# Downloading DT4H Feast Configurations

After mapping the data source to the common data model, feature extraction process can be started. DT4H feature extraction configurations are maintained in the project’s GitHub repository. Below, we

* navigate into a working directory to run the tools: <workspaceDir>
* git clone <https://github.com/DataTools4Heart/feature-extraction-suite>

# Feast Deployment

* Run the following script in the <workspaceDir>:
  + ./feature-extraction-suite/docker/run.sh

Running Behind Nginx Configuration

* For Feast deployment, the toFHIR application must first be deployed successfully and mapping must be run. If you used the Nginx Docker container during the toFHIR deployment, you could configure the Nginx config for Feast by following these steps:
  + navigate into a working directory: <workspaceDir>
  + ./data-ingestion-suite/docker/proxy/stop.sh
  + Uncomment lines between 59-63 in ./data-ingestion-suite/docker/proxy/nginx.conf
  + ./data-ingestion-suite/docker/proxy/run.sh
* Or if your host machine is already running nginx, you can insert the following proxy configuration and restart nginx:
  + location /dt4h/feast {

proxy\_pass <http://onfhir-feast:8087/onfhir-feast>;

proxy\_set\_header Host $host;

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

}

# Feature Extraction Process

* Send a POST request to this URL to start extraction process:

http://<hostname>/dt4h/feast[/api/Dataset/$extract?url=https://datatools4heart.eu/datasets/study1](http://127.0.0.1:6087/onfhir-feast/api/Dataset/$extract?url=https://datatools4heart.eu/datasets/study1)

* The extraction process may take ~15 minutes to complete depending on the size of data.
* After completed, extracted dataset file should be generated in:

<workspaceDir>/feature-extraction-suite/datasets/study1/<datasetId>/<fileId>.parquet

* For statistics about the dataset:  
  http://<hostname>/dt4h/feast/api/Dataset?url=https://datatools4heart.eu/datasets/study1

More information about feast endpoints: <https://docs.google.com/spreadsheets/d/1HZdmK2yJDoKDlio2_K-4W3FvbPaF6ywbH5e4QLY1pbk/edit?pli=1#gid=1539087413>