

Oracle Health Insurance Back Office

ZRGOHIJET Application Installation & Configuration Manual

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CHANGE HISTORY

Release	Version	Changes
10.18.1.3.0	0.1	<ul style="list-style-type: none"> • Creation
10.18.1.3.0	0.2	<ul style="list-style-type: none"> • Revision 07-09-2018 • Add 'Back Office' to 'Prerequisites' • Revised 'Deploy HSL and PSL services'
10.18.1.3.0	0.3	<ul style="list-style-type: none"> • Revised PSL installation
10.18.1.3.0	0.4	<ul style="list-style-type: none"> • Revised architecture diagram • Minor textual changes • Revised note about hsl.tokenvalidation.rotor
10.18.1.3.0	1.0	<ul style="list-style-type: none"> • Reviewed. Slightly adjusted and updated to version 1.0.
10.18.2.0.0	1.1	<ul style="list-style-type: none"> • Republished with new part nr.
10.18.2.3.0	1.2	<ul style="list-style-type: none"> • Added description for PSL services deployment. • Added description of delivery of properties file templates.
10.19.1.0.0	1.3	<ul style="list-style-type: none"> • Added Oracle 6.1.0 JET License text • Renamed to ZRGOHIJET Application Installation & Configuration Manual • Revised and updated 'HSL and PSL services'
10.19.1.2.0	1.4	<ul style="list-style-type: none"> • Updated the list of required PSL services • Updated list of modules which require authorization

RELATED DOCUMENTS

A reference in the text (**doc[x]**) is a reference to another document about a subject that is related to this document.

Below is a list of related documents:

Doc[1]	OHI Back Office HTTP Service Layer (HSL) Installation & Configuration Manual (CTA13681)
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1 Introduction

The OHI Back Office JET Application provides web modules for OHI Back Office users.

OHI Back Office web modules are designed from the ground up as productivity tools for power users.

Whereas most of the Forms modules help to navigate through the OHI Back Office data to support multiple potential different processes, the web modules are designed to support a specific process.

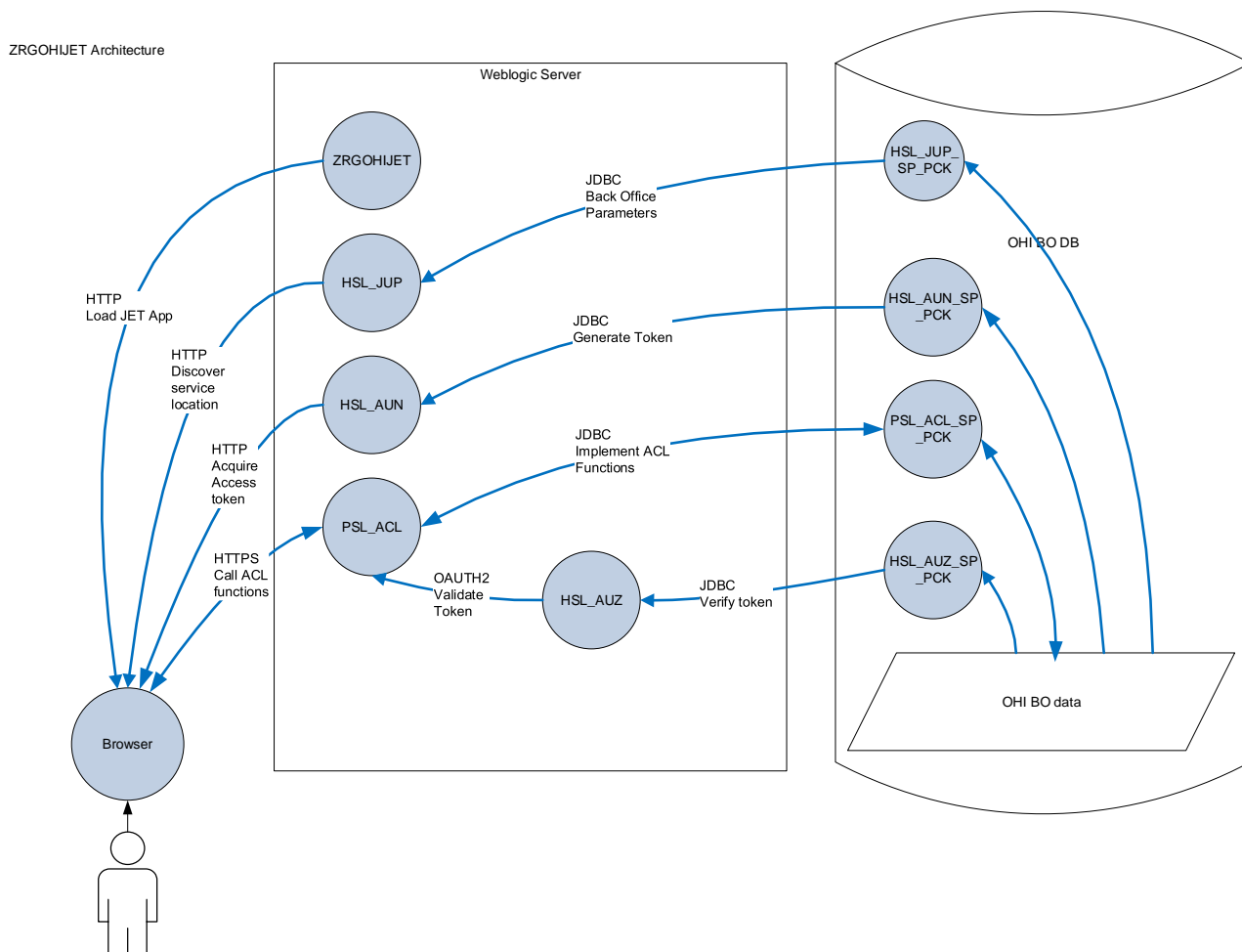
All web modules of the ZRGOHIJET application and their supporting components are packaged as a single WAR file: ZRGOHIJET.war.

The ZRGOHIJET application is deployed to Oracle WebLogic Application Server (WLS).

In order to use the ZRGOHIJET application, several HSL and PSL services must also be deployed. This document describes how to install the ZRGOHIJET application and its related services.

2 Architectural overview

The diagram below shows the components of the OHI BO JET Application:



2.1 ZRGOHIJET Application



The ZRGOHIJET application was built using Oracle's "JET" toolkit for building modern web applications.

Among others, Oracle JET contains UI components, data binding support to synchronize between the front end application and a database back end, and has mobile support.

You can find more information on

<http://www.oracle.com/webfolder/technetwork/jet/index.html>

The ZRGOHIJET application consists of one single WAR file containing the web application:

- ZRGOHIJET – The JET base web application

Additionally many WAR files containing HSL and PSL services are used by the base web application. See the next paragraph.

The web application calls these HSL and PSL services to interact with the OHI Back Office database. Ensure that the web application and all HSL and PSL services are deployed successfully.

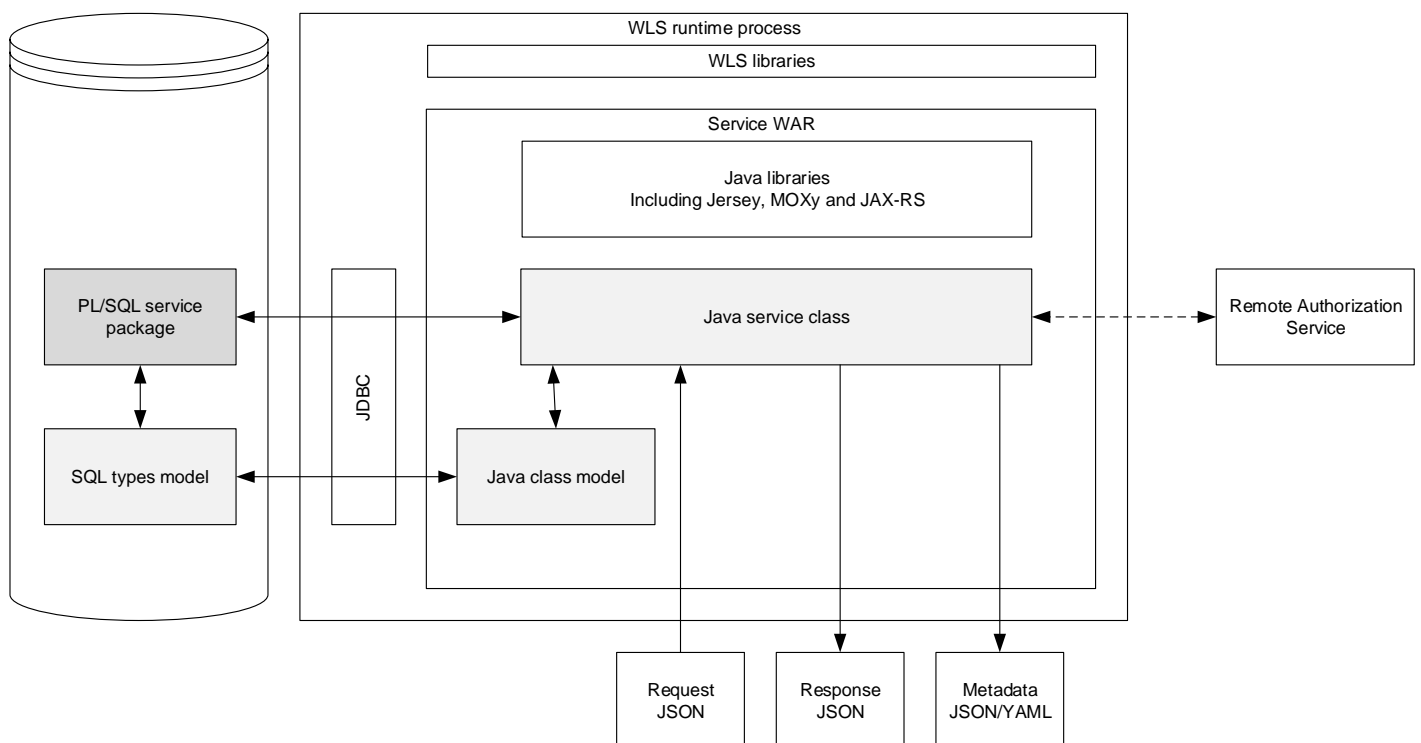
2.2 HSL and PSL services

The HSL and PSL services listed below are used to interact with the OHI Back Office database. The corresponding WAR files can be found in \$OZG_ADMIN/java.

- The HSL and PSL services listed below are used to interact with the OHI Back Office database. The corresponding WAR files can be found in \$OZG_ADMIN/java.
- HSL_AUN - Log on to the OHI Back Office database using the credentials entered by the user. If successful, return an OAuth2 access token and a list of 'claims', i.e. a list of modules which may be accessed by the user.
- HSL_AUZ - Verify that the access token provided by the user is valid for the required service operation.
- HSL_JUP - Retrieve the OHI Back Office parameter values for 'JavaScript user interface' as a list of properties.
- PSL_ACL - REST service providing functionality for ZRG3097J ('Achterafcontrole')
- PSL_BZG - REST service providing functionality for ZRG3099J ('EESSI')
- PSL_GEN - REST service providing generic functionality
- PSL_ODW - REST service providing functionality for BAC0005 ('Werkvoorraad declaraties')
- PSL_OMW - REST service providing functionality for BAC0007J ('Werkvoorraad machtigingen')
- PSL_PLO - REST service providing functionality for BAC0008J ('Overzicht plafondspraken')
- PSL_PMU - REST service providing functionality for BAC0009J ('Polismutaties')
- PSL_PPC - REST service providing functionality for BAC0006J ('Premieprolongatie')
- PSL_RCE - REST service providing generic functionality for domain values

- PSL_SDC - REST service providing functionality for BAC0013J ('Declaratie steekproef')
- PSL_SCR - REST service providing functionality for BAC0010J ('Overzicht openstaande scriptmeldingen')
- PSL_TOM - REST service providing functionality for BAC0012J ('Maximering provisie')
- PSL_VZN - REST service providing functionality for BAC0011J ('Voorzieningen voor oninbare vorderingen')
- PSL_ZVP - REST service providing functionality for ZRG3098J ('Medisch advies')

The architecture of each of the HSL and PSL services is shown below:



For more information about HSL services, see **Doc[1]**.

PSL services are created specifically to support OHI BO application components like the ZRGOHIJET user interface application. 'PSL' stands for 'Private Service Layer'. These services use the same technology as the HSL services but are not intended as an 'API', so may and should not be used to support custom client applications as they may be altered without any notice.

It is important to know that unless you are using an OHI BO application which requires the use of a PSL service, there is no need to install PSL services. So only deploy them when you are sure your organisation is going to use the ZRGOHIJET user interface, as this is currently the only component which needs them and which in itself is also an optional component for deployment.

Characteristics of PSL services:

- Specifically built to support OHI BO applications components. This means that PSL services are not intended to be called by customer applications. It also means that contents or operation of PSL service operations may be changed by OHI Back Office Development without notice.
- No online help documentation.
- Built on the same technology as HSL services.
- Configured through a 'psl.properties' file, similar to the 'hsl.properties' file used for HSL services.

3 Prerequisites

The following prerequisites apply before you can deploy the OHI Back Office JET Application.

3.1 Weblogic Server (WLS) Preparation

Follow the instructions in **Doc[1]** to prepare WebLogic Server.

Ensure that the following steps are completed:

- Create HSL properties file (as described in **Doc[1]**)
- Create PSL properties file (as described below)
- Add `-Dhsl.properties=<hsl_properties>` to Server Start parameter in WLS. Where `<hsl_properties>` refers to the location of the HSL properties file (as described in **Doc[1]**).
- Add `-Dpsl.properties=<psl_properties>` to Server Start parameter in WLS. Where `<psl_properties>` refers to the location of the PSL properties file (as described below).

Note: you may use the same WLS domain for PSL services as for HSL and SVL services. The only prerequisites are that ZRGOHIJET and HSL_JUP are deployed on the same managed server (so that ZRGOHIJET can find HSL_JUP) and that the PSL services, HSL_AUN and HSL_AUZ are deployed on the same managed server (because the same Backend URL parameter is used to locate all these services, as described in **Doc[1] - Appendix F**).

At this moment no other 'functional' HSL services are used by the OHI Back Office JET application, so you may deploy other HSL services in the same or a different environment with a different authentication setup.

3.2 Database Preparation

Install the database components for OHI Back Office using ohipatch.

3.2.1 Create a HSL database user account

Create a database account to call/use the HSL services, eg. 'hsl_user'. See **Doc[1]** for more information.

3.2.2 Create a PSL database user account

The PSL services require a PSL database account similar to the HSL database account:

1. Create a database account, for example PSL_USER.
2. Grant create session system privilege to the PSL database account.
3. Log on as the OHI Back Office schema owner, enable serveroutput and run:

```
alg_security_pck.psl_grants
( pi_owner    => '<ohibo_owner>'
, pi_grantee => '<psl_user_account>'
);
```

Example:

```
execute alg_security_pck.psl_grants
( pi_owner => 'OZG_OWNER'
, pi_grantee => 'PSL_USER');
```

The notes mentioned in **Doc[1]** in the section 'Creating a HSL database account' also apply to the PSL database account.

3.3 OHI Back Office

Do not forget to set up module authorization for the ZRGOHIJET modules:

- BAC0005 ('Werkvoorraad declaraties')
- BAC0006J ('Premieprolongatie')
- BAC0007J ('Werkvoorraad machtigingen')
- BAC0008J ('Overzicht plafondafspraken')
- BAC0009J ('Polismutaties')
- BAC0010J ('Overzicht openstaande scriptmeldingen')
- BAC0011J ('Voorzieningen voor oninbare vorderingen')
- BAC0012J ('Maximering provisie')
- BAC0013J ('Declaratie steekproef')
- ZRG3097J ('Achterafcontrole')
- ZRG3098J ('Medisch advies')
- ZRG3099J ('EESSI')

To access module authorization: Systeem > Beheer > Autorisatie > Moduleautorisatie.

3.4 Deploy HSL and PSL services

The instructions for deploying the HSL services are given in **Doc[1]**.

Like HSL services, PSL services should be deployed through Weblogic Application Server (WLS). The chapter 'Installation of HSL services' in **Doc[1]** also applies to the installation of PSL services. The instructions below are additional to these general instructions.

Ensure that all HSL and PSL services listed in chapter 2.2 are deployed. The corresponding war files are available in \$OZG_ADMIN/java

3.4.1 Create WLS data source for HSL database account

Create a data source for connecting to the HSL user in the OHI Back Office database. Instruction can be found in section 'Creating a data source' in **Doc[1]**.

3.4.2 Create WLS data source for PSL database account

Create a data source for PSL services, similar to 'Creating a data source' for the HSL services (as described in **Doc[1]**). But then refer to the PSL database account instead of the HSL database account.

Also be sure to use the 'psl_grants' packaged procedure instead of the 'hsl_grants' version.

3.4.3 Configure hsl.properties

The properties controlling the HSL_AUN, HSL_AUZ and HSL_JUP services are set in the hsl.properties file. Ensure that these values are set as described in Appendix E & F in **Doc[1]**.

3.4.4 Configure psl.properties

Before deploying any PSL modules, ensure that the correct properties are set.

With the OHI Back Office release installation, a properties file template called psl.properties.template is distributed to the \$OZG_BASE/conf/Back-Office directory. Each OHI Back Office release, may overwrite this template with an updated version. The psl.properties.template can be used as an example to create your own psl.properties file (for example in \$OZG_BASE/conf).

Please note that all values are examples. You should consider if these values are appropriate for your installation and replace them with your own values if needed. Values indicated with \${some_name} in the templates are placeholders and must be replaced. This notation is intended to make scripted deployment easier. Also make sure not to set log level to FINE, FINER or FINEST in production mode, use SEVERE or WARNING instead.

The PSL services use the same generic properties as the HSL services (but prefixed with psl instead of hsl). These generic properties are described in more detail in chapter 'Configuration Files for HSL services' in **Doc[1]**.

OHI advises you to use the PSL services with OAUTH 2.0 (a 'Bearer' HTTP Authorization header with a JWT token) as authorization method, which is enforced by setting the psl.<app>.authorization or the default psl.authorization property to TOKEN. When the authorization is set to TOKEN, a number of specific usercontext and tokenvalidation properties must be set. These properties are explained in more detail in Appendix A, sections 'Setting user context' and 'Access Token Validation'.

3.4.5 WLS Managed Server Start arguments for psl.properties

The instructions for setting the psl.properties parameter are similar to those for setting 'hsl.properties' as described in the 'Installation of HSL services' chapter in **Doc[1]**.

You will need to set -Dpsl.properties=<filename>

Example:

```
-Dpsl.properties=/ohi/envBase/vohi/conf/psl.properties
```

Add the line to file \$DOMAIN_HOME/bin/setUserOverrides.sh:

```
JAVA_OPTIONS="-Dpsl.properties=/ohi/envBase/vohi/conf/psl.properties" ${JAVA_OPTIONS}"
```

3.4.6 Deployment

After the weblogic setup is completed and the properties files are configured, the web services can be deployed.

The procedure for deploying the HSL services is described in section ‘(Re)deployment of the HSL Application’ and Appendix E & F in **Doc[1]**. The procedure to deploying the PSL services is similar to that of the HSL services.

Deploy HSL_JUP, HSL_AUN, HSL_AUZ and the available PSL services with ‘Custom Roles and Policies’.

New deployments are not initially active. Either start the new deployments through the WLS console or restart the managed server(s) to which the applications are deployed.

3.4.7 Testing

When you have deployed a PSL service you can test whether it is working by first getting a JWT token through the HSL_AUN service and pass it on a PSL service.

An example call for service PSL_ACL:

```
curl -i -k \

  -H Authorization:\ Bearer\
eyAiYWxnIjogIkhNQUNfU0gyNTYiLCAidHlwIjogIkpXVCIgQ.eyJAgImV4cCI6
ICIxNTU0OTg3NDg1IiwgImIzcyI6ICJ3d3cub3JhY2xlLmNvbSI6ICJwcm4iOiA
iSUxJRUFULciLCAibmFtZSI6ICJjbW8gTGllYmVyd2VydGgiLCAiY2xhaW1zIj
ogW3sgIm5hbWUiOiAiWlJHMzA5N0oiLCAicXVlcnlf25seSI6IGZhbHNlfSx7I
CJuYW1lIjogIkJBQzAwMDhKIiwgInF1ZXJ5X29ubHkiOiBmYWxzZX0seyAibmFt
ZSI6ICJJCUMwMDA2SiIsICJxdWVyeV9vbmx5IjogZmFsc2V9LHsgIm5hbWUiOiA
iQkFDMDAwNUoiLCAicXVlcnlf25seSI6IGZhbHNlfSx7ICJuYW1lIjogIkJBQz
AwMDdKIiwgInF1ZXJ5X29ubHkiOiBmYWxzZX0seyAibmFtZSI6ICJJCUMwMDA5S
iIsICJxdWVyeV9vbmx5IjogZmFsc2V9LHsgIm5hbWUiOiAiWlJHMzA5OEoiLCAi
cXVlcnlf25seSI6IGZhbHNlfSx7ICJuYW1lIjogIkpSRzMwOTlKIiwgInF1ZXJ
5X29ubHkiOiBmYWxzZX1dIH0.SGDDGIV8GdXf-
SFFaMccvm54CClQOEylYd9xExLqxc3Dbkigt9fAEGDmP8jB5xlRw5K1D7b45eij
-QisnJNvFA \

  -H Content-Type:\ application/json \

  -H Accept:\ application/json

-XGET
https://slc10yip.us.oracle.com:7410/PSL_ACL/acl/v1/subsequent
check/checks
```

The long string after Bearer is the access token as returned by the HSL_AUN service.

4 Installation of ZRGOHIJET Application

The OHI Back Office web modules are packaged in a single archive named 'ZRGOHIJET.war'. This WAR file must be deployed to WLS.

4.1 ZRGOHIJET Deployment











Make sure that you deploy ZRGOHIJET.war on the same Managed Server as HSL_JUP.war. Both applications must be accessible through the same Managed Server and port number.

Deploy ZRGOHIJET.war using default settings.

Although the procedure is similar to deploying HSL and PSL services you may find it useful to look at the step-by-step instructions below.

Select 'Deployments' from the WLS console:

[Customize this table](#)

Deployments								
Install Update Delete			Showing 1 to 10 of 11 Previous Next					
<input type="checkbox"/>	Name ↕	State	Health	Type	Targets	Scope	Domain Partitions	Deployment Order
<input type="checkbox"/>	 HSL_AUN (v4.10)	Active	OK	Web Application	MS_SVLB0SPC31	Global		100
<input type="checkbox"/>	 HSL_AUZ (v4.9)	Active	OK	Web Application	MS_SVLB0SPC31	Global		100
<input type="checkbox"/>	 HSL_C2B (v4.21)	Active	OK	Web Application	MS_SVLB0SPC31	Global		100
<input type="checkbox"/>	 HSL_DOS (v4.1)	Active	OK	Web Application	MS_SVLB0SPC31	Global		100
<input type="checkbox"/>	 HSL_JUP (v4.2)	Active	OK	Web Application	MS_SVLB0SPC31	Global		100
<input type="checkbox"/>	 HSL_POL (v4.37)	Active	OK	Web Application	MS_SVLB0SPC31	Global		100
<input type="checkbox"/>	 HSL_REL (v4.24)	Active	OK	Web Application	MS_SVLB0SPC31	Global		100
<input type="checkbox"/>	 OHIJET_prototype	Active	OK	Web Application	MS_SVLB0SPC31	Global		100
<input type="checkbox"/>	 PSL_ACL (v4.2)	Active	OK	Web Application	MS_SVLB0SPC31	Global		100
<input type="checkbox"/>	 state-management-provider-memory-rar	Active	OK	Resource Adapter	MS_SVLB0SPC31, MS_SVLB0SPC32	Global		100
Install Update Delete			Showing 1 to 10 of 11 Previous Next					

Select 'Install' to create a new deployment.

Select 'ZRGOHIJET.war'

Install Application Assistant

Back Next Finish Cancel

Locate deployment to install and prepare for deployment

Select the file path that represents the application root directory, archive file, exploded archive directory, or application module descriptor that you want to install. You can also enter the path of the application directory or file in the Path field.

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.

Path: /ol:/env/Base/DTTST1/ohBase/java/ZRGOHIJET.war

Recently Used Paths:

- /home/lliborw/ozq_rcs
- /ohi/envBase/DTTST1/ohBase/java
- /ohi/envBase/DTTST2/ohBase/java
- /home/brezina/ozq_rcs

Current Location: s1c10ary.us.oracle.com / ch1 / envBase / DT1S12 / ohBase / java

- ☐ PSH10053.jar
- ☐ PSH_UTIL.jar
- ☒ HSL_AUN.war
- ☒ HSL_AUZ.war
- ☒ HSL_CAB.war
- ☒ HSL_CLA.war
- ☒ HSL_POL.war
- ☒ HSL_REL.war
- ☐ SIC_ATLASSIAN_ORACLE_ID.jar
- ☐ SIC_OOZWEBSERVICES.ear
- ☐ SIC_OOZWEBSERVICES.ear
- ☐ SIC_OOZWEBSERVICE_END.ear
- ☐ SIC_OOZWEBSERVICE_ENS.ear
- ☐ SVL1001C.jar
- ☐ SVL1002C.jar
- ☐ SVL1003C.jar
- ☐ SVL1004C.jar
- ☐ SVL1005C.jar
- ☐ SVL1006C.jar
- ☐ SVL1007C.jar
- ☐ SVL1008C.jar
- ☐ SVL1009C.jar
- ☐ SVL1010C.jar
- ☐ SVLEOWS.ear
- ☐ VER_VECCOZO_PRT.jar
- ☒ ZRGOHIJET.war

Back Next Finish Cancel

Select to install the deployment as an application

Home > Summary of Deployments

Install Application Assistant

Back Next Finish Cancel

Choose installation type and scope

Select if the deployment should be installed as an application or library. Also decide the scope of this deployment.

The application and its components will be targeted to the same locations. This is the most common usage.

☒ **Install this deployment as an application**

Application libraries are deployments that are available for other deployments to share. Libraries should be available on all of the targets running their referencing applications.

☐ **Install this deployment as a library**

Select a scope in which you want to install the deployment.

Scope: Global ▾

Back Next Finish Cancel

Target the application at the managed server to which HSL_JUP is deployed:

Install Application Assistant

Back Next Finish Cancel

Select deployment targets

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

Available targets for ZRG0HIJET :

Servers
<input type="checkbox"/> AS_SVL12212
<input checked="" type="checkbox"/> MS_SVLBTTST1
<input type="checkbox"/> MS_SVLBTTST2

Back Next Finish Cancel

Finish the deployment using 'DD Only' (use the application's deployment descriptors):

Install Application Assistant

Back Next Finish Cancel

Optional Settings

You can modify these settings or accept the defaults.
* Indicates required fields

General

What do you want to name this deployment?

* Name: ZRG0HIJET

Archive Version: v4.1

Deployment Plan Version:

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.

☐ 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.

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

Source Accessibility

How should the source files be made accessible?

☒ Use the defaults defined by the deployment's targets

Recommended selection.

☐ 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.

☐ I will make the deployment accessible from the following location

Location: /home/lileberw/ozg_rcs/ZRG0HIJET.war

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.

The application is now deployed.

4.2 Post Installation

When the application is initially deployed, it needs to be activated.

Either activate the deployment through WLS console or restart the managed server(s) to which the application is deployed.

4.3 Updating the ZRG0HIJET Application

In time, more modules will be added to the ZRG0HIJET application.

When deploying a newer version of the ZRG0HIJET application, select 'Update' to update the application (ensure that the new ZRG0HIJET.war is copied to the existing location).

Alternatively, select 'Delete' to delete the existing ZRGOHIJET application and create a new deployment as described above.

4.4 Deployment validation

When validating the deployment, all components must be correctly installed and deployed.

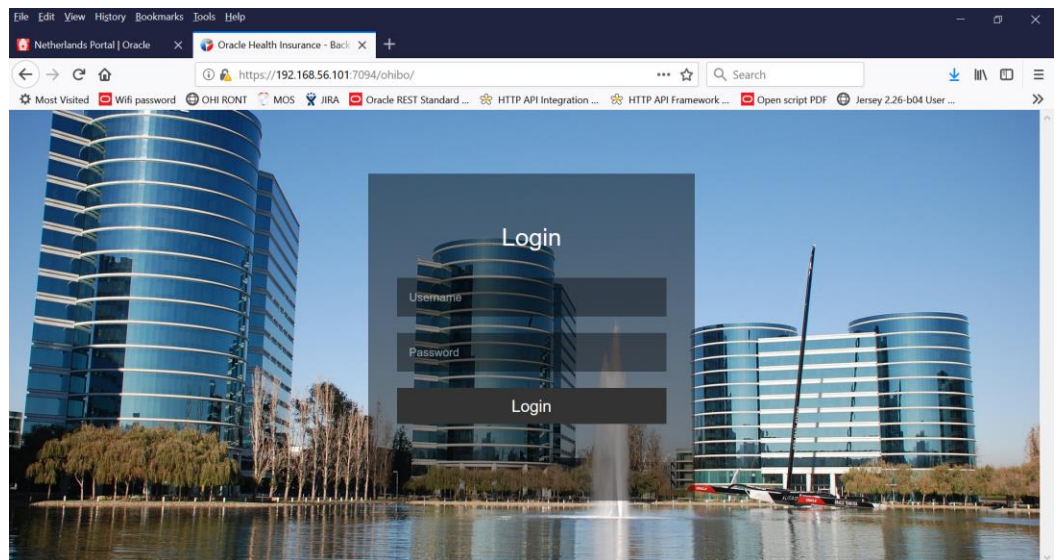
Before you continue:

- verify that you have completed all steps in 'Prerequisites'.
- verify that you have deployed and started the ZRGOHIJET.war application as described in this chapter.

To verify the deployment, browse

<https://server:port/ohibo>

Example:



When you have successfully logged on with your OHI username and password, the screen should look like this:

