

# **Zoom** and security

New Time Music 2.0, Miracle of Sound Conference (online), June 4<sup>th</sup> 2020 Mika Arvola, System specialist, Turku University of Applied Sciences

#### Mika's background



- In TUAS since 2005
- International RDI-projects related to videoconferences in different fields from 2006
- Videoconference (H.323 / SIP) administrator in TUAS from 2010
- Zoom administrator in TUAS from 2018/2019
- Part of internal "AV-group" which is planning different solutions for meeting rooms etc.
- Shareholder and consultant in one company which is developing own videoconference software
- Before 2005, working in music industry as a sound and light technic, deejay and recording artist
- Technology freak since 1985
- Electronic music enthuasist





#### Some headlines

I joined someone else's zoom class. Message me zoom codes & schedules!! Jennifer Flore

Dayton organization the latest to get Zoom 'bombed' with racist slurs, hate images

## Pornographic 'Zoombombing' interrupts Wallingford Town Council meeting



'Zoom-Bombing' Hijacks Online Class Meetings In Massachusetts, FBI Warns







#### Reasons behind these headlines



• In today's "Ask Eric Anything" webinar, Zoom founder and CEO Eric S. Yuan provided more progress updates on our 90-day security plan, including exciting announcements about Zoom 5.0 and surpassing 300 million daily Zoom meeting participants.

https://blog.zoom.us/wordpress/2020/04/22/90-day-security-plan-progress-report-april-22/

- To put this growth in context, as of the end of December 2019 was approximately 10 million <a href="https://blog.zoom.us/wordpress/2020/04/01/a-message-to-our-users/">https://blog.zoom.us/wordpress/2020/04/01/a-message-to-our-users/</a>
- Zoom has exploded in popularity as people are working remotely, so there are also millions of users who haven't used videoconferences earlier. Links were shared publicly etc., there are meetings instead of webinars etc. (same rights vs. restricted rights)
- More users, more popularity, more "delicious" headlines
- There was some security issues (old ones also in news), but all software is having security fixes from time to time

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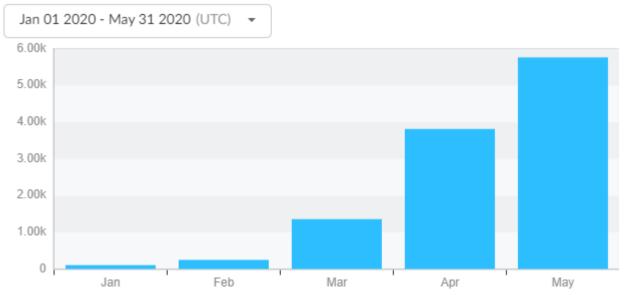
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#### Usage statistics, real life example

#### Example from TUAS, Zoom usage in 01-05/2020:



<sup>\*)</sup> Zoom was not used widely in TUAS at the beginning of 2020 (more like internal testing), we planned to start using it more at Q1/2020



Jun 3, 2020 09:15	09:26	10:18	
Jun 3, 2020 09:01	10:59		3
Jun 3, 2020 08:52	11:28	01:57:57	5
Jun 3, 2020 08:50		02:35:45	24
Jun 3, 2020 08:49	11:06	02:15:32	179
	09:50	01:00:57	3
Jun 3, 2020 08:45	09:15	30:07	
Jun 3, 2020 08:39	13:13	04:34:15	35
Jun 3, 2020 08:36	11:07	02:30:55	17
Jun 3, 2020 08:32	08:47		51
Jun 3, 2020 08:08		15:20	2
Jun 3, 2020 07:42	15:23	07:14:46	44
	08:51	01:08:53	25
Jun 3, 2020 07:40	07:41	00:43	3
1 - 0 -0000 00 44	00.05	04.44.57	3

First 1.5 hours of Jun 3th incl. duration and participants

#### Balancing between "secure" and "unsecure"



Zoom is as "secure" or "unsecure" as most of the other videoconference softwares are.

#### Easy to join

- "just click link"
- no hassle before meeting
- more time for meeting

Less "secure"



Hard to join

- registration
- user ID + PW
- login with PIN
- open meeting

. . .

More "secure"

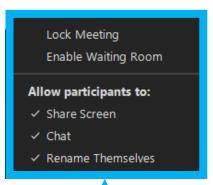
## Tips for daily use, setting up a meeting

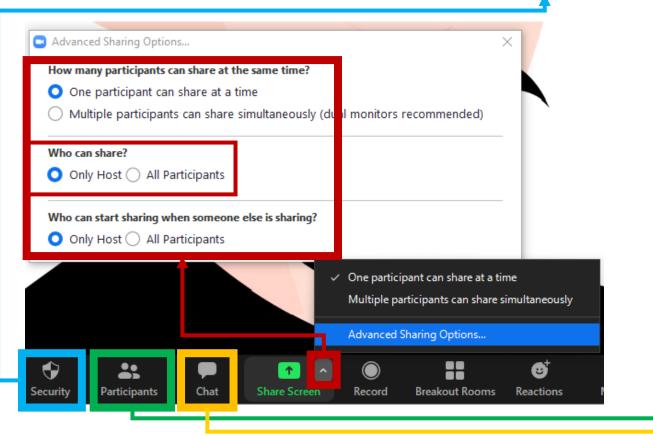


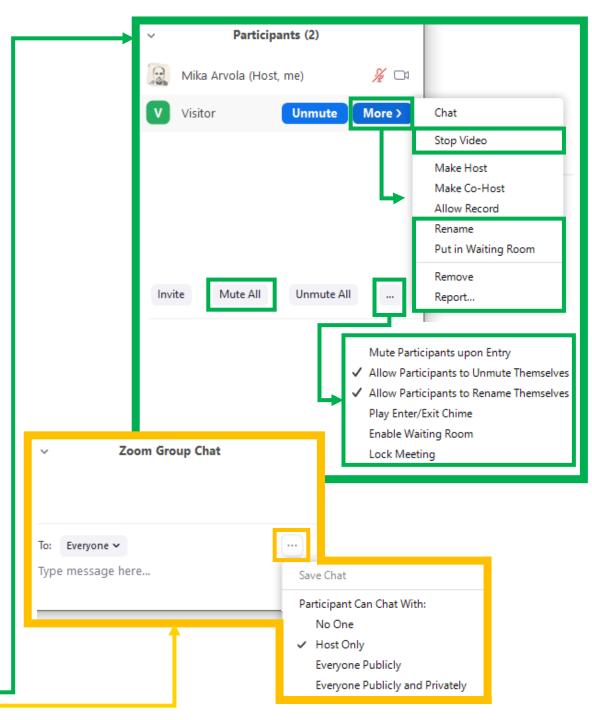
- Don't use your PMI (personal meeting ID) unless you know why and when you should use it. Instead of PMI, generate new meeting ID for each meeting. Use calendar to manage upcoming meeting ID's, for example Outlook (+ Zoom plugin) (backup is https://zoom.us/meeting)
- Do not publicly share your meeting ID and/or passwords. Earlier screenshots etc. were also containing ID's, newer versions are masking these.
- Meetings are not designed for large-scale or public events where you post the invite on the internet. Instead, use Zoom Webinars (depends your license).
- Keep Zoom default security features on waiting rooms, passwords, and restricted screen sharing.
- Password protection? Learn how to use it, it's maybe coming mandatory for On-Premise installations too.
   Registration? Nah, too much hassle.
- Take your time and have a look in your default settings too, <a href="https://zoom.us/profile/setting">https://zoom.us/profile/setting</a>

## Tips for daily use, in a meeting

Get to know host privacy and security features like Stop Video, Mute All, Remove Participants, Put in Waiting Room and Lock Meeting.



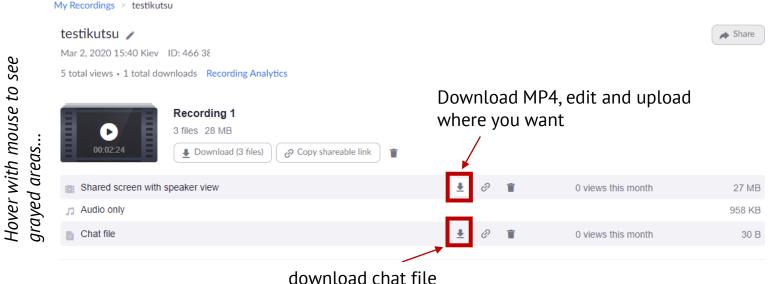




### Tips for sharing recordings, external service



https://zoom.us/recording, select you recorded meeting



## Tips for sharing recordings, from Zoom



a82yhK NL9jvN6ScsShCfu3o1o7WYKN6IXcM8

Share this cloud recording Share this recording Publicly <u>https://zoom.us/recording</u>, select your recorded meeting Only authenticated users can view Add expiry date to the link My Recordings > testikutsu Viewers can download testikutsu 🗸 Share On-demand(Registration Required) @ Mar 2, 2020 15:40 Kiev ID: 466 38 5 total views • 1 total downloads Recording Analytics Password protection Recording Link Information Recording 1 Display detailed information 3 files 28 MB Copy sharing information to clipboard ♣ Download (3 files) Copy shareable link Done Shared screen with speaker view 0 views this month 27 MB Audio only 958 KB Chat file 0 views this month 30 B Topic: testikutsu delete chat if needed (permanently) if you need to trim, Date: Mar 2, 2020 15:40 Kiev click video icon, Meeting Recording: then scissors https://zoom.us/rec/share/vtEvIpfZ92NOcs wsVDAAngX6

## You're welcome.

Questions or feedback, contact mika.arvola@turkuamk.fi

