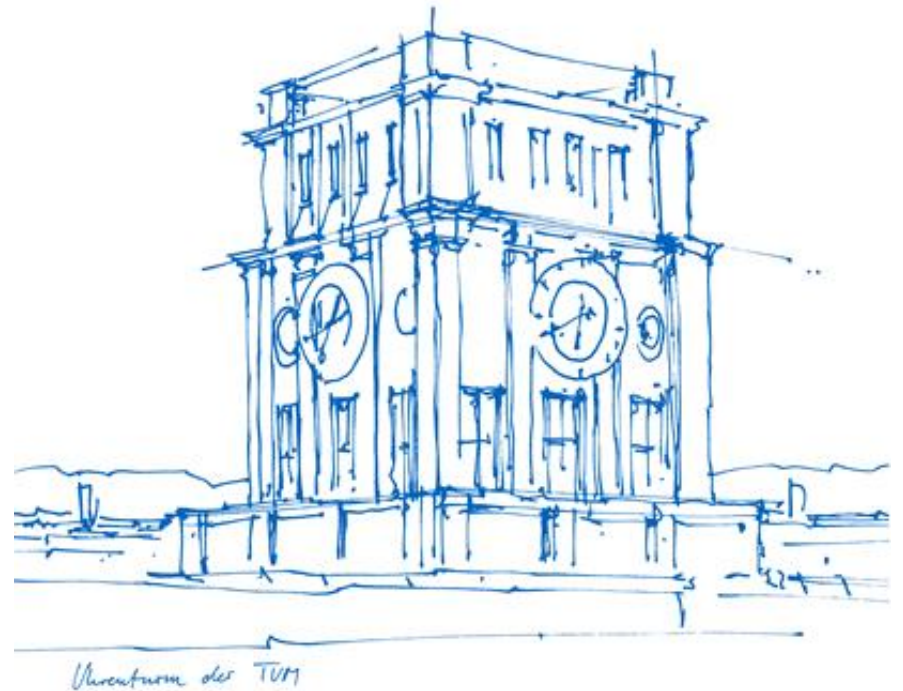


Assignment 3: Analysis of Secure Cloud Sync



Analysis Aspects

1. Identify vulnerabilities in your protocol (**theoretical analysis, no implementation**)

- Documentation pattern (example)
 - 1. Security objective Integrity
 - 2. Vulnerability Attacker modifies content during transmission (man-in-the-middle attack)
 - 3. Approach md5, SHA-3

2. Scalability analysis of your protocol (**practical analysis, implementation of evaluation**)

- For comparability, implementation of three predefined metrics
 - Perf file download time
 - Per file overhead: how many bytes to send for metadata besides payload
 - Setup time until first byte received (Time-to-first byte)
- File sizes: 5 MB, 50 MB, 100 MB, 200 MB, 500 MB, 1 GB

Regulations

- Deadline for your protocol analysis 9th July 2018, 23:59:59
- Final assignment review on 10th July 2018
 - Prepare slides for 10 min.
 - Explain all steps from assignment 1 to assignment 3
 - Present in short your solutions for assignment 1 and 2
 - Spend more time to explain your findings for assignment 3