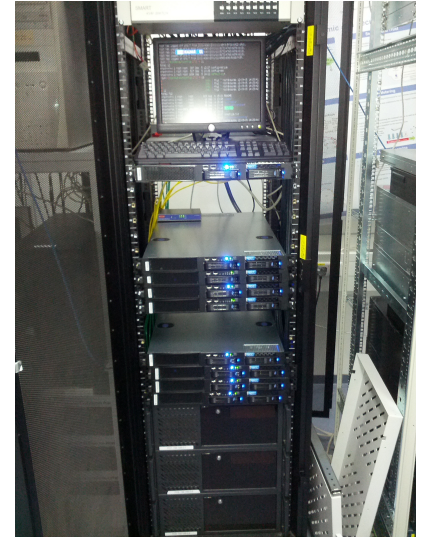TUM

HiWi

Reproducible High-Speed Network Performance Testing

Motivation

We operate a testbed to measure the performance of network nodes since 2012. Since then we introduced a (mostly) automated workflow to document our experiments and make them reproducible. We are currently improving our Python-based testing workflow to make it easier to run and reiterate measurements.

Your Task

Our open tasks include:

- Improve our Mininet-style testing workflow (http://mininet.org/)
- Improve our concept of experiment loops to iterate tested parameters (e.g. packet size)
- Improve measurement result collection and storage

In general, we require you to document your work in our project wiki for our testbed users and help us operate the networking testbed.

Prerequisites

- Experience with Linux networking and Python
- Problem-solving thinking and ability to work on your own

Contact

Please ask for a more detailed work description.

Florian Wohlfart   wohlfart@in.tum.de

https://net.in.tum.de/~wohlfart