
Background
Mobile networks are used all over the world and are the corner stone for the networked society, where everything shall be connected. To support the vast amount and diversity of data expected in future networks, Ericsson are developing products to drive and support the networked society. The subjects for Master Thesis are defined to investigate and develop algorithms, architecture, tools etc. to support huge increase of speech, data and massive IoT for Radio Access Networks.

Thesis Description
Radio Access networks is evolving to have the possibility to deploy parts of the functionality in the cloud. One possible system architecture when developing for the cloud is to push as much functionality as possible in to the cloud infrastructure and keep pure “business logic” in application specific VMs or containers.

OpenFlow (https://www.opennetworking.org/) is a communications protocol that gives access to the forwarding plane of a network switch or router over the network.

Task:
- Study and evaluate the possibility of doing application aware load balancing to many small VMs with application flow steering in the cloud infrastructure. To investigate the possibility of decomposing the business logic into smaller parts.

The thesis will be concluded with a result presentation for the Ericsson team.

Qualifications
This project aims at students in electrical engineering, computer science, computer engineering or similar.

Extent
1-2 students, 30hp each

Location
Ericsson AB Mjärdevi, Linköping

Preferred Starting Date
Spring 2019

Contact Persons
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