Performance Test Report

For

Execution of

Kernel PRID generator API – 300 users

Date: 5 Jun 2020

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Summary

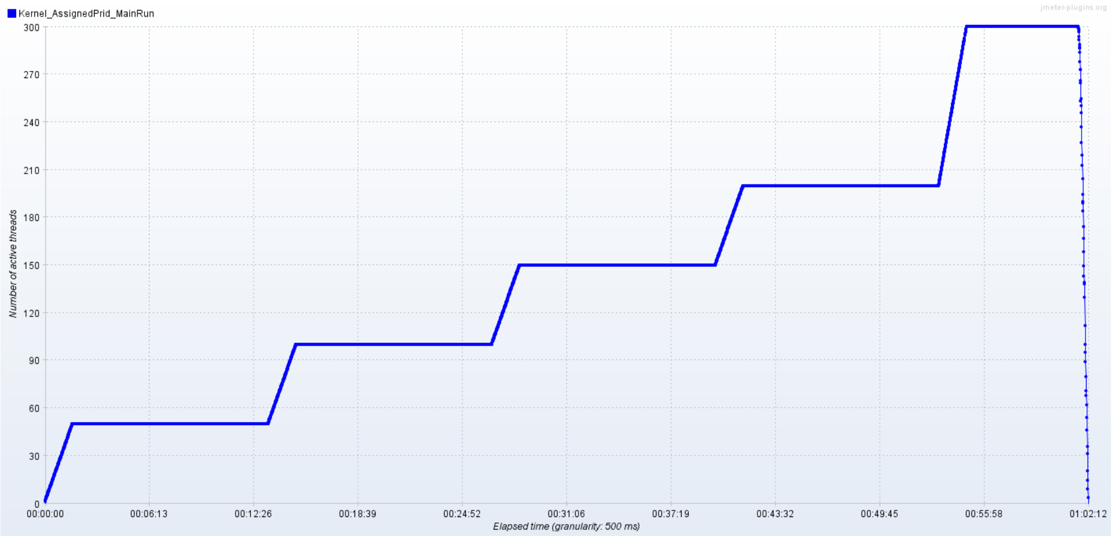
This report presents the observations and findings of the load test conducted for a load of 300 concurrent users on kernel prid generator service

The objective of this load test was to observe and record the behavior of the application when users are calling kernel prid generator service API when 8 Lac prid's present in DB

Below are the scenario details:

Script/Report Name	Kernel prid generator (8 Lac prid's in DB)
Run Date	05-Jun-2019
Period	08:32 to 09:35 AM (UTC)
Number of concurrent users	0 to 50 to 300
Ramp up	Refer pic of **Concurrent users Ramp up pattern shown below**
Run Duration	1.1 hours
Ramp down	1 min

Concurrent users Ramp up pattern:



The transaction response times observed were as below:

Label	# Samples	Average (ms)	90% Line (ms)	Min (ms)	Max (ms)	Error %	Throughput (sec)
TR_kernel_assign_prid	153136	6063	20972	18	31058	3.17%	41.03072

Performance Test Execution Details

Both APIs transactions average response times were more than 3sec mentioned below:

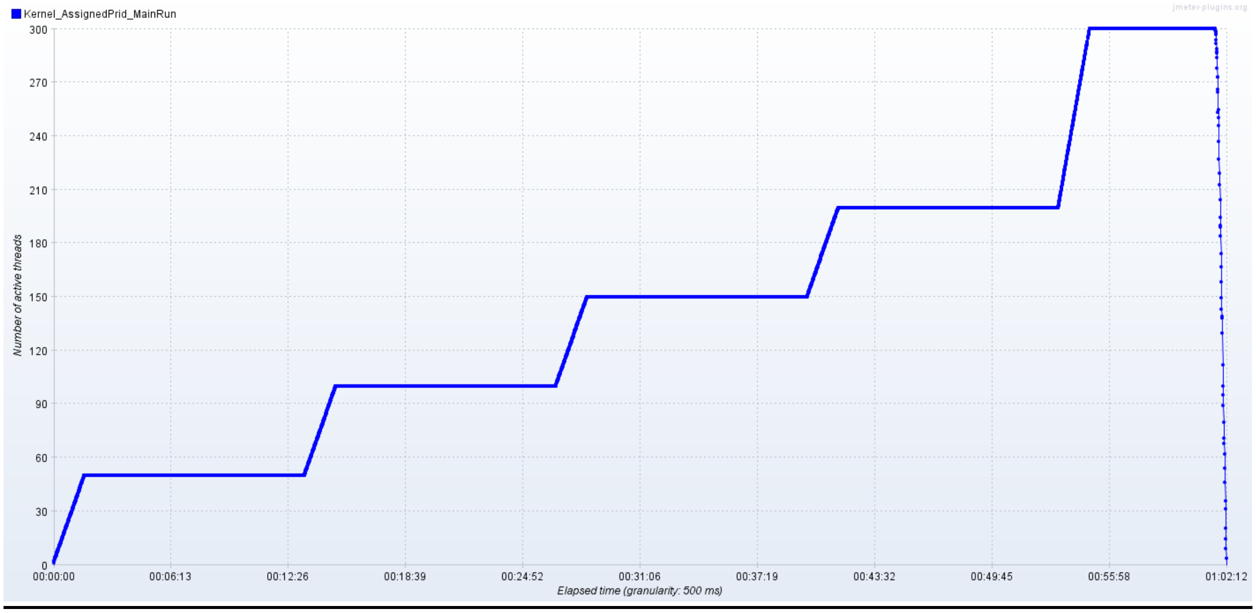
1. TR_kernel_assign_prid -6.063 sec

The error rate for below transactions are more than 1%:

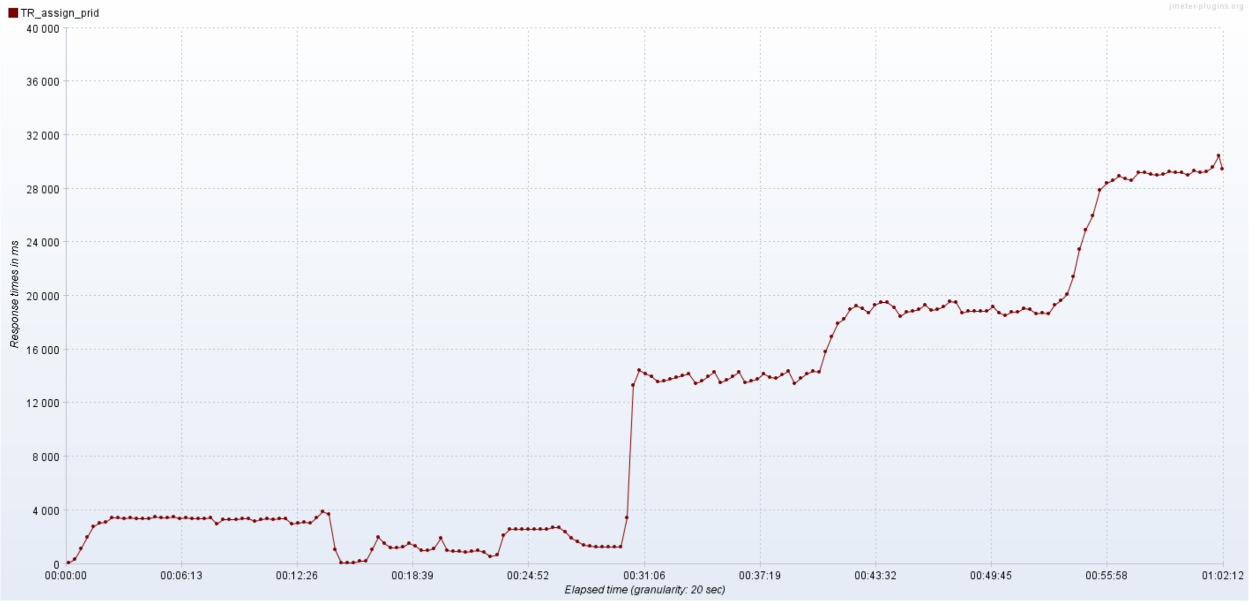
Transactions	Error %
TR_kernel_assign_prid	3.17%

Test Environment : Sandbox preprod kernel environment (Only kernel module)

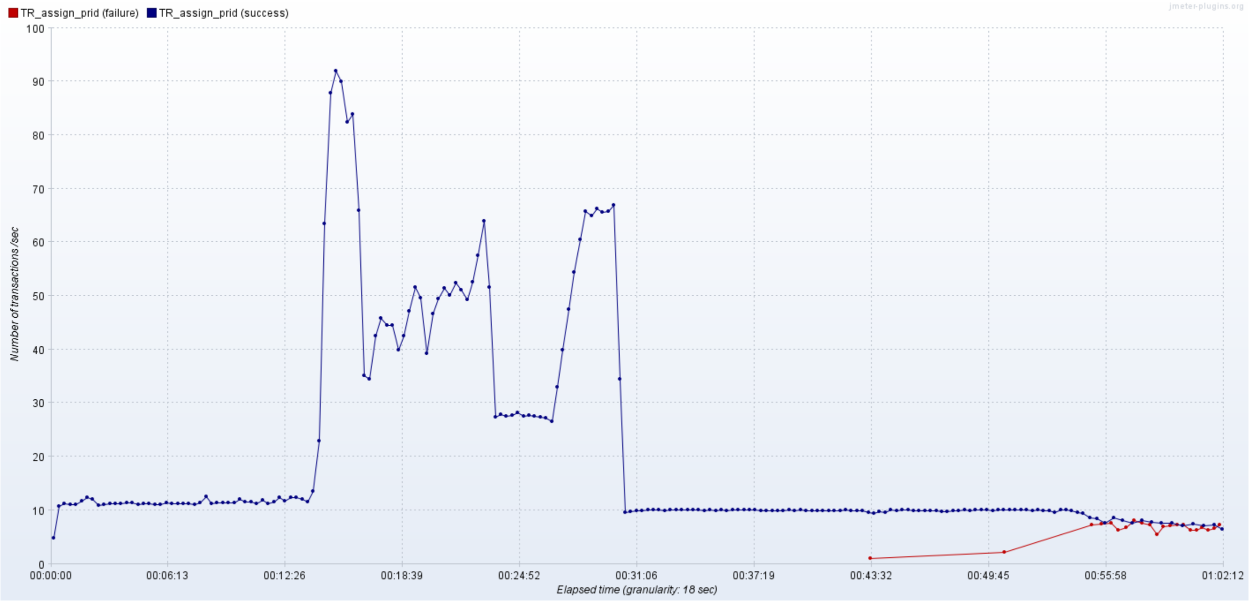
Active threads over Time:



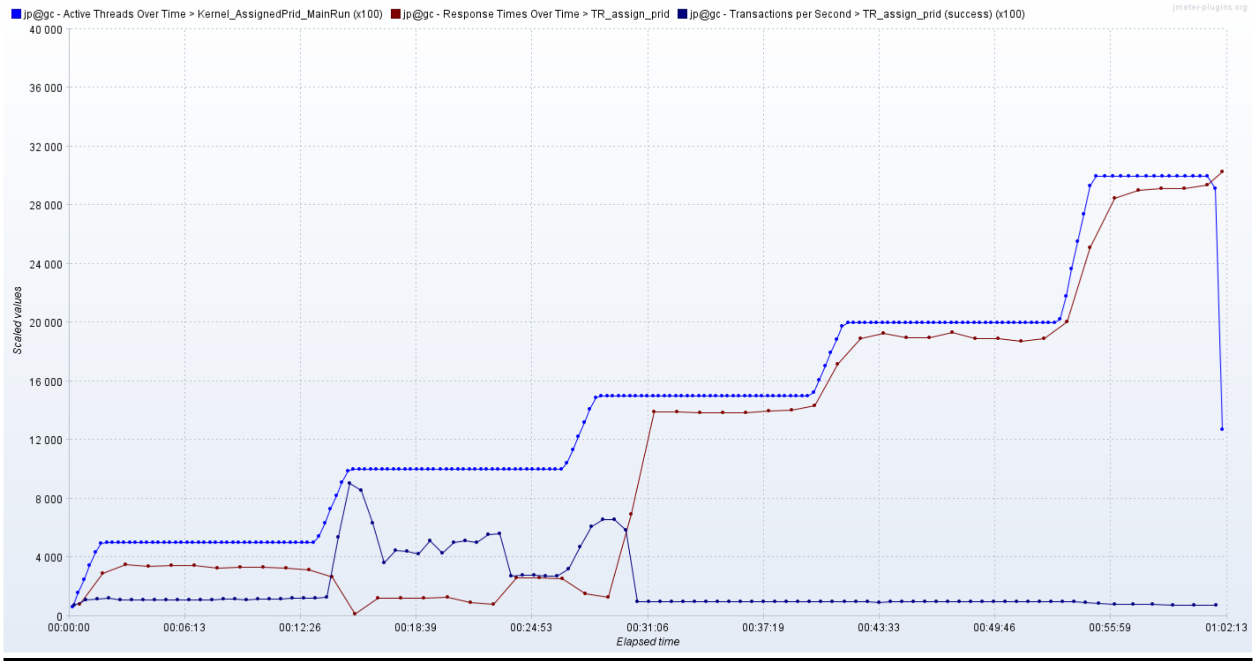
Response Time Graph



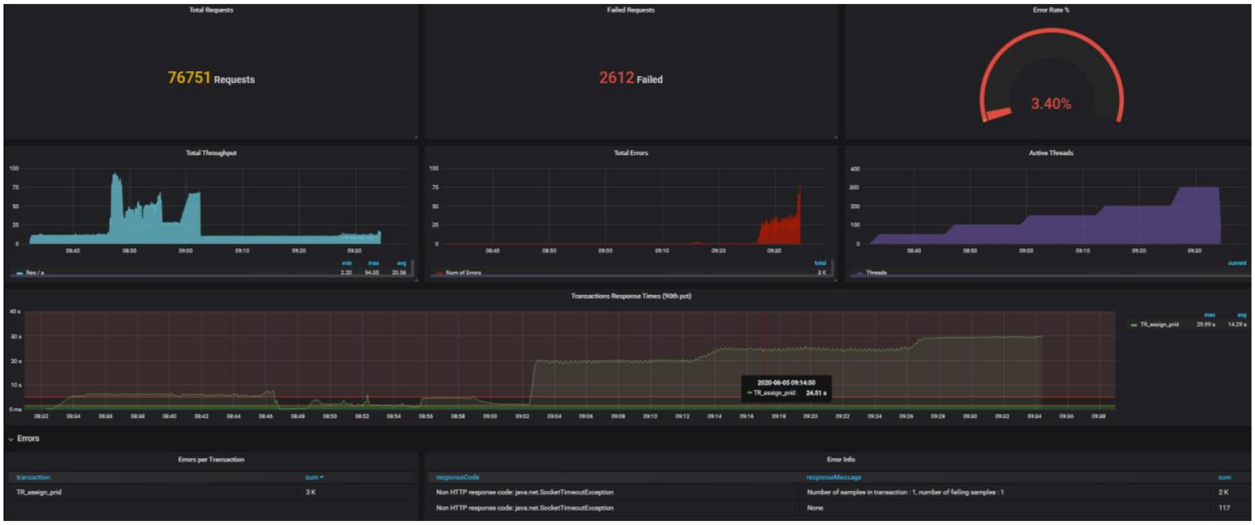
Transactions per second: (success)



Active threads vs response times over time:



JMeter graph:



Errors

Errors per Transaction

transaction	sum ▾
TR_assign_prid	3 K

Error Info

responseCode	responseMessage	sum
Non HTTP response code: java.net.SocketTimeoutException	Number of samples in transaction : 1, number of failing samples : 1	2 K
Non HTTP response code: java.net.SocketTimeoutException	None	117

Conclusion and Next Steps:

When concurrent users reached 50 we have observed high response times for Prids ~5 sec and gradually avg. response times were increasing from 5 to 19 sec when current users reached to 150 users and once users to reached to 300 avg. response times spiked upto 35 sec and spike8 to 35 intermittent errors for kernel prid generator API calls

Fix provided by dev team has not worked so reopening the defect https://mosip.atlassian.net/browse/MOSIP-1191