

Performance Test Report

For

Execution of

IDA Retrieve Identity using RegID API – 200 users

Date: 20 Jun 2020

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Summary

This report presents the observations and findings of the load test conducted for a load of 200 concurrent users for IDA Retrieve Identity using RegID of IDAuth

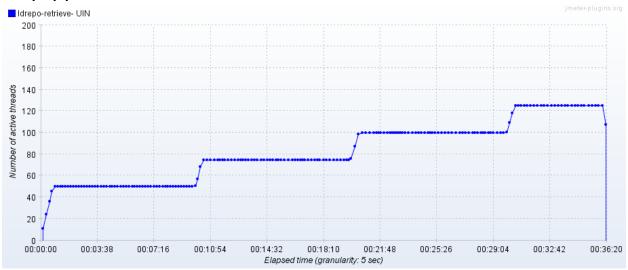
The objective of this load test was to observe and record the behavior of the application when users are calling of IDA Retrieve Identity using RegID of IDAuth

Below are the scenario details:



Script/Report Name	IDA Retrieve Identity using RegID			
Run Date	20-Jun-2019			
Period	07:04 to 07:41 AM (UTC)			
Number of concurrent users	200			
Ramp up	See in below ramp up pattern picture			
Run Duration	00:36 min (Stopped due to errors)			

Ramp up profile:



The transaction response times observed were as below:

Label	# Samples	Average (ms)	90% Line (ms)	Min (ms)	Max (ms)	Error %	Throughput (sec)
TR_idrepo_retrieve_identity-reg_id	13483	12385	27620	0	60993	5.67%	6.18481



Performance Test Execution Details

TR_idrepo_retrieve_identity-reg_id transaction average response times was more than 2 sec

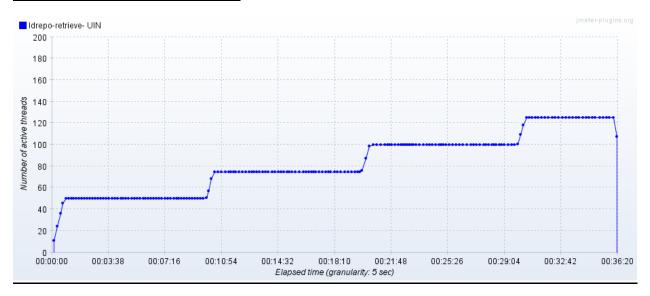
TR_idrepo_retrieve_identity-reg_id -12.385 sec

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

Transactions	Error %	
TR_idrepo_retrieve_identity-uin	5.67%	

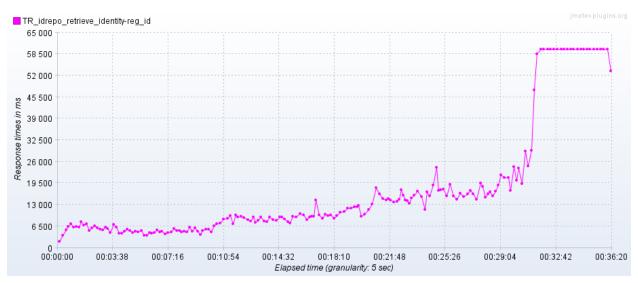
Test Environment: Sandbox Preprod environment

Active threads over Time:

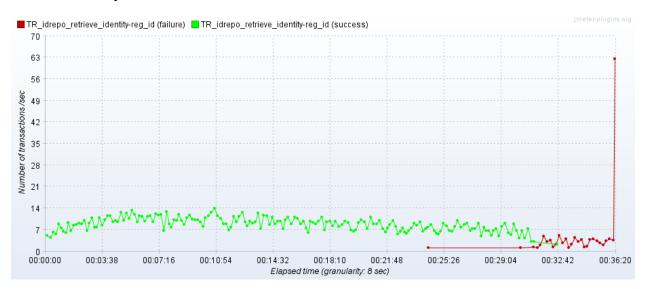


Response Time Graph



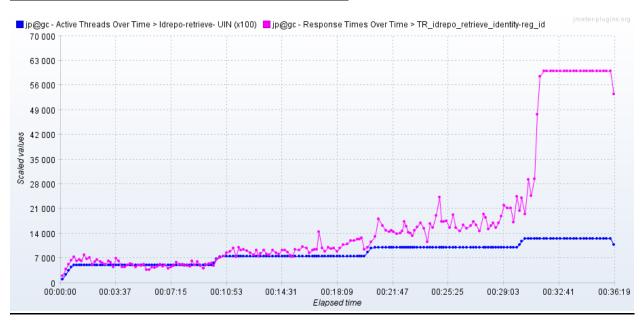


Transactions per second:

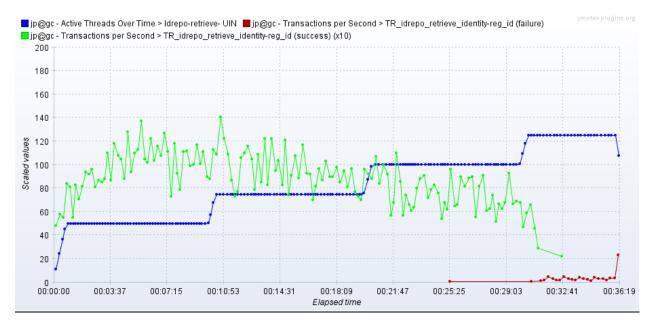




Active threads vs response times over time:



Active threads vs transactions per sec:





Jmeter Dashboard:



MZ worker threads monitoring:









Obsevations:

Sample API request: GET https://preprod.southindia.cloudapp.azure.com/idrepository/v1/identity/uin/ 6024079562

- Observed high average response times from start of the perf run around 7.7 sec and spiked from 13 sec to 65 sec when concurrent users reached to 100 and high response times stayed 65 sec till end of the run
- 2. Observed continuous spike of 30 to 40 count errors HTTP 503/504 errors for the IDrepo retrieve identity api using RegID beyond 100 concurrent users
- 3. Maximum transactions per sec (TPS) achieved was 14/sec for the IDrepo retrieve identity api
- 4. Below is the error message for the API request

nginx error!

Website Administrator

Something has triggered an error on your website. This is the default error page for nginx that is distributed with Fedora. It is located /usr/share/nginx/html/50x.html

The page you are looking for is temporarily unavailable. Please try again later.

You should customize this error page for your own site or edit the error_page directive in the nginx configuration file /etc/nginx/nginx.conf.