

Reviews & Ratings: Local Dev Setup

Steps for dev environment setup

mkdir Projects; cd Projects;

Run this command **git clone ssh://gitolite@10.125.1.150:1754/reviews_next_gen** to clone the reviews_next_gen repository on local

Import the project in eclipse using maven import.

Build the project using maven build.

mkdir development-setup

Go to development-setup folder follow the steps below

Download configurations from



Extract & Move this config folder to location **<Projects-Parent-Directory>/Projects/reviews_next_gen/application/config**

Cassandra

- Download Cassandra using -- **wget <http://ftp.wayne.edu/apache/cassandra/2.2.0/apache-cassandra-2.2.0-bin.tar.gz>**
- Run **tar -xvf apache-cassandra-2.2.0-bin.tar.gz**
- Go to **apache-cassandra-2.2.0** unzipped folder and proceed with the steps mentioned below.
- Start Cassandra using command -- **./bin/cassandra**
- Go to cqlsh terminal using **./bin/cqlsh** and Run the following DDL and DML :
 - [R&R Casdandra DDL](#)
 - [R&R Cassandra DML](#)
 - [Authentication Settings](#)

Aerospike

- Install Aerospike using command – **sudo apt-get install aerospike**
- Open the aerospike.conf file using command - **sudo vim /etc/aerospike/aerospike.conf**
- Add this line to aerospike configuration file **namespace reviews_platform_memory { }**
- Start aerospike – **sudo service aerospike start**
 - [R&R Aerospike DML](#)

Kafka & Zookeeper

- Download kafka using -- **wget http://mirror.symnds.com/software/Apache/kafka/0.8.2.1/kafka_2.9.1-0.8.2.1.tgz**
- Run **tar -xvf kafka_2.9.1-0.8.2.1.tgz** to untar the downloaded file.
- Go to **kafka_2.9.1-0.8.2.1** folder and proceed with the steps mentioned below.
- Start Zookeeper using **sudo ./bin/zookeeper-server-start.sh <Projects-Parent-Directory>/Projects/reviews_next_gen/application/config/kafka_zookeeper.properties**
- Start Kafka using **sudo ./bin/kafka-server-start.sh**

<Projects-Parent-Directory>/Projects/reviews_next_gen/application/config/kafka_server.properties

Elastic Search

- a. Download elasticsearch using -- **wget <https://download.elastic.co/elasticsearch/elasticsearch/elasticsearch-1.7.1.tar.gz>**
- b. Run **tar -xvf elasticsearch-1.7.1.tar.gz** to untar the downloaded file.
- c. Go to **elasticsearch-1.7.1** folder and proceed with the steps mentioned below.
- d. vi /config/elasticsearch.yml
- e. add
 - i. **cluster.name: reviews_and_ratings**
 - ii. **index.number_of_shards: 1**
 - iii. **script.disable_dynamic: false**
 - iv. **index.number_of_replicas: 0**
- f. Start elastic search in background using command – **./bin/elasticsearch &**
- g. Run the following DDL and DML for elastic search
 - [Elasticsearch DDL & DML](#)

Tomcat

- a. Steps for setting up tomcat outside eclipse
 - i. Download tomcat and extract to **development-setup** folder location from <https://tomcat.apache.org/download-80.cgi>
 - ii. Extract this tar into **development-setup** folder using **tar -xvf apache-tomcat-8.0.9.tar.gz**
 - iii. run **vim <tomcat_location>/conf/catalina.properties**
 - iv. add **config.location= <Projects-Parent-Directory>/Projects/reviews_next_gen/application/config** into this file
 - v. Copy the **reviews-api.war** to **webapps** folder of tomcat
 - vi. Start tomcat using **./bin/startup.sh**
 - vii. Stop tomcat using **./bin/shutdown.sh**
- b. Steps for setting up tomcat with eclipse
 - i. Add Server in eclipse by giving the path to tomcat location
 - ii. Modify the server launch configuration add vm arguments **-Dconfig.location= <Projects-Parent-Directory>/Projects/reviews_next_gen/application/config** to it.
 - iii. Deploy war using eclipse on this server.

Event-Consumer

- a. To run event consumer – **java -Xdebug -Xrunjdwp:transport=dt_socket,server=y,suspend=n,address="8003" -Dconfig.location=<Projects-Parent-Directory>/Projects/reviews_next_gen/application/config -Denv=prod -Dstatic.resource.url=<http://i.sdlcdn.com/static/> -jar event-consumer-executable.jar**

URL To Access Swagger

- a. <http://localhost:8080/reviews-api/index.html>

Aliases For Short Command:

a. Steps to follow to create aliases

1. Use **cd; vi .bash_aliases** command in your terminal
2. Save below file in **.bash_aliases** and set **<Parent-Directory>** according to your system.

```
alias tomcat='cd <Parent-Directory>/development-setup/apache-tomcat-8.0.26/'
alias tomcat_logs='tomcat; tail -f logs/catalina.out'
alias cassandra='cd <Parent-Directory>/development-setup/apache-cassandra-2.2.0/'
alias zookeeper='cd <Parent-Directory>/development-setup/kafka_2.9.1-0.8.2.1/'
alias kafka='cd <Parent-Directory>/development-setup/kafka_2.9.1-0.8.2.1/'
alias elasticsearch='cd <Parent-Directory>/development-setup/elasticsearch-1.7.1/'
alias rnr='cd <Parent-Directory>/reviews_next_gen/application'
alias eventconsumer='cd <Parent-Directory>/reviews_next_gen/application/core/event-consumer/target'
alias aerospike='cd /opt/aerospike'

alias aerospike_start='sudo /etc/init.d/aerospike start'
alias zookeeper_start='sudo ./bin/zookeeper-server-start.sh
<Parent-Directory>/reviews_next_gen/application/config/kafka_zookeeper.properties'
alias kafka_start='sudo
./bin/kafka-server-start.sh <Parent-Directory>/reviews_next_gen/application/config/kafka_server.properties'
alias elasticsearch_start='./bin/elasticsearch &'
alias cassandra_start='./bin/cassandra'
alias tomcat_start='./bin/startup.sh'
alias tomcat_stop='./bin/shutdown.sh'
alias eventconsumer_start='<Parent-Directory>/development-setup/jdk1.8.0_60/bin/java
```

```
-Dconfig.location=<Parent-Directory>/reviews_next_gen/application/config -Denv=prod -Dstatic.resource.url=http://i.sdlcdn.com/static/ -jar event-consumer-executable.jar'
```

3. Now use above aliases to run cassandra,zookeeper,kafka,elasticSearch,aerospike,elasticsearch and tomcat.