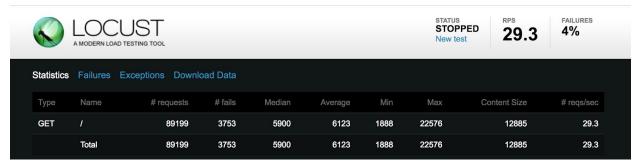
Load test on web servers:

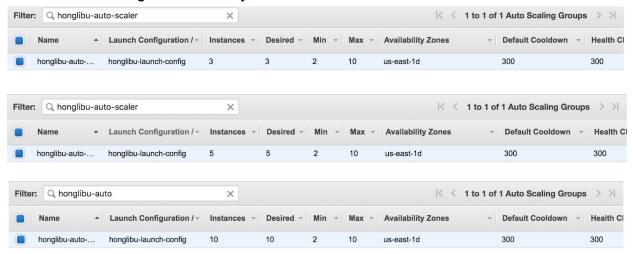
The instances incremented by 1 every 5 minutes. It's because the load balancer kept receiving high-load requests per minute. So the state of the alarm

"honglibu-web-scale-out" kept being "ALARM". And,I had set scale-out policy as "300 seconds to warm up". So the auto scaler would wait for 5 minutes before adding a new instance. When the instance number reached the maximum number of instances we set, the increment stopped.

Here is my locust screenshot when instance number reached the maximum number:



Below several screenshots show the stage when scaling out. At the beginning, two instances is running and ultimately, the instances reach 10.



After I stop Locust test, web farms start to scale in according to my 'honglibu-web-scale-in' policy. In this policy i defined the threshold as 'TargetResponseTime < 0.05 for 1 datapoint within 1 minute'. So if I stop the load test or reset the load test to be in low request workload(e.g. 1 user, at 1/sec), web response time will take less than 50ms, then the ELB will coordinate Auto Scaling group to terminated instances by 1 every 5 minutes. Of course, if consider server latency, the scale in alarm might be bounce between 'ok' and 'alarm'.

Load test on anntools servers:

Here is my screenshots of anntools auto scaling group when i was running autotest script in my local machine. As the anntools alarm, when i continuously send job requests, the sum of job in 15 minutes will reach 30(Threshold). Consequently, the anntools farm will scale out by increasing 1 instance per 5 minutes. When I stopped, the message received will be decreasing, and then the anntools farm will scale in. Finally, there will still have two instances running.

