

20141107 Setup & Install Guide

Status: In Test

Prerequisites:

- Approximately 300 MB free
- Java installed (Java runtime version 1.7 or later, which can be downloaded [here](#).)
- Access to: https://github.com/ligaDATA/RTD_ReadOnly OR the RTD install package *{.tar??}

Windows users:

- 7-zip intalled (<http://www.7-zip.org/>) Choose for 32bit or 64bit. *Note: for OpenSource, we should use zip or tar.gz*

Assumptions:

- No other Zookeeper Service is running
- No Other Kafka service is running on this node *NOTE: optional. You will need some input/output to the engine.*

Linux users:

- It is suggested that Linux users run the services/scripts under screens (http://www.howtoforge.com/linux_screen), so that if the connection is lost, they will still be running. (*NOTE: This will become a service in a later release.*)

Install the following:

1. Download and install Scala 2.10.4: <http://www.scala-lang.org/download/2.10.4.html>
2. Download and install sbt: <http://www.scala-sbt.org/download.html>
3. (Suggested - hold for open source) Download and install Kafka: <http://kafka.apache.org/>
4. Download and install Zookeeper: <http://zookeeper.apache.org/releases.html#download>
5. From GitHub, clone: https://github.com/ligaDATA/RTD_ReadOnly
6. Navigate to the folder where you cloned https://github.com/ligaDATA/RTD_ReadOnly and where you have placed the dataset install file.
NOTE: Kvinit commands have been removed from the script due to changes These are done in a separate script.

Linux & Mac users:

- i. Run install script:

```
bash /path/to/source/trunk/SampleApplication/Medical/bin/installOnLEP_Medical.sh  
</path/to/install/location> </path/to/source/location>
```

Example: \$HOME/ligadata/trunk/SampleApplication/Medical/bin/installOnLEP_Medical.sh /tmp/OnLEPInstall \$HOME/ligadata/trunk

- ii. Execute the Metadata.API test harness:

Note: See the Metadata.API setup guide to complete the installation of the LigaData RTD solution.

```
java -jar /path/to/install/location/MetadataAPI-1.0 --config /path/to/config.json
```

A sample configuration file is located at trunk/MetadataAPI/src/main/resources/MetadataAPIConfig.json. Change the values to match your environment. Metadata files are all currently located at trunk/MetadataAPI/src/test/SampleTestFiles/ and must be there in order to be recognized. There is currently no method of choosing alternative folders.

Using the Metadata.API , add metadata objects in the following order:

- i. Messages
 - hl7.json
 - inpatientclaim.json
 - outpatientclaim.json
 - beneficiary.json
- ii. Containers
 - idCodeDim.json
 - ConflictMedicalCode.json
 - CoughCodes.json
 - EnvCodes.json
 - SmokeCodes.json
 - SputumCodes.json
 - DyspnoeaCodes.json

- hcpcsCodes.json
- icd9DiagnosisCodes.json
- icd9ProcedureCodes.json
- dgRelGrpCodes.json
- IneProcIndTable.json
- provNumTable.json
- conflictMedCds.json

- iii. Models
 - COPDv1.xml

- iii. Prepare the kvstores using the new metadata-generated jars:

Run trunk/SampleApplication/Medical/bin/PrepKvStores.sh <installPath> <sourcePath>

Windows:

Note: the script for KVStore initialization will be included in a future release.

- i. Make sure Scala and sbt paths are in the PATH environmental variable.

Example - yours may look different:

C:\ProgramData\Oracle\Java\javapath;C:\Program Files\Common Files\Microsoft Shared\Windows Live;C:\Program Files (x86)\Common Files\Microsoft Shared\Windows Live;%SystemRoot%\system32;%SystemRoot%;%SystemRoot%\System32\Wbem;%SYSTEMROOT%\System32\WindowsPowerShell\v1.0\;C:\Program Files (x86)\Windows Live\Shared;;C:\Program Files (x86)\scala\bin;C:\Program Files (x86)\sbt\bin

- i. Install the demo you wish to use:

- 1) Execute 'installOnLEP_Medical.bat'

Note: Compression to .gz is commented out in the bat file and needs to be done manually, then copied over manually.

Running OnLEP

- 1. Run the engine:

- i. Execute:

- 1. /path/to/install/loc/OnLEPManager-1.0 --config </path/to/config/file>

Example: /tmp/OnLEPInstall/OnLEPManager-1.0 --config /tmp/OnLEPInstall/COPD.cfg

- i. You can see the input file here:

- /path/to/install/location/msgdata/messages_new_format_all.csv.gz

- ii. Then examine the following files to see the output.

/path/to/install/location/logs/output1.txt.gz

- iii. Quit the engine by typing "quit". Ctrl-C should also work.