

Cloud Computing

Summer Term 2017

Tutorial Session 3



Anton Gulenko

Complex and Distributed IT-Systems

anton.gulenko@tu-berlin.de

Organization

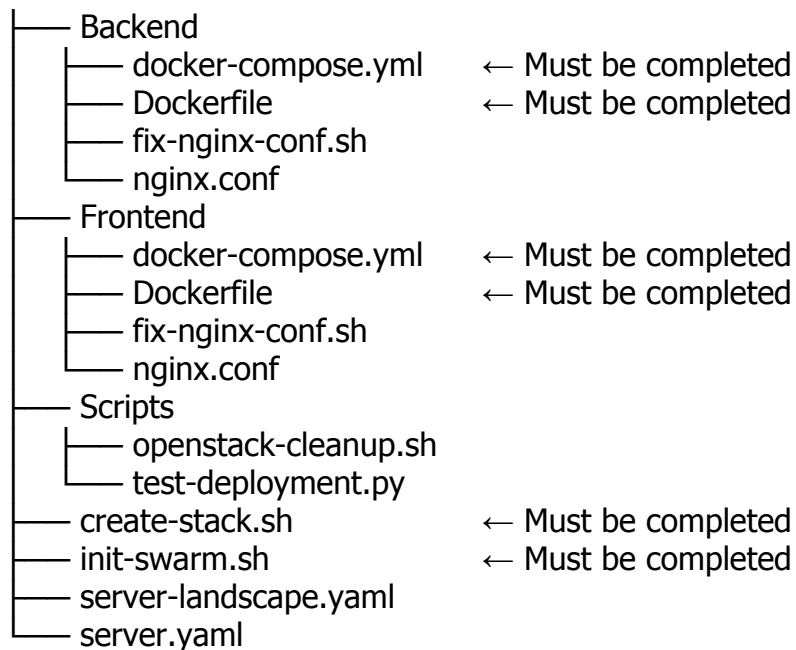
- Last tutorial session before the exam
- An example exam will be uploaded on ISIS
- Grading the assignments will take until the end of the semester
- If you want to change groups for assignment 3: write me a short email

Project Assignment 3

- Due: 16.07.2017 23:59
- Summary:
 - Deploy replicated services in the VMs created by Heat
 - Create and upload Docker containers
 - Use Docker swarm to replicate and manage services
- Submission
 - Through ISIS
 - One single **.zip** file

Project Assignment 3 Submission

- Submission for this assignment: **.zip** file
- Directory and file structure exactly like the provided assignment3-resources.zip file.
- You have to complete parts of the provided files (replace **[[TODO]]**)
- Your solution will mostly be graded by automated scripts.
- Hint:
 - server-landscape.yaml is an extended version of the “solution” for the Heat stack you developed in assignment 2



Docker

- Uses containers: a lightweight form of virtualization
 - Containers share the same kernel, but are not aware of each other
 - Can be used inside VMs to combine the benefits of both virtualization techniques
 - Defines format for containers and tool chain for managing containers, uploading them to container registries for sharing, etc.
 - Docker compose: describes how to run a service based on a container image
 - Docker swarm: runs service stacks distributed on multiple docker hosts
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- nginx: Open-Source HTTP server similar to Apache
 - Used as service-layer in this assignment

Target Deployment

