Deploy a custom folder in OBIEE 12c server (the old AnalyticsRes) by Gianni Ceresa | 1 December 2016 | Integration









It takes 10 steps and not longer than 5 minutes.

rw-r--r--. 1 oracle dba 68 Dec

/WEB-INF:

total 4

19

20

21 22

23

24

25

26

28

29

button.

</mime-mapping>

<mime-mapping>

</mime-mapping>

<mime-mapping>

if the deployment works at the end.

ORACLE WebLogic Server Administration Console 12c

No pending changes exist. Click the Release Configuration button to allow others to edit the

. Update (redeploy) an enterprise application

Monitor the modules of an enterprise application

Deploy EJB modules

known as the AnalyticsRes folder from the OBIEE 11g world.

This approach is extremely useful mainly when using JS/CSS charting API/libraries because having them locally available protect you against the risk the remote file is corrupted by hackers adding code to steal your data or simply the file being deleted, moved or updated and breaking your code.

More and more often in an OBIEE you need a custom folder where to place javascript and CSS files like drawing/charting libraries (D3js, Oracle JET etc.), a custom style for OBIEE or just any file (business documentation for example) you want to make available in the browser. This is

The second benefit of deploying JS/CSS files locally by this approach is that you don't have to configure the Content Security Policy in the OBIEE Presentation Server config file (as covered in this post about Google Map) to allow the usage of remote files as the folder will be deployed with the same domain/IP and port as OBIEE.

The official documentation cover the deployment of an "analyticsRes" folder as the second approach for deploying a custom style in OBIEE. In a coming post I will highlight why I don't like this approach for OBIEE custom style/skin

as it seems to have few more bugs compared to the option of deploying a bicustom.ear file. If you are interested into OBIEE custom style process stay tuned. Steps to deploy a custom folder in OBIEE 12c Weblogic

access, can also be on a mounted shared folder). This is the folder where you place the content you want to make available via your browser. The minimum required structure is a subfolder named WEB-INF and inside that folder a web.xml file (maybe it's also possible without the web.xml file or with an empty web.xml file but

1) First you must create a folder on the OBIEE server filesystem (or at least a place OBIEE can

total 4 drwxr-xr-x. 2 oracle dba 20 Dec 1 12:46 WEB-INF

rw-r--r--. 1 oracle dba 945 Dec 1 12:46 web.xml

template.ear, the template for developing custom styles/skins in OBIEE).

<mime-type>text/javascript</mime-type>

<extension>css</extension>

<extension>png</extension>

<mime-type>text/css</mime-type>

<mime-type>image/png</mime-type>

⚠ Home Log Out Preferences 🗠 Record Help

Summary of Deployments Configuration Control Monitoring

Customize this table

polication

Description

Descri

Recently Used Paths:

○RACLE WebLogic Server Administration Console 12c

Release Configuration

How do I...

No pending changes exist. Click the Release Configuration button to allow others to edit the domain.

No pending changes exist. Click the Release
Configuration button to allow others to edit the
domain.

You can modify these settings or accept the defaults.

* Indicates required fields

* Indicates required fields

Release Configuration Optional Settings

View changes and restarts

Lock & Edit

How do I...

Warning (0) OK (1)

configuration.

View changes and restarts

Create a deployment plan

View changes and restarts

Lock & Edit

Hello world!

types in an OBIEE analysis.

4 Comments

and it worked for me.

Thanks and BR

analysis.

Health of Running Servers as of 12:53 PM Failed (1) Critical (0)

Overloaded (0) Warning (0)

ORACLE WebLogic Server Administration Console 12c

ORACLE WebLogic Server Administration Console 12c

Pending changes exist. They must be activated Settings for analyticsRes to take effect.

Context Root:

Staging Mode:

Plan Staging Mode:

📻 Deployment Principal Name

Servicing all requests

□ REST Services

Use this page to stop and start a Web application

select it and in the "Start" button you select "Servicing all requests".

by changing the Context Root in the deployment configuration screen).

You must be able to see this file in your browser ...

Overview Deployment Plan Configuration Security Targets Control Testing Monitoring Notes

Path:

Use this page to view the installed configuration of a Web application.

Start and stop a deployed enterprise

 Configure an enterprise application Create a deployment plan

Change Center

(a) Home Log Out Preferences (a) Record Help

View changes and restarts

(b) Home Summary of Device Control of the Control of Device Control

Back Next Finish Cancel

Available targets for analyticsRes :

bi_cluster
All servers in the cluster
Part of the cluster
bi_server1

Back Next Finish Cancel

Back Next Finish Cancel

What do you want to name this deployment?

How should the source files be made accessible? Use the defaults defined by the deployment's targets

How should the plan source files be made accessible? Use the same accessibility as the application

Recommended selection.

 Specification Version:
 12.2.1.1.0

 Implementation Version:
 12.2.1.1.0.20160604082456

Virtual Hosts

Install operation cancelled - no deployments installed.

adf.oracle.businesseditor(1.0,12.2.1.1.0) adf.oracle.domain(1.0,12.2.1.1.0)

adf.oracle.domain.webapp(1.0,12.2.1.1.0)

To install a new application or module for deployment to targets in this domain, click **Install**.

... it's already simple enough, so I preferred to avoid issues). [oracle@0055e2daaf88 analyticsRes]\$ ll -R

1 12:56 hello_world.txt

[oracle@0055e2daaf88 analyticsRes]\$ The folder on the disk must contains WEB-INF and web.xml The content of the web.xml file is some definition of mime types based on files extensions. For

example this is the one provided by OBIEE in the bicustom.war (contained in bicustom-

```
web.xml
                                                                                     <> 电
   <?xml version="1.0" encoding="utf-8"?>
   <web-app xmlns="http://java.sun.com/xml/ns/javaee"</pre>
             xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
             xsi:schemaLocation="http://java.sun.com/xml/ns/javaee/web-app_2_5.xsd"
5
             version="2.5">
6
      <mime-mapping>
8
         <extension>xsd</extension>
9
         <mime-type>text/xml</mime-type>
10
      </mime-mapping>
11
12
      <mime-mapping>
13
         <extension>xml</extension>
14
         <mime-type>text/xml</mime-type>
15
      </mime-mapping>
16
17
      <mime-mapping>
         <extension>js</extension>
18
```

30 </mime-mapping> 31 32 <mime-mapping> 33 <extension>swf</extension> <mime-type>application/x-shockwave-flash</mime-type> 35 </mime-mapping> 36 37 </web-app> In my folder I already added a test file named "hello_world.txt", this is the one I will use to test

Open the Weblogic Server Administration Console, by default http://<your

You can update (redeploy) or delete installed applications and modules from the domain by selecting the checkbox next to the application name and then using the controls on this page.

Library AdminServer, bl_cluster Global

AdminServer, bi_cluster Global

Active OK Enterprise Application bi_cluster Global

Active

✓ OK Enterprise bi_cluster Global

IP/domain>:9500/console in OBIEE 12c, and navigate to the "Deployments" screen using the domain structure view on the left. To install a new deployment you first need to enable the edit mode by clicking on "Lock & Edit" and then you can start the install wizard with the "Install"

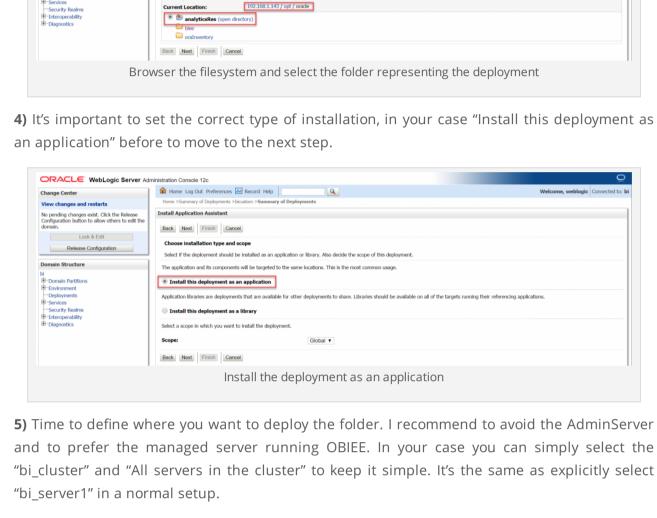
3) The first thing to do is navigate in the filesystem to point to the folder you want to deploy, mine is /opt/oracle/analyticsRes. Thanks to the WEB-INF folder Weblogic knows it can deploy that folder and make it visible on screen with a different icon in front of the folder and a radio button to select the location. Select the folder and move to the next step. ORACLE WebLogic Server Administration Console 12c de Home Log Out Preferences → Record Help View changes and restarts Install Application Assistant

| Consider the Constitution of the

Domain Structure
application directory or me in the reun nero.

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.

From the "Deployment" screen first "Lock & Edit" the Weblogic configuration and then start the install steps



Select the servers and/or clusters to which you want to deploy this application. (You can reconfigure deployment targets later)

ORACLE WebLogic Server Administration Console 12c Home Log Out Preferences Record Help

Home >Summary of Deployments >bicustom >Summary of Deployments

Custom Roles: Use roles that are defined in the Administration Console; use policies that are defined in the deployment descriptor

Custom Roles and Policies: Use only roles and policies that are defined in the Administration Console

During deployment, the files will be copied automatically to the Managed Servers to which the application is targeted.

During deployment, the plan files will be copied automatically to the Managed Servers to which the application is targeted

You must ensure the plan files exist in the shared location and that each target can reach the location.

/opt/oracle/analyticsRes

Advanced: Use a custom model that you have configured on the realm's configuration page.

Make the deployment available from the "BI cluster" and not the Admin server to have the same domain and port as OBIEE

6) In the option settings a very important step is to select "I will make the deployment accessible from the following location" under the Source Accessibility section of the page. In this way you can easily add new files and edit existing ones and the changes are directly valid and

```
Back Next Finish Cancel
          You must select "I will make the deployment accessible from the following location" to see live changes
                                                         when you add new files or modify existing ones
7) The deployment install steps are over, everything is set correctly and you can double check
the settings in the summary. Time to move to the configuration screen for the newly installed
deployment.
       ORACLE WebLogic Server Administration Console 12c
       Change Center

View changes and restarts

Change Center

Whome Log Out Preferences A Record Help
        No pending changes exist. Click the Release
Configuration button to allow others to edit the
domain.
          Lock & Edit Back Next | Finish | Cancel
        Review your choices and click Finish

Click Finish to complete the deployment. This may take a few moments to complete.
       Domain Structure — Additional Configuration

In order to work successfully, this application may require additional configuration. Do you want to review this application's configuration after completing this assistant?

    No, I will review the configuration later.

                                          Name: analyticsRes

Staging Mode: I will make the deployment accessible at /opt/oracle/analyticsRes

Plan Staging Mode: Use the same accessibility as the application

Security Model: DDOnly: Use only roles and policies that are defined in the deployment descriptor

Scope: Global
       How do I...

    Start and stop a deployed enterprise application

    Configure an enterprise application

    Create a deployment plan

                                            Target Summary
       System Status
```

Once the install steps are done you can move to the configuration screen of the new deployment

8) At this point you can check the configuration and modify attributes if you need, after you must "Activate Changes" with the button on the top-left to commit the changes in the Weblogic

The name of this application deployment. More Info...

Specifies if this Web application is accessible within the domain, a partition, or a resource group template. More Info...

The specific path at which this Web application is found by a servlet. More Info...

Showing 1 to 1 of 1 Previous | Next

State Type Prepared Web Application

Reply

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Reply

Submit Comment

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Overview Deployment Plan Configuration Security Targets Control Testing Monitoring Notes

analyticsRes

nostage

(not specified)

Review the settings and "Activate Changes" to commit changes in Weblogic

9) Last step left is to start servicing queries. In the Control screen of the deployment you can

/ opt/ oracle/ analyticsRes

None to display Showing 1 to 1 of 1 Previous | Next The deployment must be "started"

10) Cross your fingers and test! By default the URL is the name of the folder (you can change it

192.168.1.143:9502/analyticsRes/hello_world.txt

Once the deployment is started the files in the folder are visible using the browser.

Done! Any file you place into the folder (/opt/oracle/analyticsRes in my case) on the filesystem will be directly available through your browser. It can be JS / CSS charting libraries or also pictures, PDF or any other kind of file you can then link or display into OBIEE dashboard and

In a future post I will use this folder to deploy some JS charting libraries to add missing chart

I followed your instructions to expose directory on WLS for storing custom charts, generated by R scripts as pictures. Applied on Windows environment

Antoaneta Vatova on 23 February 2017 at 13:19

```
Gianni Ceresa on 24 February 2017 at 13:40
       Good to hear it also works on Windows as it's not something I generally
       test (a lot easier to have linux environments). Thanks for the feedback.
                                                                     Reply
Víctor Herreros on 24 February 2017 at 13:22
It also worked like a charm under RedHat Linux 6 and Oracle 12.1. As well as,
after finishing the procedure, any new file updated to the specified server's
directory is immediately accesible through the web browser.
Together with the procedure to change the home page in Analytics (maybe via
PORTALPATH variable) this could become the definitive guide for OBIEE home
page replacement!
Thanks a lot!
```

A.H.Meisami on 23 December 2017 at 19:07

Your email address will not be published. Required fields are marked *

Great job.

thx

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