

CTF Contests: Hands-On Experience of the IT Security Culture – UE 02: Communication

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Types of Communication

- Announcements from CTF organizers
- Communication between organizers and teams during the event
- Communication within a team

- Event website
- Twitter
- CTFtime
- Telegram
- Discord
- ...

- Internet Relay Chat (IRC)
 - Created in 1988, but still in use
- Discord
 - Becoming more and more popular among the CTF community
- Slack
- ...

Platforms for Team Communication

- Discord
- Mattermost
- Slack
- Rocket.Chat
- Telegram
- ...

Exchanging Files Within the Team

- For smaller files: Every tool from the previous slide
- Network File System (NFS)
- Server Message Block (SMB) / Samba
- File Transfer Protocol (FTP)
- Git / Subversion
 - Pro: Version control
 - Con: Only useful if you adjust your workflow to the tool
- sshfs
 - Pro: Individual access can be automated nicely
 - Con: Proved to be rather unstable

- A large number of tasks and participants requires some management
- Project management tools are too complex under time pressure
- Alternative: Tasks can be tracked in a shared online sheet (e.g., OnlyOffice, Google Drive)
- But: Only useful if maintained by **everyone!**

Team Organization Requirements

- Access control
- Useful structure with minimal overhead
- Local and remote access
- Minimal dependence on third-party services

- For the upcoming PlaidCTF:
 - Team communication: Discord + fallback via IRC
 - File sharing: NFS + SMB / Samba + Git
 - High-level team management: Shared OnlyOffice sheet
- Setup might change for future events

Exercises



- <https://ctftime.org/task/15631>
- PlaidCTF 2021
- Web, 240 points

hypercomputer 1

- <https://ctftime.org/task/379>
- PlaidCTF 2013
- Reversing, 100 points

- <https://ctftime.org/task/8234>
- PlaidCTF 2019
- Misc, 10 points

Thank you!

<https://security.inso.tuwien.ac.at/ctf-2022s/>

