**Open Source Project : Appsmith**

**Backend : Server steps:**

1)Clone the Appsmith repository and change into it :

git clone https://github.com/appsmithorg/appsmith.git

cd appsmith

2)Change your directory to deploy/docker

cd deploy/docker

3)Start

docker-compose up -d

4)Setting up a local MongoDB instance

docker run -d -p 127.0.0.1:27017:27017 --name appsmith-mongodb --hostname=localhost -e MONGO\_INITDB\_DATABASE=appsmith -v /path/to/store/data:/data/db mongo --replSet rs0

A screenshot of a computer

Description automatically generated

5)Enabling replica set for mongo

Mongo running inside docker

below steps for enabling the replica set with mongo running inside the docker

6)For Connecting to the mongo db running with a mongo shell. Use the below command

mongosh

7)Once you are inside the mongo shell run the below command.

rs.initiate({"\_id": "rs0", "members" : [{"\_id":0 , "host": "localhost:27017" }]})

8)Setting up a local Redis instance

The following command will start a Redis docker instance locally:

docker run -d -p 127.0.0.1:6379:6379 --name appsmith-redis redis

9)Redis will now be running on redis://localhost:6379.

Building and running the code

10)Clone Appsmith repository.

Change your directory to app/server.

11)Run the following command:

mvn clean compile

This generates a bunch of classes required by IntelliJ for compiling the rest of the source code. Without this step, IDE may complain about missing classes and will be unable to compile the code.

12)Setup Environment file

Create a copy of the envs/dev.env.example

cp envs/dev.env.example .env

13)Ensure that the environment variables APPSMITH\_MONGODB\_URI and APPSMITH\_REDIS\_URI in the file .env point to your local running instances of MongoDB and Redis.

14)Update the replica set name with correct value in the mongo connection string in the .env file. The replica name is the same as passed here

APPSMITH\_MONGODB\_URI="mongodb://localhost:27017/appsmith?replicaSet=<replica-set-name>"

15)Run the following command to create the final JAR for the Appsmith server:

./build.sh -Dmaven.test.skip

16)After this you have to stop tomcat running on 8080 port by using following command :

sudo systemctl stop tomcat

17)Start the Java server by running:

./scripts/start-dev-server.sh

