EE/CprE/SE 492 WEEKLY REPORT 1
1/15/2024 - 1/29/2024

Group number: sdmay24-11
Project title: Damn Vulnerable AWS API
Client: RSM - Jon Schnell
Advisor: Julie Rursch
Team Members/Role:
Garrett Arp - Team Website Lead
Ashler Benda - Client Interaction
Karthik Kasarabada - Client Interaction
Andrew Bowen - Scrum Master
Ahmed Nasereddin - Identity & Access Management
Ayo Ogunsola - Identity & Access Management
Ethan Douglass - Testing Lead

o Weekly Summary

We started to meet again as a team and had a separate meeting with our advisor and client. Each team member created a list of tasks to complete the implementation of the project, as well as basic deadlines for each task. During the meeting with our advisor, she recommended pushing all of the deadlines forward a week to account for the Industry Panel dates and allow for busy schedules around test periods of other classes. We established our weekly meeting times and ended by reviewing the deliverables we needed to complete and get to our client at the end of the project. We turned those deliverables into goals and made sure our tasks met all of those goals.

o Past Week(s) Accomplishments

- Garrett Arp - Began to create some resources for Attack path 2 initial entry. After getting some answers from our client we can move forward with implementation.
- Ashler Benda - Began implementing CI/CD pipeline for automated deployment of resources, and created a list of tasks and proposed deadlines for said tasks to outline how I will contribute to semester goals.
- Karthik Kasarabada - Successfully implemented and presented working prototypes during the design phase
- Andrew Bowen - Created a list of tasks to complete and sent forms to schedule the team meetings for the semester. Started researching how Cloudformation Templates work with users and what details needed to be recorded in the file. It was similar to how other Cloudformation Templates work, and the only change is the type and the properties. This will be important for my first stage of implementation.
- Ahmed Nasereddin - Begin implementation of attack path 2. Utilized previous semester documentation to help guide the team. Ran into a few problems which have been resolved and expect to move forward this week.
- Ayo Ogunsola - Begin implementation and testing with the rest of the attack path 2

team. Used design documentation to help coordinate sections for the AP2 team to work on and began initial configuration steps. Also helped troubleshoot issues as part of the development process.
- Ethan Douglass - Started the implementation of specific boxes on attack path 2. Needed to reacclimate to the AWS environment and created EC2 and SSHed to it. Troubleshooted issues and planned for next steps.

o Individual Accomplishments

Name	Hours this week	Hours cumulative
Garrett Arp	4	4
Ashler Benda	4	4
Karthik Kasarabada	4	4
Andrew Bowen	5	5
Ahmed Nasereddin	4	4
Ayo Ogunsola	3	3
Ethan Douglass	3	3

o Plans for the upcoming week

Our plan for the upcoming weeks is to implement the individual units of the attack paths as individuals. This will take a few weeks and once that is complete, we will come back together as groups to connect the units together following the attack path designs. We will still meet each week to help each other if any issues arise but most of the work will be separate.
- Garrett Arp - Start implementation of Attack Path 2, looking into what components need to be set up and created.
- Ashler Benda - Finish CI/CD, start VPC
- Karthik Kasarabada - Start implementing my part of the Attack Path, refining the prototype
- Andrew Bowen - Start implementing my part of the attack path by creating an IAM User that can only work in the EC2 console with no other permissions.
- Ahmed Nasereddin - Begin implementation of attack path 2, by starting on initial entry which requires the creation and set up of an ec2
- Ayo Ogunsola - Begin implementation of initial entry with the rest of the attack path 2 team.
- Ethan Douglass - Continue implementation of attack path 2 including the initial entry and then metadata service.
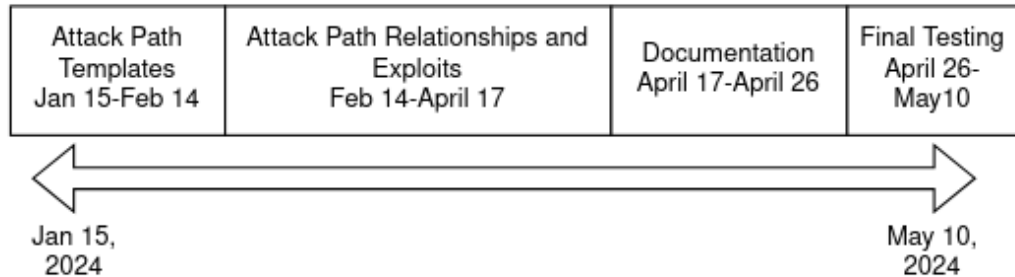
o Weekly Advisor/Client Meeting
Attendance: Jon Schnell, Julie Rursch, Ashler Benda, Nasereddin, Garrett Arp, Ethan Douglass, Andrew Bowen, Karthik Kasarabada, Ayo Ogunsola
Meeting Date: 1/29/2024 at 12:30pm

Agenda:
- Review Faculty Panel and Final Design from 491
  - Reiterate that the project is an education tool to help prevent the issues of scope and questions not related
- Discussion of any changes or improvements to the design
  - Discovered both attack paths have the same ending compromise (Priv Esc 3 vs Priv Esc 2), discuss changing Attack Path 2 back to SSH
    - Keep for now; see how the implementation turns out
    - Can change later if needed
- Discussion of the objectives and requirements for 492
  - Create an individual list of tasks for each person
    - Show group work with other people
  - Make sure to test properly and document the tests
- Discussion of the schedule and milestones for the project

Attack Path Templates Jan 15-Feb 14	Attack Path Relationships and Exploits Feb 14-April 17	Documentation April 17-April 26	Final Testing April 26-May10

Jan 15, 2024   May 10, 2024

  - Preliminary schedule made last semester
  - Meeting Times
    - Team meets during class time
    - Team plus advisor and client meet on Monday's at 12:30 pm
    - Individual attack path teams meet separately once or twice a week
  - Move everything up a week if possible to account for Industry Panel during Prep week
  - Start testing end of March before the Final Testing
- Review your team process and discuss any changes or improvements
  - Add more text channels in Discord for communication
  - Gitlab
    - Create separate folders within main branch for separate attack paths
    - CI/CD Pipeline via GitHub Actions