# Homework M7: Templating Tools and Package Management

Main goal is to build further on what was demonstrated during the practice

For the successful completion of the tasks, you will need a simple (one-node or any other combination) cluster as the one used during the practice

## Tasks \*

Try to solve the following set of tasks:

1. Using the files in **task1** folder create a template using the **sed**-based approach. Parametrize the **number of replicas** and the **service port**
2. Using the files in **task2** folder create a template using **kustomize** with two variants – **test** and **production** with difference in the **service port** and **number of replicas**
3. Create a **Helm** chart that spins a **NGINX**-based deployment with **3 replicas** by default. It must mount a default **index.html** (with a **text** and a **picture**) page from a **ConfigMap**. The web server should be exposed via **NodePort** service on port **31000** by default. At least the **text of the default page**, **number of replica**s, and **service port** should be parametrized

*\* As usual, you are not obliged to complete all the tasks but try to tackle as many as possible*

## Proof

Prepare a document that show what you accomplished and how you did it. It can include (not limited to):

1. The commands you used to achieve the above tasks
2. A few pictures showing intermediary steps or results
3. Any configuration files and/or manifests