



Software Engineering Seminar (SoSe 2016)

# Software Performance Monitoring in Container Clusters

## Description

Software container technology, i.e., docker and rkt, has gain a lot of attention in the past few years. The technology allows software to be deployed instantly with low overhead consuming less computing resources. However, to deploy a set of distributed components in enterprise applications, a container manager, e.g., Kubernetes, is required to coordinate the deployment and operation. This poses a complexity in software performance monitoring because another layer is added to the system. This paper shall investigate the technology that are used to monitor software performance in container clusters.

## References

- [1] cadvisor: Analyzes resource usage and performance characteristics of running containers. <https://github.com/google/cadvisor>.
- [2] Docker. <https://www.docker.com>.
- [3] Heapster: Compute resource usage analysis and monitoring of container clusters. <https://github.com/kubernetes/heapster>.
- [4] Kubernetes. <http://kubernetes.io/>.
- [5] rkt. <https://github.com/coreos/rkt>.

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