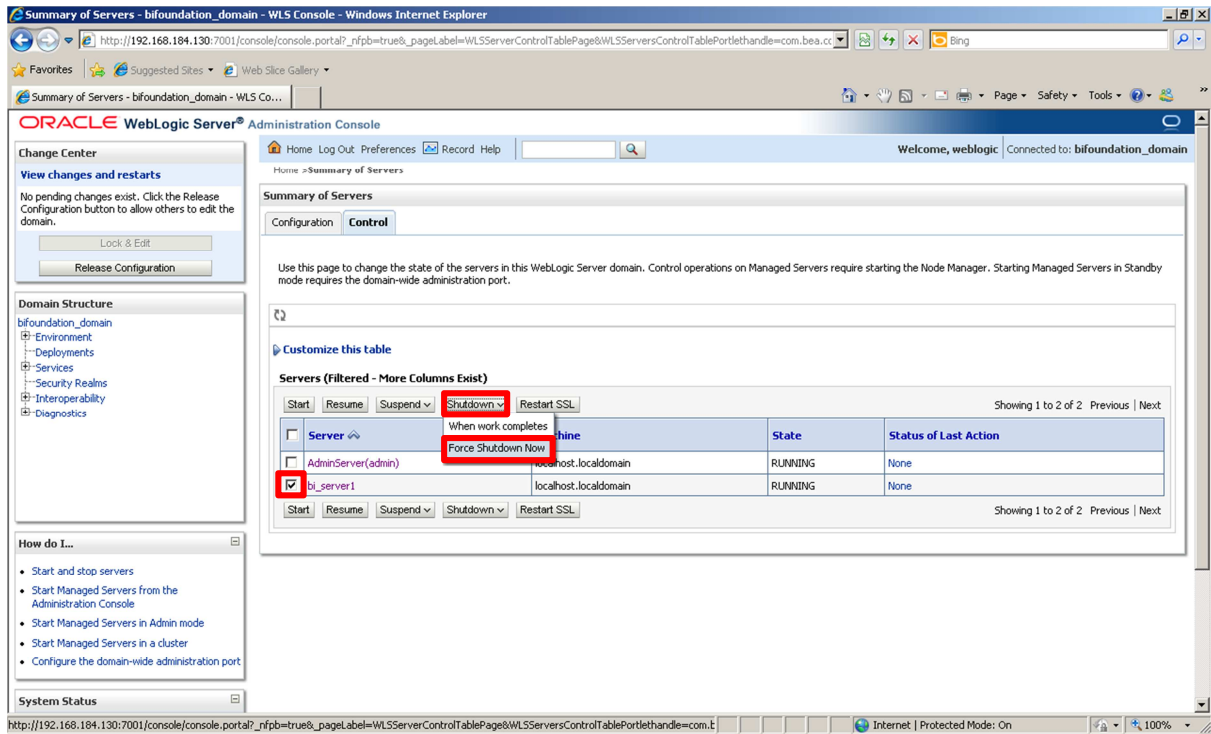
Click on the "Lock & Edit" button.

Then navigate to the *Control* tab.

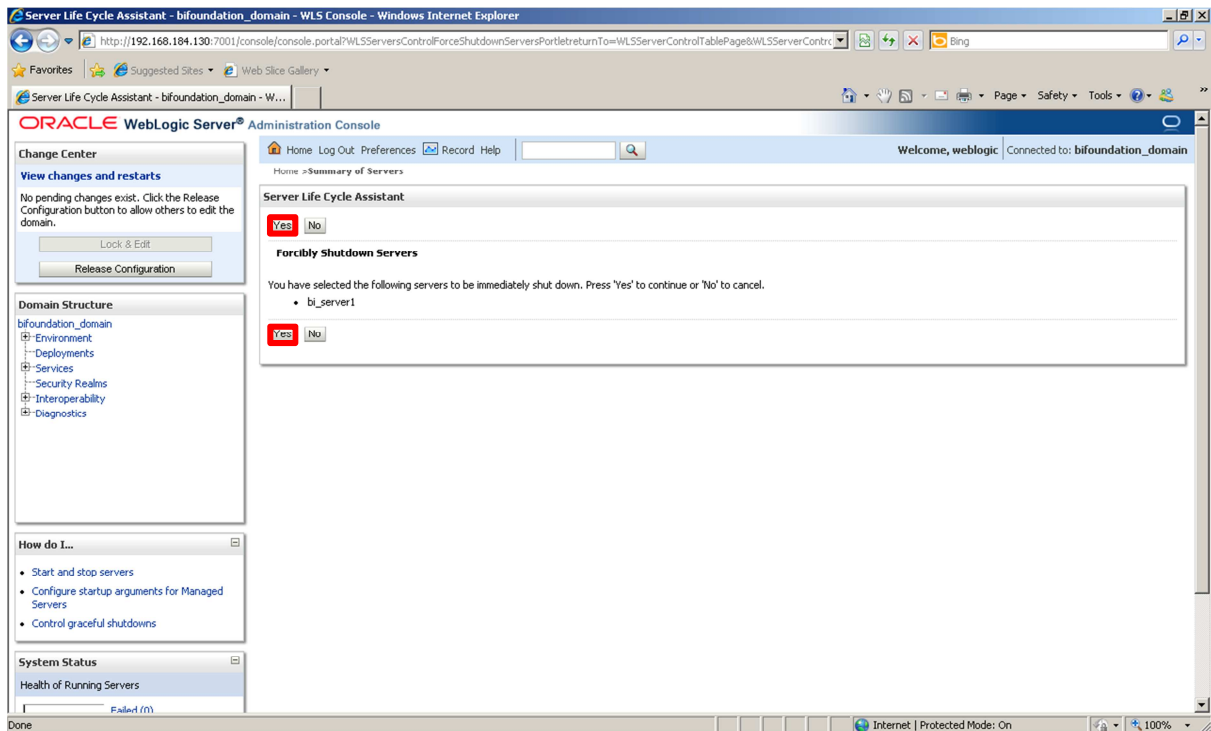


Select the check box next to *bi\_server1*.

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



Confirm the operation by clicking on the Yes button.



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.

The screenshot shows the Oracle WebLogic Server Administration Console. The main content area displays the 'Summary of Servers' page. A message at the top indicates: 'A request has been sent to immediately shut down the selected servers.' Below this, a table lists the servers in the domain:

Server	Machine	State	Status of Last Action
AdminServer(admin)	localhost.localdomain	RUNNING	None
bi_server1	localhost.localdomain	FORCE_SUSPENDING	TASK IN PROGRESS

A refresh button (circular arrow icon) is highlighted in the top left corner of the table area. The table also includes control buttons for each server: Start, Resume, Suspend, Shutdown, and Restart SSL.

When the WebLogic Managed Server *bi\_server1* has been completely stopped, you will see the following information on the screen:

The screenshot shows the Oracle WebLogic Server Administration Console. The main content area displays the 'Summary of Servers' page. A message at the top indicates: 'A request has been sent to immediately shut down the selected servers.' Below this, a table lists the servers in the domain:

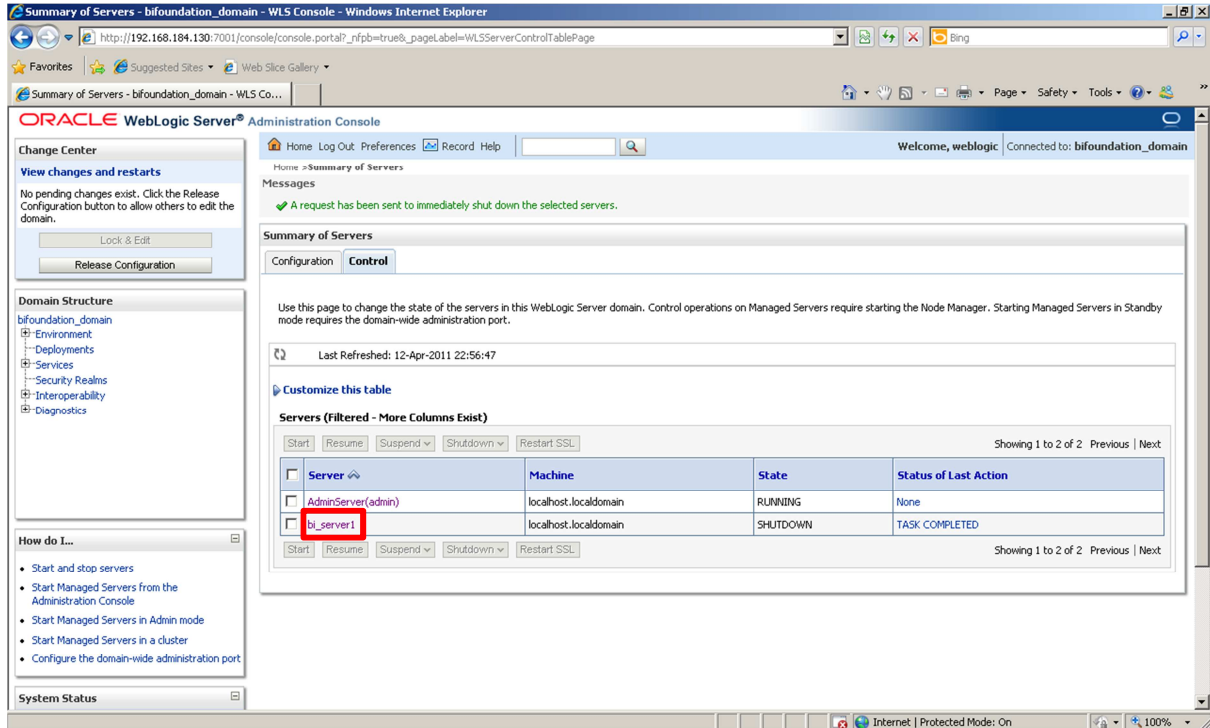
Server	Machine	State	Status of Last Action
AdminServer(admin)	localhost.localdomain	RUNNING	None
bi_server1	localhost.localdomain	SHUTDOWN	TASK COMPLETED

A refresh button (circular arrow icon) is highlighted in the top left corner of the table area. The table also includes control buttons for each server: Start, Resume, Suspend, Shutdown, and Restart SSL. The status of the last action for 'bi\_server1' is now 'TASK COMPLETED'.



## 2. Change the port number

Click on *bi\_server1*.



The screenshot shows the Oracle WebLogic Server Administration Console. The main content area displays the 'Summary of Servers' page. A table lists the servers in the domain:

Server	Machine	State	Status of Last Action
AdminServer(admin)	localhost.localdomain	RUNNING	None
<b>bi_server1</b>	localhost.localdomain	SHUTDOWN	TASK COMPLETED

The 'bi\_server1' server is highlighted with a red box. The table also includes columns for 'Start', 'Resume', 'Suspend', 'Shutdown', and 'Restart SSL' for each server.

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".

The screenshot shows the Oracle WebLogic Server Administration Console. The browser address bar displays the URL: `http://192.168.184.130:7001/console/console.portal?_nfpb=true&_pageLabel=http://192.168.184.130:7001/console/console.portal?_nfpb=true&_pageLabel=`. The page title is "Settings for bi\_server1 - bifoundation\_domain - WLS Console - Windows Internet Explorer".

On the left sidebar, the "Change Center" section shows "View changes and restarts" with a message: "Pending changes exist. They must be activated to take effect." Below this, there is a green checkmark and the text "Activate Changes", which is highlighted with a red box. Below that is a button labeled "Undo All Changes".

The main content area shows a message: "Settings updated successfully." with a green checkmark. Below the message is the "Settings for bi\_server1" configuration page. The "General" tab is selected. A "Save" button is highlighted with a red box. The configuration details are as follows:

Name:	bi_server1	An alphanumeric name for this server instance. <a href="#">More Info...</a>
Machine:	localhost.localdomain	The WebLogic Server host computer (machine) on which this server is meant to run. <a href="#">More Info...</a>
Cluster:	bi_cluster	The cluster, or group of WebLogic Server instances, to which this server belongs. <a href="#">More Info...</a>
Listen Address:	<input type="text"/>	The IP address or DNS name this server uses to listen for incoming connections. <a href="#">More Info...</a>
Listen Port Enabled:	<input checked="" type="checkbox"/>	Specifies whether this server can be reached through the default plain-text (non-SSL) listen port. <a href="#">More Info...</a>
Listen Port:	<input type="text" value="8765"/>	The default TCP port that this server uses to listen for regular (non-SSL) incoming connections. <a href="#">More Info...</a>
SSL Listen Port Enabled:	<input type="checkbox"/>	Indicates whether the server can be reached through the default SSL listen port. <a href="#">More Info...</a>

You will then get the following screen:

The screenshot shows the Oracle WebLogic Server Administration Console after the changes have been activated. The browser address bar displays the URL: `http://192.168.184.130:7001/console/console.portal?_nfpb=true&_pageLabel=http://192.168.184.130:7001/console/console.portal?_nfpb=true&_pageLabel=`. The page title is "Settings for bi\_server1 - bifoundation\_domain - WLS Console - Windows Internet Explorer".

On the left sidebar, the "Change Center" section shows "View changes and restarts" with a message: "Click the Lock & Edit button to modify, add or delete items in this domain." Below this are buttons for "Lock & Edit" and "Release Configuration".

The main content area shows a message: "All changes have been activated. No restarts are necessary." with a green checkmark. Below the message is the "Settings for bi\_server1" configuration page. The "General" tab is selected. A "Save" button is visible. The configuration details are as follows:

Name:	bi_server1	An alphanumeric name for this server instance. <a href="#">More Info...</a>
Machine:	localhost.localdomain	The WebLogic Server host computer (machine) on which this server is meant to run. <a href="#">More Info...</a>
Cluster:	bi_cluster	The cluster, or group of WebLogic Server instances, to which this server belongs. <a href="#">More Info...</a>
Listen Address:	<input type="text"/>	The IP address or DNS name this server uses to listen for incoming connections. <a href="#">More Info...</a>
Listen Port Enabled:	<input checked="" type="checkbox"/>	Specifies whether this server can be reached through the default plain-text (non-SSL) listen port. <a href="#">More Info...</a>
Listen Port:	<input type="text" value="8765"/>	The default TCP port that this server uses to listen for regular (non-SSL) incoming connections. <a href="#">More Info...</a>
SSL Listen Port Enabled:	<input type="checkbox"/>	Indicates whether the server can be reached through the default SSL listen port. <a href="#">More Info...</a>

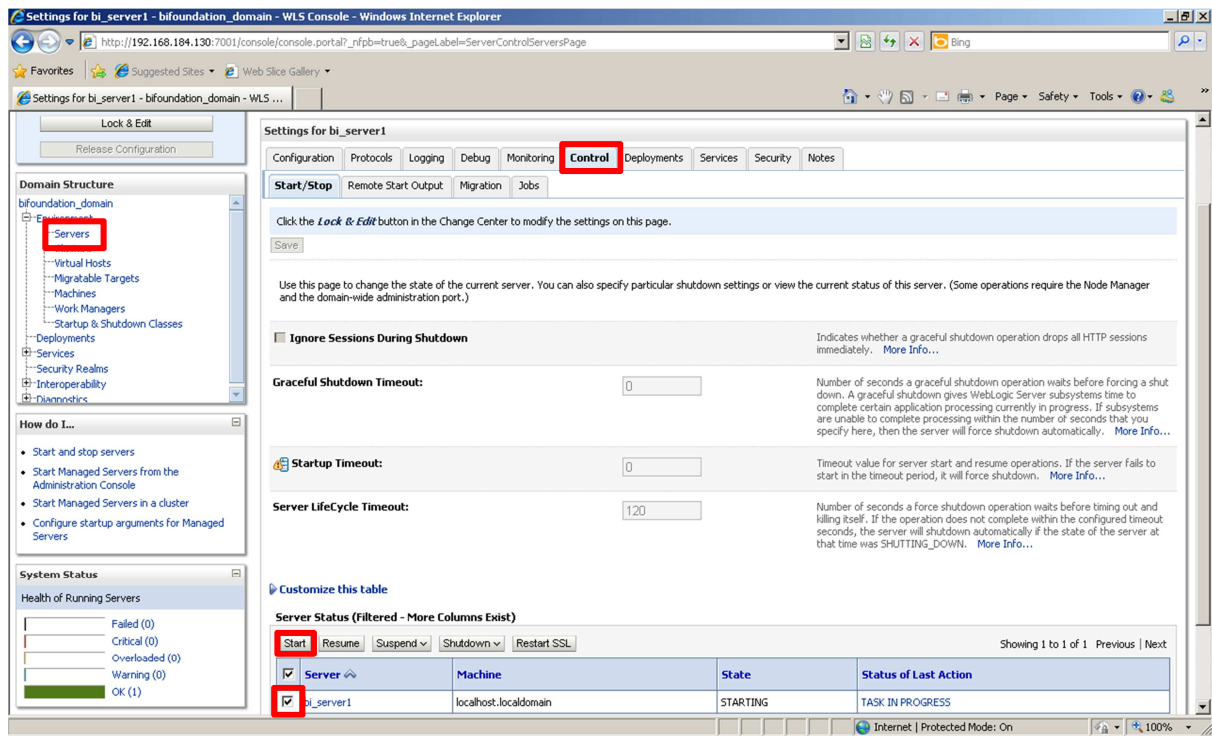
### 3. Start the WebLogic Managed Server *bi\_server1*

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.



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

The screenshot displays the Oracle WebLogic Server Administration Console. The main content area shows the 'Summary of Servers' page, which includes a table of servers. The 'bi\_server1' server is highlighted with a red border, indicating its current state and configuration.

Name	Cluster	Machine	State	Health	Listen Port
AdminServer(admin)		localhost.localdomain	RUNNING	OK	7001
bi_server1	bi_cluster	localhost.localdomain	RUNNING	OK	8765

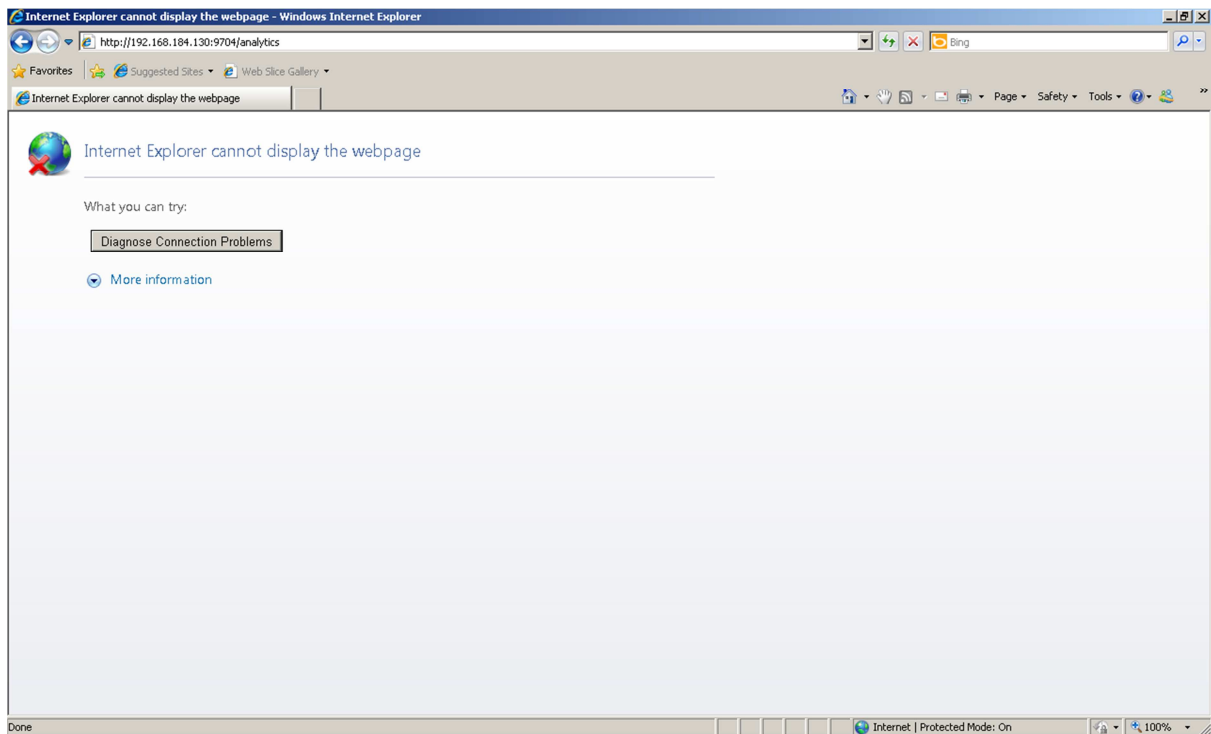
## 4. Test that everything is running properly

Type the following URL in your web browser:

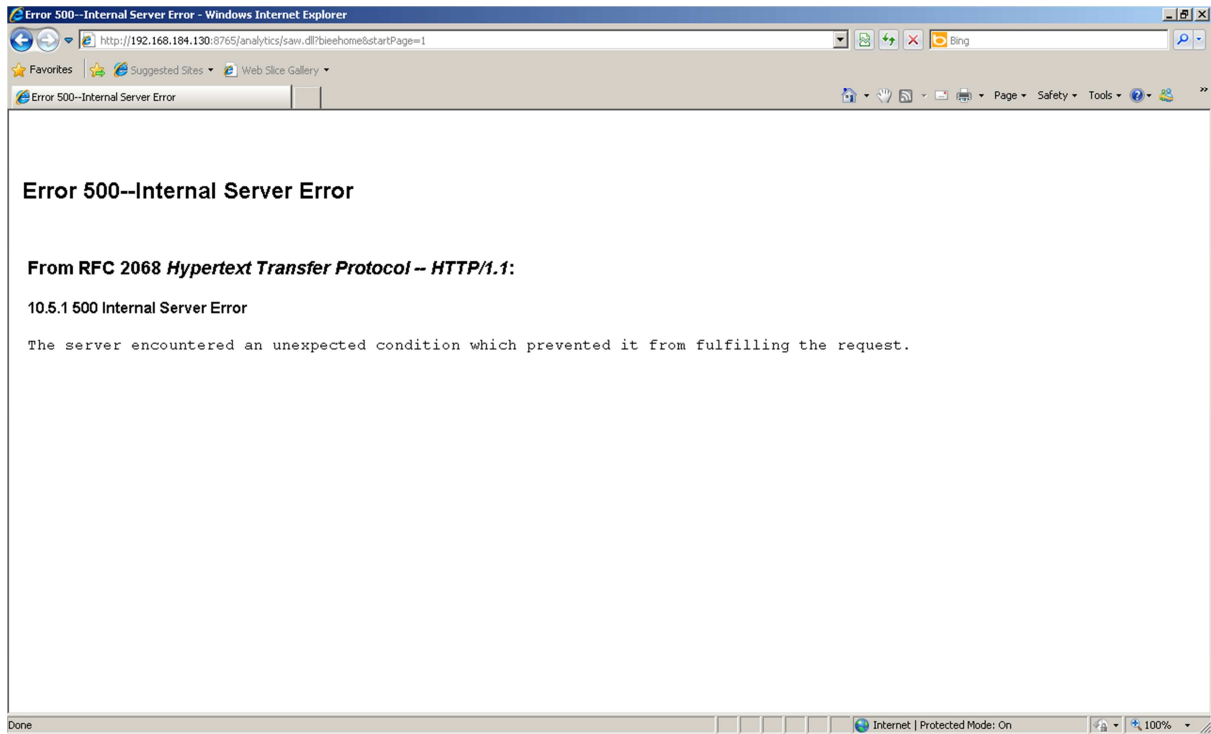
[http://<OBIEE\\_11g\\_server>:9704/analytics](http://<OBIEE_11g_server>:9704/analytics)

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.

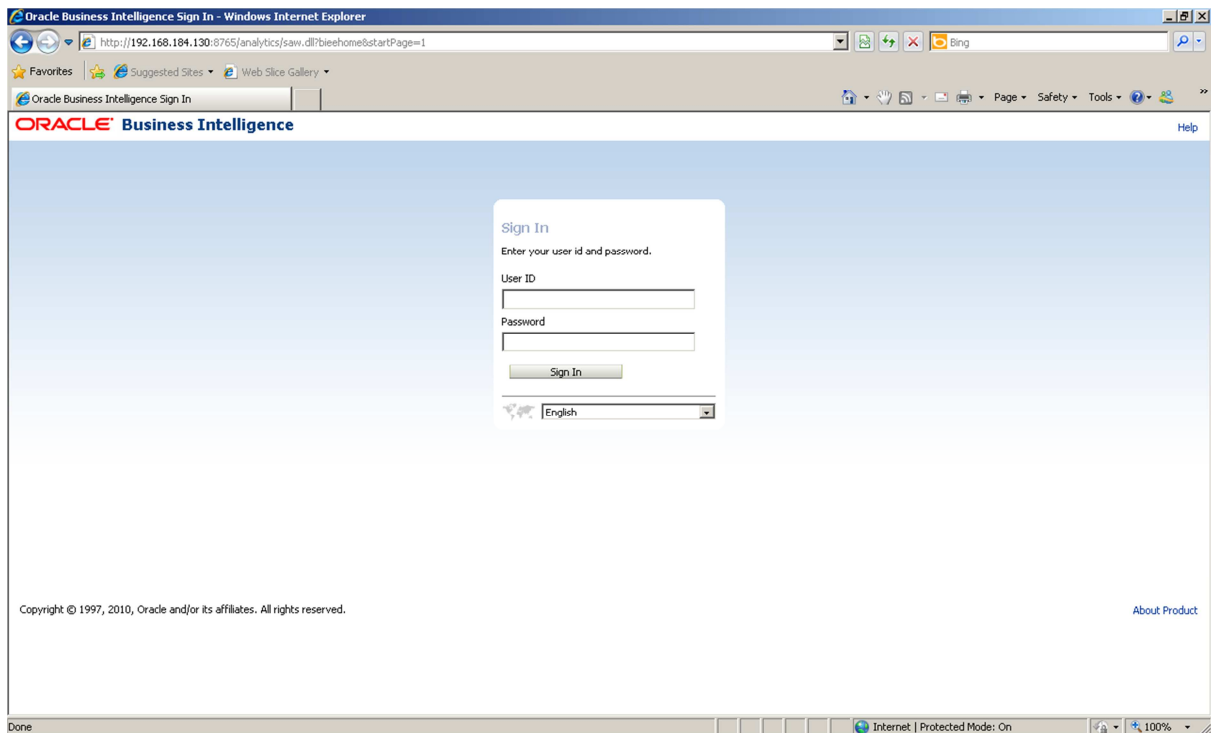


Now change the port to use the new one, 8765 (or the port you have used). Assuming that the “*OracleBIPresentationServicesComponent*” BI System Component is not started, you will get the following web page:



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.



Having tested that the WebLogic Managed Server *bi\_server1* is working properly, you can now put a tick on the box:

Task Completed!