Mobile Cloud Computing

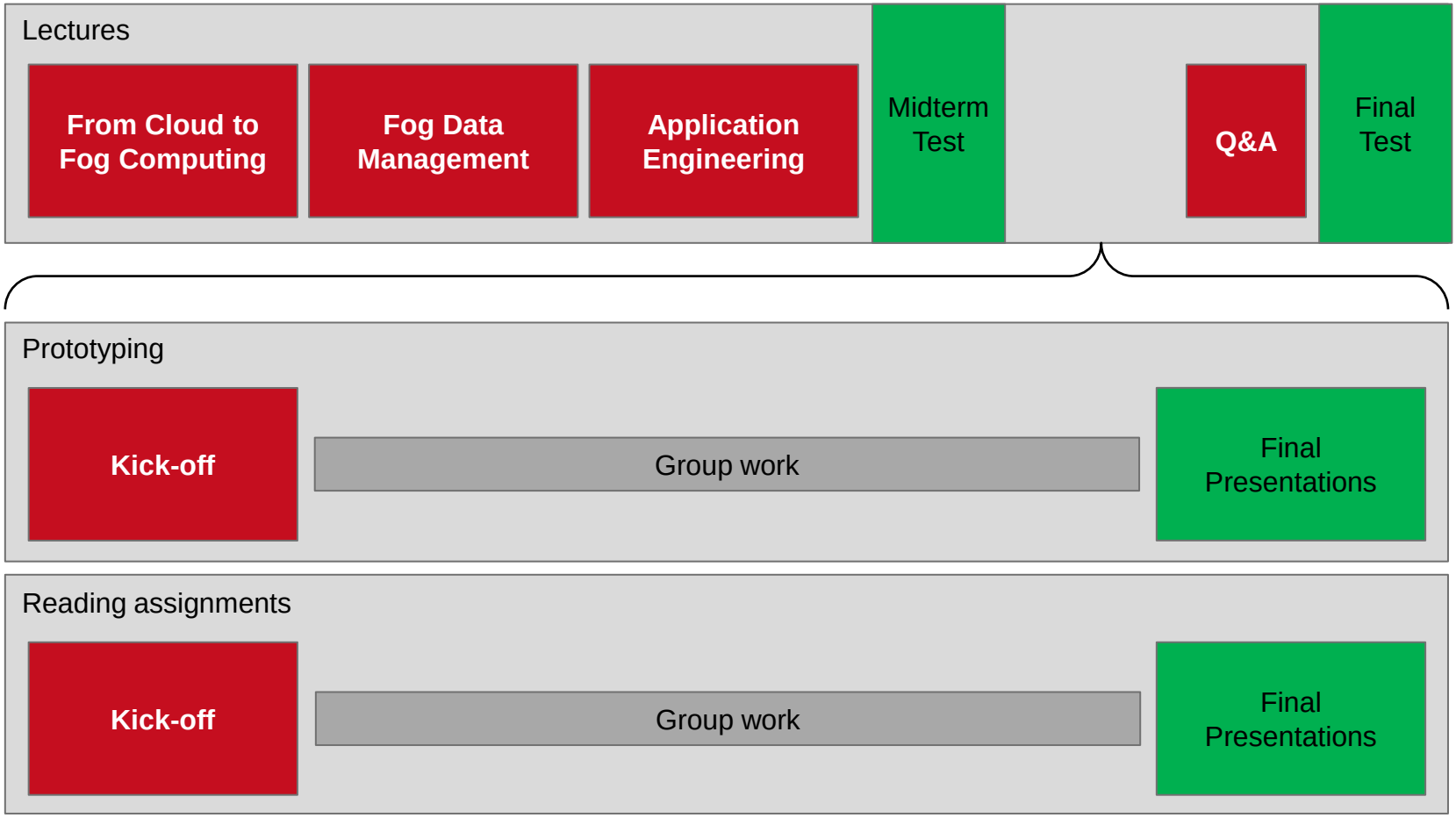
EINSTEIN CENTER Digital Future

Technische Universität Berlin

Fog Computing

Bermbach | Part 4: Q&A

Agenda


Lectures
From Cloud to Fog Computing
Fog Data Management
Application Engineering
Midterm Test
Q&A
Final Test
Prototyping
Kick-off
Group work
Final Presentations
Reading assignments
Kick-off
Group work
Final Presentations

FC in a nutshell

What is fog computing, how did it evolve from the cloud, what are similarities and what are the key differences conceptually?

How do we handle fog data management, what are specific concerns?

How do we build fog applications, what are particularities in terms of application design (e.g., architecture, communication, fault-tolerance), how does the CI/CD process differ from the cloud?

How can we reliably communicate between cloud and edge in the presence of failures?

How ready is the state-of-the-art in systems for fog environments, which parts need to be rethought?

Exam hints

1 minute = 1 point (but you get an extra 10 minutes for writing and an additional 10 minutes reading time before the start of the exam)
=> Use this as an estimate for the depth of the response we expect from you

Read the instructions carefully

Don‘t get stuck on an assignment but continue to the next one and return later if time is left

Be prepared to write quickly (but legibly ☺)

Rules:

- Be on time
- No red, no green, no pencil, no erasable pens
- No aiding materials etc.

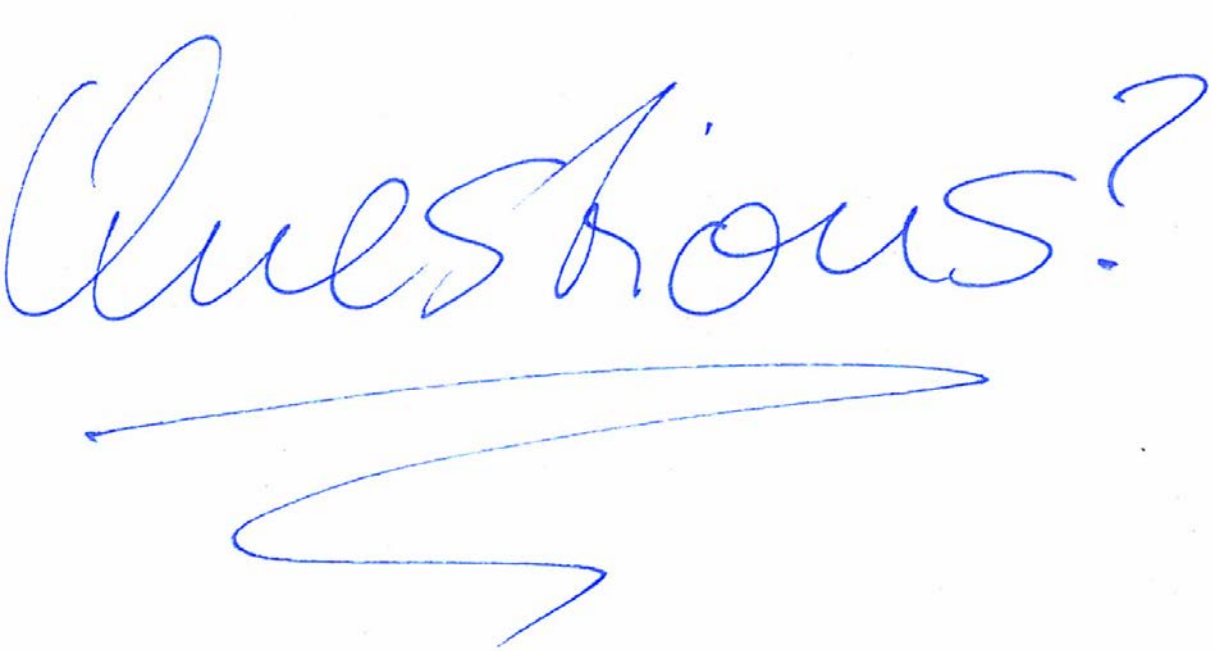
Material from reading assignments

Have **in-depth knowledge** on the papers by Lin et al., Baker et al., Burrows et al., Confais et al., Schermann et al., Sigelmann et al.

Have a **good understanding** of the paradigms discussed in the papers by Alexandrov et al., Baldini et al.

Have a **rough understanding** of the remaining papers

(all **under the aspect of applicability to fog computing**, i.e., some aspects of the papers are completely irrelevant – e.g., the discussion of composition rules in Baldini et al.)


Questions?