Research Topics at I8

Dominik Scholz, M. Sc.

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Chair of Network Architectures and Services
Department of Informatics
Technical University of Munich

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Me

- Dominik Scholz
- Research associate
- www.net.in.tum.de/members/scholzd/

Research interests

- Software packet processing
- Network device performance measurements
- Internet-wide scanning, measurements and analysis

We have interesting theses proposals for you!

TUM

Motivation

- TCP SYN flooding is effective DoS
- SYN proxies used to protect (e.g. with SYN cookies)
- But: often times break/influence the connection
- Not well researched

Your tasks:

- Research existing SYN proxy implementations
- Evaluate how they impact connections
- Conduct periodic Internet-wide scans
- Detect and analyze deployments in real-time

http://www.net.in.tum.de/fileadmin/bibtex/publications/theses/scholz_syn_proxy_scanning.pdf

ΠΓΠ

Yes, you can scan the Internet!

Where to find more interesting theses topics:

- www.net.in.tum.de/theses
- Topics presented next week: Empirical Large-Scale Security Evaluation