**sdmay19-39: ISEAGE Traffic Generator**
Week 1 Report
September 13 - September 20

## Team Members

Dustin Ryan-Roepsch  — *QA*
Matthew Vanderwerf  — *Architect*
Josh Wallin  — *Requirements Manager*
Ethan Williams  — *Product Manager*

## Summary of Progress this Report

Researched feasibility of various technologies, to enable us to write a design document and project plan in the future. Began initial design and wrote code to construct development environments.

## Pending Issues

Figuring which protocols Scapy supports vs which layers we would need to add manually.

Defining our requirements in more depth. Right now we are at a high level and have a pretty good idea what's going on. We need to get more in-depth requirements on smaller parts of the system in order to move forward.

## Plans for Upcoming Reporting Period

Meet with Doug and Julie and create an example configuration file for the tool. This will help us figure out requirements and get a sense of the scope of the tool. We would also like to develop a formalized list of high-level requirements with our clients, to ensure traceability to our implementation. These may then be clarified into increasingly lower-level requirements, for both documentation and design purposes.

## Individual Contributions

| Team Member | Contribution | Weekly Hours | Total Hours |
|---|---|---|---|
| Dustin Ryan-Roepsch | Researched MITM proxy, that way we can use tools that don't support manually specifying the source address. | 4 | 4 |
| Matthew Vanderwerf | Wrote Docker-compose.yml to configure starting environment. Created initial task design. | 6 | 6 |
| Josh Wallin | Explored existing python libraries for packet construction and manipulation; read documentation for SNORT database and started build | 5 | 5 |
| Ethan Williams | Researched SSH with python and executing commands on remote & host (not SSH) | 3 | 3 |

| | | | |
|---|---|---|---|
| | machines | | |

## Gitlab Activity Summary

~~Nothing to report.~~ Lies, https://git.ece.iastate.edu/sd/sdmay19-39