Level of Effort & Individual Responsibility

Charger Active Defense – G12

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**Individual Hours Breakdown**

Table 1: Individual Hours Per Period

|  |  |  |  |
| --- | --- | --- | --- |
| Reporting Period | Noah | William | Adam |
| Brief 1 | 56 | 14 | 16 |
| Brief 2 | 22 | 13 | 10 |
| Brief 3 | 30 | 0 | 32 |
| Total (work/hours) | 108 | 27 | 58 |

**Responsibility & Tasking**

Table 2: Noah – Tasks and Accomplishments By Period

|  |  |  |
| --- | --- | --- |
| Reporting Period | Task/Accomplishment | Related Milestone(s) |
| Brief 1 | Finish project proposal presentation deliverable. | Project Proposal Presentation |
|  | LDRA and Valgrind static analysis of all attack tool candidates. | Apply LDRA static analysis & Valgrind on all attack tools |
|  | Background research of any known vulnerabilities and CVEs. | Background Research for CVEs & Exploits |
|  | Attack tool down selection from list of potential candidates. | Attack Tool Selection |
|  | Identify fuzz testing tools to use for each period. | Identify Fuzz Testing Tools |
|  | Capture of unaltered network traffic of Medusa and Masscan against target. | Network Packet Capture on Medusa & Masscan |
|  | Aflnet configuration and viability testing against Medusa and Masscan. | Test Fuzzing Tool #1 |
| Brief 2 | Fuzzowski configuration testing against Medusa and Masscan – including repetition script and proof-of-concept FTP module. | Test Fuzzing Tool #2 |
|  | Updated general configuration information on attack tool(s), kernel and gcc compiler versions for reporting and documentation. | Draft Design Review Report  Draft Final Report |
| Brief 3 | Peach Fuzz configuration and viability/compatibility testing for use with Medusa and Masscan. | Test Fuzzing Tool #3 |
|  | Written attack tool selection report for rationale of attack tools used for the project. | Draft Design Review Report  Draft Final Report |
|  | Updated general documentation/info in preparation for design review and finals reports. | Draft Design Review Report  Draft Final Report |

Table 3: Adam – Tasks and Accomplishments By Period

|  |  |  |
| --- | --- | --- |
| Reporting Period | Task/Accomplishment | Related Milestone(s) |
| Brief 1 | Finish project proposal presentation deliverable. | Project Proposal Presentation |
|  | Research on fuzz testing using simple and smart fuzzers. | Identify Fuzz Testing Tools |
|  | Setup AFL++ fuzzing tool for use with Medusa and Masscan. | Test Fuzzing Tool #1 |
|  | Testing AFL++ fuzzing tool on simple C/C++ programs. | Test Fuzzing Tool #1 |
| Brief 2 | Draft report for attack tool selection rationale. | Write Attack Tool Selection Report |
|  | Continue setup and configuration of AFL++/Aflnet. | Test Fuzzing Tool #1 |
| Brief 3 | Configured Scapy with Python script to send packets back to Medusa through the FTP module. | Test Fuzzing Tool #3 |

Table 4: William – Tasks and Accomplishments By Period

|  |  |  |
| --- | --- | --- |
| Reporting Period | Task/Accomplishment | Related Milestone(s) |
| Brief 1 | Finish project proposal presentation deliverable. | Project Proposal Presentation |
|  | Research on existing projects surrounding network-based fuzzing. | Project Proposal Presentation |
|  | Research on potential network-based fuzz testing tools. | Identify Fuzz Testing Tools |
| Brief 2 | Exploration of backup attack tool (Reaver) and options available for fuzz testing; Configuration and setup of Reaver for pcap file ingest. | Test Fuzzing Tool #2 |
| Brief 3 | Nothing. | N/A |
|  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Member | Reporting Period | Task/Accomplishment | Related Milestone |
| Noah | Brief 1 | Static analysis against all attack tool candidates. | Background Research for CVEs & Exploits |
| William |  |  |  |
| Adam |  |  |  |