Homework 5 – Advanced Software Service Engineering (Fall 2017)

Deadline: Nov. 24th, 2017 at 10:59 AM.

Solution code **MUST** be submitted to Moodle[1] as a single *surname_name*_hw5.zip file.

All submissions will be checked for **plagiarism**. Plagiarised solutions will be awarded with an F (0) grade.

Exercise – Write a Dockerfile to build a Docker image that runs the cowthink+ app.

The image shall exploit ubuntu:latest, run all necessary commands to install the required applications and come with a Bash[2] script entrypoint.sh that acts as ENTRYPOINT[3] when starting a container from the image.

The entrypoint.sh script shall be copied into the container and perform:

1. fortune | cowthink when the number of arguments ($#) passed to the script is 0, or
2. cowthink over all arguments passed in to the script ($@).

Submit the Dockerfile, the entrypoint.sh script, along with a brief report (200 words at most) in which you describe them, and you show the result of building the image and running containers from it (testing both 1 and 2).

Learning Outcomes

- ✓ Learn on Docker basic commands.
- ✓ Run Docker containers.
- ✓ Create Docker images using Dockerfiles.

---

[1] https://elearning.di.unipi.it/course/view.php?id=106
[2] https://www.gnu.org/software/bash/manual/bash.html
[3] https://docs.docker.com/engine/reference/builder/#entrypoint