

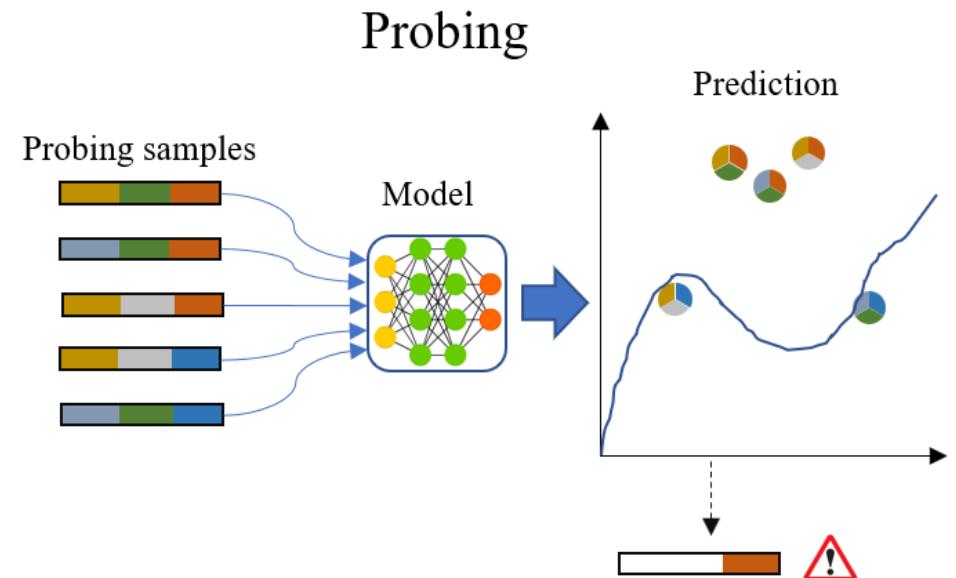
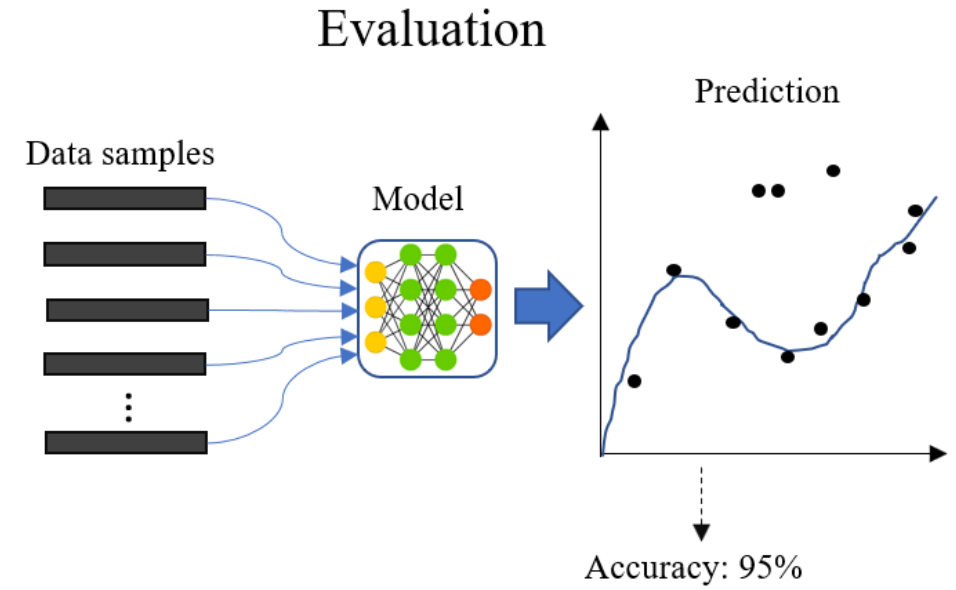
DetGen

Aim:

- Provide controllable traffic data from different settings
- Ground truth labels on what the traffic *micro-structures* "represents"
- Reproducible

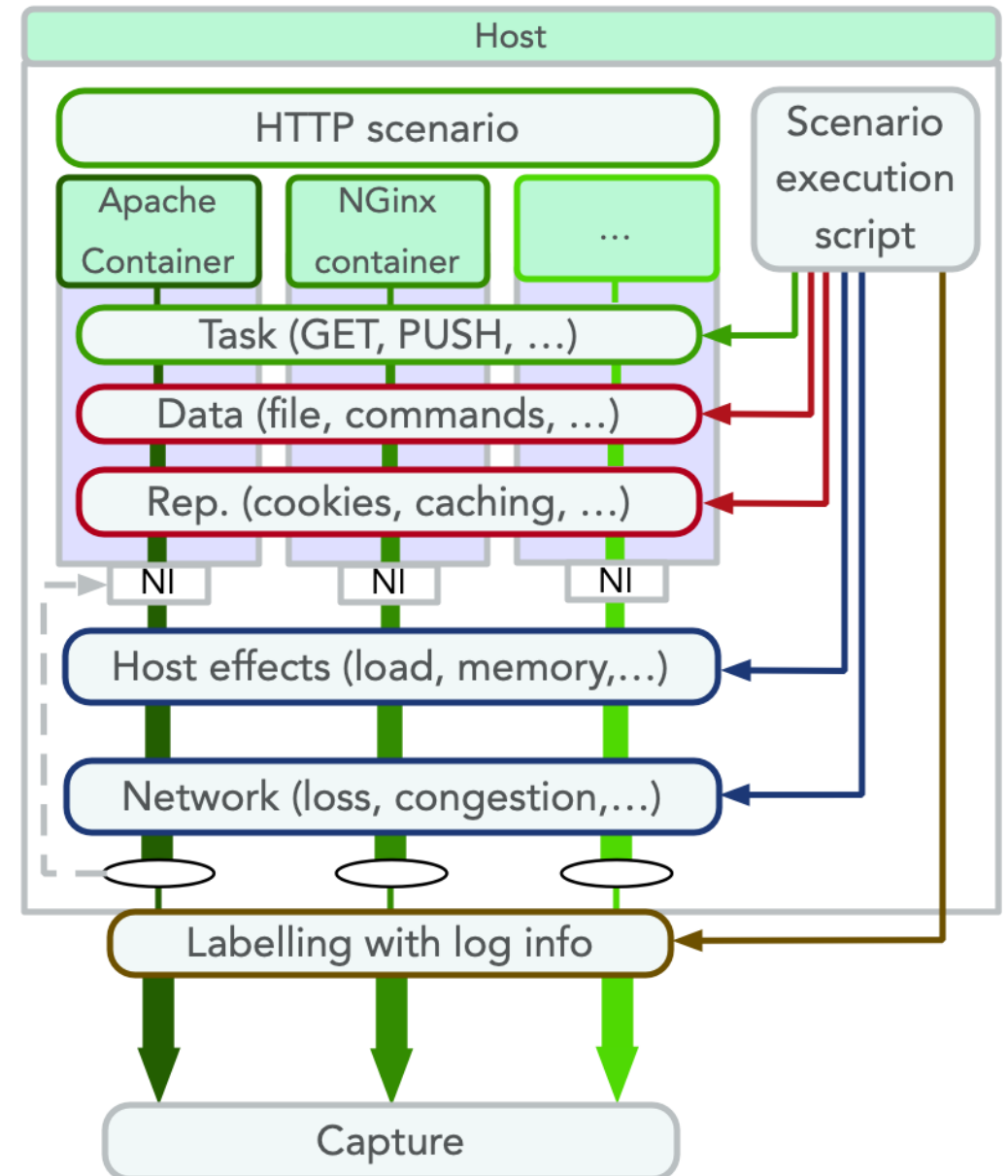
Why:

- Originally to build software models
- Now to understand and explore models



Design

- Containerisation
 - Traffic separation
 - Isolation from other processes
 - Reproducible and easy to modify setting
- Scripted scenarios generate traffic
- Execution script controls different settings
- PCAP-file with labels after each run
- 26 scenarios so far



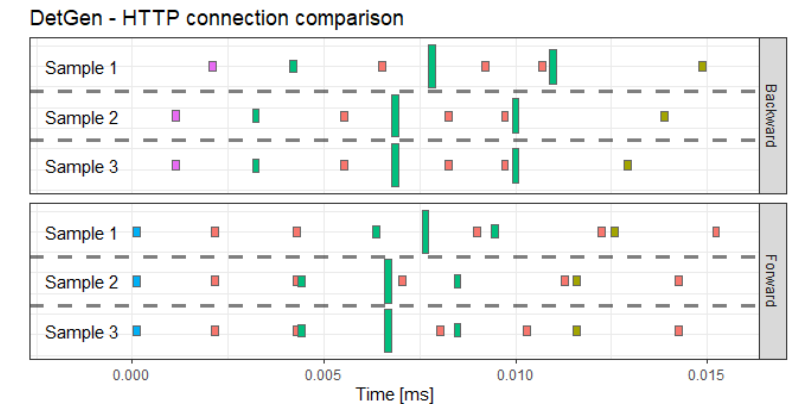
Publications

2.5 papers so far:

- **DetGen for ML** at DYNAMICS workshop
 - Some experiments to verify ML-usefulness
- **Probing demonstrations** submitted to WTMC workshop
- **Usage of stepping-stone data** for NSS-paper

Materials not used:

- Description of framework
 - Focus on control over structures
- Determinism experiments



- Diversity experiments
 - Drawing comparison to other NIDS datasets

Plan

Prepare paper for
SecureComm

- Deadline: 15th March

Checklist for strong contribution:

- Make repo more usable for others
 - Potentially graphical interface?
- Generate exemplary dataset(s)
 - What should this data provide?
 - Demonstrate probing capabilities?
 - Demonstrate determinism/reproducibility?
- Focus on how we can build a model that is better understandable using these microstructures
- Rob: Multi-stage
- Invite Michael on call, check on why they didn't use detgen