FMS API

Document deployment guide

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# Table of Contents

### Table of Contents

[1 Table of Contents 2](#_Toc89682084)

[1.1.1 Table of Contents 2](#_Toc89682085)

[1.1.2 Server information 3](#_Toc89682086)

[1.1.3 Diagram Flow 3](#_Toc89682087)

[2 PRE-REQUISITE SOFTWARE 4](#_Toc89682088)

[2.1 Java Development Kit (JDK) 4](#_Toc89682089)

[2.1.1 Install Java Development Kit (JDK) 4](#_Toc89682090)

[2.1.2 Verify That the JDK Is Installed Correctly 4](#_Toc89682091)

[2.2 Apache Tomcat 5](#_Toc89682092)

[2.3 Install Postman plugin into your chrome 5](#_Toc89682093)

[3 Deployment And Configuration 6](#_Toc89682094)

[3.1 FMS Service API 6](#_Toc89682095)

[3.1.1 Database configuration 6](#_Toc89682096)

[3.1.2 Private key for authentication by DA 9](#_Toc89682097)

[3.1.3 Configure ESB system service connection. 9](#_Toc89682098)

[3.1.4 Configure file template’s path for report. 10](#_Toc89682099)

[3.1.5 Configure param for data migration 12](#_Toc89682100)

[3.1.6 Tomcat & Deployment 13](#_Toc89682101)

### Server information

|  |  |
| --- | --- |
| **Software Specification** | |
| Operating System | **Linux** |
| Application server | **Apache Tomcat v9** |
| Java Development Kit | **JDK8** |
| Database | **Oracle server** |

### Diagram Flow

Diagram

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# PRE-REQUISITE SOFTWARE

This section defines the installation of the pre-requisite software.

## Java Development Kit (JDK)

This section describes the installation of the Java Development Kit. FMS API requires the JDK version 1.8 or higher.

### Install Java Development Kit (JDK)

Install the Java Development Kit, version 1.8.

1. Download a copy of the Java SE 8 Development Kit. Be sure to select the proper version to match your operating system.

<http://www.oracle.com/technetwork/java/javase/downloads/index.html>

1. Right click on the file and select **Run as administrator**.
2. During the installation, accept all the default values by pressing the **Next** button on all screens.
3. If applicable, ignore the product registration screen/page after the installation is complete.
4. Make a note of the folder where Java is installed.

### Verify That the JDK Is Installed Correctly

Verify that the Java JRE and JDK are installed correctly.

1. Open a DOS window.
2. Enter the following command:

java –version

You should see a message like the following (your version number or build number may vary):

java version "1.8.0\_211"

Java(TM) SE Runtime Environment (build 1.8.0\_211-b12)

Java HotSpot(TM) 64-Bit Server VM (build 25.211-b12, mixed mode)

1. Enter the following command:

javac –version

You should see a message like the following (your version number may vary):

javac 1.8.0\_211

1. Verify that both messages show a Java version that starts with 1.8. If you do not see these messages, go back through the installation steps for the Java JDK.

## Apache Tomcat

Download the Apache Tomcat, such as, **apache-tomcat-9.0.46.zip** from the following location:

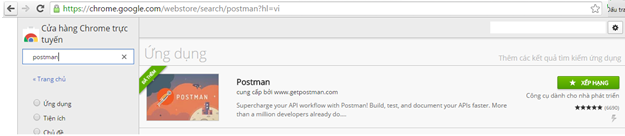
<https://tomcat.apache.org/download-90.cgi>

Unzip the file to a folder of your choice, such as *“…/app/fms/….”*

## Install Postman plugin into your chrome

With Postman, we can construct a HTTP request and test the API.

1. Open your Chrome browser, search the Postman plugin and add it into Chrome.

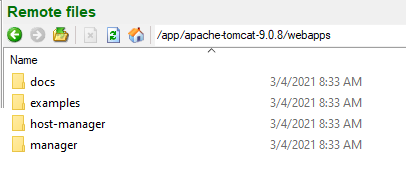


# Deployment And Configuration

This section defines the deployment & configuration system.

## FMS Service API

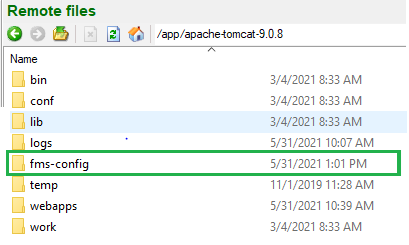
Get the war package at <https://git.shinhanfinance.com.vn/internal/fms-system/-/tree/develop/BE> *source* and put the **Web-app tomcat folder** then start the tomcat server.



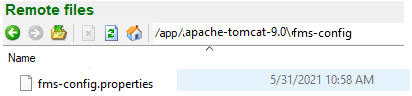
### Database configuration

This section defines the configuration database connection for FMS system.

1. In Tomcat directory, create new folder name “**fms-config**”.



1. Create new file “**fms-config.properties**” into folder in step #1.



1. In Tomcat directory, create new folder name “**fms-config**”.

Graphical user interface, application, table

Description automatically generated

1. Create new file “**fms-config.properties**” into folder in step #1.

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1. Open the properties then add the value as below.

**Oracle DB for FMS API**The configuration to connect FMS DB. Input the configuration to connect FMS database in below:

|  |  |  |
| --- | --- | --- |
| ## Oracle DB Data source. ## | | |
| Key | Value | Description |
| datasource.oracle.fms.url | jdbc:oracle:thin:  @//10.148.50.4:1521/DEVPDB.prudential.com | URL for New FMS schema |
| datasource.oracle.fms.driver-class-name | oracle.jdbc.driver.OracleDriver | Default value |
| datasource.oracle.fms.username |  | Username of New FMS schema |
| datasource.oracle.fms.password |  | Password of New FMS schema |
| datasource.oracle.fms.old.url | jdbc:oracle:thin:  @//10.148.50.4:1521/DEVPDB.prudential.com | URL for Old FMS schema |
| datasource.oracle.fms.old.driver-class-name | oracle.jdbc.driver.OracleDriver | Default value |
| datasource.oracle.fms.old.username |  | Username of Old FMS schema |
| datasource.oracle.fms.old.password |  | Password of Old FMS schema |

***Example:***

Text

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### Private key for authentication by DA

This section defines the private key to authenticate by user DA.

**Private key for authentication by DA**Configure private-key to authenticate DA user at “**fms-config.properties”** in path: ***{tomcat}/fms-config/*fms-config*.properties***.

|  |  |  |
| --- | --- | --- |
| ## Private key for authentication by DA. ## | | |
| Key | Value | Description |
| private\_key\_da\_user | 1O34IVHOA89ZN4H6 (In Dev env) | ESB URL for create Notepad |

***Example:***



### Configure ESB system service connection.

This section defines the configuration for calling ESB API from FMS API.

**Configuration ESB API which called from FMS**

Configure ESB service connection at “**fms-config.properties”** in path: ***{tomcat}/fms-config/*fms-config*.properties***.

|  |  |  |
| --- | --- | --- |
| ## ESB Server Configuration. ## | | |
| Key | Value | Description |
| esb\_api\_url\_create\_notepad\_service | <http://10.148.50.5:443/api> (In Dev env) | ESB URL for create Notepad |
| esb\_api\_url\_comp\_blacklist\_service | <http://10.148.50.5:8098/api/core> (In Dev env) | ESB URL for update comp blacklist |
| esb\_api\_url\_update\_ais\_agent\_service | <http://10.148.50.5:8094/api> (In Dev env) | ESB URL for update agent AIS |
| esb\_api\_url\_authentication\_service | <http://10.148.50.5:8094/api> (In Dev env) | ESB URL for authenticate by DA account |
| esb\_api\_url\_get\_customer\_service | <http://10.148.50.5:8094/api> (In Dev env) | ESB URL for get customer information |
| esb\_api\_url\_get\_queue\_by\_systemId | <http://10.148.50.5:8094/api> (In Dev env) | ESB URL for get queue information |

***Example:***

Text, letter

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### Configure file template’s path for report.

This section defines the configuration directory to storage files in FMS.

**Create the folder to storage the FMS’s files**

* Create the {**baseDir**} directory as parent directory.
* Create the sub directory in below:
  + {baseDir}/fms/document
  + {baseDir}/fms/document/error
  + {baseDir}/fms/storage
  + {baseDir}/fms/esbData
  + {baseDir}/fms/template
  + {baseDir}/fms/export

*In dev environment, {****baseDir****} = “C:/Dung Pham/Project/FMS/Imp”.*

**Get template report for FMS API**

Get those files “<https://git.shinhanfinance.com.vn/internal/fms-system/-/tree/develop/BE/template>” on GitSvn then move all files to **template folder** **{baseDir}/fms/esbData**.

Graphical user interface, table

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**Configure the directory folder for FMS API**

Configure folder loading resource template at “**fms-config.properties”** in path: ***{tomcat}/fms-config/*fms-config*.properties***.

|  |  |  |
| --- | --- | --- |
| ## Template Folder Configuration. ## | | |
| Key | Value | Description |
| PATH\_FMS\_DOCUMENT\_FOLDER | {baseDir}/fms/document | This folder to storage document file which user attached |
| PATH\_FMS\_DOCUMENT\_ERROR\_FOLDER | {baseDir}/fms/document/error | This folder to storage files which migrate data error. |
| PATH\_FMS\_STORAGE\_FOLDER | {baseDir}/fms/storage | This folder to storage the “description” file which user storage |
| PATH\_ESB\_DATA\_TEMP\_FOLDER | {baseDir}/fms/esbData | This folder to storage data which populate from ESB (Queue data) |
| PATH\_TEMPLATE\_FOR\_EXPORT\_DATA | {baseDir}/fms/template/ | This folder contains the template for export report |
| PATH\_EXPORT\_FMS | {baseDir}/fms/export/ | This folder to storage files which user export report |

***Example:***

Text

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### Configure param for data migration

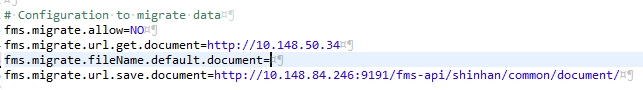
This section defines the configuration the migration data from Old and New FMS System.

**Configure the running migration batch job**

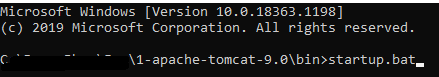
Configure folder loading resource template at “**fms-config.properties”** in path: ***{tomcat}/fms-config/*fms-config*.properties***.

|  |  |  |
| --- | --- | --- |
| ## Data Migration Configuration. ## | | |
| Key | Value | Description |
| fms.migrate.allow | NO | YES | NO = Don’t allow data migration.  YES = Allow data migration. |
| fms.migrate.url.get.document | http://10.148.50.34 | URL to get document of OLD FMS. |
| fms.migrate.fileName.default.document |  | Should be ‘’ (blank) |
| fms.migrate.url.save.document | {fmsURL}/{contextPath}/shinhan/common/document/  Note in dev:  {fmsURL} = <http://10.148.84.246:9191>  {contextPath} = /fms-api | The API of new FMS to save document file from old FMS. |

***Example:***



### Tomcat & Deployment

1. Direct the path to “***{tomcat}****/bin”*, typing **startup.bat** to start/restart the Tomcat.  
   
2. Check the Tomcat started successfully.  
   