

# Deployment Guide

aramco  
trading



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## Introduction

This document specifies the installation of the relevant softwares (Java JDK, Maven, Chrome) to run the Aramco Energy Trading Data Application which scrapes, processes and visualizes the Import/Export data of Products in India and Indonesia from 2017 onwards.

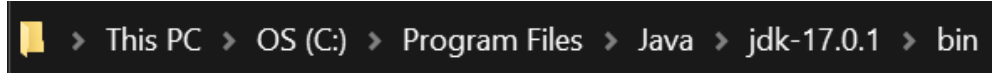
## Installation (Windows)

Step-by-step reference for Step 1 (Java) & Step 2 (Maven): <https://youtu.be/9A425SE59SQ>

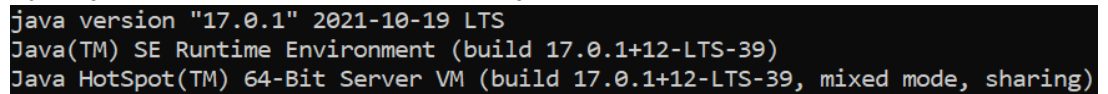
### 1. Java

- a. Go to <https://www.oracle.com/java/technologies/downloads/>.
- b. Under “Java SE Development Kit 17.0.1 downloads”, select your Operating System (Linux/macOS/Windows).
- c. Click on the x64 installer and run the program when downloaded.
- d. Approve the permission for the program to make changes to your device.
- e. Follow the instructions in the installation
- f. Optionally, to access the tutorials, API Documentation, developer guides, release notes to get started with JDK, go to <https://docs.oracle.com/en/java/javase/17/index.html>
- g. To confirm the installation, go to OS (C:) > Program Files > Java > jdk-17.0.1. This folder should contain all the files required to run Java applications.

- h. Enter the bin folder in jdk-17.0.1 and click on the folder icon at the extreme left of the directory bar



- i. Copy the bin path which should look something like this: "C:\Program Files\Java\jdk-17.0.1\bin"
- j. In your Window search bar, search for "Edit the system environment variables" and open it up
- k. Click on "Environment Variables"
- l. At the bottom half of the pop-up, click on Path under System Variables and then click "Edit"
- m. Click on "New" at the top right corner and then paste the bin path which was copied in step (i)
- n. Click "OK" for all pop-ups
- o. To confirm the installation once again, type "cmd" in Windows search bar and open up the Command Prompt
- p. Type "java -version" and the version of java installed will be printed like this:

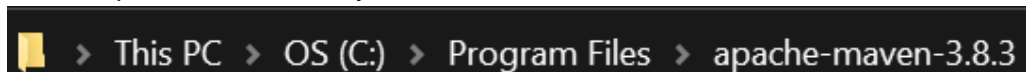


(Do not worry if the exact numbers are different because different version may have been released at the time of your installation)

- q. Congratulations, you have successfully installed Java!

## 2. Maven

- a. Go to <https://maven.apache.org/download.cgi>
- b. Download the Binary zip archive
- c. Go to your Downloads folder
- d. Right click the apache maven zip file and extract all
- e. After extraction, copy the **INNER** Apache Maven folder (apache-maven-x.x.x, NOT apache-maven-x.x.x-bin) and paste into OS (C:)
- f. If permission is required, click "Continue"
- g. Open the apache-maven folder (apache-maven-x.x.x) and click on the folder icon on the top left of the directory bar



- h. Copy the link which should look something like this: "C:\Program Files\apache-maven-3.8.3"
- i. In your Window search bar, search for "Edit the system environment variables" and open it up
- j. Click on "Environment Variables"
- k. At the upper half of the pop-up, click "New"
- l. In the pop-up, key in "**MAVEN\_HOME**" for the Variable Name and paste the path copied in step (h)
- m. At the upper half of the pop-up, click "New" once again
- n. In the pop-up, this time key in "**M2\_HOME**" for the Variable Name and paste the path copied in step (h)
- o. At the bottom half of the pop-up, click on Path under System Variables and then click "Edit"

- p. Click on “New” at the top right corner and then paste the path which was copied in step (h) and **add in “/bin” at the end of the path**. It should look something like this: “C:\Program Files\apache-maven-3.8.3”
- q. Click “OK” for all pop-ups
- r. To confirm the installation once again, type “cmd” in Windows search bar and open up the Command Prompt
- s. Type “mvn -version” and the version of maven installed will be printed like this:

```
Apache Maven 3.8.2 (ea98e05a04480131370aa0c110b8c54cf726c06f)
Maven home: C:\Program Files\apache-maven-3.8.2-bin\apache-maven-3.8.2
Java version: 15.0.1, vendor: Oracle Corporation, runtime: C:\Program Files\jdk-15.0.1
Default locale: en_US, platform encoding: Cp1252
OS name: "windows 10", version: "10.0", arch: "amd64", family: "windows"
```

(Do not worry if the exact numbers are different because different version may have been released at the time of your installation)

- t. Congratulations, you have successfully installed Maven!

### 3. Chrome

- a. Go to [https://www.google.com/intl/en\\_us/chrome/](https://www.google.com/intl/en_us/chrome/)
- b. Click on Download Chrome
- c. If prompted, click Run or Save
- d. If saved, run the downloaded Chrome Setup
- e. When installation is complete, Chrome browser will open automatically
- f. Congratulations, you have successfully installed Chrome!

## Run Application

### Windows

- 1. Navigate to windows folder from the project folder root
- 2. Click on ‘UpdateOilData’ file to run the scrapers
- 3. After ‘UpdateOilData’ file has finished running, click on ‘RunFrontendApp’ file
- 4. After ‘RunFrontendApp’ file has finished running, enter the link <http://localhost:8080/india/monthly> on your chrome browser to view the application

You may wish to run the ‘UpdateOilData’ file as often as you like to update the datasets