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## **Vnímanie neviditeľného [Holographic Eyes]**

Práca s Docker-om (tutoriál, angl.)

**Číslo tímu:** 8

**Názov tímu:** caneless

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**Študijný program:** Inteligentné softvérové systémy

**Predmet:** Tímový projekt

**Akad. rok:** 2018/2019

**Zodpovedná osoba:** Bc. Ľudovít Popelka

# How to dockerize

## Docker & caneless

Build agent uses Docker version **17.06.2-ce**

## Install Docker

Windows Education/Pro

Windows Home (Docker Toolbox)

~~Linux subsystem on Windows~~ is not enough

Linux (commonly Ubuntu)

macOS (2010+ with virtualization)

Docker Toolbox for macOS

## Test installation

```
docker run hello-world
```

## Common issues

- Docker Toolbox can't locate *bash.exe*

Solution: Reinstall Git, use *C:\Program Files* = not *D:\* \*, not *\*Program Files (x86)*

- Docker Toolbox/Docker for Windows fails create VM for the first time

Solution: Make sure Virtualization is enabled in BIOS

- Can't use Docker for Windows

Solution: Make sure Hyper-V is enabled

- Command *docker* not found

Solution: Add Docker to path

- *hello-world* doesn't greet me on Linux

Solution: Make sure you have user permissions to use Docker

## Build with Docker

Navigate to *Dockerfile*'s directory

```
docker build -t my_image_name .
```

```
.. and launch server
```

```
docker run -p 80:80 --rm my_image_name
```

OR simply

```
docker-compose up
```

See [localhost:80](#)

## Common issues

- Server is not up on Docker Toolbox

Solution: Change *localhost* to IP of VM

```
docker-machine ip
```

## Useful commands

See installed version

```
docker version
```

Show all images

```
docker image ls
```

List running containers

```
docker container ls
```

Stop running container

```
docker stop <container id>
```

Authenticate with Docker

```
docker login --username <username> --password <password> <server>
```

Clean-up after *docker-compose up*

```
docker-compose down
```