



**OST**

Eastern Switzerland  
University of Applied Sciences

# Distributed Systems (DSy)

**Admin**

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18.04.2023

| Nr | Date       | Lecture*                                                                                                    | Lecturer |
|----|------------|-------------------------------------------------------------------------------------------------------------|----------|
| 01 | 21.02.2023 | Admin, Introduction / Motivation                                                                            | Bocek    |
| 02 | 28.02.2023 | Introduction / Categorization                                                                               | Bocek    |
| 03 | 06.03.2023 | Monorepos / Polyrepos, Protocols 1                                                                          | Bocek    |
| -  | 14.03.2023 | -                                                                                                           | -        |
| 04 | 21.03.2023 | HTTP/3 practical examples, Protocols 2                                                                      | Bocek    |
| 05 | 28.03.2023 | Authentication, Web Architectures                                                                           | Bocek    |
| 06 | 04.04.2023 | Load Balancing                                                                                              | Bocek    |
| -  | 11.04.2023 | -                                                                                                           | -        |
| 07 | 18.04.2023 | Containers and Vms                                                                                          | Bocek    |
| 08 | 25.04.2023 | Deployment (Docker Swarm, Kubernetes)                                                                       | Bocek    |
| 09 | 02.05.2023 | Application Protocols and RPC, Distributed Applications: Tor, BitTorrent, Mastodon, Classic Consensus, CRDT | Bocek    |
| 10 | 09.05.2023 | Blockchain, Bitcoin                                                                                         | Bocek    |
| 11 | 16.05.2023 | Exam preparation, Ethereum Introduction, Smart Contracts                                                    | Bocek    |
| 12 | 23.05.2023 | Challenge Task Presentations I                                                                              | you      |
| 13 | 30.05.2023 | Challenge Task Presentations II                                                                             | you      |
| 14 | 06.06.2023 | Challenge Task Award Winner Announcement, Q&A                                                               | Bocek    |

# Next Lecture

- Timing
  - 680min in 7 lectures
  - $7 \times 90 = 630 \rightarrow 50$  min overtime
  - Lecture 8, 30min (deployment) + 10min news
- Hand-in 1: **17.04.2023, 23:59 (CET)**
  - initial version of your project
  - All handed-in, some invited me as “guest”, please invite me as a developer
- Exercises on 9.5 only from 10-12. Instead talk: “From digital crimes to court in the UK”
  - From 13:00 – 17:00 – 5.002
  - You are all invited to join!
- 13:10 - 14:50
  - Support using relevant real-world examples this session will explore **digital crimes**, from the types of digital devices in use today, their importance in a crime scene and the evidence they could contain relevant data to an investigation. Techniques associated with gathering, preserving and presenting digital evidence from digital devices will also be discussed, highlighting the different approaches that need to be applied to different devices, e.g. a module, **a network router or a smart home device e.g. Amazon Alexa**. This presentation is open to all with an interest in digital investigations.
- 15:10 - 16:50
  - This is a **hands-on practical examination** of two mobile and a Windows device using the latest **industry-standard digital forensic software**. You will explore the **data** that was **recovered** from an **Android** and **Apple** mobile device to **search and identify the relevant data** that could be of evidential value to an investigation, you will explore areas such as the call logs, Internet browsing history, User Account information and other relevant areas. You will undertake the same approach to the Windows device, exploring, identifying and documenting relevant areas of data pertinent to an investigation such as the Windows Registry, Most Recently Used (MRU's) lists and of course Internet browsing history.