

# Oracle Financial Services Analytical Applications

## Environment Check Utility Guide



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# 1

## Preface

This preface provides information for the Oracle Financial Services Analytical Applications (OFSAA) Environment Check Utility Guide.

Topics:

- [Access to Oracle Support](#)
- [Audience](#)
- [Additional Resources](#)
- [Conventions Used](#)
- [Acronyms Used](#)

## Access to Oracle Support

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

- [My Oracle Support](#)
- [Oracle Accessibility Learning and Support](#) if you are hearing impaired.

## Audience

This document is intended for the users who install and configure OFSAA applications.

## Additional Resources

This section identifies additional resources for the OFSAA applications. You can access the online documentation for the OFSAAI applications from the [Oracle Help Center \(OHC\)](#).

- Oracle Financial Services Advanced Analytical Applications Infrastructure (OFS AAAI) Release Notes
- Oracle Financial Services Advanced Analytical Applications Infrastructure Application Pack Installation and Configuration Guide
- Oracle Financial Services Advanced Analytical Applications Infrastructure Administration Guide
- Oracle Financial Services Advanced Analytical Applications Infrastructure User Guide

To find additional information about how Oracle Financial Services solves real business problems, see our website at [www.oracle.com/financialservices](http://www.oracle.com/financialservices)

## Conventions Used

The following table lists the conventions used in this guide.

Convention	Meaning
Italics	<ul style="list-style-type: none"><li>Names of books, chapters, and sections as references</li><li>Emphasis</li></ul>
Bold	<ul style="list-style-type: none"><li>The object of an action (menu names, field names, options, button names) in a step-by-step procedure</li><li>Commands typed at a prompt</li><li>User input</li></ul>
Monospace	<ul style="list-style-type: none"><li>Directories and subdirectories</li><li>File names and extensions</li><li>Process names</li><li>Code sample, including keywords and variables within the text and as separate paragraphs, and user-defined program elements within the text</li></ul>
Hyperlink	Hyperlink type indicates the links to external websites, internal document links to sections.

## Acronyms Used

The following table lists the acronyms used in this guide.

Acronyms	Description
Infodomain	Information Domain
OFSAAI	Oracle Financial Services Analytical Application Infrastructure
OFSA	Oracle Financial Services Analytical Applications
Navigation Tree	Left menu
OS	Operating System
URL	Uniform Resource Locator
MOS	My Oracle Support

# 2

## Introduction

The Environment Check Utility Guide describes the various categories of checks done as part of the OFSAA installation setup readiness. You must use this utility as the first step if you intend to check the setup readiness before installing OFSAA. The utility is also invoked internally during the installation of OFSAA as part of the Pre-install check step.

Topics:

- [Purpose of the Utility](#)
- [Java Checks](#)
- [Environment Variables Checks](#)
- [Operating System \(OS\) Checks](#)
- [Database Checks](#)
- [Miscellaneous Checks](#)

## Purpose of the Utility

The purpose of this utility is to run various checks on the software and hardware parameter settings of the setup on which the OFSAA products are to be installed. The utility displays the status for each check as SUCCESS or FAILURE.

The various types of checks are categorized as follows:

1. Java Checks
2. Environment Variables Checks
3. Operating System Checks
4. Database Checks
5. Miscellaneous Checks

## Java Checks

The check for Java is as follows:

1. Java is installed or not.
2. If the installed version of Java is compatible with the current OFSAA release (Java 1.8 64-bit for the 8.1.0.x.x release).

## Environment Variables Checks

The check for environment variables is as follows:

1. `ORACLE_HOME` (must point to the directory of the Oracle client installation.)
2. `TNS_ADMIN` (must point to the directory containing the Oracle `tnsnames.ora` and `sqlnet.ora` files.)

## Operating System (OS) Checks

The check for the operating system is as follows:

1. The current shell is the KORN shell.
2. The size of the total file descriptors for the logged-in user is greater than 15000 (applies only to Linux).
3. The size of the number of processes for the logged-in user is greater than 4096 (applies only to Linux).
4. The OS on which the installation must be performed is as per the supported version for the current release.
5. The environment variable TZ is set to a valid time zone region (applies only to Solaris 11).

## Database Checks

The database checks are as follows:

1. The Oracle Database client version is in the 18c or 19c series.
2. The Oracle Database server version is in the 18c or 19c series.
3. The Oracle instance is created with the default `NLS_LENGTH_SEMANTICS` parameter value as `BYTE`.
4. The Oracle instance is created with the default `NLS_CHARACTERSET` parameter value as `AL32UTF8`.
5. The value of the maximum number of open cursors is greater than 1000.

## Miscellaneous Checks

The miscellaneous checks are as follows:

1. Existence of the `VerInfo.txt` file in the current directory.
2. `READ` and `WRITE` permissions assigned in the `.profile` file for the logged-in user (performing the installation).

# 3

## OFSAAS Environment Check Utility

The Environment Check Utility is executed automatically during the installation of OFSAA as part of the pre-installation check utility. Besides, the utility is available on [My Oracle Support](#)(MOS) for the benefit of users to download and execute when required.

Topics:

- [Prerequisites](#)
- [Execute the Utility](#)
- [Example of an Output on Execution of the Utility](#)

### Prerequisites

The prerequisites are as follows:

1. The database user must have the following configured:

- CREATE SESSION
- SELECT ON SYS.V\_\$PARAMETER

For example,

```
create user testdbuser identified by password123
/
grant create session to testdbuser
/
grant select on sys.v_$parameter to testdbuser
/
```

2. The `tnsnames.ora` file must have a SID and SERVICE name TNS entry.

### Execute the Utility

To execute the utility, follow these steps:

1. Log in to OSD or [My Oracle Support](#).
2. Download the required OFSAA installation kit.
3. Copy the archive (.zip) file to the OFSAA server in BINARY mode.
4. Navigate to the server directory `<APP_PACK_ID>/OFS_AAI/bin/` where the OFSAA Install Kit was extracted and trigger the utility by executing the following command in the command prompt:

```
./envCheck.sh -s
```

After executing the utility, the output is displayed on the console.

5. Enter the values for the following parameters when prompted:
  - Please enter Oracle DB user name:



- Please enter password:
  - Please enter Oracle SID/ SERVICE name:
6. After the environment check is complete and the status of all the categories of checks displays as SUCCESSFUL, proceed with the OFSAA installation.

You can execute the utility multiple times to verify the installation setup environment.

## Alternate Method to Execute the Utility

The alternate method does not work for an Autonomous Data Warehouse in OFSAA. To execute the utility using the alternate method, follow these steps:

1. Log in to [My Oracle Support](#) and search for 31184754 under the Patches & Updates tab.
2. Download the utility.
3. Copy the archive (.zip) file to the OFSAA server in BINARY mode.
4. Extract the archive contents using the following command:

```
unzip -a p31184754_81000_Generic.zip
```

5. Navigate to the server directory where the utility was extracted and trigger the utility by executing the following command in the command prompt:

```
./envCheck.sh -s Username/password@SID
```

After executing the utility, the output is displayed on the console.

6. Enter the values for the following parameters when prompted:
  - Please enter Oracle DB user name:
  - Please enter password:
  - Please enter Oracle SID/ SERVICE name:
7. After the environment check is complete and the status of all the categories of checks displays as SUCCESSFUL, proceed with the OFSAA installation.

You can execute the utility multiple times to verify the installation setup environment.

## Example of an Output on Execution of the Utility

The following illustrations are provided as a reference:

Figure 3-1 Environment Check Utility Success

```
/scratch/test/31184754_GENERIC/31184754_GENERIC/31184754>./envCheck.sh -s
Environment check utility started...

=====
Java Validation Started ...
Java found in : /usr/java/jdk1.8.0_172/jre/bin
Error: Could not find or load main class validateXML.checkjce
JCE IS
Java Version found : 1.8.0_172
Java Bit Version found : 64-bit
Java Validation Completed. Status : SUCCESS

=====
Environment Variables Validation Started ...
ORACLE HOME : /scratch/oraofss/app/product/19.3.0/client_1
TNS ADMIN : /scratch/test
Environment Variables Validation Completed. Status : SUCCESS

=====
OS specific Validation Started ...
Checking en_US.utf8 locale. Status : SUCCESS
Unix shell found : /bin/ksh. Status : SUCCESS
Total file descriptors : 48192. Status : SUCCESS
Total number of process : 54096. Status : SUCCESS
OS version : 7. Status : SUCCESS
OS specific Validation Completed. Status : SUCCESS

=====
DB specific Validation Started ...
Please enter Oracle DB user name:
testdbuser
Please enter password:
Please enter Oracle SID/SERVICE name:
PQA19PDB
Oracle Client version : 19.0.0.0.0. Status : SUCCESS
client version 19.0
NLS_LENGTH_SEMANTICS : BYTE. Current value : BYTE. Status : SUCCESS
NLS_CHARACTERSET : AL32UTF8. Current value : AL32UTF8. Status : SUCCESS
Open cursor value is greater than 1000. Current value : 6000. Status : SUCCESS
Oracle db version 19
Oracle db R2 version 19.0
Oracle Server version Current value : 19.0.0.0.0. Status : SUCCESS
DB specific Validation Completed. Status : SUCCESS

=====
Environment check utility Status : SUCCESS

/scratch/test/31184754_GENERIC/31184754_GENERIC/31184754>
```

Figure 3-2 Oracle Client Version

```
Oracle Client version : 19.0.0.0.0. Status : SUCCESS
```