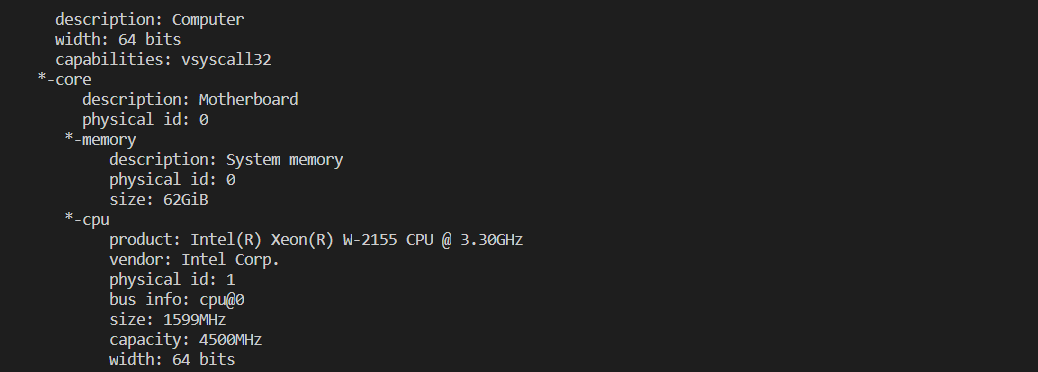
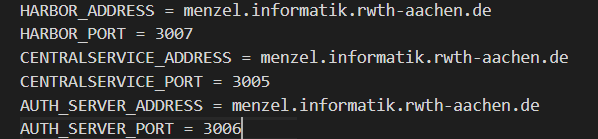
# Deployment Guidance of Station Software

**Requirements:**

* We assume that the **Docker Engine** is pre-installed on the machine. You can find the installation steps [here](https://docs.docker.com/install/). (On the Linux machines with low specs (1 core CPU, 1 GB RAM) it is possible to run Docker, but it will not be able to manage a high number of containers, etc.)   
  **Note**: The minimum requirements for the system specifications is hardly dependent on the algorithms that would be run on the machine and may vary from algorithm to algorithm. 
* There are some [system requirements](https://docs.docker.com/docker-for-windows/install/#:~:text=System%20Requirements) for windows machines:
  + Windows 10 64-bit: Pro, Enterprise, or Education (Build 16299 or later). For Windows 10 Home, see [Install Docker Desktop on Windows Home](https://docs.docker.com/docker-for-windows/install-windows-home/).
  + Hyper-V and Containers Windows features must be enabled.
  + The following hardware prerequisites are required to successfully run Client Hyper-V on Windows 10:
    - 64-bit processor with Second Level Address Translation (SLAT)
    - 4GB system RAM
    - BIOS-level hardware virtualization support must be enabled in the BIOS settings.
* We assume that the machine has **internet access** (At least the harbor registry, the central service and auth server need to be reachable. The addresses and the corresponding ports could be found in the provided .env file).

**Note**: Since the connections from the machine are **one-way**, there is no need to expose any ports of the machine to the internet.

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* The **data** also needs to be accessible from the machine,
  + The data could be provided with [bind mounts](https://docs.docker.com/storage/bind-mounts/) (a file or directory on the *host machine* is mounted into a container – read-only access)
  + Also, the data could be supplied via an endpoint (For example a FHIR server API, <http://bruegel.informatik.rwth-aachen.de:9001/fhir/Patient>). This endpoint and needed credentials would be assigned as the [environment variable](https://docs.docker.com/engine/reference/commandline/run/#set-environment-variables--e---env---env-file)s to the train image by the station’s admin.
* The **.env file** contains the corresponding credentials for each station that will be provided by the PHT team to the station's admin.

## Deploy Station Software

We provide a docker-compose file, which enables single-line deployment.All necessary docker images are downloaded automatically from docker hub.Further,we provide a env file, which contains the connection credentials for our central components.

1. Unzip the package
2. Change directory (cd) and enter the new generated folder.
3. Type docker-compose up to start the deployment process.
4. Go to the browser and type: <YOUR IP>:3030 to enter the Station Software GUI.
5. Register and login. If you successfully logged in, the Station Software was deployed correctly.