Organizational Details

194.144 Privacy-Enhancing Technologies

Dr. Markus Donko-Huber

Hello

PETS @ TU Vienna

- offered since 2015 at TU Vienna
- Who is behind PETS?

PETS Course Basics

- German / English
- “Vorlesung” vs (online) discussion
- 5 assignments (labs)
- Exam (Multiple-Choice onsite)

6 ECTS starting from WS2023

Starting with this year: self-study material

TUWEL Online Quizzes

- Highly recommended and not mandatory
- “Self-study Quizzes” will be part of the exam question pool (5%)

Hello from Lecturers

Markus Donko-Huber (MDH)

`whoami`[1]

`markus.donko.huber@tuwien.ac.at`

- *open source* dev/sec/ops
- 10 years+ research on privacy & security
- Information Security Engineer @runtastic
- Information Security Architect @ÖBB

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Wilfried Mayer (WM)

wilfried.mayer@tuwien.ac.at

- Research on “Measuring Privacy-Enhancing Technologies”
- Privacy enthusiast
- Transition to industry

Martin Schmiedecker (MS)

martin.schmiedecker@tuwien.ac.at

- automotive security by day
- online privacy by night
- digital forensics in between

PETS Key Facts

Grading

100 points in total:

- 50 pt assignments ($>$ 25 to pass)
- 50 pt written exam ($>$ 25 to pass)

Grades:

- 50 – 64 pt . . . 4 (Genügend)
- 65 – 79 pt . . . 3 (Befriedigend)
- 80 – 91 pt . . . 2 (Gut)
- 92 – 100 pt . . . 1 (Sehr Gut)

Tentative Lecture Dates I

01 Introduction (MDH)

Do. 05.10.23 17:00

02 Anonymity (MDH)

Do. 12.10.23 17:00

03 Censorship (WM)

Do. 19.10.23 17:00

04 Messaging (WM)

Do. 09.11.23 17:00

Tentative Lecture Dates II

05 TLS (WM)

Do. 16.11.23 17:00

06 Tor (MS)

Do. 27.10.22 17:00

07 Web Privacy (MDH)

Do. 30.11.23 17:00

08 VPNs (MS)

Do. 07.12.23 17:00

EXAM

tentative 11.01.2024 + 3 additional dates

Challenges

Lab 1 (05 pts) 19.10.2023 - 01.11.2023
Lab 2 (10 pts) 02.11.2023 - 15.11.2023
Lab 3 (15 pts) 16.11.2023 - 29.11.2023
Lab 4 (10 pts) 30.11.2023 - 13.12.2023
Lab 5 (10 pts) 14.12.2023 - 27.12.2023

- Separate credentials distributed via TUWEL
- **Get support in the TUWEL student forum**
- Do not spoiler or copy (automated checks)!
- Basic GNU/Linux, Python skills helpful

Introduction: Self-Study Material

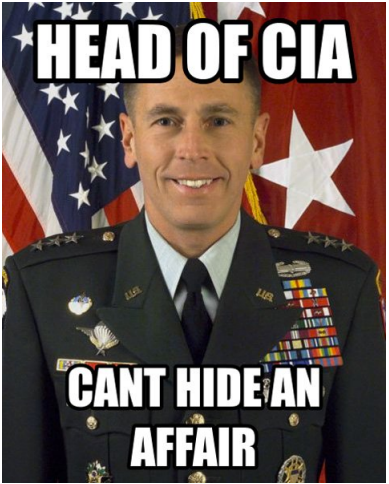
- Available from 20:00 today on TUWEL
- **TUWEL Online Quiz**: Mo 09.10.2023 - Mi 11.10.2023
- **3 multiple-choice questions, 5 minutes time**
- (Quizzes are voluntary exam preparation)

Before we start

This course is about:

- backgrounds, foundations
- protocols and implementations
- tools, tools, tools

We expect at least “Introduction to Security”-level (crypto basics)



*E-mail trick by Petraeus and Broadwell