ENCS – 691 K (General Information)

Roch Glitho, PhD
Professor and Ericsson/ENCQOR Research Chair
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General Information
Logistics

Lectures (In-Person)
Time: Thursday, 17h45 – 20h30
Room: MB 3.255
Moodle (Check your Concordia portal)

Lecturer: Roch H. Glitho
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Teaching assistant: Behshid Shayesteh
Topics

Cloud Computing Basics
  Overview
  Technologies on which cloud computing relies (e.g. SOA, Hypervisor virtualization, container virtualization, unikernel, serverless computing)

Cloud Layers
  Infrastructure as a Service (layers, resource management, case studies)
  Platform as a Service

More recent developments and related technologies
  Machine Learning for Cloud Computing
  Edge Computing
  Network Function Virtualization
Evaluation

Evaluation scheme:

- Mid-term: 30 % (Scheduled for week #7 – October 20)
- Final exam 30 % (Scheduled for week #13 – December 1)
- Semester long project: 40% (Report and demos scheduled for Week #14 – December 15)
On the Project

Two options

- Standard project (Proposed by lecturer):
  Specification available on September 15

- Personalized project (Proposed by students)
  1 page proposal
  Submission deadline: October 6
  Note: Thesis supervisor approval required for students in thesis options
Some Examples of Past Personalized Projects

1. Cloud Based Content Delivery Networks with AWS
2. The Hourglass scheme (encryption scheme in the cloud)
3. Automating Application Deployment in the Cloud (Hypervisor level work)
4. Edge Based Phobia Treatment Application
The End