LTaaS With SSL Enabled

The major part is to generate the certificate, this needs to be done before building the docker images of the master and slave.

To generate the certificate, download the jmeter archive and execute the script:

```
$ cd jmeter/bin
$ ./create-rmi-keystore.sh
What is your first and last name?
  [Unknown]:  rmi
What is the name of your organizational unit?
  [Unknown]:  My unit name
What is the name of your organization?
  [Unknown]:  My organisation name
What is the name of your City or Locality?
  [Unknown]:  Your City
What is the name of your State or Province?
  [Unknown]:  Your State
What is the two-letter country code for this unit?
  [Unknown]:  XY
Is CN=rmi, OU=My unit name, O=My organisation name, L=Your City, ST=Your State, C=XY
correct?
  [no]:  yes

Copy the generated rmi_keystore.jks to jmeter/bin folder or reference it in property
'server.rmi.ssl.keystore.file'
```

The certificate file rmi_keystore.jks needs to be copied to the folder where the Dockerfile resides.

The sample Dockerfile with the SSL aspect is given below:

Jmeter-Master:

```
FROM kubernautslabs/jmeter-base:latest
MAINTAINER Kubernauts-lab

ARG JMETER_VERSION=4.0

COPY rmi_keystore.jks /jmeter/apache-jmeter-$JMETER_VERSION/bin/

EXPOSE 60000
```

Jmeter-slave:

```
FROM kubernautslabs/jmeter-base
MAINTAINER Kubernauts-lab

ARG JMETER_VERSION=4.0

ENV JMETER_VERSION=4.0

COPY rmi_keystore.jks /jmeter/apache-jmeter-$JMETER_VERSION/bin/

EXPOSE 1099 50000

ENTRYPOINT $JMETER_HOME/bin/jmeter-server \
-Dserver.rmi.ssl.keystore.file /jmeter/apache-
jmeter-${JMETER_VERSION}/bin/rmi_keystore.jks \
-Dserver.rmi.localport=50000 \
-Dserver_port=1099
```

Once the images are pushed to the registry, then they can be used in the deployment manifest files.

N.B -- It is important that the same certificate file is used in both master and slave deployments.