Charger Active Defense v1.0 Team 2 - Group 12

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**Background / Abstract [UPDATE ME]**

Modern attack tools are efficient, allowing them to attack quickly. Our goal is to slow or stop attack tools by sending these tools invalid responses over the network. Some of the major steps that we have made so far to achieve this goal include:

* Researched CVEs for each of our preliminary tools
* Performed various forms of static and dynamic analysis on each tool
* Explored and tested a variety of fuzzing tools

In the future, we plan to:

* Explore more fuzzing tools
* Perform extensive fuzz testing
* Create a fuzz-testing workflow for attack tools

**Current Project Status, Issues, & Short-Term Activities & Goals**

This reporting period primarily focused on compatibility testing our third and final fuzz testing tools against Medusa and Masscan. This also included initial drafting of the design review report, and the completion of the tool selection report.

Short-term goals met for this period:

* Test the viability of the third and final fuzz testing tool (PeachFuzzer/Scapy) against Medusa and Masscan.
* Write the attack tool selection report.

During this period, we encountered a few issues:

* dwadwadwa

For the next reporting period, our short-term goals are:

| Task | Responsibility |
| --- | --- |
|  | Noah |
|  | William |
|  | Adam |

**Milestone Status Summary [UPDATE ME]**

| Milestone / Task | Projected Due Date | Completion Date | Status | Notes |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
| Write Tool Selection Report | N/A | 10/26 | Complete |  |
|  |  |  |  |  |

**Milestones for Next Period [UPDATE ME]**

| Milestone / Task | Start Date | Projected End Date | Notes |
| --- | --- | --- | --- |
| Test Fuzzing Tool #3 | 10/15 | 10/21 | We will begin testing with our final fuzz testing candidates of Peach Fuzzer. |
| Analyze Fuzz Testing Results | 10/21 | 10/21 | This will focus on examining each of the fuzzing tool’s ease of use, compatibility, and features available to use with Medusa and Masscan. |
| Rank Fuzz Tools Based on Probability of Success | 10/22 | 10/22 | From the above analysis, decide the order of preference between the tested fuzzing tools to use for the workflow. |

**Level of Effort / Individual Responsibility Record [UPDATE ME]**

| Member | Hours |
| --- | --- |
| Noah Sickels | 23 |
| Adam Brannon |  |
| William Lochte |  |

| Member | Individual Accomplishments |
| --- | --- |
| Noah Sickels | Peach Fuzz configuration and testing against Medusa and Masscan.  Written attack tool selection report for rationale of attack tools used for the project.  Updated general documentation/info in preparation for design review and final reports. |
| Adam Brannon |  |
| William Lochte |  |

**Milestone Completion & Analysis**

**Mitigation Plan**

* Milestone:

**Contingency Plans**