

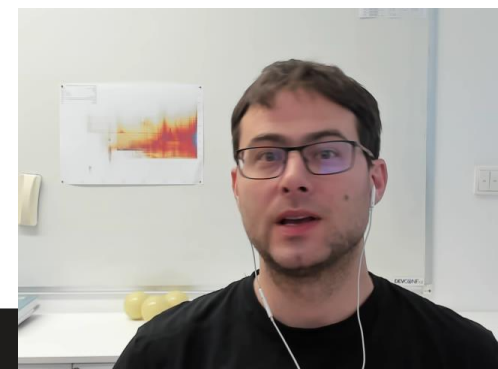
PV204 Security technologies



Cryptocurrencies I. - Bitcoin and Lightning network basics

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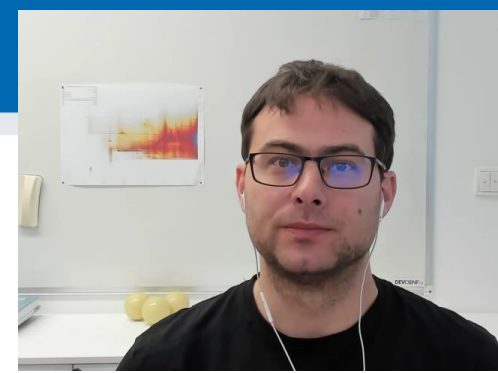
Centre for Research on Cryptography and Security, Masaryk University



Three stages of Lecture and Seminar next week

- [before 15.3. 17:00] Preparation before Monday call
 - Watch videos, read slides
- [15.3. 17:00] Monday Q&A
 - Write your questions to [slido.com](https://www.slido.com) #pv204_2021 (as usually)
- [19.3.] Seminar
 - Team discussions
 - Working with bitcoin-cli
 - Bitcoin operations on-chain and via Lightning transactions



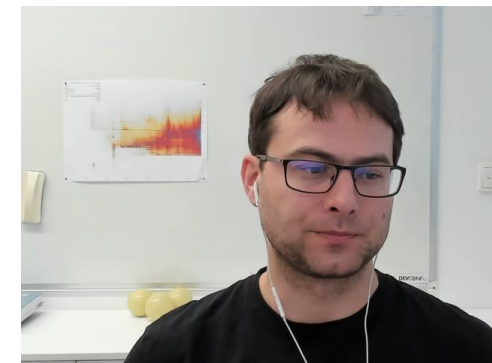


Preparation: Videos for Q&A

- Mandatory part
 - Watch ‘*But how does bitcoin actually work?*’ by 3Blue1Brown (26min)
 - <https://www.youtube.com/watch?v=bBC-nXj3Ng4>
 - ‘What is the Lightning Network?’ by 99Bitcoins (7 minutes)
 - <https://www.youtube.com/watch?v=pBh4DcM-0pg>
 - Read slides Hello Bitcoin (including notes under every slide)
 - From <https://www.hellobitco.in/>, copy of slides in IS
- Optional:
 - Watch ‘A Technical Introduction to The Lightning Network’ by A. Antonopoulos (43min)
 - https://www.youtube.com/watch?v=E1n3sKKPD_k

Further reading

- Mastering Bitcoin (Andreas M. Antonopoulos and others)
 - <https://github.com/bitcoinbook/bitcoinbook>
- List of interesting resources
 - <https://blockonomi.com/bitcoin-educational-resources/>





P PetrS

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Is my password brute-force-able if consists of 9 printable characters?

- **Place/upvote questions in slido while listening to lecture video**
- **We will together discuss these during every week lecture Q&A (every Monday, 17-18:00)**

Join at
slido.com
#pv204_2021

