

i2b2 Production Deployment Guide

This guide provides instructions for deploying i2b2 in a production environment, assuming you are using a PostgreSQL database on a remote production server.

1. Setting up Subnets in the Cloud

Setting up Subnets in the Cloud

2. Setting up PostgreSQL Database

Follow the official i2b2 guide to set up the PostgreSQL database:

[i2b2 Data Installation Guide](#)

3. Deploying Client Containers and Database Connectivity

This section provides guidance for deploying the i2b2 web client and Core Server service using Docker while connecting them to a pre-configured production PostgreSQL database.

Step 1: Clone the Repository

If you have not already cloned the repository, execute:

```
git clone https://github.com/i2b2/i2b2-docker.git
```

Step 2: Navigate to the Repository Directory

```
cd i2b2-docker
```

Step 3: Checkout the Production Branch

Checkout the branch that contains only the web client and Core Server service.

```
git checkout release-v1.8.1a.0001_prod_db_foundation
```

Step 4: Configure the Database

Ensure that the PostgreSQL production database is already set up and running.

- Update the database environment variables in the `.env` file to match your production settings.
- Configure the following parameters:
 - **Database Host**
 - **Port**
 - **Username**
 - **Password**
 - **Database Name**
 - **Schema Name**

Step 5: Start the Webclient and Core Server Containers

Run the following command to start the containers:

```
docker-compose up -d i2b2-webclient
```

Step 6: Verify the Deployment

- Check if the Core Server container has started successfully:

```
docker-compose logs i2b2-core-server
```

- Access the i2b2 web client in your browser using the appropriate production URL and port.

4. Custom Configuration

Update the database lookup tables in i2b2hive:

- Database lookup in i2b2 maps each project to the correct backend schema (demodata, metadata, workdata) so that the Core Server knows where to send queries for different services.

```
update crc_db_lookup set c_db_fullschema = 'i2b2demodata';
update work_db_lookup set c_db_fullschema = 'i2b2workdata';
update ont_db_lookup set c_db_fullschema = 'i2b2metadata';
```

Update the Core Server URL in the Database:

- Update `PMCELLDATA` table in PM Schema
- Replace the part of the text from URL column text is "http://localhost:9090/text" replace "localhost:9090" with the "":

For more details check the following SQL file:

File location: `/i2b2/i2b2-data/edu.harvard.i2b2.data/`

```
Release_1-8/NewInstall/Pmdata/scripts/demo/  
pm_access_insert_data.sql
```

This completes the i2b2 production deployment. If you encounter any issues, refer to the logs or the official i2b2 documentation.