Team #: 3
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Contact: Adam Podgorny
Project Sponsor: KUISC www.kuisc.com , Chris Seasholtz and Ellis Springe

Project Description (150-250 words)

This project is being undertaken at the behest of the CyberPatriot group and it's sponsors to more fully encourage, develop, and support the various cybersecurity clubs and competitions across the nation. One such tool that is used frequently is a scoring engine, which allows the progress tracking of the various teams to their objectives. While solutions are in place for the Windows side of these, such competitions often involve Linux machines, where the scoring engine solutions are more sparse. Team 3's task to to rectify this by creating a scoring engine package that may be deployed for such competitions, possibly alongside the Windows versions. The end result of these endeavours will be a flexible backend package which allows for scoring teams during cybersecurity competitions in the format often used by the CyberPatriot clubs for practice. This is currently slotted to integrate with the frontend interface already used for these competitions. As we are in close and regular contact with our sponsors at KUISC, these requirements are likely to evolve as time goes on.

Project Milestones (WES)
- 3-5 specific and measurable objectives per semester for first & second semester
- Estimated completion date for each milestone
- Both implementation and documentation milestones

Semester 1
1. Requirements Specification   (10/15)
2. Front end use diagram(s)   (10/22)
3. Back end use diagram(s)   (10/22)
4. Initial design completed   (11/1)
5. Initial front end and back end coding completed   (12/7)

Semester 2
1. Front end/back end connected   (01/30)
2. Unit testing   (01/30 - 3/30)
3. Requirements testing   (04/01 - 05/01)

Project Budget
Due to the nature of our project, we will not be requiring any monetary support for our development. Any hosting resources will be provided by the KUISC, and programming the application will be done in software that is offered for free. No special training or additional resources will be required.

Work Plan

Tyler: Most of my focus will be on the front end part of the scoring engine, as well as some of the python features that will allow the scoring engine to interact with the different linux machines. I plan to work on a little bit of everything, but most of focus will be on the front end of the software.

Wes: Most of my focus will be on the back end part of the scoring engine. I plan on developing the the features that are actively scanning and checking the systems that are being scored.

Adam: My focus will be on an overall structuring and documentation, as well as approaching things from the Linux aspect of things. This may include hosting infrastructure and learning/deploying Metasploit and Kali to validate this. This role necessarily includes a bit of involvement in the backend of things as well, including databases is necessary.

Lester: My focus will be developing functionality to take the back-end data and make it available for the front-end. I plan to work on a bit of everything where needed as well if any other piece of the project needs an extra set of hands.

Github link:
https://github.com/0xmonkey/CS-Linux-Scoring-Engine

Owner of the Github Account is Tyler Michels [tjmichels4455@ku.edu]

Team/GTA Meeting Option: Option 1
Team Meeting day and Time: Tuesday 6:00-7:00
Requested GTA Meeting Time: Monday 1:00 - 1:15