**Automation Script**

1. Copy your automation script from part C here (text only):
2. Screenshot showing that the automation script executes without errors (from part D):

**Diagnostic Report**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Data Description** | **Optimal Range** | **Data and Results** | **Automation Script Used to Extract Data (text only)** | **Screenshot of Result of Script** |
| Time to scale from 1 cluster to 200 clusters  (60,000 advertisements expected at peak global usage) based on 300 satellites per cluster (subject to change based on load testing) | 15–30 minutes for each cluster |  |  |  |
| Time to register a cluster and then quench connections to the load balancer, taking the cluster off-line (start-up, operation, shutdown) | 1 minute per connection quench, start of cluster launch, and part of time to scale cluster, can be tracked separately as a quench |  |  |  |
| Peak load averages per system at 200, and 300, satellites per cluster | 60% of CPU triggers new cluster launch; if reaching core load at 200 satellites, launch new cluster on 60% CPU loads |  |  |  |
| Write times to the diagnostic data drive | <30 milliseconds |  |  |  |
| Pull time from the game instances (1 Satellite Terminal Server, 1 Web Server, 1 Database, and 1 time server) and initialization time | Part of cluster launch 15–30 minutes |  |  |  |
| \*Average messaging service (queue) time | <1 minute in queue |  |  |  |
| Average latency for the Time server | <30 milliseconds |  |  |  |
| Average latency of each cluster | <30 milliseconds |  |  |  |
| Network data in and out for each cluster | <1 second |  |  |  |
| Overall CPU utilization of the environment for each cluster | Not >60% |  |  |  |
| \*Diagnostic data able to be written by the automation to the correct cloud bucket storage space | Show read/write times <1 second |  |  |  |
| Scaled Satellite Cluster latency | <30 milliseconds |  |  |  |
| Scaled Satellite Cluster latency between gateway/scaled clusters and core | <30 milliseconds |  |  |  |
| Scaled Satellite Cluster latency between scaled clusters and environment | <30 milliseconds |  |  |  |
| Pull time from the scaled clusters and initialization time | 15–30 minutes for each cluster |  |  |  |

*\* Note : If using a desktop-based client, such as Docker or Vagrant, and not the AWS solution, the Data Description aspects “Average messaging service (queue) time” and “Diagnostic data able to be written by the automation to the correct cloud bucket storage space” should be populated with “N/A”. If proposing an AWS solution, these datasets will be populated.*