

**Gliwice, 26.10.2020**

Silesian University of Technology  
Informatics



**Politechnika  
Śląska**

Microservice orchestration platforms using Kubernetes  
**“Docker images”**

**Authors:**  
Edyta Hernik

## 1. Implementation

Our task was to deploy 5 docker images. To complete the task, first of all we had to install the docker on Ubuntu. To do it all the necessary packages had to be installed first and updated then using the following command the docek could be installed as well:

```
sudo apt update
sudo apt install docker-ce
```

I checked the status of the docker and checked if the docker was installed successfully:

```
sudo systemctl status docker
```

```
edyta@edyta-VirtualBox:~$ sudo systemctl status docker
[sudo] password for edyta:
● docker.service - Docker Application Container Engine
   Loaded: loaded (/lib/systemd/system/docker.service; enabled; vendor prese
   Active: active (running) since Mon 2020-10-26 12:43:00 CET; 22min ago
   TriggeredBy: ● docker.socket
     Docs: https://docs.docker.com
    Main PID: 727 (dockerd)
      Tasks: 8
     Memory: 13.5M
    CGroup: /system.slice/docker.service
            └─727 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/cont>

paź 26 12:42:58 edyta-VirtualBox dockerd[727]: time="2020-10-26T12:42:58.63927>
paź 26 12:42:58 edyta-VirtualBox dockerd[727]: time="2020-10-26T12:42:58.63929>
paź 26 12:42:58 edyta-VirtualBox dockerd[727]: time="2020-10-26T12:42:58.63929>
paź 26 12:42:58 edyta-VirtualBox dockerd[727]: time="2020-10-26T12:42:58.63962>
paź 26 12:42:59 edyta-VirtualBox dockerd[727]: time="2020-10-26T12:42:59.62502>
paź 26 12:42:59 edyta-VirtualBox dockerd[727]: time="2020-10-26T12:42:59.82486>
paź 26 12:43:00 edyta-VirtualBox dockerd[727]: time="2020-10-26T12:43:00.05184>
paź 26 12:43:00 edyta-VirtualBox dockerd[727]: time="2020-10-26T12:43:00.05752>
paź 26 12:43:00 edyta-VirtualBox systemd[1]: Started Docker Application Contai>
paź 26 12:43:00 edyta-VirtualBox dockerd[727]: time="2020-10-26T12:43:00.20678>
lines 1-21/21 (END)
```

As it can be seen on the screen the docker works fine.

Next step was to deploy some images to the docker. This is done by the following command:

```
sudo docker pull <image name>
```

I deployed the following images: *ubuntu*, *node*, *rocket.chat*, *registry* and *hello-world*.

Using the following command I checked if all images are present on my docker:

```
sudo docker images list
```

```
edyta@edyta-VirtualBox:~$ sudo docker image list
```

REPOSITORY	TAG	IMAGE ID	CREATED
ubuntu	latest	d70eaf7277ea	2 days ago
node	latest	ca36fba5ad66	2 days ago
rocket.chat	latest	b989adc274ec	12 days ago
registry	latest	2d4f4b5309b1	4 months ago
hello-world	latest	bf756fb1ae65	9 months ago