Oracle® Hospitality Self-Hosted Token Proxy Service

Redundancy Installation Guide

Release 19.2

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Oracle Hospitality Self-Hosted Token Proxy Service Redundancy Installation Guide, Release 19.2

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Contents

Preface

The Token Proxy Service (TPS) is a proxy interface for the hosted OPERA applications. This proxy service only processes the token or PAN exchange.

This document describes how to install the Oracle Hospitality Self-Hosted Token Proxy Service in a high availability environment.

This document does not cover installation of any prerequisites, for which a separate documentation is already available.

Audience

This document is intended for Oracle Consulting Resources, Oracle Re-Sellers, and Customers to complete a Self-Hosted Proxy service behind load balancers.

Customer Support

To contact Oracle Customer Support, access My Oracle Support at the following URL:

https://support.oracle.com

When contacting Customer Support, please provide the following:

- Product version and program/module name
- Functional and technical description of the problem (include business impact)
- Detailed step-by-step instructions to re-create
- Exact error message received
- Screen shots of each step you take

Documentation

Oracle Hospitality product documentation is available on the Oracle Help Center at http://docs.oracle.com/en/industries/hospitality/.

Oracle WebLogic product documentation is available on the Oracle Help Center at https://docs.oracle.com/en/middleware/

Oracle Database product documentation is available on the Oracle Help Center at http://docs.oracle.com/en/database/

Revision History

Table 1   Revision History

Date	Description of Change
July 2019	Initial Publication

Table 1   (Cont.) Revision History

Date	Description of Change
July 2020	Revised content across the entire document
April 2022	Updated content to confirm support of Oracle 19c Database

1
Overview of Token Proxy Service

The Token Proxy Service is designed to provide the token exchange proxy service for hosted applications. It is a proxy interface that works with your application to communicate with payment service providers (PSP), on whom it relies to provide the actual token functionality. It connects to PSPs via internet or virtual private network (VPN).

Installation Prerequisites

Before installing the Token Proxy Service, verify your environment meets the following requirements:

- 64-bit host.

- Windows Server 2012 R2 or newer operating system.

- Oracle 12c/19c database server installed and running, and the user understands how to use and configure Oracle DB.

- WebLogic is running to host the Web Portal, and the user understands how to use and configure WebLogic 12c.

- An SMTP server exists for sending emails to users.

- JRE (Java Runtime Environment) 1.8. If the Token Proxy Service is installed on the same host as WebLogic (which includes JDK), a separate JRE for the Token Proxy Service is not required.

- Minimum version of Token Proxy Service is 19.2.

2
Recommended System Requirements

Table 2-1   Recommended System Requirements

| Dedicated	On Web Portal/WebLogic Host*
4 x vCPU	8 x vCPU
16 GB RAM	32 GB RAM
100 GB OS	100 GB OS
100 GB Data	100 GB Data

* The recommended requirements are increased due to the heavy footprint of WebLogic.

* Number of servers recommended is based upon the transaction load, see **Oracle® Hospitality Self-Hosted Token Proxy Service Sizing Guide** on the Oracle Help Center for information.

3

Deploy Token Proxy Service with Redundancy

This diagram depicts how to deploy Token proxy service with redundancy.
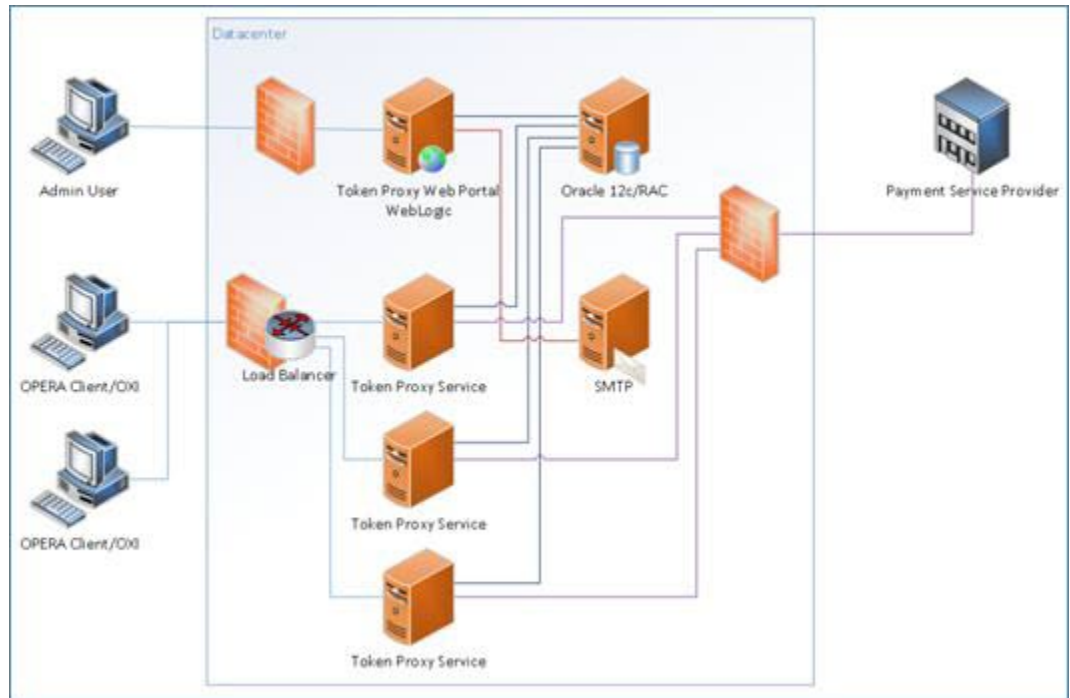
Deployment

The Token Proxy Service with Redundancy has the following key components:

- **Oracle 12c/19c/Real Application Clusters (RAC)** - stores the configuration and audit log from the Web Portal.

- **Token Proxy Service Web Portal** - configures the settings used by the Token Proxy Service, it is a web application supplied in a WAR file suitable for hosting WebLogic.

- **Load Balancer** - distributes client requests or network load efficiently across multiple TPS servers to ensure high availability and reliability by sending requests only to servers that are online.

- **Token Proxy Service** - standalone TPS application runs automatically as a service which handles all the transactions from OPERA or OXI Client to the PSP.

- **SMTP** - SMTP server exists for sending password reset emails to users.
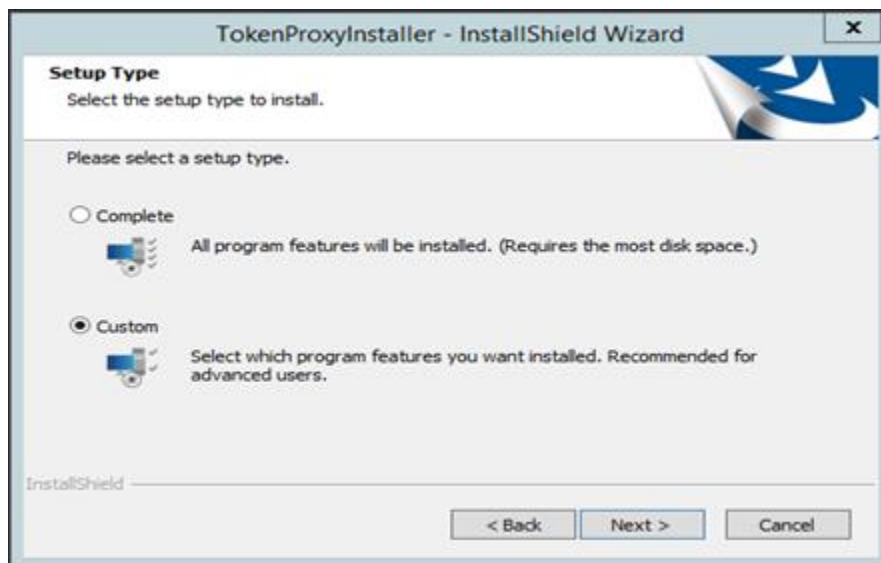
4

Installation

Token Proxy Service Installation on First TPS Server

For installing Token Proxy Service, see**Oracle® Hospitality Self-Hosted Token Proxy Service Installation and Configuration guide** on the Oracle Help Center.
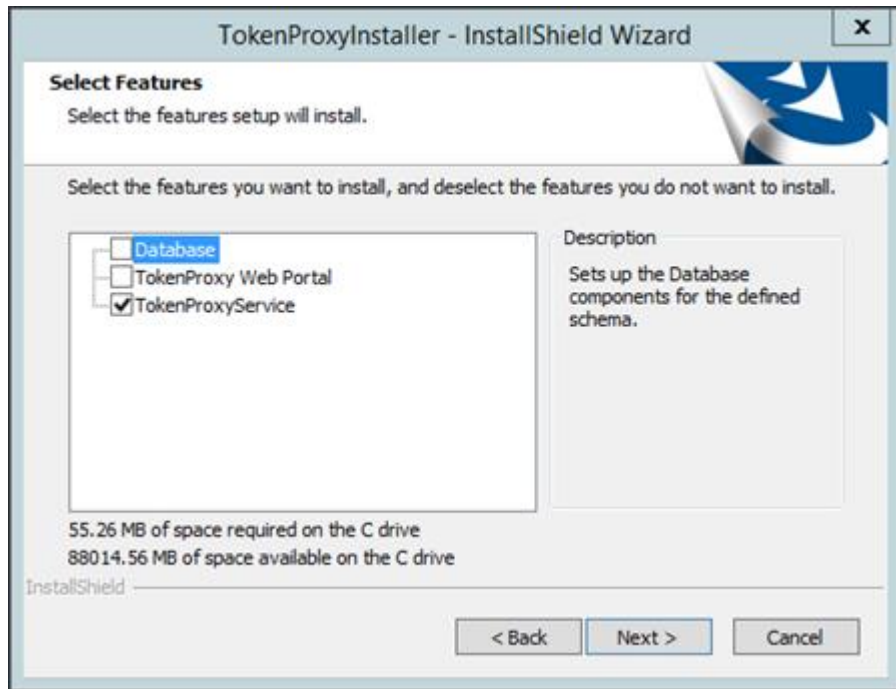
Token Proxy Service Installation on Additional TPS Server

For installing Token Proxy Service, refer to the **Oracle® Hospitality Self-Hosted Token Proxy Service Installation and Configuration guide** on the Oracle Help Center.

1. Download and run the latest release of the Token Proxy Service installer.

2. Select the **Custom** setup type to choose the features you want to install.

3. Select the **TokenProxyService** feature to install.

4. Initiate and complete the token proxy service installation process.

5. Certificate – Refer to the section **Certificates** in the **Oracle® Hospitality Self-Hosted Token Proxy Service Installation and Configuration guide** on the Oracle Help Center.

6. Run **OPIConfigX.exe** to complete the configuration of the secondary Token Proxy Service, the secondary Token Proxy Service should share the same database as the primary Token Proxy Service and input the credentials for its own certificates such as Listener and PSPs.
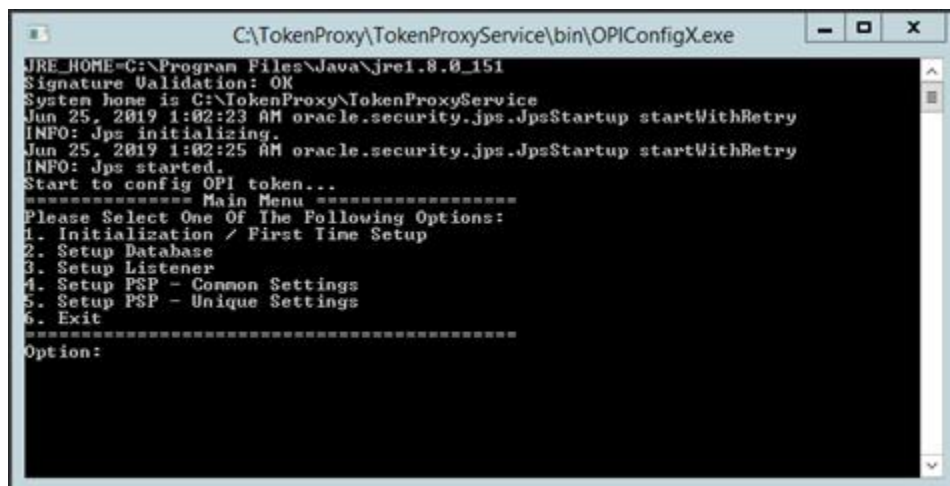
7. Start the Token Proxy Service once the configuration setup is done.

8. The log files such as debug.log, gateway.log, system.log and transaction.log are created in the log folder.