## 1.Create a dockerfile

Current dockerfile:

<pre>

FROM ubuntu:18.04

RUN mkdir -p /opt/toppic

COPY . /opt/toppic

ENV PATH "$PATH:/opt/toppic/bin"

RUN apt-get update

RUN apt-get install zlib1g-dev -y\

libboost-filesystem-dev -y\

libboost-program-options-dev -y\

libboost-system-dev -y\

libboost-thread-dev -y\

libboost-iostreams-dev -y\

libboost-chrono-dev -y\

libxerces-c3.2 -y

WORKDIR /data

</pre>

Then move the dockerfile to a root folder of TopPIC Suite (proteomics\_cpp).

## 2. Build docker image

<code>sudo docker build -t toppicsuite/toppic .</code>

-t parameter assigns a tag name to this image. It should be same as the repository name.

## 3. Test docker image

<code>sudo docker run -it -v [local data files path]:/data toppicsuite/toppic /bin/bash</code>

</br><code>topfd st\_1.mzML</code>

## 4. Push image to the repository

<code>sudo docker push toppicsuite/toppic</code>