Installation of Industrial HiVision in a Docker Container

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Before starting, please refer to the Industrial HiVision manual, readme and release notes for restrictions that may apply to installing Industrial HiVision on virtual machines.

Note: This description applies in general to all versions of HiVision. For better understanding the version 08.3.03 is addressed here. For other versions please replace installer filename and Web-/Project-Data port numbers accordingly (offset is +7 between minor versions, different bugfix versions use the same port numbers).

1. Prerequisites:

    1. Linux operating system with apt packet manager, i.e. Debian 12

    2. docker 19 or newer installed

    3. HiVision installation file ihivision08303_linux.tar

2. Open a terminal, create and move to a folder of your choice

3. Copy ihivision08303_linux.tar and create following text file named dockerfile:

```
FROM debian:bullseye-slim as base
RUN apt update -y && DEBIAN_FRONTEND=noninteractive && \
    apt install -y libalgorithm-diff-perl && \
    rm -rf /var/lib/apt/lists/* &&\
    rm -rf /etc/apt/sources.list.d/
FROM base
ARG INSTALLER=./ihivision08303_linux.tar
ENV INSIDE_DOCKER_CONTAINER=true
ADD $INSTALLER /
RUN /bin/bash -c 'echo -e "y\n/opt/ihivision\ny\ny\nn\n\n" | sh /install.sh' && \
    rm /install.sh /ihivision.tgz
CMD []
ENTRYPOINT ["bash",
```

```
       "/opt/ihivision/services/HiVisionMasterService"]
```

4. Build the docker image:
   ```
   docker build -t ihivision .
   ```

5. Build and run the docker container
   inject volume- and port mapping (Web-/Project-Data ports):
   ```
   docker run -d --name ihivision -p 11201:11201 -p 11202:11202 -v
   \

   `pwd`/docker_host_exchange:/opt/ihivision/docker_host_exchange
   ihivision
   ```

6. Share any data through the folder 'docker_host_exchange'
   from host: **<your folder>/docker_host_exchange**
   within the container: **/opt/ihivision/docker_host_exchange**

7. Print status of the docker container:
   ```
   docker ps -a
   ```

8. Stop the docker container:
   ```
   docker stop ihivision
   ```

9. Start the docker container:
   ```
   docker start ihivision
   ```

10. Delete the docker container:
    ```
    docker rm ihivision
    ```

11. Delete the docker image:
    ```
    docker rmi ihivision
    ```

12. Add more folder/file mappings to the container.
    For every mapping add the following volume mapping to the docker
    run command:
    ```
    docker run … -v `pwd`/<folder/file on
    host>:/opt/ihivision/<folder/file in container>
    ```
    Note! Mapped volumes, which have been existing before the
    mapping was applied, will become invisible within the container
    afterwards and overlayed by the host volume, so be careful with
    specifying folders/files which existed already in the container.