Themenvorschläge Projekt

1. Are there chain-breakers in the DNSSEC? Implement full chain of trust and run a statistical analysis on where chains break
2. How many DANE records are in use as compared to the DNS/ACME challenges? Do these DNS-data coincide with CT-log entries?
3. How much is DoH used? – compare with data from 2019
4. Is my name in cache? DNS cache snooping for a relevant selection of names and servers
5. An analysis of typosquatting using CT-logs
6. How is the distribution of pre-certs per (leading) CA across CT log servers today?
7. Which SSL/TLS-Version is in use? / Which TLS Ciphers are in use? Scan and analyse Top-List using sslyze
8. Collect TLS Certificates and trace them back to the root certificate. Which intermediate and root CAs are used most? What are the lifetimes in the various certificate categories?
9. Scanning the scanners: Try to identify scanners and trace back tools or campaigns.
10. How much QUIC is in use and by whom? Analyse flow traffic and identify QUIC-hubs.
11. Data versus Control plane: Do packets travel in line with the BGP topology?
12. BGP Beacon travel time: Follow the RIPE Beacons
13. Which AI algorithm suggests the most successful IPv6 targets? Start from the TUM IPv6 hitlists …
14.

All presentations should include

- A clearly stated measurement question
- A comprehensive description of the measurement method – ready for reproduction
- Answers manifested by carefully prepared cool graphs