



Introduction to Project

Cloud Computing

Mikael Svahnberg¹

¹Mikael.Svahnberg@bth.se
School of Computing
Blekinge Institute of Technology

May 8, 2015



Goals of the Project

From Course Syllabus:

Kunskap och Förståelse:

- Kunna ingående förklara de grundläggande teknologier som används i cloud-system
- Kunna ingående resonera om privacy och security i cloud-system

Färdighet och förmåga

- Kunna designa och implementera en cloud-applikation
- Kunna driftsätta, testa, och övervaka en cloud-applikation
- Kunna optimera en cloud-applikation med avseende på relevanta kvalitetsegenskaper
- Kunna använda sig av en existerande hypervisor
- Kunna starta virtuella maskiner på en existerande hypervisor
- Kunna genomföra enkel lastbalansering på en existerande hypervisor som körs på ett serverkluster

Värderingsförmåga och förhållningssätt

- Kunna resonera om energianvändningen för en cloud-applikation
- Kunna resonera om den långsiktiga evolutionen av en cloud-applikation



Overview

- Select and briefly describe a Project
- Create a business case
(with particular focus on why it is a good idea to use cloud resources)
- Develop a software architecture
- Develop a plan for your different deployment environments
- Setup provisioning for your application
- [Checkpoint] Present your architecture and your deployment plan
- Develop a test plan
(that at least partially enables automated tests)
- Implement your project
- [Checkpoint] Deploy your project
- [Checkpoint] Write an experience report



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The general idea

- In lab 1 you learn the basic mechanics
- Many challenges will not be visible in a dry lab exercise
- With this project you encounter at least a subset of “real-life” challenges.





The general idea

- This should be fun!
- Therefore, you pick your own project
- We may advice you to complicate matters
– so you also learn what you are expected to.
- Reflections: Take conscious decisions, summarise in a report.
- Keep in mind the “Cloud Investigation” assignment.

