

sddec18-07: Software-Defined Moving Target Defense

Week 6 Report

March 19 – March 23

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

We tested creating rules for different virtual machines in XenCenter and tested to find out what sort of things work and don't work. We also finalized which three attacks we want to protect against.

Summary of Weekly Client/Advisor Meeting

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

Pending Issues

The Citrix Xenserver is unable to see the machines that are using it as a host, so that is a problem when we try and route packets to those machines since Xenserver acts as the switch for the network. While trying to create rules, we found that some of the rules that we created were unable to be setup to route traffic. We are investigating possible issues of why this may be happening.

Plans for Upcoming Week

We hope to have successfully created some sort of flow management to show our clients at next week's meeting. We will be trying out other controllers to determine if there is something wrong with using OpenDayLight in our setup. We also want to work on making all of our documentation more detailed and up-to-date.

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Andrew Thai	Worked on attempting to get rules setup in OpenDaylight but having issues with the rules actually being correctly defined. Started to create a new virtual machine to test floodlight to see if we can create rules on this controller instead.	4	35
Connor Ruggles	Worked on weekly status report and project plan v2.	4	32
Emily Anderson	Worked on weekly status report and project plan v2 and helped plan how we are going to protect against the specific attacks we chose.	3	32
Ryan Lawrence	Looked into different types of controllers/ switches to try and find a system that will allow easier customizability for setting rules.	3	33