EE 492 BI-WEEKLY REPORT 2 *Date:*9/29/17

Group number: Dec1703

Project title: HackTrack

Client & Advisor: Dr. Tom Daniels

Team Members & Roles:

Davis Batten – Team Key Concept Holder
Vitalie Cernetchi – Team Communications Leader
Nicholas Lewis – Team Communications Leader
Daniel Doyle – Team Leader
Anh Nguyen –Team Webmaster

- **Bi-Weekly Summary**

The week of September 18th had lower project progress as we were all busy with the career fair and struggled to meet at our regular times. This past week we made many project defining decisions regarding structure and our goals for a final product at the end of this semester (discussed in weekly advisor meeting section). Our development meetings we had during the week involved a discussion on what fields were necessary to provide to the user for them to describe a new transition on the attack graph. We decided to use a few basic fields describing 'to' and 'from', then giving them a text area to freely describe what could be a complex process.

- **Past bi-week accomplishments**
    - **Davis Batten: Created web app pages/API for networks, hosts, and privileges. Improved routing for objects.**
    - **Vitalie Cernetchi: Transitions form.**
    - **Nicholas Lewis: Brainstorming how the structure of the attack graph will affect the pathing algorithm to detect flag access.**
    - **Dan Doyle: Finish touches to structure of Scenario Graph script. Downloaded GraphAware UUID for Neo4j.**
    - **Anh Nguyen: Worked on Web form for creating new nodes**

- **Pending issues**

Building copies of the scenario graph for each team in the competition, how do we implement the BFS?

- **Individual contributions**

NAME	Individual Contributions	Hours this bi-week	HOURS cumulative
Davis Batten	Web app - networks, hosts, privileges	16	68
Vitalie Cernetchi	Transitions form	6	40
Nicholas Lewis	Pathing Algorithm	4	47
Daniel Doyle	Scenario graph script, VM updates	8	51
Anh Nguyen	form reporting for new nodes	5	45

- **Plan for coming bi-week**
    - **Davis Batten: Integrate forms for creating/editing domain objects into web app.**
    - **Vitalie Cernetchi: Finish up transitions form.**
    - **Nicholas Lewis: Create a Depth First Search algorithm capable of finding a path through a sample neo4j database**
    - **Daniel Doyle: Get UUID's functioning, implement team graphs in the DB, possibly add metadata into the scenario graph**
    - **Anh Nguyen: Get the reporting forms done.**

- **Summary of weekly advisor meeting**

We faced down some questions with Dr. Daniels about how to implement copies of the scenario graph for each team involved in the competition as well as how to handle input fields for creating new nodes in the database. The question of what our end goal will be came up, and we came to the conclusion that we need to focus on getting a small scale, functional prototype for the system as opposed to a fully fleshed out and stable product.