

Performance Test Report

For

Execution of

Identity-Repository-retrieve identity – 300 users

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Author: Gaurav Sharan

Summary

This report presents the observations and findings of the load test conducted for a load of 300 users performing Identity retrieve using UIN, VID and RID in Identity Repository which is executed for a peak load for 60 minutes duration.

The objective of this load test was to observe and record the behavior of the application when users are retrieving their identity from identity repository.

Below are the summary of the test executed:

Report Name	Identity Retrieval from IdRepo
Run Date	19-November-2019
Period	01:49 UTC – 03:29 UTC
Number of concurrent users	300 (peak load)
Ramp up	1 user per 3 seconds
Run Duration	1 hour 40 minutes (60 minutes at peak load)
Ramp down	NA

The transaction response times observed were as below:

Label	# Samples	Average(ms)	90% Line(ms)	Min(ms)	Max(ms)	Error %	Throughput
TR_idrepo_retrieve_identity-uin	93912	61	82	31	5036	0.11%	15.63496
TR_idrepo_retrieve_identity-reg_id	93712	58	76	26	5043	0.13%	15.61353
TR_idrepo_retrieve_identity-vid	93494	113	152	63	5102	0.20%	15.59049

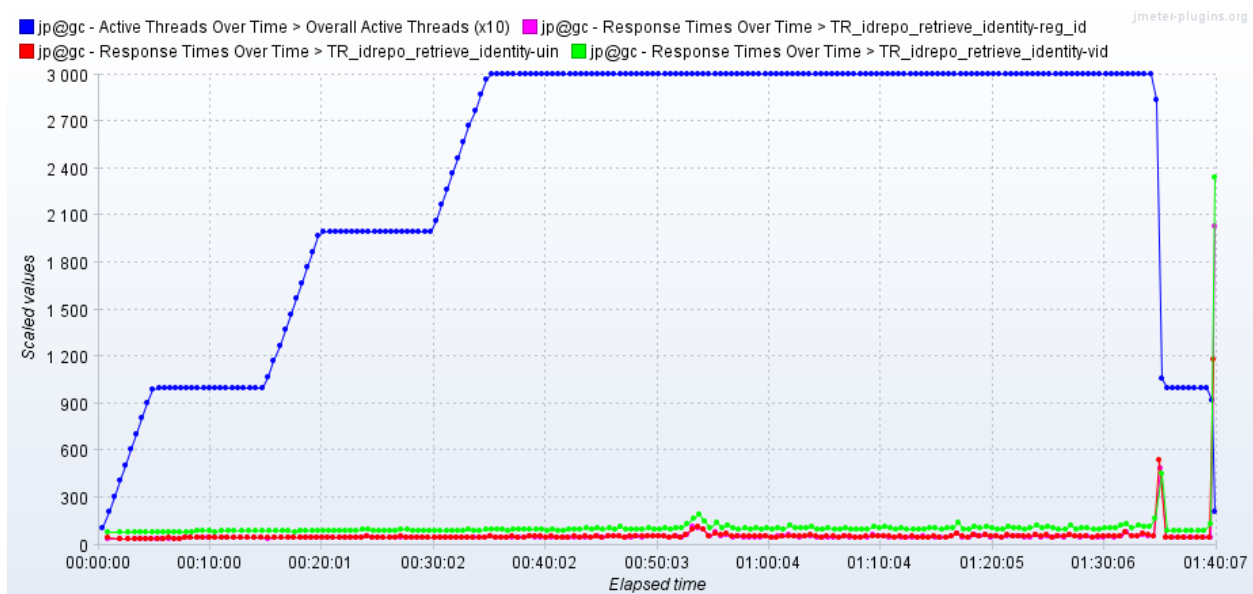
Performance Test Execution Details

We have executed JMeter script for Identity retrieval APIs, which has transactions mentioned in the above table.

Average response time of creation request is **below 100 milliseconds** and error rate is less than 1%.

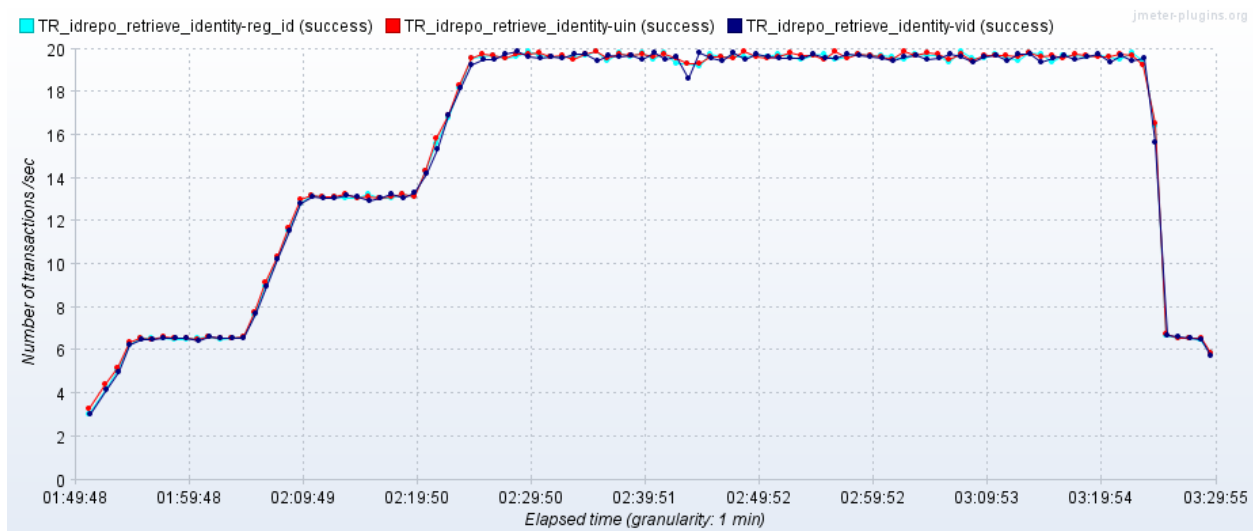
Response Time Graph:

As seen in the below graph, average response time for the retrieval APIs below 100 milliseconds irrespective of the number of active users.



Transactions per second:

Throughput of the APIs are in relation with the number of active users and has reached 20 TPS when 300 users were active.



Some Error Responses:

Some of the erroneous responses are as below.

idrepo retrieve:

```
{"id":"mosip.id.read","version":"v1","responsetime":"2019-11-19T03:22:24.002Z","metadata":null,"response":null,"errors":[{"errorCode":"IDR-IDC-004","message":"Unknown error occured"}]}
```



Conclusion and Next Steps

Result of the test executed for 300 users is positive and the response times are within SLA. Further tests will be executed for higher number of users.