

## [W02-12777 Project 11 Cybersecurity Group 2]

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### Report Week: 1/30 to 2/6

#### Progress summary

-This week we started to write our Information Security Policy and we accomplished this part of our capstone project by the end of this week. We finished the Weekly Log for this week, and we created the plan for next week.

#### Meeting summary

-On Monday at our first meeting for this week we talked about our plan for what we need to accomplish. The focus was to start writing the Information Security Policy and to finish that by the end of this week.

-Thursday meeting was mostly about following up with security policy progress.

-Saturday meeting was about our Weekly Log Templet progress and what we should do next week and that is Risk Assessment. We also talked about accessing our VM this week.

#### Key events

-Created a plan to begin Milestone 1 and divided up parts to work through creating an ISP.

#### Member activities

| Team member name  | Major tasks and contributions   | Workload (hours) |
|-------------------|---|------------------|
| Kowou Agbavon     | 1.Milestone # 1, security policies  | 1                |
|                   | 2. Write the information security objective   | 2                |
| Andres Morales    | 1.Milestone #1 meetings   | 2                |
|                   | 2.Information security policy   | 1                |
|                   | 3.Planned out the next steps for week of 2/6  | 1                |
| Brandon Turner    | 1. Milestone #1 ISP (Purpose and Audience)  | 1                |
|                   | 2. Meetings/Workflow planning.  | 2                |
|                   | 3. Looked over VM instructions and set up on laptop.                                      | 1                |
| Felton Strickland | 1. <i>Project deliverables</i>  | .5               |
|                   | 2. <i>Gant chart</i>  | 2                |
|                   | 3. <i>Access control/Data classification policy</i>                                       | 1                |
| Aleksandar Punos  | 1.Milestone #1 meetings   | 2                |
|                   | 2. ISP-Security awareness and behavior& Responsibilities, rights and duties of personnel. | 1                |
|                   | 3.Progress and meeting summary  | .5               |
|                   | <b>Total</b>  | 18               |

## Report Week: 2/7 to 2/13

### Progress summary

-This week we started with the risk assessment part of our project, and we finished this part by the end of this week. We also accomplished Weekly Log for this week, and we planned our project accomplishments for the next week.

### Meeting summary

-Monday meeting was about the final checking of our security policy and starting our work on risk assessment.

-On Thursday we talked about progress with risk assessment, and we conclude this meeting that we will continue to work on this part of our project and finalize this part on Saturday.

-Saturday meeting, we were finishing our risk assessment part, and we were talking about Milestone 1. Today we also talked about what we are going to accomplish next week- finish Milestone 1, Weekly Log 3 and how to protect our server. We also planned to brainstorm part 3 of this project next week.

### Key events

Finished the risk assessment, Weekly Log 2. Planned the next week's workload –Milestone 2, protection of our server.

### Member activities

| Team member name  | Major tasks and contributions  | Workload (hours) |
|-------------------|--|------------------|
| Aleksandar Punos  | 1.Risk assessment -potential known treats and vulnerabilities to each asset<br>2.Progress and meeting summary<br>3.Project progress report | 2<br>1<br>0.5    |
| Kowou Agbavon     | 1.Damage to each asset when attacked<br>2.Impact analysis  | 1<br>1           |
| Felton Strickland | 1.Server Infrastructure Diagram<br>2.Sever Infrastructure Evaluation   | 1<br>1           |
| Andres Morales    | 1. Risk assessment – assets to protect<br>2.Exploring the system through VM  | 1<br>1.5         |
| Brandon Turner    | 1. Meetings/plannings.<br>2. Explored VM and did research  | 1<br>1.5         |
|                   | <b>Total</b>   | 12.5             |

## Report Week: 2/14 to 2/20

### Progress summary

This week our focus was the Milestone 1 report and Milestone 1 PowerPoints slides. We finished Milestone 1 report and the PowerPoints for this part of our project.

### Meeting summary

-On Monday we had a meeting with Professor Privitera and Dr. Li about our project progress, and after that we had a meeting about Milestone 1 report and Milestone 1 power points slides.

-Thursday meeting was mostly about the progress in our Milestone 1 report and Milestone 1 power points slides. We agreed to finish these parts by Friday and on Friday we can send a draft of these two parts of our Milestone 1 to Professor Privitera.

-Our Saturday meeting was about finishing our Milestone 1 and Weekly Log. During this meeting we also discussed our plan for the next week.

### Key events

We finished Milestone 1 report and Milestone PowerPoints slides, Weekly Log 3. This week we accomplished creating the plan for project phase 2.

### Member activities

| Team member name  | Major tasks and contributions   | Workload (hours) |
|-------------------|---|------------------|
| Kowou Agbawon     | VM Technical plan   | 1                |
|                   | Maria DB Technical plan   | 0.5              |
|                   | Milestone 1 PowerPoint  | 1                |
| Andres Morales    | Important digital assets to protect Risk Assessment, Milestone 1 report, Weekly Logs, Technical plan research | 1                |
|                   |   | 1                |
|                   |   | 1                |
| Aleksandar Punos  | 1.Milestone 1 PowerPoint slides   | 1.5              |
|                   | 2.Weekly Log  | 0.5              |
|                   | 3.Meeting summary   | 0.5              |
| Felton Strickland | 1.Technical Plan  | 1                |
|                   | 2.Gantt Chart   | 0.5              |
|                   | 3.Milestone 1 PowerPoint slides   | 1                |
| Brandon Turner    | 1. Phase 1 report   | 2                |
|                   | Milestone 1   | 1                |
|                   | <b>Total</b>  | 13.5 hours       |

## Report Week: 2/21 to 2/27

### Progress summary

-This week we started with phase 2 of our project. The focus was on the implementation of our most important tasks from Milestone 2 project. We finished Weekly Log 4.

### Meeting summary

-Monday meeting was mostly about starting the implementation on phase 2 of this project. We divided the work between ourselves and discussed how to implement the first week of our phase 2 project.

- On Thursday we had a meeting with mainly focus on the results from an implementation of our technical plan and using other security controls to continue with finishing our main objective in this Milestone 2.

- Our Saturday meeting was about making the plan for the next week and focusing on continuation of implementation and discussing what kind of result we are getting.

### Key events

Starting with an implementation of our technical plan, finishing Weekly Log 4 and creating the plan for next week.

### Member activities

| Team member name  | Major tasks and contributions                               | Workload (hours) |
|-------------------|---|------------------|
| Kowou Agbawon     | 1.Meetings<br>4. Build security plan for MariaDB            | 3<br>5           |
| Andres Morales    | 1. Meetings<br>2. Implementing technical security plan      | 3<br>4.5         |
| Aleksandar Punos  | 1.Meetings<br>2.Weekly Log<br>3.Technical Writing           | 3<br>2<br>3      |
| Felton Strickland | 1.Meetings<br>2. Implementing Apache security controls      | 3<br>4           |
| Brandon Turner    | 1.Meetings<br>2.Learning and implementing MariaDB security. | 3<br>5           |
|                   | <b>Total</b>  | 38.5             |

## Report Week: 2/28 to 3/6

### Progress summary

This week we continue with implementation of our project from Milestone 2. Milestone 1 Report feedback and planning on how to improve our weak parts from this report. We finished Weekly Log 5. Started with our Milestone 2 PowerPoints Report.

### Meeting summary

-Monday meeting was mostly about gathering information about our implementation improvement from our last week. We clarified our plans for this week and plan for our Milestone 2.

-On Thursday we talked about our implementation progress and what we could do more to protect our system better. One important part of this meeting was about the feedback from our Milestone 1, and planning what we can do better in the future with the rest of our project. We agreed to start working on our Milestone 2 PowerPoints Report.

-Saturday meeting was about creating the plan for the next week and following up with our implementation progress and about gathering ideas that could be helpful to us with our project implementation process.

### Key events

Implementation plan progress status and summary. Milestone 1 Report feedback and planning how to improve and fix mistakes from this report. Started with Milestone 2 PowerPoints Report. Finished Weekly Log 5.

### Member activities

| Team member name | Major tasks and contributions  | Workload (hours) |
|------------------|--|------------------|
| Kowou Agbawon    | 1.Meetings<br>2. Strategy and tools for vulnerability analysis<br>3. VM access | 2.5<br>3<br>2    |
| Andres Morales   | 1.Meetings<br>2. Apache Security Plan implementation<br>3. Research            | 2.5<br>3<br>2    |
| Aleksandar Punos | 1.Meetings<br>2.Technical Writing  | 2.5<br>2         |

|                   |   |               |
|-------------------|---|---------------|
|                   | 3.Research<br>4.Weekly Log  | 2.5<br>1.5    |
| Felton Strickland | 1.Meetings<br>2. Apache security controls (certificate)<br>3.HTTP/HTTPS redirect troubleshoot | 2.5<br>2<br>4 |
| Brandon Turner    | 1.Meetings<br>2. Researched MariaDB more<br>3. Implemented MariaDB security changes           | 2.5<br>4<br>2 |
|                   | <b>Total</b>  | 40.5          |

## Report Week: 3/13 to 3/20

### Progress summary

This week we continue to work on our Milestone 2 PowerPoint slides. We finished Weekly Log 5 and we created our plan for the next week, -the focus would be researching the ways how to break into another team server.

### Meeting summary

-Monday meeting was mostly about planning to continue with implementation of our phase 2. We discussed Milestone 2 PowerPoint slides and what we could improve.

-This Thursday we discussed the status of our VM, and what we can do during this situation. We agreed to start our research on what tools and methods we could use to get into another group server.

-During Saturday meeting we summarize what we have for our Milestone 2, and we planned what we need to accomplish next week.

### Key events

Implementation plan progress status and summary. Milestone 1 Report feedback and planning how to improve and fix mistakes from this report. Started with Milestone 2 PowerPoint Report. Finished Weekly Log 5.

### Member activities

| Team member name | Major tasks and contributions | Workload (hours) |
|------------------|-------------------------------|------------------|
|------------------|-------------------------------|------------------|

## IT 4983 Capstone Project Weekly Log

|                   |  |                      |
|-------------------|--|----------------------|
| Kowou Agbawon     | 1.Meetings.<br>2. Work on Pentesting team VM<br>3. Work on PowerPoint  | 2.5<br>3.0<br>2.0    |
| Andres Morales    | 1.Meetings<br>2. work on vm<br>3. Vulnerability Analysis/Penetration Testing Research  | 2.5<br>2.5<br>3      |
| Aleksandar Punos  | 1.Meetings<br>2.Weekly Log Report<br>3. Milestone 2 PowerPoint slides<br>4 Research for phase 3  | 2.5<br>1.5<br>2<br>2 |
| Felton Strickland | 1.Meetings<br>2. Vulnerability Analysis/Penetration Testing Research<br>Updated report slides for Apache server and Gnatt Chart  | 2.5<br>3.5<br>1      |
| Brandon Turner    | 1.Meetings<br>2. Researched and implemented more MariaDB security measures.<br>3. Emailed about VM reset + updated portion of slides (MariaDB, Contributions, References). | 2.5<br>4<br>1        |
|                   | <b>Total</b>   | 38.0                 |

## Report Week 6: 3/26-4/3

### Progress summary

This week we continue with research on vulnerability testing and implementation of the ideas collected from this research.

### Meeting summary

-On Monday we discussed our plan for vulnerability testing, and we finalized our research about this testing.

- Thursday meeting was mostly about feedback from our research and what we vulnerability test we tried on the other server so far.

-Saturday meeting -we discussed what we accomplished so far with our testing and, we discussed the phishing attack that we noticed from the other group.

### Key events

We started Milestone 3 PowerPoint slides. Vulnerability testing research was finished this week and we started an implementation of our main vulnerability testing.

### Member activities

| Team member name | Major tasks and contributions  | Workload (hours) |
|------------------|--|------------------|
| Kowou Agbawon    | 1.Meetings<br>2. enumeration target on Apache<br>3.Penetration test attempts | 2.5<br>1.5<br>3  |
| Andres Morales   | 1.Meetings<br>2. Attack research<br>3. Checking on VM                        | 2.5<br>3<br>1.5  |
| Aleksandar Punos | 1.Meetings<br>2 Weekly Log   | 2.5<br>1.5<br>4  |



|                   |   |      |
|-------------------|---|------|
|                   | 3Vulnerability test research            |      |
| Felton Strickland | 1.Meetings                              | 2.5  |
|                   | 2. Penetration test research            | 3    |
|                   | 3. Troubleshoot phishing attack (Kali)  | 2    |
| Brandon Turner    | 1.Meetings                              | 2.5  |
|                   | 2. Running Password cracking            | 2    |
|                   | 3. Researching ways to attack with Kali | 2.5  |
|                   | Total                                   | 36.5 |
|                   |   |      |

**Report Week: 4/10-4/17****Progress summary**

This week we continue with vulnerability testing, and we continue with work on Milestone 3 Report and Power Points 3 slides. We updated our Project website and Weekly Log.

**Meeting summary**

-Monday meeting was mostly about implementation of our plan to finish Milestone 3 Report and Milestone Power Points 3.

- On Thursday meeting –we talked about the status of our Milestone 3 and what we need to accomplish to finish our Report and Power Points slides.

-Saturday meeting - we discussed our final part of project, and we plan steps to get everything accomplished on time and to have successful finish.

**Key events**

This week we finished and submitted our C-Day registration form. We also finished Milestone 3 Report and Power Point slides. We updated our Project website and finished Weekly Log 7.

**Member activities**

| Team member name | Major tasks and contributions | Workload (hours) |
|------------------|-------------------------------|------------------|
| Kowou Agbawon    | 1. Meetings                   | 2.5              |
|                  | 2. Infrastructure Defense     | 3                |
|                  | 3. Analysis Results           | 2.5              |
| Andres Morales   | 1. Meetings                   | 2.5              |
|                  | 2. Penetration Testing        | 1.5              |
|                  | 3. Phase 3 Report             | 4                |

|                   |   |                        |
|-------------------|---|------------------------|
| Aleksandar Punos  | 1. Meetings<br>2. Weekly Log<br>3. Milestone 3 PowerPoint<br>4. Project web site                | 2.5<br>1<br>2.5<br>3.5 |
| Felton Strickland | 1. Meetings<br>2. Vulnerability Analysis<br>3. Penetration Testing<br>4. Milestone PowerPoint   | 2.5<br>2<br>4<br>1     |
| Brandon Turner    | 1. Meetings<br>2. Dr Li's Phase 3 report<br>3. Milestone 3 PowerPoint<br>4. Penetration Testing | 2.5<br>2<br>1<br>3.5   |
|                   | Total   | 43.5                   |

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**Report Week:**

(Keep adding more future weeks here ...)