

sddec18-07: Software-Defined Moving Target Defense

Week 8 Report

April 2 – April 6

Clients: Dr. Benjamin Blakely and Joshua Lyle (Argonne National Laboratory)

Faculty Advisor: Dr. Hongwei Zhang

Team Members

Andrew Thai — *Project Manager*

Connor Ruggles — *Quality Assurance*

Emily Anderson — *Delivery Manager*

Ryan Lawrence — *Communication Manager*

Weekly Summary and Accomplishments

Worked on finalizing documentation and started final presentation. Created snort machine to experiment with the built-in rules for alerts that snort includes for network intrusion detection.

Summary of Weekly Client/Advisor Meeting

We did not meet with our client or advisor this week.

Pending Issues

- Determining overall design
 - Determining how to integrate network intrusion detection software with our software defined network controller
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Plans for Upcoming Week

- Improve project plan and design doc with client and advisor reviews and more precise deliverables
- Test more with Floodlight (plus documentation)
- Determining how to integrate network intrusion detection with our software defined network controller.
- Testing network intrusion alerts based on using penetration testing tools

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Andrew Thai	Created Snort machine within our test network. Went through a few rules to determine how snort works in determining network intrusion.	8	48
Connor Ruggles	Finalize documentation, figure out the Floodlight REST API and ways we could integrate other tools into it	6	41
Emily Anderson	Worked on updating and finalizing documentation.	5	40
Ryan Lawrence	Read through external documentation, worked on our documentation, and started work on final presentation.	6	43