

# revfs - the reverse sshfs

A side project by Stefan Schindler @dns2utf8

Code: <https://gitlab.com/dns2utf8/revfs/>

# About me

**Maintainer of threadpool crate (OSS on Github)**

**Speaker & on many platforms as @dns2utf8**

**Organizer of RustFest**

**Looking for a challenge**

# Project goals

- **Expose one single folder to a remote system**
- **Maintain data integrity for mobile users**

# Technical next steps

- **establish ssh connection with**
  - libssh2
  - system ssh CLI
- **copy over current binary on the fly (ensure binary compatibility)**
- **export local file system**
  - with inodes
  - with original uid / gid
  - on the fly translate uid / gid

# Future goals

- **add mosh like resume**
  - with ssh reconnect
  - with direct AES encrypted channel UDP
  - or any other mechanism
- **add remote disk cache**
  - encrypted disk cache

# Current design

- **Rust as the source language**
- **Two binaries**
  - **revfs\_exporter**: The program you use to initiate the mount.
  - **revfs\_mounter**: This program you should use the revfs\_exporter to initiate the export.
- **Interactive mode**
- **Soft timeout on server**

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Contributions welcome!