

## Questions for the written part of the literature seminar

These questions are to be completed in your teams. The articles in student portalen serves as a starting point, but please feel free to follow references in those articles and also to look for relevant literature on your own. At least five references in your answers should be to a scientific paper not provided in the student portal. Your answers should contain references to scientific literature, in a consistent referencing format.

**Q1:** What are the meaning and importance of contextualization and orchestration, and what are currently available tools and services in this area?

**Q2:** How does contemporary cloud computing relate to the digitalization of society and Big Data applications?

**Q3:** Try to, from a technological point of view, relate the following Products/cloud providers, frameworks and tools to each other, both historically and in the technological problems they have addressed. Is there some logical progression in a seemingly fragmented ecosystem?

*OpenStack, Rackspace, Eucalyptus, Amazon EC2, Google App Engine, Cloud Foundry, OpenShift, Mesos, Kubernetes (of course, include more tools and frameworks if you find things that interests you)*

**Q4:** Elasticity is an important concept in cloud computing. Discuss this both from a theoretical basis and from a technological (i.e. what are current ways to achieve this). What is the difference between reactive and proactive autoscaling, and what are some of the current approaches/proposals to achieve it?