

# PA200 - introduction

Kamil Malinka

# Aim of the PA200...

“...is to combine technical, business and research state-of-the-art view on cloud systems.”

- 3 parties involved:
  - IBM
    - Mohamed Wassim Issaoui, Mwassim.issaoui@cz.ibm.com
    - Ing. Petr Vlach, MBA, petr.vlach@cz.ibm.com
  - RedHat
    - Petr Blaho, pblaho@redhat.com
    - Ing. Milan Brož, mbroz@redhat.com
  - MU
    - Mgr. Aleš Křenek, Ph.D., krenek@ics.muni.cz
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# Implementation

- 11 lectures
  - 2 projects (1<sup>st</sup> project 20 points, 2<sup>nd</sup> project 30 points)
  - Final exam at the end of term (50 points)
  - 100 points together, 60 to pass
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- All materials in IS
  - Contact email: [pa200@ics.muni.cz](mailto:pa200@ics.muni.cz) or directly to lecturers
  - Coordinator: Kamil Malinka, [malinka@ics.muni.cz](mailto:malinka@ics.muni.cz)

# Structure of lectures

**Detailed syllabus with lecture description, learning outcomes and agenda already available in IS.**

1. Overview of cloud computing (IBM)
2. Cloud Service Delivery Models (IBM)
3. Virtualization technologies (RH)
4. Cloud Deployment Scenario (IBM)
5. Transition & Migration to cloud computing environment (IBM) -> PROJECT1 (cloud migration)
6. Cloud infrastructure – data repositories (RH)
7. Cloud providers (RH) + deadline for project1
8. Scientific clouds - distributed computing and data storage infrastructure (MU) -> PROJECT2 (provisioning)
9. Cloud Security - Security in Cloud Computing (IBM)
10. OpenStack - technical insight (RH) + deadline for project2
11. Scientific clouds – cloud standards (MUNI)
12. Final Exam