

Advanced Computer Networking (ACN)

QUIC Project – Description

Prof. Dr.-Ing. Georg Carle

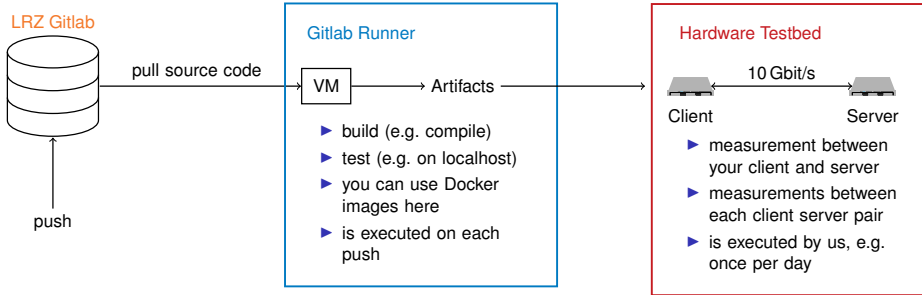
Benedikt Jaeger, Marcel Kempf, Johannes Zirngibl

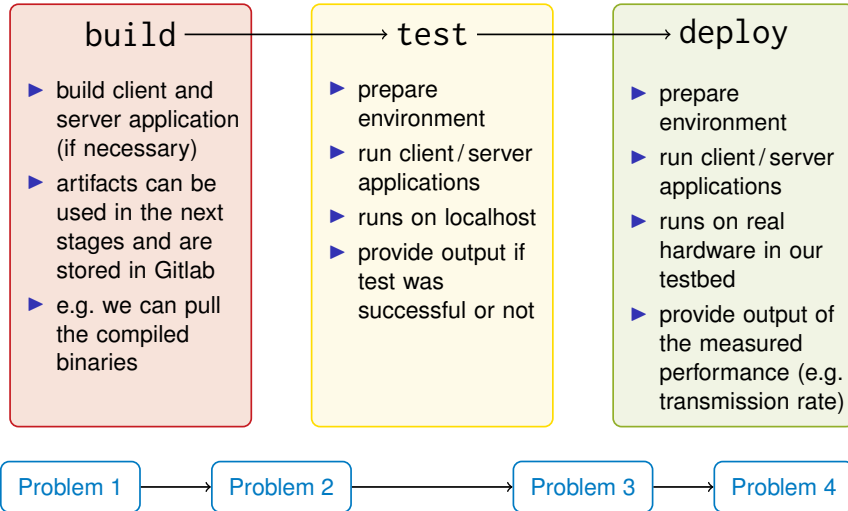
Chair of Network Architectures and Services
School of Computation, Information, and Technology
Technical University of Munich

- We use the LRZ Gitlab as infrastructure for this project
- You will get access to some shared repositories as well as a personal working repository

Gitlab CI

- This allows you to automatically compile your applications and access the artifacts via Gitlab





Interop Results

- We fetch all submissions and test some of their functionality against each other
- The results can be seen on <https://acn.net.in.tum.de/interop/>

	svm0145 lsquic	svm0645 quiche	svm0730 quic-go	svm1180 quiche	svm1220 quiche	svm1345 quic-go	svm1615 lsquic	svm1705 lsquic
svm0145 lsquic								
svm0645 quiche								
svm0730 quic-go								
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svm1615 lsquic								
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Deadline: January 30, 2024, 4:00 PM

Tasks:

- Extend your HTTP/3 client and server to support different measurements
- Test your implementation in the CI and implement your first analysis
- Goodput measurement
 - Deactivate QLog and reduce logging
 - Conduct a handshake and download all listed files
 - Analyze the goodput
- Optimize your implementation
 - e.g., test transport parameters, split and parallelize the download
 - Explain and analyze the results
- Eventually use the results from <https://acn.net.in.tum.de/interop/>
- Visualize the results (e.g., using Matplotlib and Jupyter)