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Installation of Industrial HiVision in a Docker Container Hendrik Lepple - 2024-04-08 - Industrial HiVision

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" | sh
  /install.sh' && ∖
      rm /install.sh /ihivision.tgz
  CMD []
  ENTRYPOINT ["bash",
```

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

- 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

- 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
- 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.
```