

Oracle Banking APIs

OHS User Interface Configuration Guide

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ORACLE®

OHS User Interface Configuration Guide

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1. Preface

1.1 Intended Audience

This document is intended for the following audience:

- Customers
- Partners

1.2 Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

1.3 Access to OFSS Support

Oracle customers have access to electronic support through My Oracle Support. For information, visit

<http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> or visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

1.4 Structure

This manual is organized into the following categories:

Preface gives information on the intended audience. It also describes the overall structure of the User Manual.

The subsequent chapters describes following details:

- Prerequisite
- UI Deployment
- Configuration / Installation

1.5 Related Information Sources

For more information on Oracle Banking APIs Release 19.1.0.0.0, refer to the following documents:

- Oracle Banking APIs Licensing Guide
- Oracle Banking APIs Security Guide

2. Pre-requisite

OHS software along with instance should be available for use.

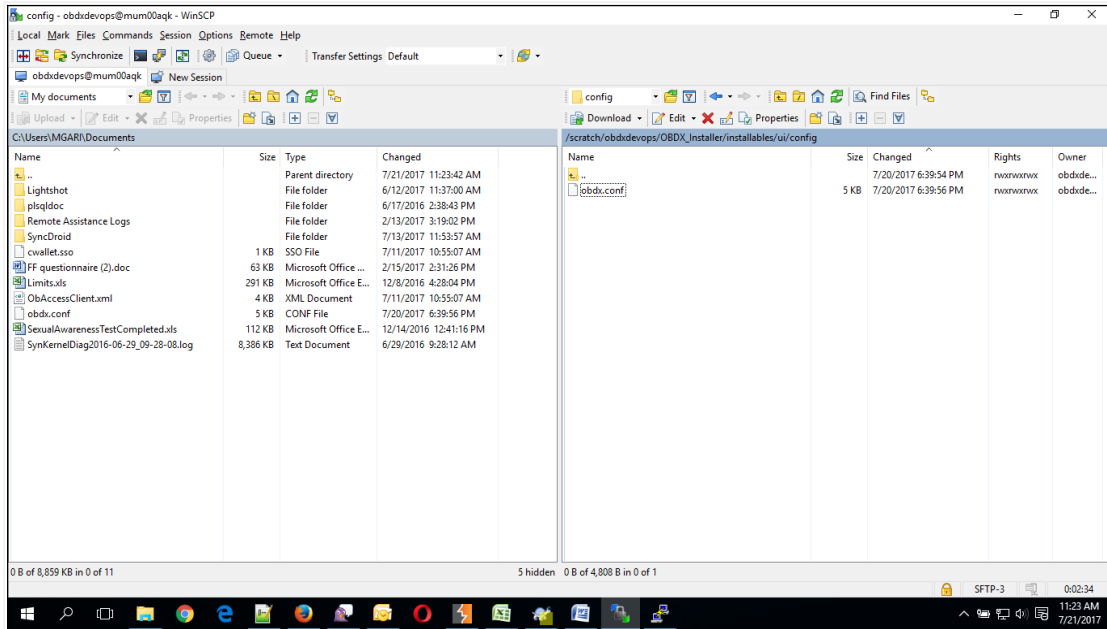
For further detailed configuration of Oracle HTTP Server, please refer to <https://docs.oracle.com/middleware/12213/webtier/administer-ohs/toc.htm>.

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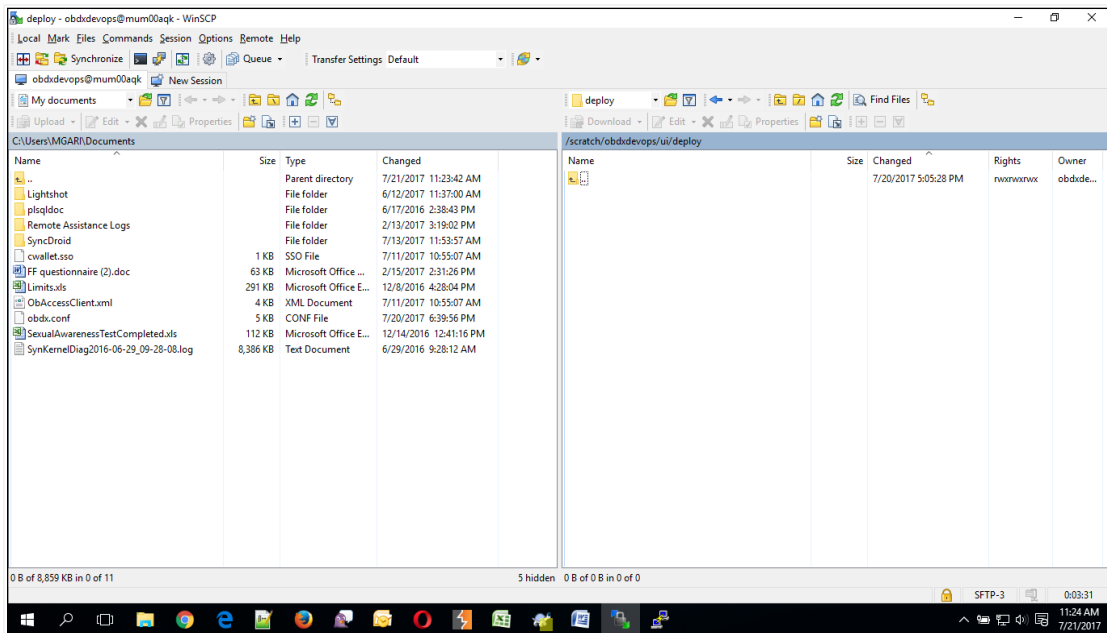
3. UI deployment

Below steps needs to be performed for UI deployment on OHS server.

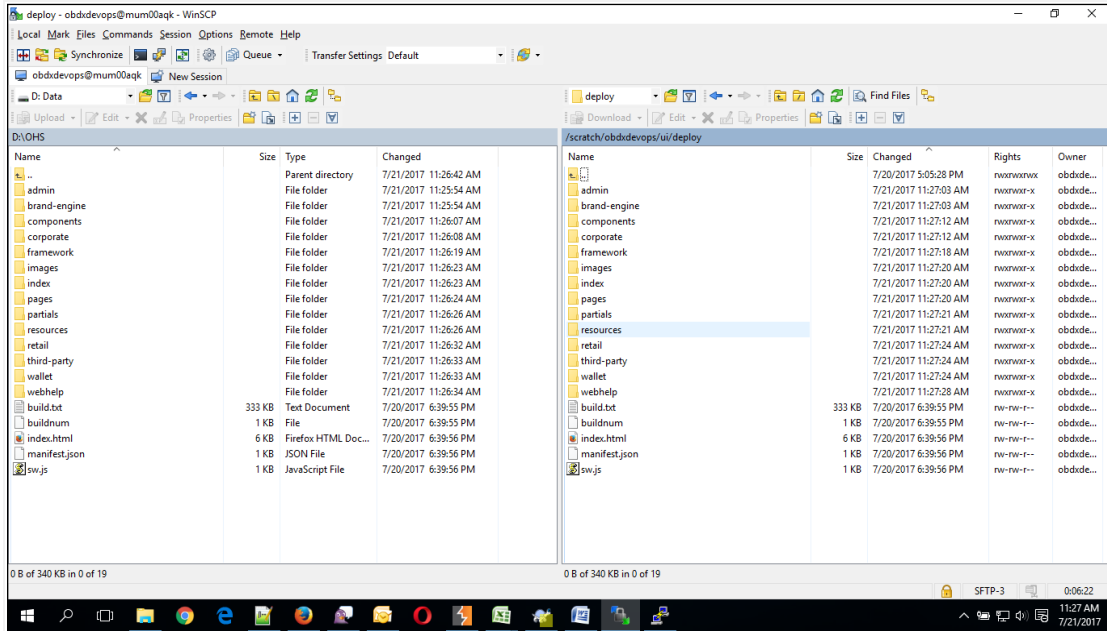
Copy the obapi.conf from OBAPI_Installer/installables/ui/config directory into the instance config directory (where httpd.conf is present). httpd.conf file is present at {DOMAIN_HOME}/config/fmwconfig/components/OHS/instances/{componentName}



- Create a directory where obapi UI files would be deployed on OHS server.



- Copy all files / directories from OBAPI_Installer/installables/ui/deploy into newly created directory.



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4. Configuration to run UI on Oracle HTTP Server

Make sure following OHS modules must be loaded

- mod_rewrite.so
- mod_deflate.so
- mod_expires.so
- mod_mime.so
- mod_headers.so

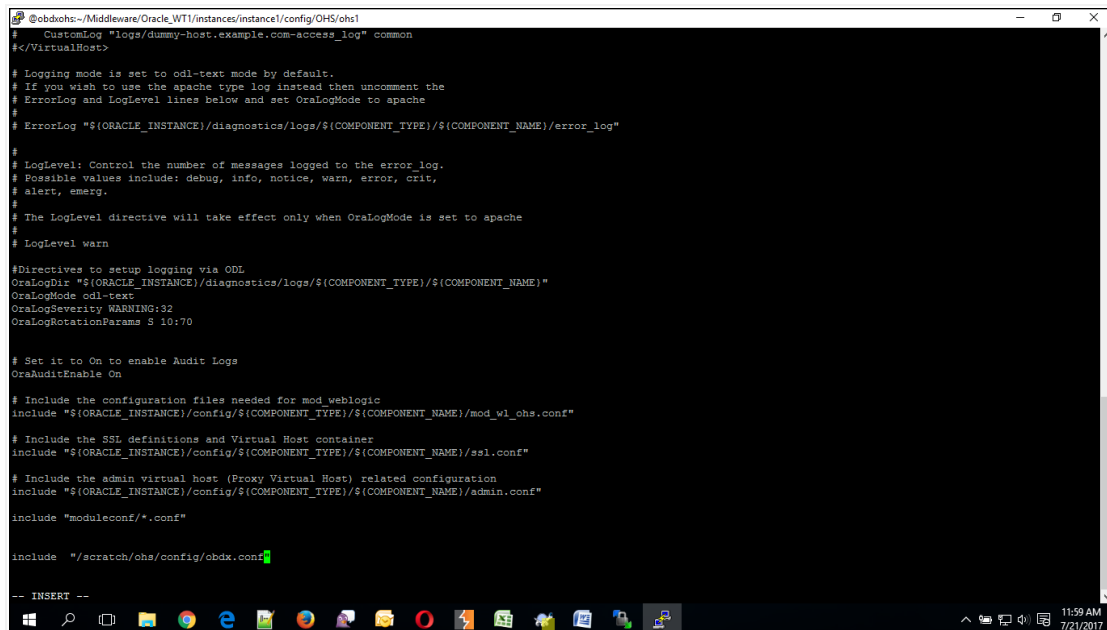
Following are the changes needed to be done in the obapi.conf file and place this file in same folder where httpd.conf file exists.

1. Replace the <CHANNEL_PATH> (all occurrences) with the newly created directory (from previous UI deployment step).
2. Configuration for Content Security Policy, refer to the below document
Oracle Banking APIs Security Guide

Include the obapi.conf into httpd.conf using below configuration

include "obapi.conf" (needs to be added in httpd.conf)

Read obapi.conf for inline documentation.



```

@b0bdxohs~/Middleware/Oracle_WT1/instances/instance1/config/OHS/ohs1
# CustomLog "logs/dummy-host.example.com-access_log" common
#</VirtualHost>

# Logging mode is set to odl-text mode by default.
# If you wish to use the apache type log instead then uncomment the
# ErrorLog and LogLevel lines below and set OraLogMode to apache
#
# ErrorLog "${ORACLE_INSTANCE}/diagnostics/logs/${COMPONENT_TYPE}/${COMPONENT_NAME}/error_log"
#
# LogLevel: Control the number of messages logged to the error_log.
# Possible values include: debug, info, notice, warn, error, crit,
# alert, emerg.
#
# The LogLevel directive will take effect only when OraLogMode is set to apache
#
# LogLevel warn

#Directives to setup logging via ODL
OraLogDir "${ORACLE_INSTANCE}/diagnostics/logs/${COMPONENT_TYPE}/${COMPONENT_NAME}"
OraLogMode odl-text
OraLogSeverity WARNING:32
OraLogRotationParams S 10:70

# Set it to On to enable Audit Logs
OraAuditEnable On

# Include the configuration files needed for mod_weblogic
include "${ORACLE_INSTANCE}/config/${COMPONENT_TYPE}/${COMPONENT_NAME}/mod_wl_ohs.conf"

# Include the SSL definitions and Virtual Host container
include "${ORACLE_INSTANCE}/config/${COMPONENT_TYPE}/${COMPONENT_NAME}/ssl.conf"

# Include the admin virtual host (Proxy Virtual Host) related configuration
include "${ORACLE_INSTANCE}/config/${COMPONENT_TYPE}/${COMPONENT_NAME}/admin.conf"

include "moduleconf/*.conf"

include "/scratch/ohs/config/obdx.conf

-- INSERT --

```


Following are the changes need to be done in mod_wl_ohs.conf which is present at **{DOMAIN_HOME}/config/fmwconfig/components/OHS/instances/{componentName}**

Copy below configuration into mod_wl_ohs.conf

```
<IfModule weblogic_module>
    WebLogicHost HOSTNAME
    WebLogicPort MANAGE_SERVER_PORT
    Debug ON
WLLogFile DIR/FILENAEME
    MatchExpression /digx/*
    MatchExpression /digx-auth/*
    MatchExpression /digx-social/*
</IfModule>
```

Configure below properties

- a. HOSTNAME – Weblogic server hostname (where OBAPI weblogic domain is configured)
- b. MANAGE_SERVER_PORT – Weblogic manage server port (where OBAPI application is deployed)
- c. DIR / FILENAME – Path where log file should be generated

Sample configuration (for reference purpose only)

```
<IfModule weblogic_module>
    WebLogicHost wls_server1
    WebLogicPort 7003
    Debug ON
    WLLogFile /tmp/weblogic_obp.log
    MatchExpression /digx/*
</IfModule>
```

```

@obdkohs-~/Middleware/Oracle_WT1/instances/instance1/config/OHS/ohs1
drwx----- 1 devops devops 4096 Nov 10 2016 fastcgi
drwx----- 1 devops devops 4096 Nov 10 2016 fcgi-bin
drwx----- 1 devops devops 4096 Nov 10 2016 httdocs
-rw-rw-r-- 1 devops devops 38092 Jul 21 06:29 httpd.conf
-rw-rw-r-- 1 devops devops 38047 Nov 10 2016 httpd.conf.ORIG
drwxr-xr-x 1 devops devops 4096 Nov 10 2016 icons
drwx----- 1 devops devops 4096 Nov 10 2016 keystores
-rw-rw-r-- 1 devops devops 12959 Nov 10 2016 magic
drwx----- 1 devops devops 4096 Nov 10 2016 man
drwx----- 1 devops devops 12288 Nov 10 2016 manual
-rw-rw-r-- 1 devops devops 15020 Nov 10 2016 mime.types
drwx----- 1 devops devops 4096 Nov 10 2016 mod_plsql
-rw-rw-r-- 1 devops devops 617 Jul 20 10:45 mod_wl_ohs.conf
drwx----- 1 devops devops 4096 Nov 10 2016 moduleconf
drwx----- 1 devops devops 4096 Nov 10 2016 proxy-wallet
-rw-rw-r-- 1 devops devops 2986 Nov 10 2016 ssl.conf
drwxr-xr-x 1 devops devops 4096 Nov 11 2016 webgate
-rw-rw-r-- 1 devops devops 2121 Nov 11 2016 webgate.conf
[devops@obdkohs oha1]$
[devops@obdkohs oha1]$
[devops@obdkohs oha1]$
[devops@obdkohs oha1]$ vi mod_wl_ohs.conf
[devops@obdkohs oha1]$ cat mod_wl_ohs.conf
# NOTE : This is a template to configure mod_weblogic.
LoadModule weblogic_module    "${ORACLE_HOME}/ohs/modules/mod_wl_ohs.so"

# This empty block is needed to save mod_wl related configuration from EM to this file when changes are made at the Base Virtual Host Level
<IfModule weblogic_module>
    WebLogicHost mum00aak
    WebLogicPort 7003
    Debug ON
    WLogFile /tmp/weblogic.log
    MatchExpression /diq/*
</IfModule>

# <Location /weblogic>
#     SetHandler weblogic-handler
#     PathFrom /weblogic
#     ErrorPage http://WEBLOGIC_HOME:WEBLOGIC_PORT/
# </Location>

[devops@obdkohs oha1]$

```

4.1 Authentication Configuration:

OBAPI product ships with two type of authentication methods:

1. OAM Authentication
2. Non OAM Authentication

4.1.1 Configuring the OAM Authentication

By default OAM server URL is set as <http://mum00aon.in.oracle.com:14100/oam/server>

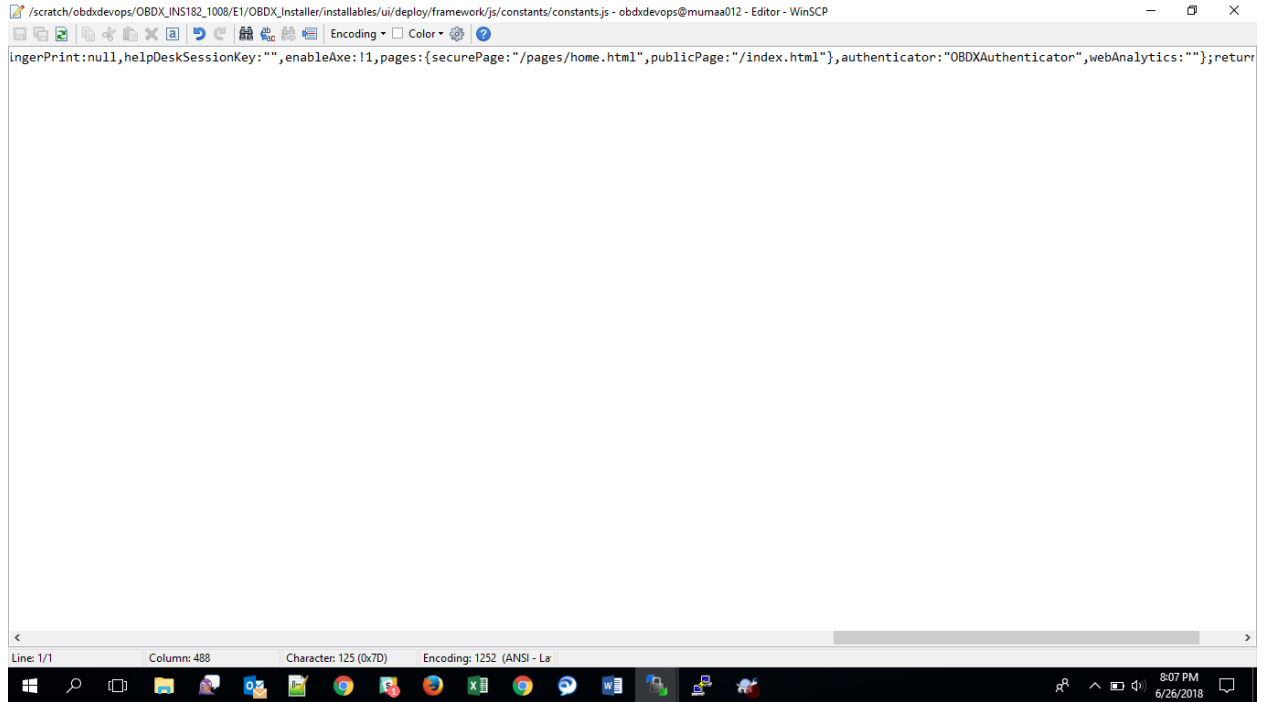
Replace it to your OAM server URL in the following files:

1. <CHANNEL_PATH>/components/login/login-form-web.js
2. <CHANNEL_PATH>/framework/js/constants/constants.js
 - a. Set the **authenticator** property as **"OUD"**.

4.1.2 Configuring the Non OAM Authentication

Configuring Non OAM Authentication implementer needs to change following files:

1. <CHANNEL_PATH>/framework/js/constants/constants.js
 - a. Set the **authenticator** property as **"OBAPIAuthenticator"**.



- i. In `{DOMAIN_HOME}/config/fmwconfig/components/OHS/instances/{componentName}/httpd.conf` remove `webgate.conf` entry

4.2 Other Configurations

Google Map Configuration:

By default Google map SDK URL is set as

<https://maps.googleapis.com/maps/api/js?key=AlzaSyCYFGuo6wj7CTEaBILF3gaRcJJWuYI53f8&libraries=geometry,places>

Replace it with your Google map SDK URL in the following files:

- `<CHANNEL_PATH>/components/inputs/map.js`
- `<CHANNEL_PATH>/components/location-maintenance/location-add.js`
- `<CHANNEL_PATH>/components/location-maintenance/location-update.js`
- `<CHANNEL_PATH>/components/atm-branch-locator/locator.js`

Social Media Configurations:

By default LinkedIn and Facebook API key is set as

LinkedIn Key: 86hg2yshsq76yd

Facebook Key: 233137313819556

Replace it to your social media API keys in the following files:

- `<CHANNEL_PATH>/components/social-media/facebook.js`

- <CHANNEL_PATH>/components/social-media/linkedin.js

Wallet Configurations:

By default OBAPI Base server URL is set as <http://mum00apu.in.oracle.com:7777/digx/v1/>

Replace it to your OBAPI Base server URL in the following files:

- <CHANNEL_PATH>/components/wallet-external/addfund.js
- <CHANNEL_PATH>/components/wallet/add_paymentMode.js

Since OBAPI UI support subresource integrity and changing files mentioned above will impact it and files which are changed won't work. SHA hash for all files are maintained in <CHANNEL_PATH>/framework/js/pages/security.js. There are two ways for solving this problem:

- Remove the SHA hash of the changed files along with the file name in security.js
- Generate SHA hash of modified files and update it in the security.js

Once all above steps are completed, restart the OHS server.

For the restarting of the OHS Server first go to the bin directory of the OHS instance.

Mandate SSL Configurations:

Configuring SSL as mandatory option, Implementer have to set the value ssl.status in <CHANNEL_PATH>/framework/js/constants/constants.js. If its value set as disabled application can work in both secure and unsecure connection but if its value is enabled application works only in secure connection.

5. Oracle HTTP Server Commands

5.1 Starting Oracle HTTP Server Instances from the Command Line

You can start up Oracle HTTP Server instances from the command line via a script.

1. Ensure that Node Manager is running.
2. Enter the following command:

```
Linux or UNIX: $DOMAIN_HOME/bin/startComponent.sh componentName
```

```
Windows: %DOMAIN_HOME%\bin\startComponent.cmd componentName
```

For example:

```
$DOMAIN_HOME/bin/startComponent.sh ohs1
```

The startComponent script contacts the Node Manager and runs the nmStart() command.

When prompted, enter your Node Manager password. The system responds with these messages:

```
Successfully started server componentName...
Successfully disconnected from Node Manager...

Exiting WebLogic Scripting Tool.
```

5.2 Stopping Oracle HTTP Server Instances from the Command Line

You can stop Oracle HTTP Server instances from the command line via a script.

Enter the following command:

```
Linux or UNIX: $DOMAIN_HOME/bin/stopComponent.sh componentName
```

```
Windows: %DOMAIN_HOME%\bin\stopComponent.cmd componentName
```

For example:

```
$DOMAIN_HOME/bin/stopComponent.sh ohs1
```

This command invokes WLST and executes the nmKill() command. The stopComponent command will not function if the Node Manager is not running.

For more commands refer the following URL:

<https://docs.oracle.com/middleware/1221/webtier/administer-ohs/getstart.htm>

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