

Design and Implementation of an Alternative to SSH

Meeting Minutes

1 Attendees

Present: Stephan Neuhaus, Raphael Emberger

Absent: Kevin Schwarz(*illness*)

2 Initiation

The meeting took place on the *Friday, 5th of April 2019, 13:00* in *ZL0.13, Lagerstrasse 45, Zürich*. Raphael Emberger was responsible for the minutes.

3 Points of discussion

3.1 Process forking unsuccessful

Attempts on forking a sub-process were unsuccessful. The reason for this was that the standard library of Go doesn't allow such mechanics, as Go was designed with go-routines in mind instead.

Solution A quick test with `cgo` yielded a viable solution to the problem: Using the C-routine `fork()` a fork was successful.

3.2 Shell instantiating and forwarding

Attempts in forwarding the client connection to a server-side shell's `stdin` and its `stdout` and `stderr` to the connection of the client were unsuccessful.

Solution One quick tests showed that hooking up the `std*` pipes to a local shell process with Go worked just fine. Therefore it was deemed feasible to transfer the entire interface to the client.

3.3 Participation of Mr. Schwarz

Up until this date, the participation of Mr Schwarz was remarkable little in terms of writing on the code base of the project. The present parties agreed on this matter.

Solution It was decided to give Mr Schwarz a choice of action: Either he starts to participate heavily in the project from now on or he opts out of the project entirely.

4 Old Business

- **Login attempts in Linux fail:** This problem was deemed lower priority, as Login works on the WSL and can still be dealt with in later stages of the project.

Next Meeting

Friday, 5th of April 2019, 13:00 in *ZL0.13, Lagerstrasse 45, Zürich*