Lab 11: Post-Lab Cybersecurity

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Lab 11: Post-Lab Activity

Visit the **benchmark portal (https://courses.cs.vt.edu/cs2114/portal)** and log in with your VT PID.

Click Login in the top right and go to Auth Only > My Submissions. Here you will find all your Web CAT submissions.

Find your latest submission and click on the "Graded" link. If you want another benchmark you can submit to Web CAT again.

When it is past your regular lab submission time, use the **POST LAB 11 resubmissions** on WebCAT.

Questions

1. Copy and paste the URL to the benchmark you are using for this post lab. (If you made multiple submissions, pick the one you want to use).

2. Consider plots 1 and 2. Interpret the behavior displayed in plot 2. Can you infer how long the miss penalty is in our setup?

(You should look at plot 3, but no answer is required.)

3. Consider plot 4. You should see a plateau in performance after each user has made their first request. Why does the performance plateau for this workload? Consider the number of users and number of requests.

4. Consider plot 5, which includes an adverse workload. Interpret the plots and describe the level of service our legitimate users will see under this workload!

5. Consider plot 6, which introduces an additional potential threat that may occur if the cache is maintaining larger values. Interpret the plot and describe the level of service legitimate users will see under this workload!

6. Overall, how *effective* is your LinkedKVStore implementation in ensuring the availability of the cache service? Justify your answer and identify the reasons under the different workload scenarios!

7. Overall, how *efficient* is your LinkedKVStore implementation in ensuring good performance of your cache service? Justify your answer and identify the reasons that affect performance! <u>Conclude whether a LinkedKVStore is or is not a suitable data structure for a cache service!</u>

Points   5

Submitting   a text entry box

Due	For	Available from	Until
Apr 8, 2017 at 6pm	Everyone	Apr 3, 2017 at 12am	-