

# **Oracle Health Insurance Back Office**

## **OHIJET Application Installation & Configuration Manual**

Version 1.16

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# CHANGE HISTORY

Release	Version	Changes
10.18.1.3.0	0.1	<ul style="list-style-type: none"> <li>• Creation</li> </ul>
10.18.1.3.0	0.2	<ul style="list-style-type: none"> <li>• Revision 07-09-2018</li> <li>• Add 'Back Office' to 'Prerequisites'</li> <li>• Revised 'Deploy HSL and PSL services'</li> </ul>
10.18.1.3.0	0.3	<ul style="list-style-type: none"> <li>• Revised PSL installation</li> </ul>
10.18.1.3.0	0.4	<ul style="list-style-type: none"> <li>• Revised architecture diagram</li> <li>• Minor textual changes</li> <li>• Revised note about hsl.tokenvalidation.rotor</li> </ul>
10.18.1.3.0	1.0	<ul style="list-style-type: none"> <li>• Reviewed. Slightly adjusted and updated to version 1.0.</li> </ul>
10.18.2.0.0	1.1	<ul style="list-style-type: none"> <li>• Republished with new part nr.</li> </ul>
10.18.2.3.0	1.2	<ul style="list-style-type: none"> <li>• Added description for <a href="#">PSL services deployment</a>.</li> <li>• Added description of delivery of <a href="#">properties file templates</a>.</li> </ul>
10.19.1.0.0	1.3	<ul style="list-style-type: none"> <li>• Added Oracle 6.1.0 JET License text</li> <li>• Renamed to OHIJET Application Installation &amp; Configuration Manual</li> <li>• Revised and updated 'HSL and PSL services'</li> </ul>
10.19.1.2.0	1.4	<ul style="list-style-type: none"> <li>• Updated the <a href="#">list of required PSL services</a></li> <li>• Updated <a href="#">list of modules</a> which require authorization</li> </ul>
10.19.1.3.0	1.5	<ul style="list-style-type: none"> <li>• Changed <a href="#">location of war files</a> to \$OZG_BASE/java</li> <li>• BAC0014J, BAC0016J and BAC0018J added in the <a href="#">list of services</a> which might be deployed and in the <a href="#">list of modules</a> which require authorization</li> </ul>
10.19.1.4.0	1.6	<ul style="list-style-type: none"> <li>• Introduced <a href="#">OHIJET.ear</a> and adapted deployment instructions and references to individual web service deployments.</li> </ul>
10.19.2.0.0	1.7	<ul style="list-style-type: none"> <li>• No changes, republished with a new part number.</li> </ul>
10.20.1.0.0	1.8	<ul style="list-style-type: none"> <li>• Oracle JET version has changed.</li> </ul>
10.20.3.0.0	1.9	<ul style="list-style-type: none"> <li>• Oracle JET version has changed.</li> </ul>
10.20.4.0.0	1.10	<ul style="list-style-type: none"> <li>• Oracle JET version has changed.</li> </ul>
10.20.6.0.0	1.11	<ul style="list-style-type: none"> <li>• Oracle JET version has changed.</li> </ul>
10.20.7.0.0	1.12	<ul style="list-style-type: none"> <li>• Added an extra reference to <b>Doc[1]</b> for the deployment of HSL services (HSL_POL, HSL_REL, etc).</li> </ul>
10.20.8.0.0	1.13	<ul style="list-style-type: none"> <li>• Oracle JET version has changed.</li> </ul>
10.21.1.0.0	1.14	<ul style="list-style-type: none"> <li>• Oracle JET version has changed.. New part number.</li> <li>• Changed the Deployment validation paragraph.</li> </ul>
10.21.2.0.0	1.15	<ul style="list-style-type: none"> <li>• Browser certification info added in Deployment validation paragraph</li> <li>• Database Service name en Database Instance ID added to example in Deployment validation paragraph.</li> </ul>
10.21.4.0.0	1.16	<ul style="list-style-type: none"> <li>• Explicitly stated PSL_USER cannot be the same as HSL_USER</li> </ul>

## 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.

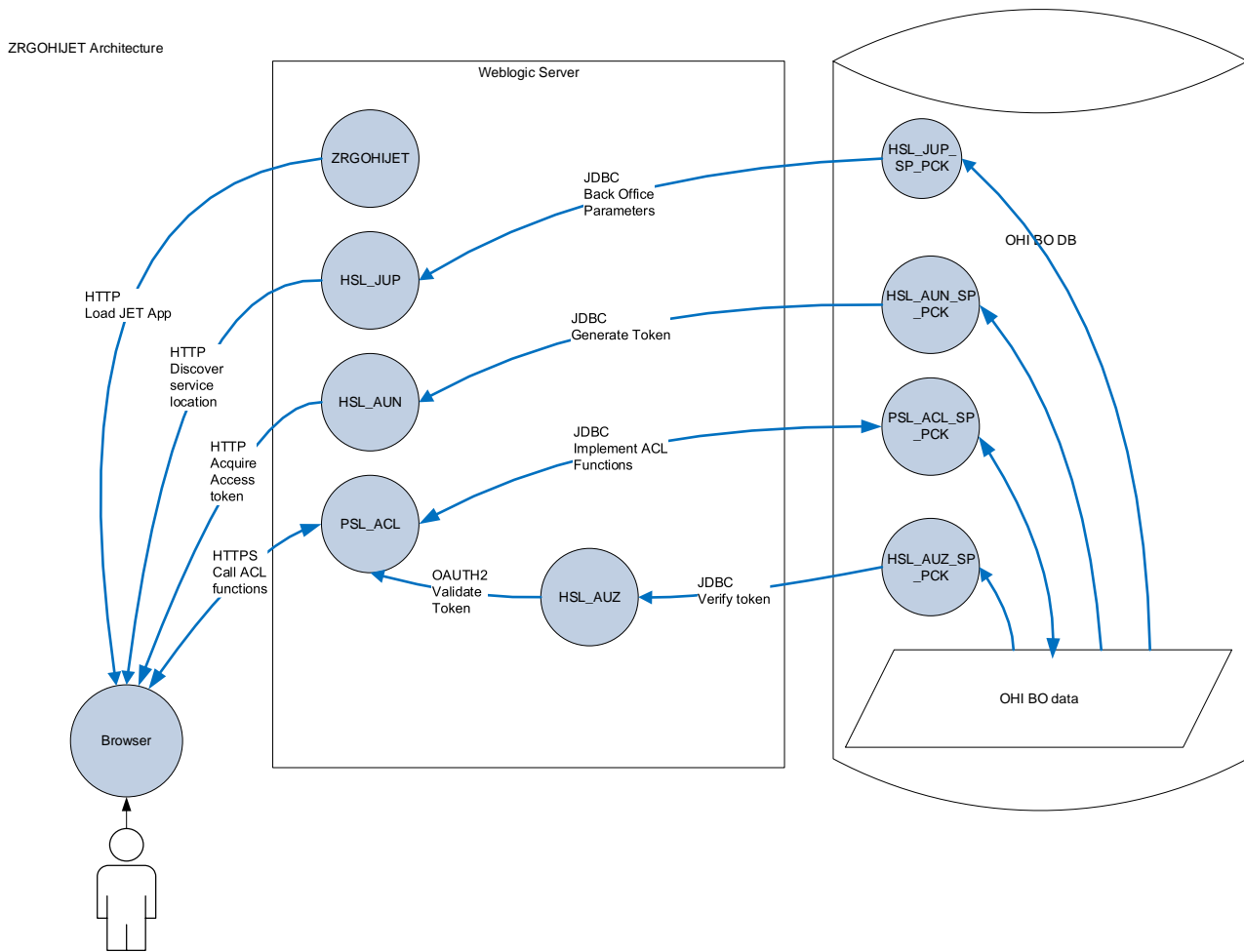
All web modules of the OHIJET application and their supporting components are packaged as a single EAR file: OHIJET.ear.

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

This document describes how to install the OHIJET application and its related services.

## 2 Architectural overview

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



### 2.1 OHIJET Application



The OHIJET 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>

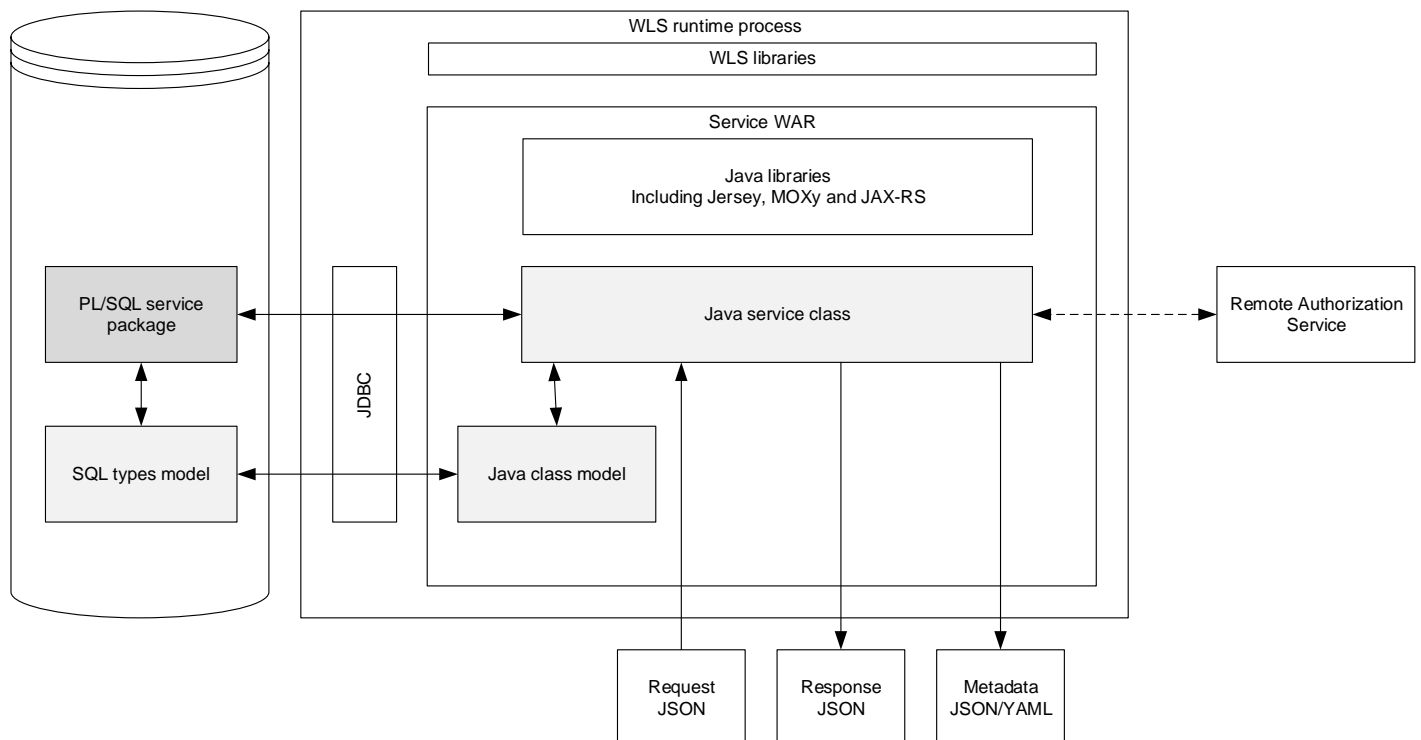
The OHIJET application consists of multiple 'components':

- OHIJET - The JET base web application
- HSL\_AUN - Web service to 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 - Web service to verify that the access token provided by the user is valid for the required service operation.
- HSL\_JUP - Web service to retrieve the OHI Back Office parameter values for 'JavaScript user interface' as a list of properties.
- PSL\_<app> - Many private REST services used by the JET base web application

The web application calls these HSL and PSL web services to interact with the OHI Back Office database. Ensure that the OHIJET application is deployed successfully. The corresponding EAR file (OHIJET.ear) can be found in \$OZG\_BASE/java.

## 2.2 HSL and PSL services

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 OHIJET 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.

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: For OHIJET.ear you may use the same WLS domain as for the HSL and SVL services. 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.pl.

---

#### 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.

**NOTE:** do not use the same database account for PSL\_USER as you used for HSL\_USER. Both accounts have their own specific set of privileges that are checked and corrected by the OHI Patch procedure. Any other privileges will be revoked, so only one set will survive if you use the same account for both.

### 3.3 OHI Back Office

Do not forget to set up module authorization for the OHIJET modules.

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

### 3.4 Deploy OHIJET.ear

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

The corresponding ear file is available in \$OZG\_BASE/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

---

The properties controlling all PSL services are set in the psl.properties file.

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]**.

The PSL services do support specifying the properties per service, using the `<app>` abbreviation, but this is not used under normal circumstances. Only when there is a problem OHI Support may ask you to specify for example an enhanced log level and/or separate specific log file name for a specific PSL service for which the abbreviation will be provided at such a moment. The valid abbreviations are not published.

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 default `psl.authorization` property to `TOKEN`. When the `authorization` is set to `TOKEN`, a number of specific `usercontent` and `tokenvalidation` properties must be set. These properties are explained in more detail in Appendix E in **Doc[1]**, 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. Formerly, up to release 10.19.1.3.0, this was done separately. Starting with release 10.19.1.4.0 this is all done with a single application deployment of `OHIJET.ear`.

The procedure for deploying the `OHIJET` application is described in chapter 4, `Installation of OHIJET Application`.

### 3.4.7 Testing

---

When you have deployed the `OHIJET` application, you can test the PSL services 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\
  eyAiYWxnIjogIkhNQUNfU0gyNTYiLCAidHlwIjogIkpXVCIgFQ.eyJAgImV4cCI6
  ICixNTU0OTg3NDg1IiwgImV4cCI6IjogIjE6ICJ3d3cub3JhY2x1LmNvbSIsICJwcm4iOiA
  iSUXJRUFUlcilLCAibmFtZSI6ICJCbW8gTG11YmVyd2VydGgiLCAiY2xhaW1zIj
  ogW3sgIm5hbWUiOiAiWlJHMzA5N0oiLCAicXVlcnlfY25seSI6IGZhbHhNfSx7I
```

```
CJuYW1lIjogIkJBQzAwMDhKIiwgInF1ZXJ5X29ubHkiOiBmYWxzZX0seyAibmFt
ZSI6ICJCQUMwMDA2SiIsICJxdWVyeV9vbm5IjogZmFsc2V9LHsgIm5hbWUiOiA
iQkFDMDAwNUoiLCAicXVlcnlf25seSI6IGZhbHN1fSx7ICJuYW1lIjogIkJBQz
AwMDdKIiwgInF1ZXJ5X29ubHkiOiBmYWxzZX0seyAibmFtZSI6ICJCQUMwMDA5S
iIsICJxdWVyeV9vbm5IjogZmFsc2V9LHsgIm5hbWUiOiAiWlJHMzA5OEoiLCAi
cXVlcnlf25seSI6IGZhbHN1fSx7ICJuYW1lIjogIlpSRzMwOTlKIiwgInF1ZXJ
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 OHIJET Application

The OHI Back Office web modules and REST services are packaged in a single archive named 'OHIJET.ear'. This ear file must be deployed to WLS.

Until OHI Back Office release 10.19.1.3 all warfiles related to OHIJET were deployed separately. Before deploying OHIJET.ear ensure that none of the following warfiles are deployed:

1. PSL\_<app>.war: Ensure that no PSL services are deployed. If PSL services do exist they need to be deleted in the WLS console.
2. HSL\_AUN, HSL\_AUZ and HSL\_JUP: Ensure that none of these HSL services are deployed. If these services do exist they need to be deleted in the WLS console. Note that this does not concern any of the other HSL services (e.g. HSL\_POL, HSL\_REL, HSL\_CLA, HSL\_C2B). Follow the instructions in **Doc[1]** for these other HSL services as they are not related to OHIJET.
3. ZRGOHIJET.war: Ensure that this warfile is not deployed. If this war does exist it needs to be deleted in the WLS console.

### 4.1 OHIJET Deployment

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

1. Select 'Deployments' from the WLS console:
2. Select 'Install' to create a new deployment.
3. Select 'OHIJET.ear'
4. Select to install the deployment as an application
5. Target the application at the managed server on which the OHIJET application should become available.
6. Finish the deployment using 'Custom Roles and Policies'.

The application is now deployed.

### 4.2 Post Installation

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

### 4.3 Updating the OHIJET Application

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

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

Alternatively, select 'Delete' to delete the existing OHIJET 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 OHIJET.ear application as described in this chapter.

### 4.4.1 Use a certified browser

The JET application can be run using a certified browser. To find out which versions of which browsers are certified for an OHI Back Office release:

- Go to My Oracle Support (MOS) at <http://support.oracle.com>
- Click "Login to My Oracle Support"
- Go to the tab "Certifications"
- In the section "Certifications Search" there is a "Search" tab. There, fill the "Product" with "Oracle Health Insurance Back Office" and fill the "Release" with the relevant release number
- Click the "Search" button. Now you should see "Certification Results" with on the left hand side Operating Systems, Application Servers, Databases etc.
- Open the "Application Servers" section
- Click the link "1 Release" besides "Oracle Web Logic Server"

Certification Results	
Back Oracle Health Insurance Back Office	
View  Share Link	View
Certified With	Number of Releases / Versions
▼ Operating Systems (1 Item)	
Linux x86-64	2 Versions
▼ Application Servers (1 Item)	
Oracle WebLogic Server	1 Release
▶ Databases (3 Items)	
Certified Product	
▼ Oracle WebLogic Server 12.2.1.4.0	
Linux x86-64 Red Hat Enterprise Linux 7	
Linux x86-64 Oracle Linux 7	

- On the right hand side below Oracle Weblogic Server you see Linux versions, click one of them
- Scroll down in the "Notes" section until the text "For the JET application..."
- Here you can read which browser versions are certified

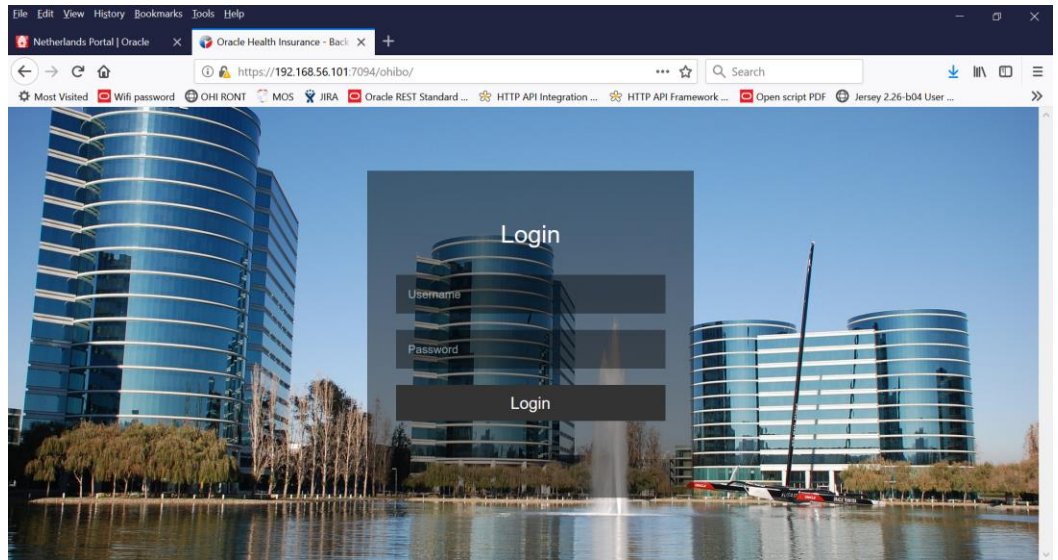
### 4.4.2 Run the JET application

To verify the deployment, browse

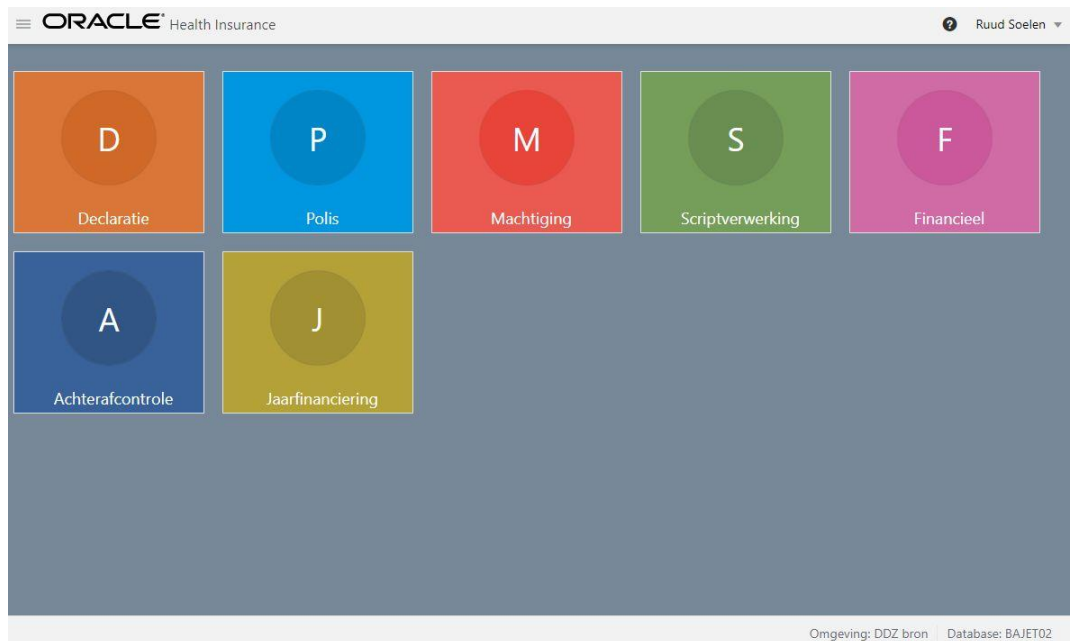
<https://server:port/ohibo>

Example:



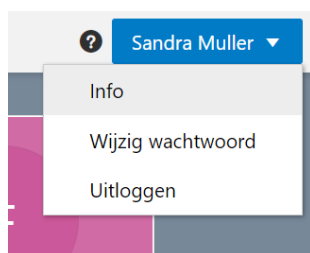


When you have successfully logged on with your OHI username and password , the screen should look like this:



At the bottom right you can see the name of the database, and if a value was specified for Back Office parameter 'Naam van de omgeving', you will also see that name at the bottom of the page.

You can verify the release number of the JET application by opening the Info window. You can find that in the menu besides your user name, in the upper right corner.



### Info ✕

Module	Omgeving	Database
Naam Werkverdeler declaraties	Naam DDZ bron	PDB BAJET02
Code ZRG3107J	<b>Applicatie</b>	Service bajet02
Service PSL_WVD	Release 10.21.2.0.TC10	Instance 1
	Revision 5299:5300M	

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