

## Question

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## Adjusting LD\_LIBRARY\_PATH in containers

I'm building a container from `store/intersystems/iris-community:2019.4.0.383.0`.

I need to add my folder to the LD\_LIBRARY\_PATH so that my custom shared library would load at runtime.

How can I do that?

Here's what I tried:

```
ARG IMAGE=store/intersystems/iris-community:2019.4.0.383.0
FROM ${IMAGE}

USER root

ENV MYDIR /usr/mydir

ENV LD_LIBRARY_PATH $MYDIR:$LD_LIBRARY_PATH

RUN mkdir "$MYDIR"; \
  chown -hR $ISC_PACKAGE_IRISUSER:$ISC_PACKAGE_IRISGROUP $MYDIR; \
  chmod -R 777 $MYDIR; \
  echo "LD_LIBRARY_PATH=\"$MYDIR\"" >> /etc/environment; \
  echo "$MYDIR" >> /etc/ld.so.conf.d/my.conf; \
  echo "LD_LIBRARY_PATH=$MYDIR:$LD_LIBRARY_PATH" >> /home/$ISC_PACKAGE_IRISUSER/.profile; \
  echo "LD_LIBRARY_PATH=$MYDIR:$LD_LIBRARY_PATH" >> /home/$ISC_PACKAGE_MGRUSER/.profile; \
  ldconfig; \
  echo $LD_LIBRARY_PATH;

USER irisowner

RUN iris start $ISC_PACKAGE_INSTANCENAME && \
  /bin/echo -e "w \${system.Util.GetEnviron(\"LD_LIBRARY_PATH\")}" \
  " halt" \
  | iris session $ISC_PACKAGE_INSTANCENAME && \
  iris stop $ISC_PACKAGE_INSTANCENAME quietly
```

However at both buildtime and runtime this call:

```
w ${system.Util.GetEnviron("LD_LIBRARY_PATH")}
```

returns

```
/usr/irissys/bin
```

And not

```
/usr/mydir:/usr/irissys/bin
```

Which at runtime causes my main issue:

```
Failed to load dynamic library <> cannot open shared object file: No such file or directory
```

Any ideas?

[#Containerization](#) [#Docker](#) [#InterSystems IRIS](#)

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Source URL: <https://community.intersystems.com/post/adjusting-ldlibrarypath-containers>