Microservices and DevOps

Scalable Microservices

Exam and the Project Course

Henrik Bærbak Christensen

- From the fagbilag:

  Eksamen
  Mundtligt forsvar og demonstration (20 minutter) af obligatorisk projekt i løbet af kurset. Godkendelse af et mindre antal milestones på det obligatoriske projekt. Intern prøve, 7-trins-skala.

- Procedure
  – You have solved three mandatory exercises (= milestones)
  – I and censor will read report, determine approximate grade
  – Before exam I will publish a defense demo assignment
    - Bjarne: Describe and demo the Circuitbreaker on PlayerService
    - Birte: Describe and demo your sharding system for CaveService
    - Børge: Describe and demo your REST API for MessageService
  – Exam: 20 min (Zoom/shared screen) Demo + Slideware
  – You will be given a final grade based upon report+defense

AARHUS UNIVERSITET

- Questions ?

Internal Evaluation

To Appear Later

Evaluation

- Just as for the first course, your feedback is important
  - I learn a lot from your comments…

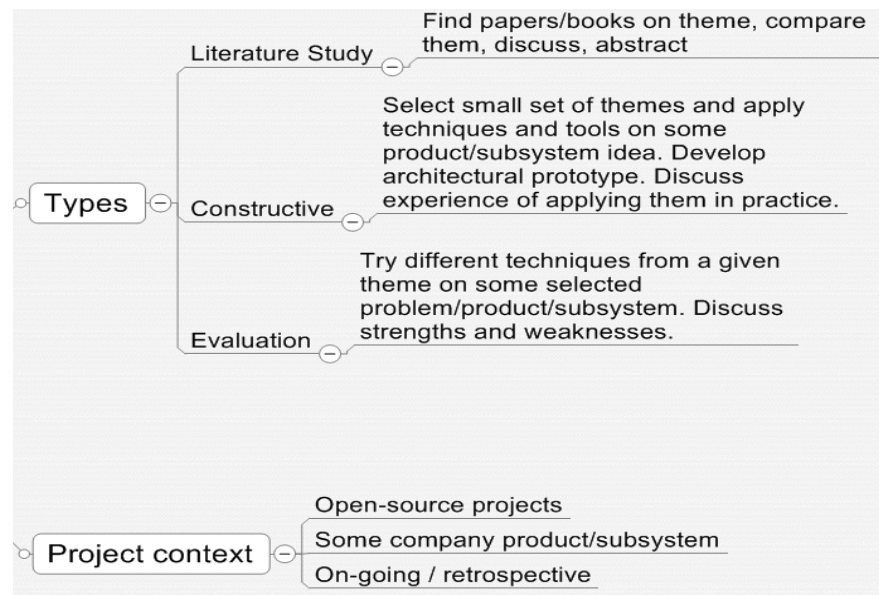- So I will some time near/after the exam post a similar anonymous evaluation ☺

The Project Course
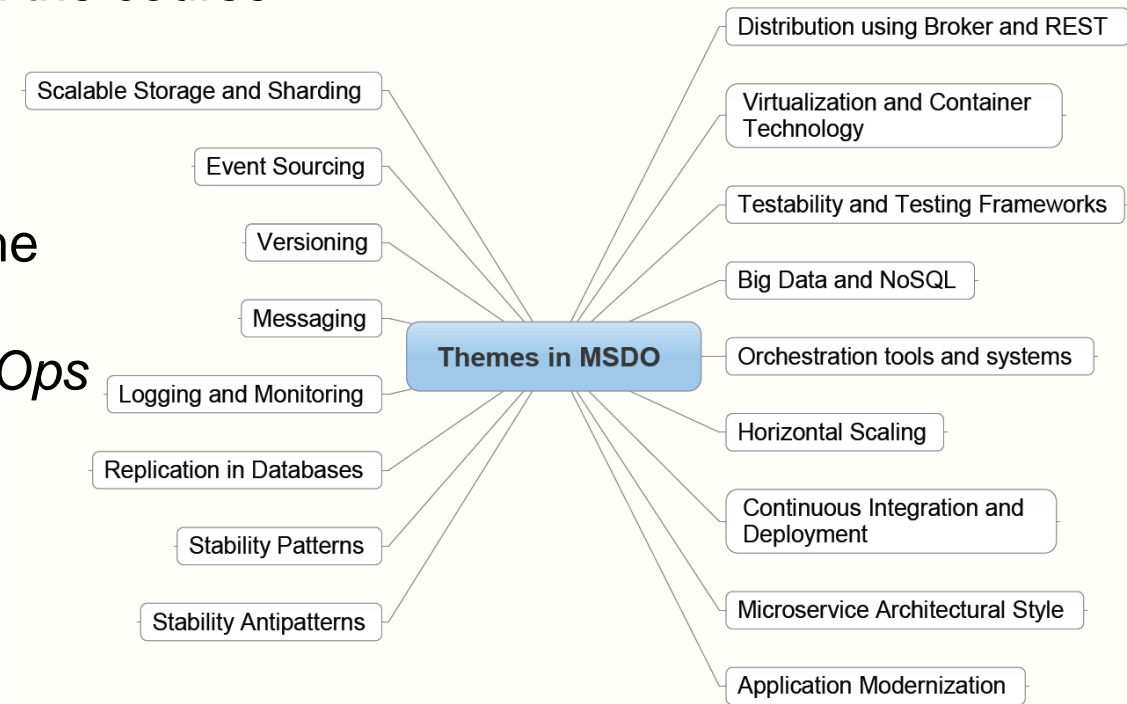
Next Year…

- Project course
  - Three seminars with no additional curriculum
    - Peer review sessions
    - Invited talk (Hope is Stibo and Uber)
  - Group work on a project
    - Typical a constructive project

- Earlier reports
  - https://baerbak.cs.au.dk/c/ProjectReports/

  - *I get dig out non-confidential reports for you*

Think about a Project

- To have a head start
  - Pick a theme from the course

- But…
  - Any topic within the overall topic of *Microservice/DevOps* is possible
  - I will 'go/no-go' all proposals

Scalable Storage and Sharding

Event Sourcing

Versioning

Messaging

Logging and Monitoring

Replication in Databases

Stability Patterns

Stability Antipatterns

Themes in MSDO

Distribution using Broker and REST

Virtualization and Container Technology

Testability and Testing Frameworks

Big Data and NoSQL

Orchestration tools and systems

Horizontal Scaling

Continuous Integration and Deployment

Microservice Architectural Style

Application Modernization

Keep up the good work…