

Broadsea Demo

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Acknowledgements



Marc Suchard

Developer of the Broadsea OHDSI Rstudio / R Docker Container



Jon Duke

Initial idea for OHDSI WebAPI & Web Apps Docker Container
Tested Broadsea with Regenstreif Oracle OMOP CDM Version 5



LTS Computing LLC



Lee Evans

Developer of the Broadsea OHDSI WebAPI & Web Apps Docker Container
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What is Broadsea?

Deploy the full OHDSI technology stack on your local machine & connect it to your OMOP CDM Version 5 Database

Broadsea

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OHDSI R packages
& Web Apps

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Deployed as
Docker Containers

What is a Docker container?

- An application packaged with all its dependencies
- Built from a configuration file (Dockerfile)
- Download container images from Docker Hub website
- Docker engine must be installed on your machine
- Cross-platform
- Free to install and use
- See this link for more info:
 - <https://www.docker.com/what-docker>



GET DOCKER

Docker provides an integrated technology suite that enables development and IT operations teams to build, ship, and run distributed applications anywhere.

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DOCKER PLATFORM

DOCKER HUB

DOCKER CLOUD

DOCKER DATACENTER

INSTALL THE PLATFORM

Install Docker with easy to use installers for the major desktop and cloud platforms.



MAC



WINDOWS



LINUX

The OHDSI Broadsea Docker containers



Note. The containers are large – around 3 GB and 275 MB and take some time to download from Docker Hub

ohdsi-rstudio-r

- RStudio server
- R
- OHDSI R packages

ohdsi-webapi-web-apps

- WebAPI
- Atlas
- Calypso

Configure & Run Broadsea

```
# Broadsea OHDSI RStudio & R packages and OHDSI WebAPI & web applications
version: '2'
services:
  ohdsi-rstudio-r:
    image: ltscomputingllc/ohdsi-rstudio-r
    ports:
      - "8787:8787"
    volumes:
      - ./home/rstudio:/home/rstudio
  ohdsi-webapi-webapps:
    image: ltscomputingllc/ohdsi-webapi-webapps:1.1.1
    ports:
      - "8080:8080"
    volumes:
      - ./tmp/drivers/:ro
      - ./tmp/achilles-data-reports/:ro
    environment:
      - WEBAPI_URL=http://192.168.99.100:8080
      - datasource_driverClassName=org.postgresql.Driver
      - datasource_url=jdbc:postgresql://192.168.1.8:5556/postgres
      - datasource_username=postgres
      - datasource_password=abc123
      - spring.jpa.properties.hibernate.default_schema=ohdsi
      - flyway_datasource_driverClassName=org.postgresql.Driver
      - flyway_datasource_url=jdbc:postgresql://192.168.1.8:5556/postgres
      - flyway_schemas=ohdsi
      - flyway.placeholders.ohdsSchema=ohdsi
      - flyway_datasource_username=postgres
      - flyway_datasource_password=abc123
      - flyway.locations=classpath:db/migration/postgresql
```

- Edit docker-compose.yml file
 - WebAPI URL
 - DB connection info
- docker-compose run -d
- Configure source & source_daimon tables with CDM connections
- docker-compose down
- docker-compose run -d

Demo

Windows – Docker toolbox
PostgreSQL OMOP CDM V5 database

How can I try Broadsea?



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- Still a beta release
- Documentation still under development
- Limited testing on Windows, Mac OS X, Linux
- Limited testing with PostgreSQL, SQL Server, Oracle
- Will post example docker-compose.yml file to the OHDSI forums
- Will update github OHDSI/broadsea repo
- Docker engine must be installed on your machine
- OMOP CDM Version 5 database required
- Will be used in OHDSI technology stack tutorial at the 2016 OHDSI Symposium