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# 1. Executive Summary

The Performance Testing and Engineering group executed the performance and volume(P&V) testing on JpetStore release in QA(NA to Demo App) environment post new build introduction to platform. This P&V testing was executed to compare the test result against the baseline figures.

* The Jpet store Test Plan documentation is prepared before the P&V test to track the risks associated with it.
* The Jpet store Work Load Model documentation is prepared to design the scenario and generate the anticipated load on different modules of Jpet Store application.
* 2 rounds of test is executed and completed successfully with minimal test errors which constitutes to less than 1% which is acceptable.
* An expected transaction per hour was closely achieved for all scenarios.
* 95th percentile response time of all scenario transactions are within SLA of 3 sec’s.
* Platform was warmed up before the Load tests to check the connectivity and readiness of application.
* Client machine resource usage in terms of CPU and Memory was within 6% and 70% respectively.
* As this a Demo application and active on production environment so we don’t have access to its QA environment to monitor the real time server utilization.
* We observed some CPU spikes in Baseline test in client machine which lasted for couple of sec’s and the max was at 70%.However it is not touching the threshold limit.
* We observed some CPU spikes in Load test in client machine which lasted for couple of sec’s and the max was at 30%.However it is not touching the threshold limit.

**Test Timings**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Tests | Date | From | To | Duration |
| JpetStore Baseline | Load Test | 16/07/24 | 4:08 PM IST | 5:08 PM IST | 1 Hour |
| JpetStore Actual | Load Test | 16/07/24 | 5:30 PM IST | 6:30 PM IST | 1 Hour |

# 2. Recommendations

It is recommended to:

1. Ensure the transaction load is as mentioned and considered for QA tests. Any variation/volume increase, platform would need to be re-tested.
2. The transaction which is reported high response time need to be analyzed/tuned and monitored in production.(NA to Demo Apps like JpetStore)
3. P&V team recommends the application team to monitor the transaction growth/workload on periodic basis and update P&V team if any changes to what is been tested in this test.
4. P&V team recommends to monitor the application behaviour, server resource utilization and the database metrics of all servers in production post deployment(NA to Demo Apps like JpetStore)

# 3. Test Objectives

The main objective of this P&V testing is to provide business and technology stakeholders with information validating to :-

* Ensure if any major performance bottleneck does not exist and the overall results are comparable against the baseline test results.
* Ensure all JpetStore transactions are successful and has not degraded the baseline and SLAs.
* All transaction response time must be less than 5 seconds.
* All server resource usage should be within threshold of 80%.
* Response times should be consistent from previous JpetStore release.

|  |  |  |  |
| --- | --- | --- | --- |
| **Server Type** | **CPU Utilization** | **Memory Utilization** | **Disk Utilization** |
| Client Computer | Average should be below 80%.Spikes(>90%) should not extend beyond 2 mins | System memory expected to be below 80% | Average should be below 80% |
| App Server(NA) |
| JVM Parameter(NA) |
| Database(NA) |

## 3.1 Test Volumes and Workload

The following volumetric are considered for test executions. Please check NFR,Test Plan and Work Load Model for more details.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Type** | **Scenario Name** | **Total Users** | **No of Transactions per Scenario(A)** | **Volumes per Hour for each scenario(B)** | **Net TPH(A\*B)** |
| UI | Shop Fish | 6 | 9 | 233 | 2097 |
| UI | Shop Dogs | 6 | 9 | 233 | 2097 |
| UI | Shop Reptiles | 6 | 9 | 233 | 2097 |
| UI | Shop Cats | 6 | 9 | 233 | 2097 |
| UI | Shop Birds | 6 | 9 | 233 | 2097 |
|  |  |  |  | **Total TPH** | **10485** |

# 4. Test Infrastructure

## 4.1 P&V Test Tools

* Apache Jmeter 5.6.3
* Monitoring of App servers and Database server through Dynatrace(Not applicable to Demo App like JpetStore)
* Performon Windows OS native monitoring

## 4.2 Server Build & Configuration

Given below are the P&V Application server and Database servers involved:-

**Note: The below servers are given for illustrative purpose only and applicable to real time applications in an project and not applicable to Demo App like JpetStore**

|  |  |
| --- | --- |
| Server Names | IP |
| JpetStore App server1 | pdq8845.unix.jpet |
| JpetStore App server2 | pdq8846.unix.jpet |
| Database Server | pdb : sderfn90  db scan name : sderg1gt-scan.qa.db.jpet  host name: sder01l.unix.jpet |

# 5. Test Results

## 5.1 Test1- Baseline Test

**Test Time: 16/07/2024 04:08 PM – 16/07/2024 05:08 PM(IST)**

**Steady Load Duration: 1 Hour**

Concurrent Users: 30

Total Passed Requests: 10,179

Total Failed Requests: 4

Error/Failure Rate: 0.04%

**\*Response times are in seconds\***

* In Baseline Load test we have closely achieved the required volume for Jpet Store

**Observations:-**

* There are few errors observed in Baseline Test and the count is at 4 nos. However failure rate is below 1% which is acceptable.
* Hourly transactions was closely achieved for all scenarios.This 1st round of Test is Baseline for 2nd round of Load Test.
* We observed few spikes over the test period lasted for couple of seconds.
* 95th percentile response of “SC01\_TR08\_Jpet\_Store\_Confirm Info and Continue” transaction is at 1.9 sec’s.
* 95th percentile response of “SC01\_TR05\_Jpet\_Store\_Click Add to Cart Large Angel Fish” transaction is at 1.7 sec’s.
* 95th percentile response of “SC02\_TR08\_Jpet\_Store\_Confirm Info and Continue” transaction is at 1.9 sec’s.
* 95th percentile response of “SC02\_TR05\_Jpet\_Store\_Click Add to Cart Male Adult BullDog” transaction is at 1.8 sec’s.
* 95th percentile response of “SC03\_TR08\_Jpet\_Store\_Confirm Info and Continue” transaction is at 2 sec’s.
* 95th percentile response of “SC03\_TR05\_Jpet\_Store\_Click Add to Cart Venomless Rattlesnake” transaction is at 2 sec’s.
* 95th percentile response of “SC04\_TR08\_Jpet\_Store\_Confirm Info and Continue” transaction is at 1.7 sec’s.
* 95th percentile response of “SC04\_TR05\_Jpet\_Store\_Click Add to Cart Tailless Manx” transaction is at 1.7 sec’s.
* 95th percentile response of “SC05\_TR08\_Jpet\_Store\_Confirm Info and Continue” transaction is at 2 sec’s.
* 95th percentile response of “SC05\_TR05\_Jpet\_Store\_Click Add to Cart Adult Male Amazon Parrot” transaction is at 1.7 sec’s.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Transactions** | **SLA** | **# Samples/TPH** | **Average** | **90% Line** | **95% Line** | **Min** | **Max** | **Error %** | **Throughput per Sec** |
| SC01\_TR01\_Jpet\_Store\_Launch | 3 | 228 | 1.546 | 1.539 | 1.572 | 0.89 | 22.5 | 0.00% | 0.06354 |
| SC01\_TR02\_Jpet\_Store\_Login | 3 | 228 | 2.13 | 2.196 | 2.223 | 1.94 | 6.5 | 0.00% | 0.06354 |
| SC01\_TR03\_Jpet\_Store\_Click on Fish | 3 | 227 | 0.534 | 0.563 | 0.589 | 0.49 | 1.3 | 0.00% | 0.06384 |
| SC01\_TR04\_Jpet\_Store\_Click onAngel Fish | 3 | 227 | 0.542 | 0.571 | 0.59 | 0.5 | 0.71 | 0.00% | 0.06384 |
| SC01\_TR05\_Jpet\_Store\_Click Add to Cart Large Angel Fish | 3 | 227 | 1.852 | 1.645 | 1.755 | 1.45 | 23.6 | 0.00% | 0.06376 |
| SC01\_TR06\_Jpet\_Store\_Proceed to Checkout | 3 | 225 | 0.533 | 0.561 | 0.584 | 0.49 | 0.71 | 0.00% | 0.06364 |
| SC01\_TR07\_Jpet\_Store\_Enter Payment Details and Billing Address and Click Continue | 3 | 225 | 2.017 | 1.568 | 1.648 | 0.49 | 22.6 | 0.00% | 0.06362 |
| SC01\_TR08\_Jpet\_Store\_Confirm Info and Continue | 3 | 225 | 1.725 | 1.689 | 1.998 | 0 | 23.5 | 0.44% | 0.06373 |
| SC01\_TR09\_Jpet\_Store\_SignOut | 3 | 222 | 1.583 | 1.651 | 1.686 | 0 | 2.76 | 0.00% | 0.06344 |
| SC02\_TR01\_Jpet\_Store\_Launch | 3 | 227 | 2.023 | 1.541 | 1.602 | 0.86 | 22.8 | 0.00% | 0.06343 |
| SC02\_TR02\_Jpet\_Store\_Login | 3 | 227 | 2.128 | 2.221 | 2.247 | 1.98 | 4.71 | 0.00% | 0.06319 |
| SC02\_TR03\_Jpet\_Store\_Click on Dogs | 3 | 227 | 0.533 | 0.569 | 0.597 | 0 | 0.76 | 0.00% | 0.06366 |
| SC02\_TR04\_Jpet\_Store\_Click on BullDog | 3 | 226 | 0.545 | 0.572 | 0.61 | 0.49 | 0.71 | 0.00% | 0.06338 |
| SC02\_TR05\_Jpet\_Store\_Click Add to Cart Male Adult BullDog | 3 | 226 | 1.695 | 1.695 | 1.89 | 0 | 23.6 | 0.00% | 0.0639 |
| SC02\_TR06\_Jpet\_Store\_Proceed to Checkout | 3 | 225 | 0.538 | 0.575 | 0.619 | 0.48 | 1.1 | 0.00% | 0.06375 |
| SC02\_TR07\_Jpet\_Store\_Enter Payment Details and Billing Address and Click Continue | 3 | 225 | 1.59 | 1.553 | 1.605 | 0.49 | 22.6 | 0.00% | 0.06373 |
| SC02\_TR08\_Jpet\_Store\_Confirm Info and Continue | 3 | 225 | 1.836 | 1.715 | 1.981 | 1.46 | 23.7 | 0.00% | 0.06371 |
| SC02\_TR09\_Jpet\_Store\_SignOut | 3 | 224 | 1.588 | 1.649 | 1.671 | 0 | 5.97 | 0.00% | 0.06376 |
| SC03\_TR01\_Jpet\_Store\_Launch | 3 | 228 | 1.795 | 1.539 | 1.589 | 0 | 22.6 | 0.00% | 0.06452 |
| SC03\_TR02\_Jpet\_Store\_Login | 3 | 227 | 2.117 | 2.213 | 2.261 | 1.95 | 2.9 | 0.00% | 0.06399 |
| SC03\_TR03\_Jpet\_Store\_Click on Reptiles | 3 | 227 | 0.532 | 0.568 | 0.6 | 0.49 | 0.73 | 0.00% | 0.06423 |
| SC03\_TR04\_Jpet\_Store\_Click on Rattlesnake | 3 | 227 | 0.548 | 0.579 | 0.627 | 0.49 | 1.09 | 0.00% | 0.06423 |
| SC03\_TR05\_Jpet\_Store\_Click Add to Cart Venomless Rattlesnake | 3 | 227 | 1.681 | 1.66 | 1.685 | 1.48 | 23.5 | 0.00% | 0.0641 |
| SC03\_TR06\_Jpet\_Store\_Proceed to Checkout | 3 | 227 | 0.536 | 0.563 | 0.59 | 0.49 | 1.02 | 0.00% | 0.06423 |
| SC03\_TR07\_Jpet\_Store\_Enter Payment Details and Billing Address and Click Continue | 3 | 227 | 1.625 | 1.545 | 1.597 | 0.51 | 22.6 | 0.00% | 0.06421 |
| SC03\_TR08\_Jpet\_Store\_Confirm Info and Continue | 3 | 227 | 1.646 | 1.702 | 2.019 | 0 | 8.04 | 0.44% | 0.06439 |
| SC03\_TR09\_Jpet\_Store\_SignOut | 3 | 224 | 1.613 | 1.659 | 1.693 | 0 | 6.02 | 0.00% | 0.06381 |
| SC04\_TR01\_Jpet\_Store\_Launch | 3 | 228 | 2.05 | 1.585 | 1.704 | 0.87 | 22.7 | 0.00% | 0.06332 |
| SC04\_TR02\_Jpet\_Store\_Login | 3 | 227 | 2.134 | 2.229 | 2.283 | 1.96 | 3.2 | 0.00% | 0.06367 |
| SC04\_TR03\_Jpet\_Store\_Click on Cats | 3 | 227 | 0.538 | 0.568 | 0.616 | 0.48 | 1.15 | 0.00% | 0.06392 |
| SC04\_TR04\_Jpet\_Store\_Click on Manx | 3 | 227 | 0.55 | 0.588 | 0.636 | 0.5 | 0.93 | 0.00% | 0.06392 |
| SC04\_TR05\_Jpet\_Store\_Click Add to Cart Tailless Manx | 3 | 227 | 1.604 | 1.689 | 1.763 | 1.46 | 2.5 | 0.00% | 0.06379 |
| SC04\_TR06\_Jpet\_Store\_Proceed to Checkout | 3 | 227 | 0.534 | 0.559 | 0.621 | 0 | 1.08 | 0.00% | 0.06439 |
| SC04\_TR07\_Jpet\_Store\_Enter Payment Details and Billing Address and Click Continue | 3 | 224 | 1.813 | 1.562 | 1.629 | 0.51 | 22.6 | 0.00% | 0.06352 |
| SC04\_TR08\_Jpet\_Store\_Confirm Info and Continue | 3 | 224 | 1.633 | 1.696 | 1.743 | 0.57 | 8.03 | 0.45% | 0.0635 |
| SC04\_TR09\_Jpet\_Store\_SignOut | 3 | 222 | 1.602 | 1.657 | 1.689 | 1.48 | 6 | 0.00% | 0.0632 |
| SC05\_TR01\_Jpet\_Store\_Launch | 3 | 229 | 1.719 | 1.529 | 1.618 | 0.88 | 22.8 | 0.00% | 0.06387 |
| SC05\_TR02\_Jpet\_Store\_Login | 3 | 229 | 2.254 | 2.217 | 2.281 | 1.93 | 20 | 0.00% | 0.06382 |
| SC05\_TR03\_Jpet\_Store\_Click on Birds | 3 | 227 | 0.532 | 0.557 | 0.567 | 0.48 | 0.69 | 0.00% | 0.06368 |
| SC05\_TR04\_Jpet\_Store\_Click on Amazon Parrot | 3 | 227 | 0.55 | 0.593 | 0.62 | 0 | 1.07 | 0.00% | 0.06441 |
| SC05\_TR05\_Jpet\_Store\_Click Add to Cart Adult Male Amazon Parrot | 3 | 226 | 1.688 | 1.673 | 1.717 | 1.46 | 23.5 | 0.00% | 0.064 |
| SC05\_TR06\_Jpet\_Store\_Proceed to Checkout | 3 | 226 | 0.531 | 0.555 | 0.573 | 0.48 | 0.65 | 0.00% | 0.06412 |
| SC05\_TR07\_Jpet\_Store\_Enter Payment Details and Billing Address and Click Continue | 3 | 226 | 1.637 | 1.549 | 1.583 | 0.5 | 22.6 | 0.00% | 0.06411 |
| SC05\_TR08\_Jpet\_Store\_Confirm Info and Continue | 3 | 226 | 1.676 | 1.728 | 2.092 | 0.56 | 8.04 | 0.44% | 0.06408 |
| SC05\_TR09\_Jpet\_Store\_SignOut | 3 | 223 | 1.67 | 1.64 | 1.692 | 0 | 23.7 | 0.00% | 0.06387 |
| TOTAL |  | 10179 | 1.372 | 2.061 | 2.138 | 0 | 23.7 | 0.04% | 2.82679 |

## 5.2 Test2- Load Test

**Test Time: 16/07/2024 05:30 PM – 16/07/2024 06:30 PM(IST)**

**Steady Load Duration: 1 Hour**

Concurrent Users: 30

Total Passed Requests: 10,265

Total Failed Requests: 16

Error/Failure Rate: 0.16%

**\*Response times are in seconds\***

* In Load test we have closely achieved the required volume for Jpet Store

**Observations:-**

* There are few errors observed in Baseline Test and the count is at 14 nos. However failure rate is below 1% which is acceptable.
* Hourly transactions was closely achieved for all scenarios.
* We observed few spikes over the test period lasted for couple of seconds.
* 95th percentile response of “SC01\_TR08\_Jpet\_Store\_Confirm Info and Continue” transaction is at 2.4 sec’s.
* 95th percentile response of “SC01\_TR05\_Jpet\_Store\_Click Add to Cart Large Angel Fish” transaction is at 1.9 sec’s.
* 95th percentile response of “SC02\_TR08\_Jpet\_Store\_Confirm Info and Continue” transaction is at 2.1 sec’s.
* 95th percentile response of “SC02\_TR05\_Jpet\_Store\_Click Add to Cart Male Adult BullDog” transaction is at 1.7 sec’s.
* 95th percentile response of “SC03\_TR08\_Jpet\_Store\_Confirm Info and Continue” transaction is at 2.4 sec’s.
* 95th percentile response of “SC03\_TR05\_Jpet\_Store\_Click Add to Cart Venomless Rattlesnake” transaction is at 1.6 sec’s.
* 95th percentile response of “SC04\_TR08\_Jpet\_Store\_Confirm Info and Continue” transaction is at 2.1 sec’s.
* 95th percentile response of “SC04\_TR05\_Jpet\_Store\_Click Add to Cart Tailless Manx” transaction is at 1.6 sec’s.
* 95th percentile response of “SC05\_TR08\_Jpet\_Store\_Confirm Info and Continue” transaction is at 2.4 sec’s.
* 95th percentile response of “SC05\_TR05\_Jpet\_Store\_Click Add to Cart Adult Male Amazon Parrot” transaction is at 1.7 sec’s.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Transactions** | **SLA** | **# Samples/TPH** | **Average** | **90% Line** | **95% Line** | **Min** | **Max** | **Error %** | **Throughput Per Sec** |
| SC01\_TR01\_Jpet\_Store\_Launch | 3 | 230 | 1.75 | 1.499 | 1.544 | 0.868 | 22.525 | 0.00% | 0.06408 |
| SC01\_TR02\_Jpet\_Store\_Login | 3 | 230 | 2.123 | 2.197 | 2.563 | 1.737 | 6.494 | 0.44% | 0.06409 |
| SC01\_TR03\_Jpet\_Store\_Click on Fish | 3 | 228 | 0.525 | 0.555 | 0.569 | 0.484 | 1.024 | 0.00% | 0.06434 |
| SC01\_TR04\_Jpet\_Store\_Click onAngel Fish | 3 | 228 | 0.536 | 0.568 | 0.597 | 0.491 | 1.116 | 0.00% | 0.06434 |
| SC01\_TR05\_Jpet\_Store\_Click Add to Cart Large Angel Fish | 3 | 228 | 1.58 | 1.653 | 1.955 | 1.447 | 2.538 | 0.00% | 0.06421 |
| SC01\_TR06\_Jpet\_Store\_Proceed to Checkout | 3 | 228 | 0.527 | 0.56 | 0.592 | 0.484 | 0.67 | 0.00% | 0.06434 |
| SC01\_TR07\_Jpet\_Store\_Enter Payment Details and Billing Address and Click Continue | 3 | 228 | 1.392 | 1.489 | 1.546 | 0 | 22.605 | 0.00% | 0.06442 |
| SC01\_TR08\_Jpet\_Store\_Confirm Info and Continue | 3 | 227 | 1.972 | 1.988 | 2.479 | 0 | 23.52 | 1.32% | 0.06427 |
| SC01\_TR09\_Jpet\_Store\_SignOut | 3 | 220 | 1.567 | 1.647 | 1.691 | 1.444 | 2.127 | 0.00% | 0.06286 |
| SC02\_TR01\_Jpet\_Store\_Launch | 3 | 232 | 1.561 | 1.493 | 1.591 | 0.832 | 22.633 | 0.00% | 0.06465 |
| SC02\_TR02\_Jpet\_Store\_Login | 3 | 232 | 2.1 | 2.171 | 2.196 | 1.918 | 6.537 | 0.00% | 0.06464 |
| SC02\_TR03\_Jpet\_Store\_Click on Dogs | 3 | 231 | 0.522 | 0.56 | 0.578 | 0 | 0.724 | 0.43% | 0.06478 |
| SC02\_TR04\_Jpet\_Store\_Click on BullDog | 3 | 229 | 0.536 | 0.573 | 0.61 | 0.226 | 1.027 | 0.44% | 0.06422 |
| SC02\_TR05\_Jpet\_Store\_Click Add to Cart Male Adult BullDog | 3 | 228 | 1.65 | 1.614 | 1.728 | 0 | 23.452 | 0.00% | 0.06407 |
| SC02\_TR06\_Jpet\_Store\_Proceed to Checkout | 3 | 227 | 0.522 | 0.558 | 0.581 | 0 | 1.043 | 0.00% | 0.06433 |
| SC02\_TR07\_Jpet\_Store\_Enter Payment Details and Billing Address and Click Continue | 3 | 225 | 1.389 | 1.497 | 1.554 | 0.487 | 22.52 | 0.00% | 0.06376 |
| SC02\_TR08\_Jpet\_Store\_Confirm Info and Continue | 3 | 225 | 1.787 | 2.009 | 2.136 | 0.544 | 23.57 | 0.44% | 0.06375 |
| SC02\_TR09\_Jpet\_Store\_SignOut | 3 | 223 | 1.549 | 1.641 | 1.676 | 0.214 | 2.151 | 0.45% | 0.06373 |
| SC03\_TR01\_Jpet\_Store\_Launch | 3 | 232 | 1.605 | 1.516 | 1.59 | 0.861 | 22.529 | 0.00% | 0.06443 |
| SC03\_TR02\_Jpet\_Store\_Login | 3 | 231 | 2.105 | 2.171 | 2.22 | 1.932 | 6.561 | 0.00% | 0.06436 |
| SC03\_TR03\_Jpet\_Store\_Click on Reptiles | 3 | 230 | 0.521 | 0.549 | 0.564 | 0 | 1.037 | 0.00% | 0.06451 |
| SC03\_TR04\_Jpet\_Store\_Click on Rattlesnake | 3 | 228 | 0.535 | 0.569 | 0.598 | 0.483 | 1.119 | 0.00% | 0.06395 |
| SC03\_TR05\_Jpet\_Store\_Click Add to Cart Venomless Rattlesnake | 3 | 228 | 1.638 | 1.619 | 1.679 | 0 | 23.478 | 0.00% | 0.06428 |
| SC03\_TR06\_Jpet\_Store\_Proceed to Checkout | 3 | 227 | 0.525 | 0.548 | 0.572 | 0.483 | 1.054 | 0.00% | 0.06413 |
| SC03\_TR07\_Jpet\_Store\_Enter Payment Details and Billing Address and Click Continue | 3 | 227 | 1.101 | 1.487 | 1.532 | 0.482 | 22.455 | 0.00% | 0.06411 |
| SC03\_TR08\_Jpet\_Store\_Confirm Info and Continue | 3 | 226 | 1.791 | 2.033 | 2.444 | 0.563 | 23.512 | 0.44% | 0.06429 |
| SC03\_TR09\_Jpet\_Store\_SignOut | 3 | 225 | 1.654 | 1.639 | 1.669 | 1.32 | 23.485 | 0.44% | 0.06408 |
| SC04\_TR01\_Jpet\_Store\_Launch | 3 | 232 | 1.463 | 1.487 | 1.537 | 0.853 | 22.572 | 0.00% | 0.06453 |
| SC04\_TR02\_Jpet\_Store\_Login | 3 | 232 | 2.12 | 2.163 | 2.205 | 0 | 13.436 | 0.00% | 0.06457 |
| SC04\_TR03\_Jpet\_Store\_Click on Cats | 3 | 230 | 0.519 | 0.545 | 0.556 | 0 | 0.925 | 0.00% | 0.06449 |
| SC04\_TR04\_Jpet\_Store\_Click on Manx | 3 | 229 | 0.536 | 0.568 | 0.6 | 0.485 | 1.012 | 0.00% | 0.06421 |
| SC04\_TR05\_Jpet\_Store\_Click Add to Cart Tailless Manx | 3 | 229 | 1.544 | 1.608 | 1.639 | 0 | 2.511 | 0.00% | 0.06478 |
| SC04\_TR06\_Jpet\_Store\_Proceed to Checkout | 3 | 228 | 0.53 | 0.56 | 0.602 | 0.477 | 1.112 | 0.00% | 0.06462 |
| SC04\_TR07\_Jpet\_Store\_Enter Payment Details and Billing Address and Click Continue | 3 | 228 | 1.391 | 1.484 | 1.55 | 0.478 | 22.551 | 0.00% | 0.06462 |
| SC04\_TR08\_Jpet\_Store\_Confirm Info and Continue | 3 | 228 | 1.676 | 2.011 | 2.129 | 0.516 | 8.034 | 1.32% | 0.0646 |
| SC04\_TR09\_Jpet\_Store\_SignOut | 3 | 224 | 1.559 | 1.644 | 1.667 | 0 | 2.17 | 0.00% | 0.0639 |
| SC05\_TR01\_Jpet\_Store\_Launch | 3 | 231 | 1.574 | 1.484 | 1.561 | 0 | 22.65 | 0.00% | 0.06423 |
| SC05\_TR02\_Jpet\_Store\_Login | 3 | 230 | 2.078 | 2.186 | 2.247 | 0 | 2.703 | 0.00% | 0.06453 |
| SC05\_TR03\_Jpet\_Store\_Click on Birds | 3 | 229 | 0.523 | 0.547 | 0.577 | 0.484 | 1.007 | 0.00% | 0.0645 |
| SC05\_TR04\_Jpet\_Store\_Click on Amazon Parrot | 3 | 229 | 0.538 | 0.58 | 0.619 | 0.485 | 1.091 | 0.00% | 0.0645 |
| SC05\_TR05\_Jpet\_Store\_Click Add to Cart Adult Male Amazon Parrot | 3 | 229 | 1.554 | 1.605 | 1.741 | 1.432 | 2.466 | 0.00% | 0.06437 |
| SC05\_TR06\_Jpet\_Store\_Proceed to Checkout | 3 | 229 | 0.532 | 0.572 | 0.6 | 0 | 2.039 | 0.00% | 0.0646 |
| SC05\_TR07\_Jpet\_Store\_Enter Payment Details and Billing Address and Click Continue | 3 | 228 | 1.509 | 1.503 | 1.538 | 0 | 22.54 | 0.44% | 0.0644 |
| SC05\_TR08\_Jpet\_Store\_Confirm Info and Continue | 3 | 225 | 1.853 | 2.037 | 2.402 | 0 | 23.634 | 0.89% | 0.06396 |
| SC05\_TR09\_Jpet\_Store\_SignOut | 3 | 222 | 1.551 | 1.629 | 1.655 | 1.444 | 2.137 | 0.00% | 0.06318 |
| TOTAL |  | 10265 | 1.291 | 2.027 | 2.102 | 0 | 23.634 | 0.16% | 2.85082 |

## 5.3 Result Comparison

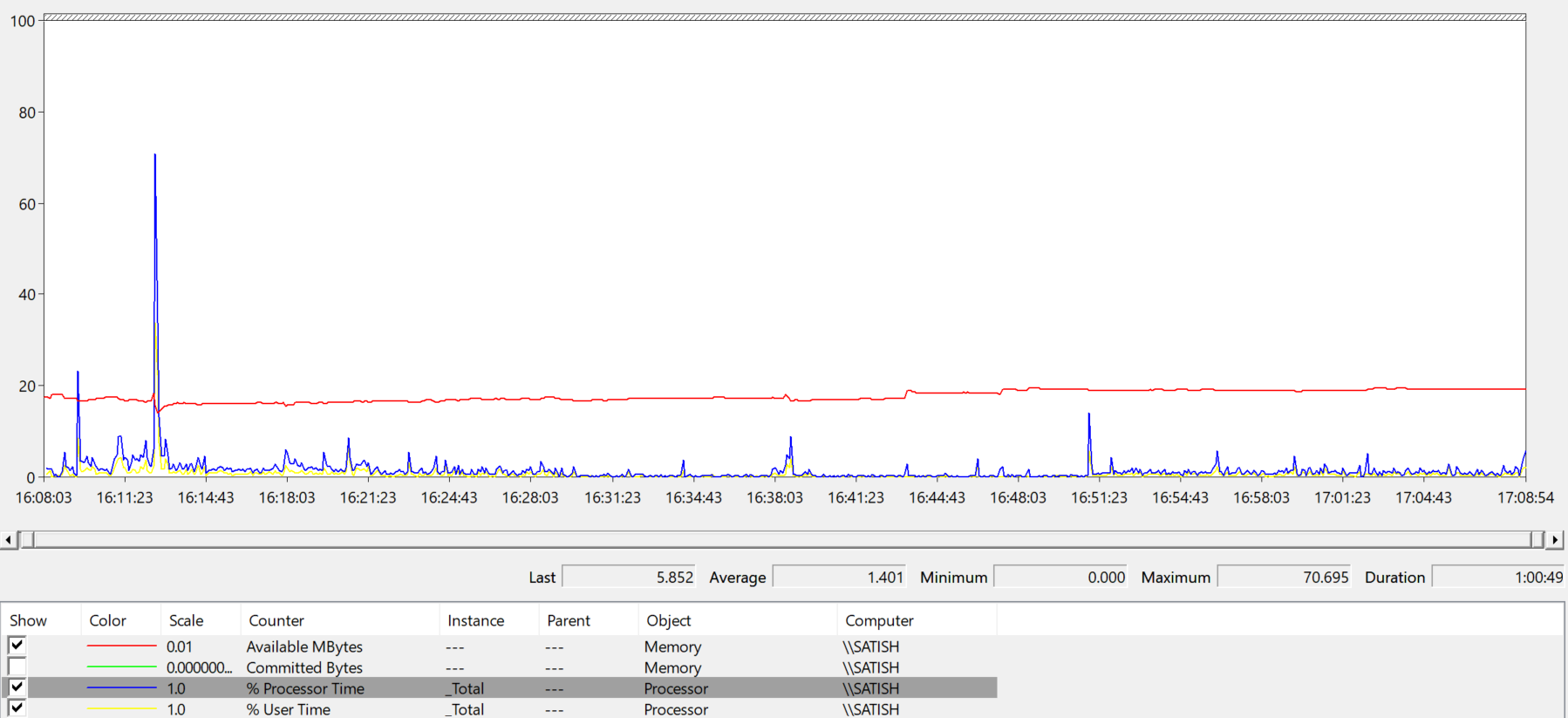
|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Transactions** | **95% Line Baseline** | **95% Line Load** | **TPH Baseline** | **TPH Load** | **TPH Difference** | **TPH% Difference** |
| SC01\_TR03\_Jpet\_Store\_Click on Fish | 0.589 | 0.569 | 227 | 228 | 1 | 0% |
| SC01\_TR04\_Jpet\_Store\_Click onAngel Fish | 0.59 | 0.597 | 227 | 228 | 1 | 0% |
| SC01\_TR05\_Jpet\_Store\_Click Add to Cart Large Angel Fish | 1.755 | 1.955 | 227 | 228 | 1 | 0% |
| SC01\_TR06\_Jpet\_Store\_Proceed to Checkout | 0.584 | 0.592 | 225 | 228 | 3 | 1% |
| SC01\_TR07\_Jpet\_Store\_Enter Payment Details and Billing Address and Click Continue | 1.648 | 1.546 | 225 | 228 | 3 | 1% |
| SC01\_TR08\_Jpet\_Store\_Confirm Info and Continue | 1.998 | 2.479 | 225 | 227 | 2 | 1% |
| SC02\_TR03\_Jpet\_Store\_Click on Dogs | 0.597 | 0.578 | 227 | 231 | 4 | 2% |
| SC02\_TR04\_Jpet\_Store\_Click on BullDog | 0.61 | 0.61 | 226 | 229 | 3 | 1% |
| SC02\_TR05\_Jpet\_Store\_Click Add to Cart Male Adult BullDog | 1.89 | 1.728 | 226 | 228 | 2 | 1% |
| SC02\_TR06\_Jpet\_Store\_Proceed to Checkout | 0.619 | 0.581 | 225 | 227 | 2 | 1% |
| SC02\_TR07\_Jpet\_Store\_Enter Payment Details and Billing Address and Click Continue | 1.605 | 1.554 | 225 | 225 | 0 | 0% |
| SC02\_TR08\_Jpet\_Store\_Confirm Info and Continue | 1.981 | 2.136 | 225 | 225 | 0 | 0% |
| SC03\_TR03\_Jpet\_Store\_Click on Reptiles | 0.6 | 0.564 | 227 | 230 | 3 | 1% |
| SC03\_TR04\_Jpet\_Store\_Click on Rattlesnake | 0.627 | 0.598 | 227 | 228 | 1 | 0% |
| SC03\_TR05\_Jpet\_Store\_Click Add to Cart Venomless Rattlesnake | 1.685 | 1.679 | 227 | 228 | 1 | 0% |
| SC03\_TR06\_Jpet\_Store\_Proceed to Checkout | 0.59 | 0.572 | 227 | 227 | 0 | 0% |
| SC03\_TR07\_Jpet\_Store\_Enter Payment Details and Billing Address and Click Continue | 1.597 | 1.532 | 227 | 227 | 0 | 0% |
| SC03\_TR08\_Jpet\_Store\_Confirm Info and Continue | 2.019 | 2.444 | 227 | 226 | -1 | 0% |
| SC04\_TR03\_Jpet\_Store\_Click on Cats | 0.616 | 0.556 | 227 | 230 | 3 | 1% |
| SC04\_TR04\_Jpet\_Store\_Click on Manx | 0.636 | 0.6 | 227 | 229 | 2 | 1% |
| SC04\_TR05\_Jpet\_Store\_Click Add to Cart Tailless Manx | 1.763 | 1.639 | 227 | 229 | 2 | 1% |
| SC04\_TR06\_Jpet\_Store\_Proceed to Checkout | 0.621 | 0.602 | 227 | 228 | 1 | 0% |
| SC04\_TR07\_Jpet\_Store\_Enter Payment Details and Billing Address and Click Continue | 1.629 | 1.55 | 224 | 228 | 4 | 2% |
| SC04\_TR08\_Jpet\_Store\_Confirm Info and Continue | 1.743 | 2.129 | 224 | 228 | 4 | 2% |
| SC05\_TR03\_Jpet\_Store\_Click on Birds | 0.567 | 0.577 | 227 | 229 | 2 | 1% |
| SC05\_TR04\_Jpet\_Store\_Click on Amazon Parrot | 0.62 | 0.619 | 227 | 229 | 2 | 1% |
| SC05\_TR05\_Jpet\_Store\_Click Add to Cart Adult Male Amazon Parrot | 1.717 | 1.741 | 226 | 229 | 3 | 1% |
| SC05\_TR06\_Jpet\_Store\_Proceed to Checkout | 0.573 | 0.6 | 226 | 229 | 3 | 1% |
| SC05\_TR07\_Jpet\_Store\_Enter Payment Details and Billing Address and Click Continue | 1.583 | 1.538 | 226 | 228 | 2 | 1% |
| SC05\_TR08\_Jpet\_Store\_Confirm Info and Continue | 2.092 | 2.402 | 226 | 225 | -1 | 0% |

## 5.4 TPH Comparison

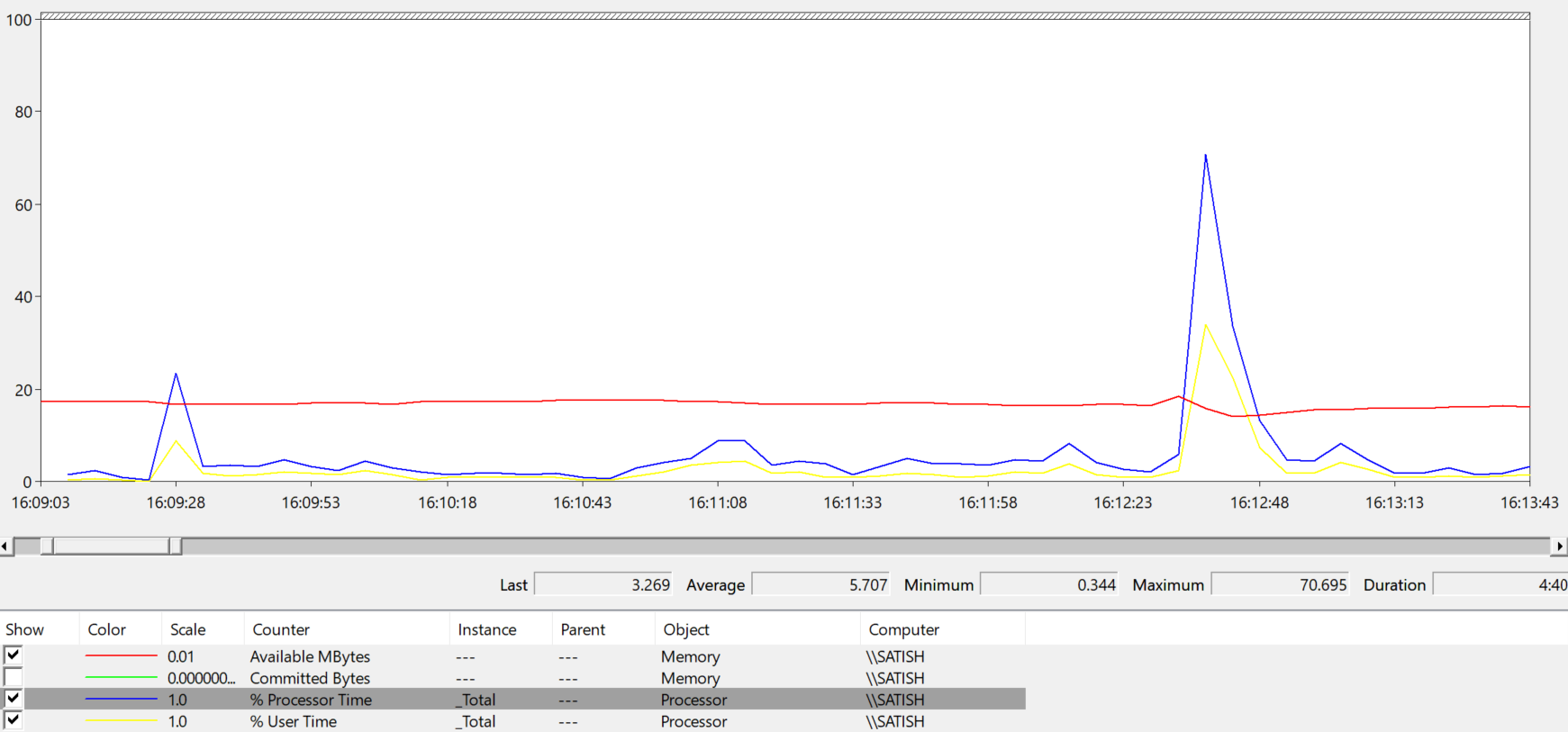
|  |  |  |  |
| --- | --- | --- | --- |
| Scenarios | Expected TPH/hr | Achieved TPH/hr | Difference |
| Jpet Store Shop Fish | 2097 | 2047 | -50 |
| Jpet Store Shop Dogs | 2097 | 2052 | -45 |
| Jpet Store Shop Reptiles | 2097 | 2054 | -43 |
| Jpet Store Shop Cats | 2097 | 2060 | -37 |
| Jpet Store Shop Birds | 2097 | 2052 | -45 |

# 6. Resource Utilization Graphs

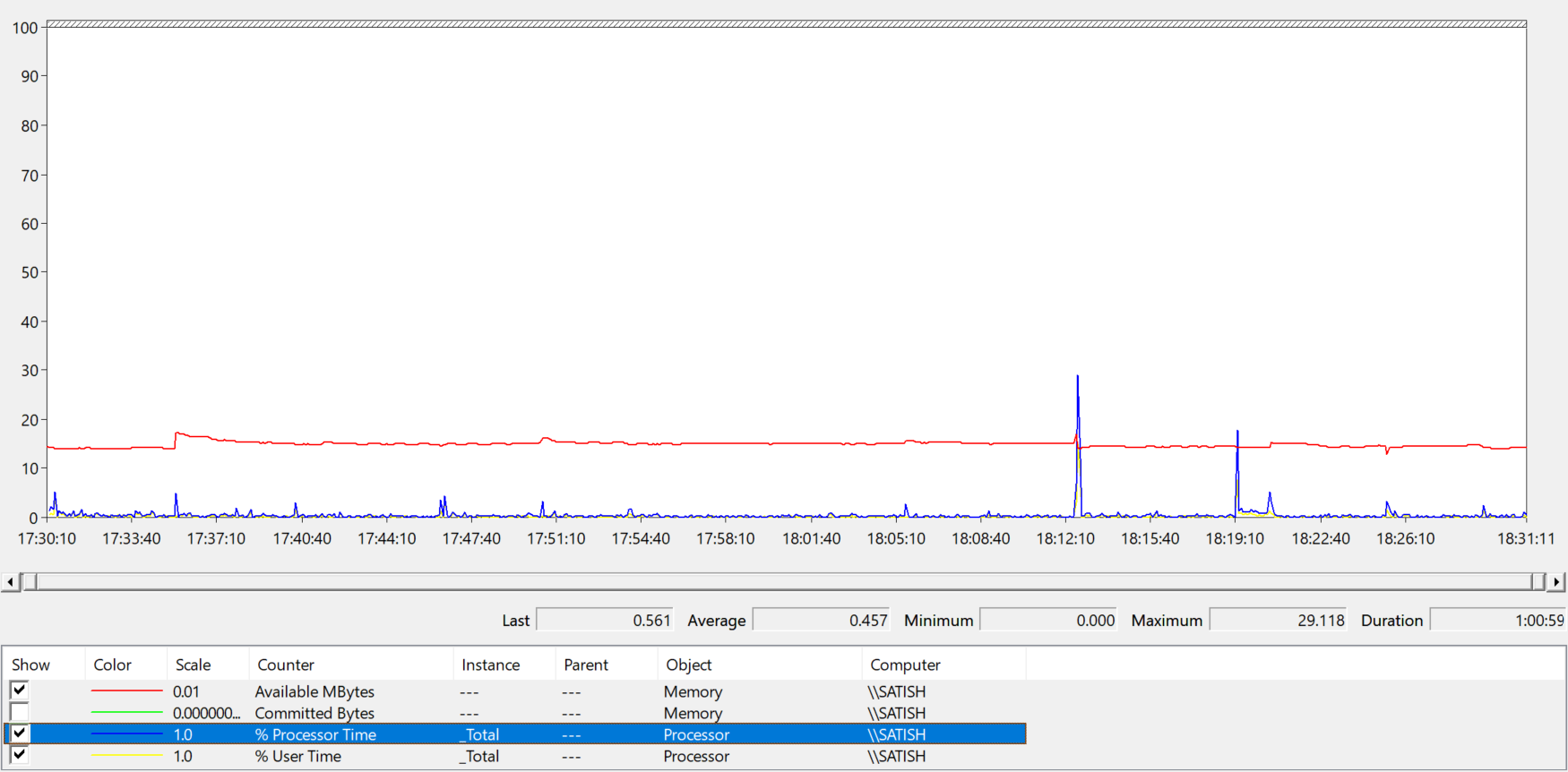
## 6.1 Client Machine Graph(Baseline Test)

****

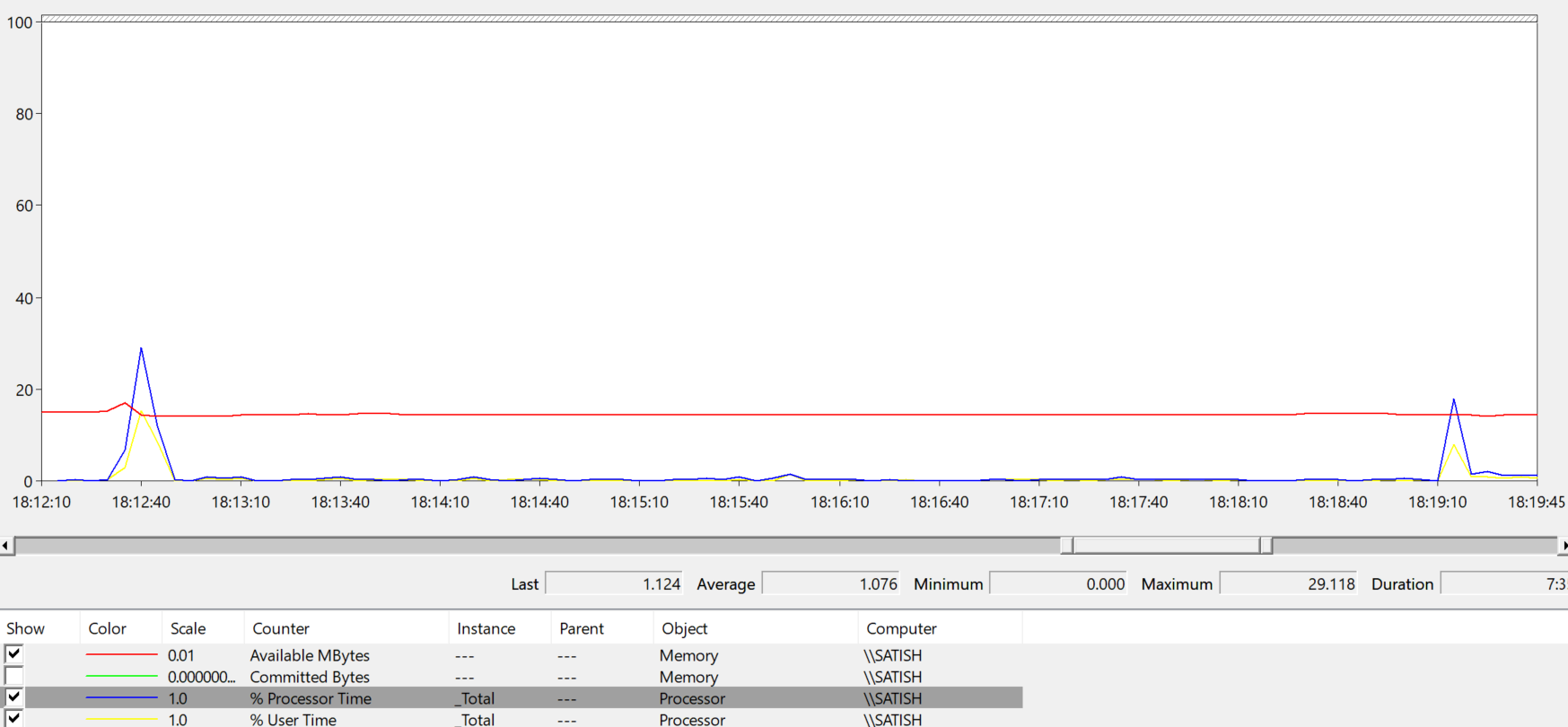
## 6.2 Client Machine Spike Graph(Baseline Test)

****

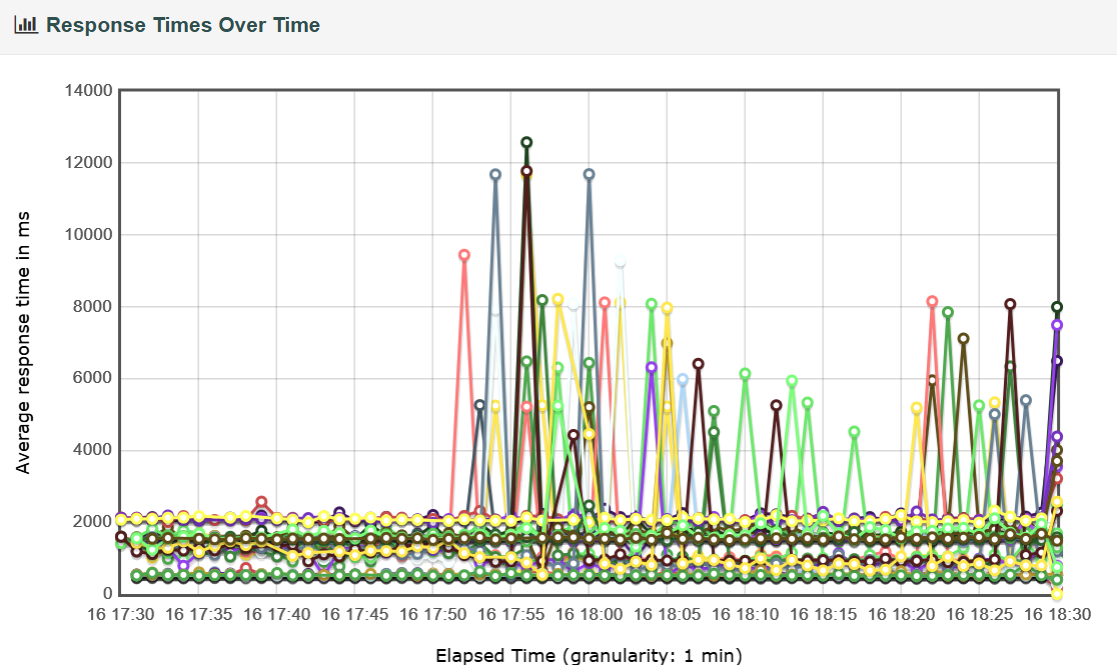
## 6.3 Client Machine Graph(Load Test)

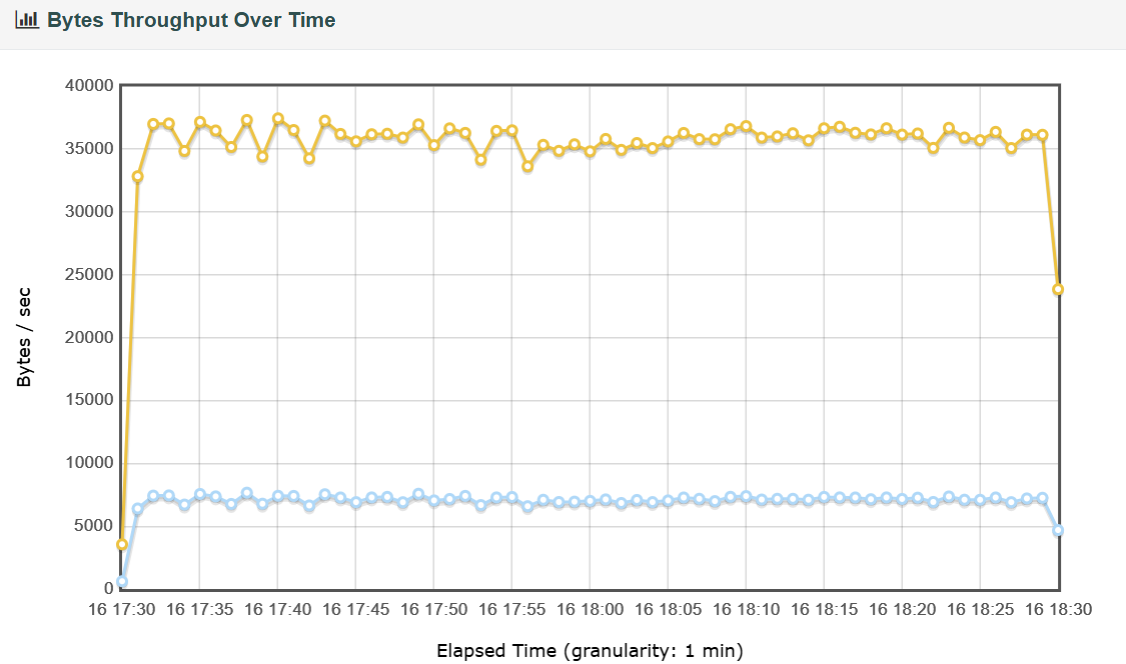
****

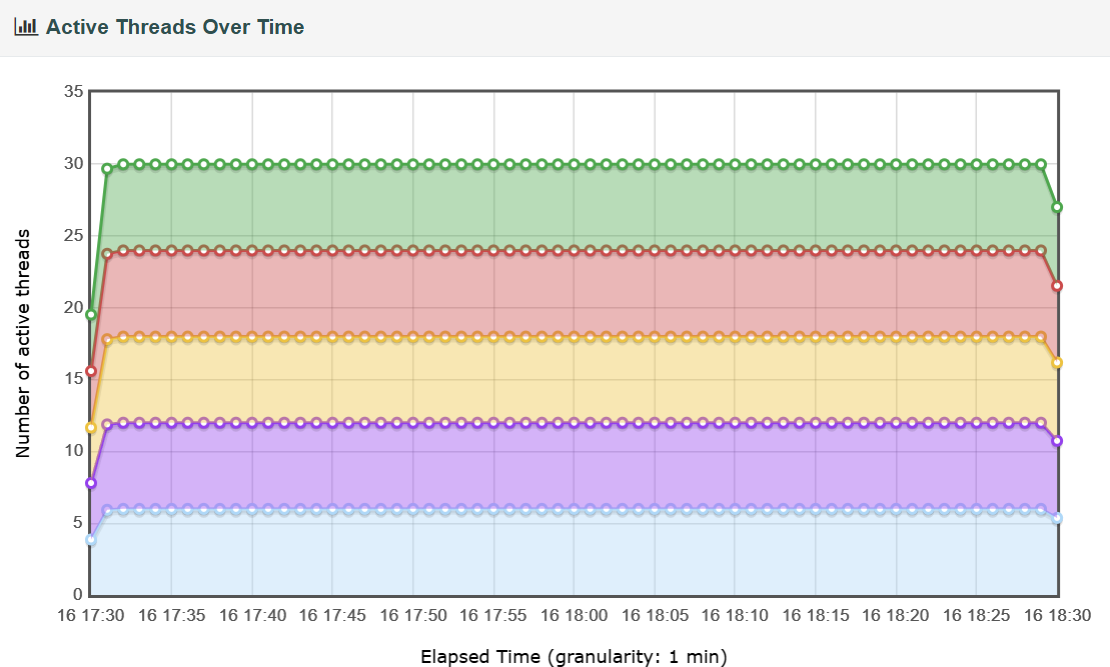
## 6.4 Client Machine Spike Graph(Load Test)

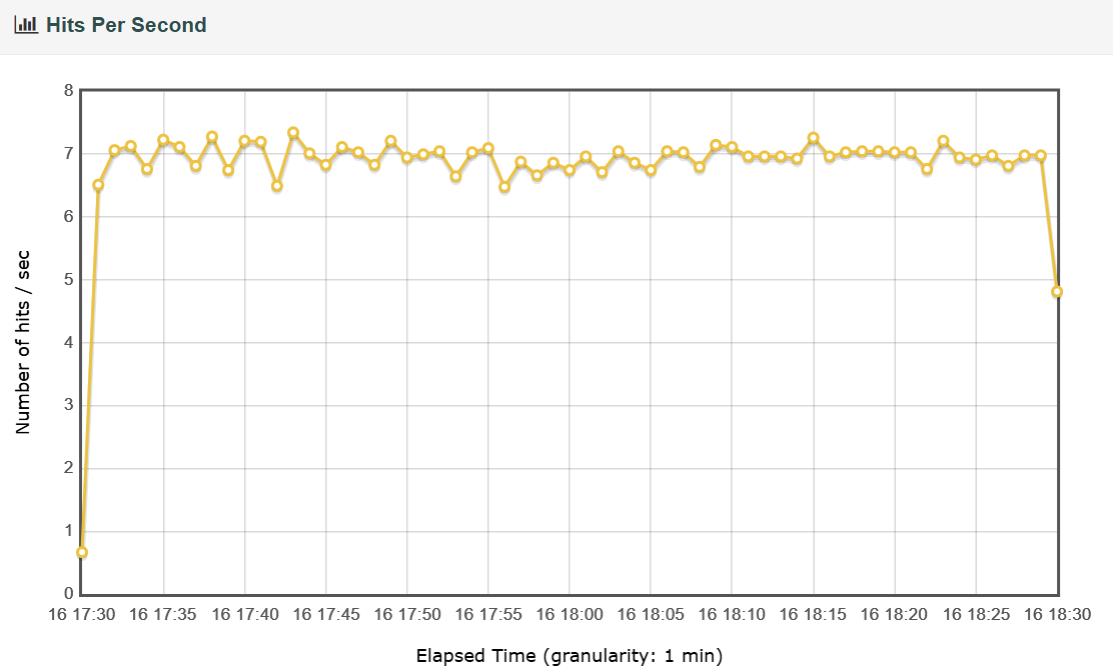
****

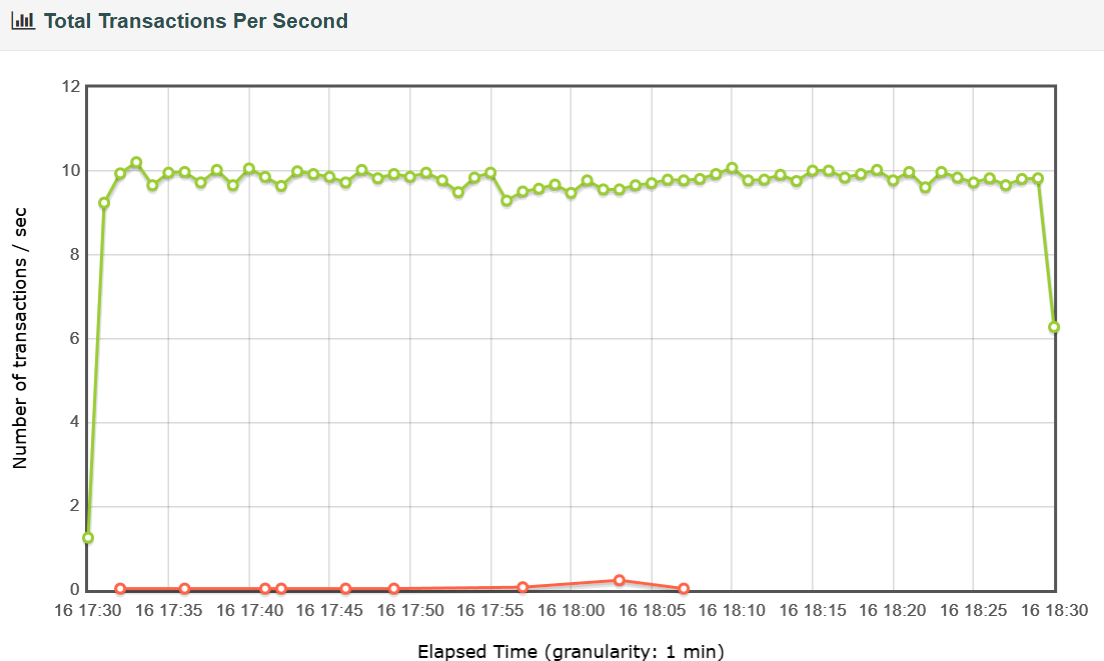
## 6.5 Client Side Graph

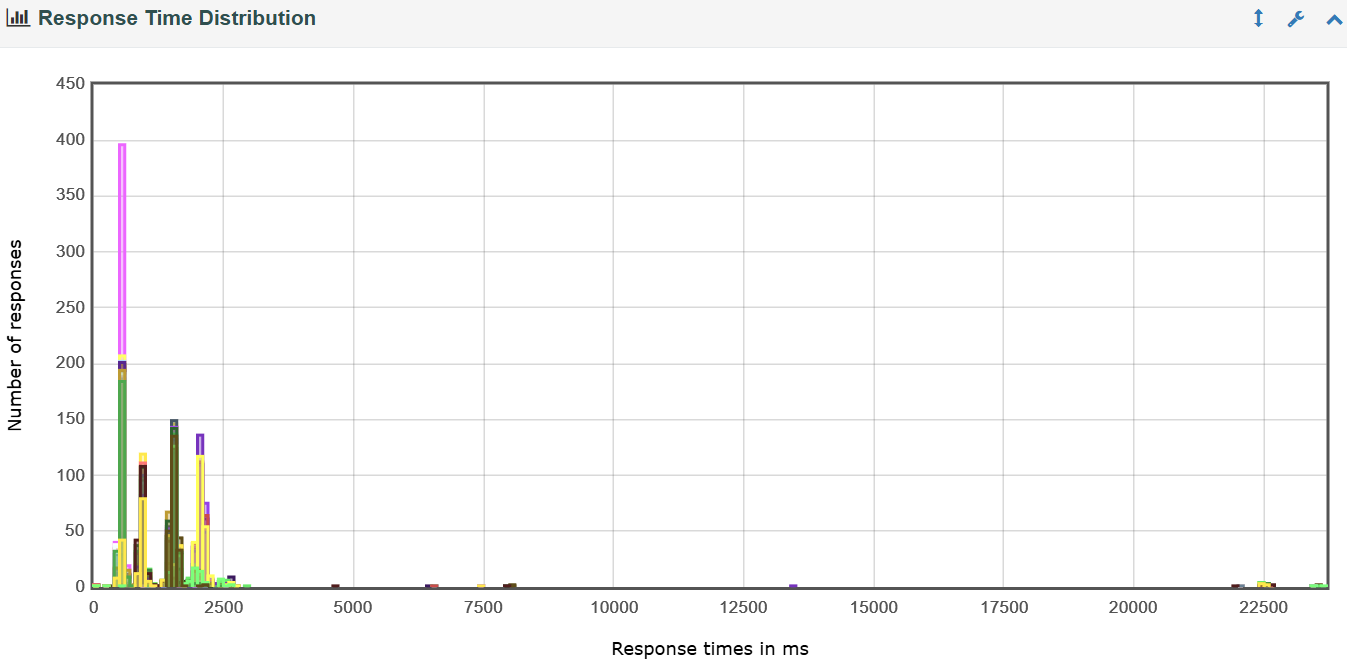
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# 7. Jira Stories & Reference Documents

## 7.1 Jira Story

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl No** | **Description** | **Story Link** | **Comments** |
| **1** | **Jpet Store Documentation(POC,NFR,Test Plan,Work Load Model)** | **<Provide Jira Story Link>(NA to Demo App like Jpet Store)** |  |
| **2** | **Jpet Store Scripting and Execution** | **<Provide Jira Story Link>(NA to Demo App like Jpet Store)** |  |
| **3** | **Jpet Store Test Summary Report** | **<Provide Jira Story Link>(NA to Demo App like Jpet Store)** |  |

## 7.2 Reference Document

Non Functional Requirement Doc:- 

Test Plan Doc:- 

Work Load Model:- 

# 8. Approval Details

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Approvers Name** | **Role** | **Approval Date** | **Approval Mode** | **Reference** |
| **James Alfred** | **Platform Chapter Lead** | **19-07-2024** | **Email** | **<Attach Approval Mail>** |
| **Anand Sharma** | **Release Lead** | **19-07-2024** | **Email** | **<Attach Approval Mail>** |
| **P Vijay Kumar** | **Product Owner** | **19-07-2024** | **Email** | **<Attach Approval Mail>** |