Bachelor / Master Thesis – Web Hotel proof of concept

Background
In the Linköping IT Hub we deliver IT services to R&D users around the world. One of the products we deliver is internal web hotel instances. This could be generalized as a PaaS/SaaS cloud using Linux containers, perhaps using Docker or equivalent technologies. This would make the delivery more efficient and make the existing IT infrastructure accessible to the Ericsson engineers in a modern way.

Thesis Description
Evaluate solutions to solve our problem, such as Docker and OpenShift. Compare the solutions regarding resource usage, usability and technical functionality. Identify the solution that will fit our needs best and set up a complete or partial environment in our live network, ready to present to our users to try out!

Qualifications
Linux knowledge required. Knowledge needed of different web and message queue technologies used in web services.

Extent
1 position, scope 30 or 15 HP, by agreement

Preferred starting date
As soon as possible

Keyword
Web hotel, Linux, Configuration Management, Docker, OpenShift, Puppet, MCollective, LXC, Kubernetes, RabbitMQ, ActiveMQ

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