# Requirements

* Git
* Docker

# Downloading DT4H Mapping Configurations

DT4H mapping configurations are maintained in the project’s GitHub repository. Below, we

* Create and navigate into a working directory to run the tools: <workspaceDir>
* git clone <https://github.com/DataTools4Heart/data-ingestion-suite.git>
* git clone <https://github.com/DataTools4Heart/common-data-model.git>

# onFHIR Deployment

* Run inside the working directory,
  + sh ./common-data-model/docker/run.sh
* If there is no execution access, give execution access:
  + chmod +x ./common-data-model/docker/run.sh

# toFHIR Deployment

* Download the password file for SRDC’s private Docker repository from: <https://srdcltd.sharepoint.com/:t:/s/DataTools4Heart/ERRInhWGLy5Cvfwn9JFaNOEBUmc1jjjP-bjCz3lAvYu9DQ?e=AsvrVi>
* Copy the file into <workspaceDir> directory.
* Run the following scripts in the <workspaceDir>:
  + sh ./data-ingestion-suite/docker/deployment/pull.sh
  + sh ./data-ingestion-suite/docker/deployment/run.sh
* If there is no execution access, give execution access:
  + chmod +x ./data-ingestion-suite/docker/deployment/pull.sh
  + chmod +x ./data-ingestion-suite/docker/deployment/run.sh

# Running Behind Nginx Configuration

* The current deployment has been tested and worked successfully with Nginx and it is recommended to use it. If Nginx is not being used, you can easily start a Nginx Docker container directly using the Docker Compose file we have defined and toFHIR will be available to use:
  + sh ./data-ingestion-suite/docker/proxy/run.sh
* If your host machine is already running nginx, you can insert the following proxy configuration:
  + location /dt4h/tofhir/api {

proxy\_pass http://127.0.0.1:6085/tofhir;

proxy\_set\_header Host $host;

proxy\_set\_header X-Real-IP $remote\_addr;

}

location /dt4h/tofhir {

proxy\_pass http://127.0.0.1:6082/;

proxy\_set\_header Host $host;

proxy\_set\_header X-Real-IP $remote\_addr;

}

location /dt4h/tofhir/kibana/ {

proxy\_pass http://127.0.0.1:5601/;

proxy\_set\_header Host $host;

proxy\_set\_header X-Real-IP $remote\_addr;

}

# Execution of Mappings with Dummy Data

# Navigate to http://<hostname>/dt4h/tofhir

* Click on your project and click on Open
* Click on Executions
* Click on green arrow next to the “x-deploy” entry
* Click on the right-double-arrow icon to select all the mappings for execution
* Click Run button
* You can check the status of the execution by first checking the list of executions by clicking on the Refresh icon. Then, you can go into the details of the execution and see status of individual mapping tasks included on the “x-deploy” job.

For more information about toFHIR, you can visit [toFHIR.io (onfhir.io)](https://onfhir.io/tofhir/).

# Automated Docker Container Update

If you are installing for the first time, you can skip this step. This section outlines the procedure to follow when new updates are made to our Docker images. This process involves pulling the latest images from the repository, stopping all running containers to avoid conflicts, and then restarting them with the updated images.

* Stop all containers:
  + sh ./data-ingestion-suite/docker/deployment/stop.sh
  + sh ./common-data-model/docker/stop.sh
  + sh ./data-ingestion-suite/docker/proxy/stop.sh (**Optional**)
* Pull the latest changes and images:
  + cd common-data-model
  + git pull
  + cd ..
  + sh ./common-data-model/docker/pull.sh
  + cd data-ingestion-suite
  + git pull
  + cd ..
  + sh ./data-ingestion-suite/docker/deployment/pull.sh
* Run all containers:
  + sh ./common-data-model/docker/run.sh
  + sh ./data-ingestion-suite/docker/deployment/run.sh
  + sh ./data-ingestion-suite/docker/proxy/run.sh (**Optional**)