

# **Running a CEPH-Cluster on a containerized infrastructure**

**Use case: distributed mySQL-database**

Julius Neudecker  
Bachelor of Science  
julius.neudecker@haw-hamburg.de

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Setting up and operate a storage cluster with high availability is a complex task. Modern paradigmas like containerization and orchestration are a way of abstracting away some complexity. However, running a cluster in a stateless and ephemeral containerized environment poses some problems. In the following paper these problems are identified and scrutinized. The use case will be a mySQL database, which will be stored on a CEPH cluster comprised of docker based daemons.

# **1 Introduction**

## **1.1 CEPH Based storage cluster**

## **1.2 Provisioning**

## **1.3 Containerization**

## **1.4 Databases**

## **1.5 Scope of the problem**

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