**TO:** Dr. T.L. Lewis **FROM:** Turba Tech

**TIME COVERED BY REPORT:** January 26, 2012 –Present

**SUBJECT:** Progress Report: \_\_\_\_Iteration One\_\_\_\_\_\_\_\_\_\_

**PROJECT MANAGER:** \_\_\_\_\_Michael Bristol\_\_\_\_\_\_\_\_\_\_\_

**Introduction**

Turba Tech will provide the client with a version of Chaos Monkey that is compatible with Rackspace’s OpenStack framework. They will also provide the client with a reporting functionality to monitor the effect of Chaos Monkey on their systems, as well as the health of those systems after Chaos Monkey has been unleashed. This Progress Report is being compiled for Iteration One. The goal of Iteration One is to provide the client with the ability to login and logout of the system. The disclaimer indemnifying OpenHack, and its developers will be implemented. The user will be able to see a list of all instances that are candidates for Chaos. The source code and executable will be delivered to the client at the end of this iteration.

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| CRITICAL TASK (ACTIVITIES) | **% COMPLETE** | **DURATION** | **START DATE** | **FINISH DATE** | **RESOURCES (MEMBERS)** |
| Connect To OpenStack | 25 % | 18 days | January 20, 2012 | February 7, 2012 | Phillip |
| Rewrite Chaos Monkey to Python | 0 % | 7 days | February 7, 2012 | February 14, 2012 | Phillip and Randy |
| Set Up Server | 100% | 3 days | January 17, 2012 | January 20, 2012 | Phillip and Randy |
| Test Cases written for User Stories | 100% | 2 day | January 26, 2012 | January 31, 2012 | DJ and Gerald |
| Meet With Client | 0% | 1 day | February 7, 2012 | February 7, 2012 | Whole Team |

**Work Completed**

The first activity that our team was able to complete was setting up a server on campus that would allow our team easy access in testing and developing OpenHack. At first we tried to get a Rackspace server from our client but we ran into too many problems dealing from getting access to there servers to Rackspace deleting and clearing old servers that we were going to use. Our developers were then able to get an old Radford Server from our Technology Department and set up the server to our uses and requirements. This allows us to have easier access to the server and we are able to maintain the server ourselves if something was to happen.

The second activity that was completed was the developing of test scripts for Iteration one user stories. The testers for our team developed previous tests created for Chaos Monkey by translating those test from C-sharp to python. These tests were then written into a test scripts that was compiled and executed. The final result from the execution of the test scripts would result in all test failing. Even though the test all failed we were able to understand more of Chaos Monkey and gained a better understanding of developing from C-sharp into python. The python version of Chaos Monkey is renamed to OpenHack to coincide with the OpenStack framework.

**Present Status**

As of today our testing is completed but developed has yet to begin because of complications with API commands for Openstack. Without the API commands the developers could not switch out the Amazons API commands with Openstack API commands.

**Work Remaining**

The first activity that needs to be complete before the rest of the critical tasks are complete is to meet with our client. A meeting with our client is critical in gaining the remaining knowledge in connecting to Openstack. What we need to accomplish with this meeting is to gain a better understanding of how to connect to Openstack, receive Openstack’s credentials to allow our team to login to the system, and find out the real intentions to weither or not the servers need to be suspend or terminated when OpenHack is executed. With the help of our client we then will be able to fully connect to OpenStack and begin developing OpenHack. The final piece of work dealing with the rewriting Chaos Monkey from C-sharp to python can finally begin only after the remaining activities have been completed. At the start of this semester we had to revise of plan due to insignificant time last semester and other constraints that did not allow our team to begin on time. Our Iterations as well as the user stories all had to be refactored and switch to allow our team to complete our project by February 14, 2012.

**Conclusion**

Up to this point our milestones for Iteration one are still feasible and are within range for this Iteration to be finished by February 14, 2012. With our tests already completed and with our meeting with our client to be held next week we are on track with more than 50% of Iteration one completed.

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|  | **Names of Group Members** | **Signatures of Group Members** |
| **1** | Michael D. Bristol II |  |
| **2** | William D. Whelchel II |  |
| **3** | Randy B. Akers |  |
| **4** | Philip M. Knouff |  |
| **5** | Gerald I. Ottman III |  |