

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 "\n/opt/ihivision\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.

