Performance Test Report

For

Execution of

OTP Generation with UIN– 100 users

Date: 03 December 2019

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Summary

This report presents the observations and findings of the load test conducted for generating OTP by directly hitting OTP generator service with UIN at an interval of 5 second between each request for 100 users.

The objective of this load test was to observe and record the behavior of the application when 100 concurrent users are trying to generate OTP with UIN at an interval of 5 seconds each (ThinkTime).

The test was stopped due to the high error percentage.

Below are the scenario details:

Sprint/Report Name	OTP generator
Run Date	03-December-2019
Period	09:25:06 to 09:46:43(UTC)
Number of concurrent users	100 on peak-load of 60 minutes
Ramp up	2 minutes
Run Duration	21 minutes 37 seconds (planned : 62 minutes)
Think Time	5 second
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_ida_genearte_otp	8320	**12997**	**23175**	0	39805	**42.87%**	6.42382

Performance Test Execution Details

We have executed OTP generation scenario, which has transactions mentioned in the above table.

Here, we are hitting the OTP generator directly with UIN for generating OTP.

The average response time for transaction **TR_ida_genearte_otp** here is **13 seconds approx** and the error percentage is **42.87%**.
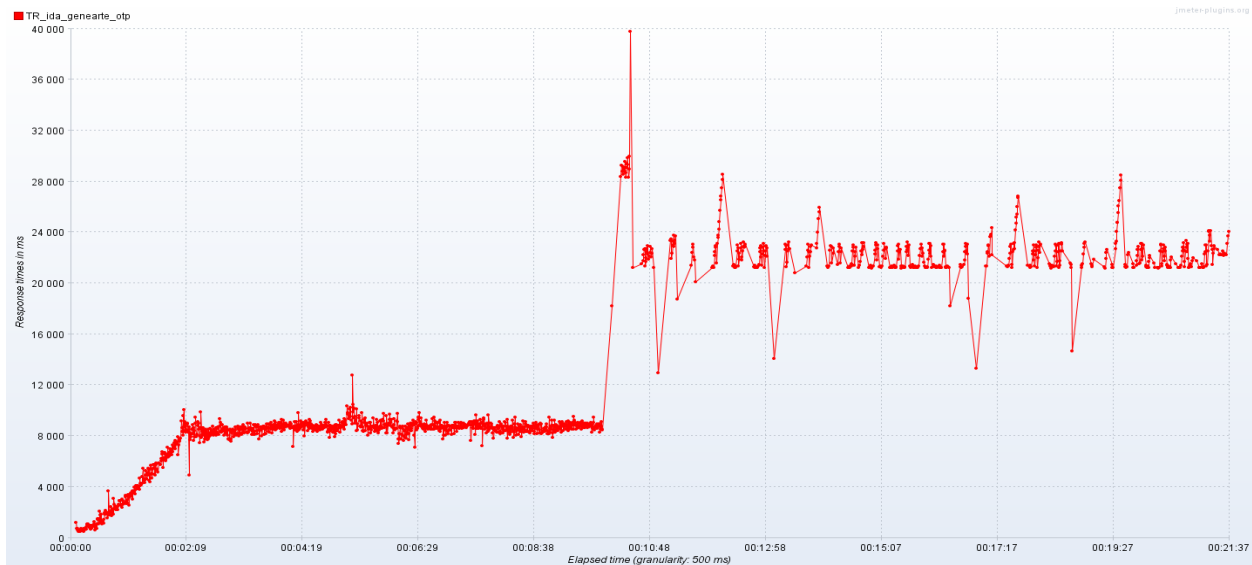
Active Threads Over Time :
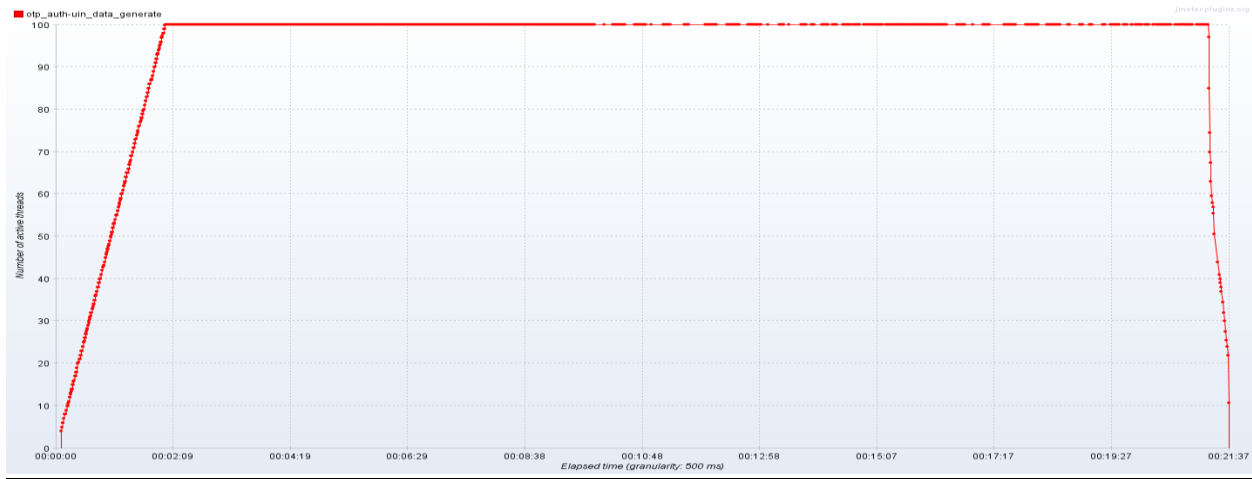
As seen in the above graph, 100 users are trying to generate OTP using UIN for 20 minutes approx.

Response Time Graph :

As seen from below graph, the response time is at an average of **12 seconds**.

Some error messages:

Sample Response 1:

```
{
        "id": "mosip.identity.otp",
        "version": "1.0",
        "transactionID": "1110269641",
        "responseTime": "2019-12-03T07:14:39.009Z",
        "errors": [
                {
                        "errorCode": "IDA-MLC-007",
                        "errorMessage": "Request could not be processed. Please try again"
                },
                {
                        "errorCode": "IDA-RST-006",
                        "errorMessage": "4XX - Client Error occurred"
                }
        ],
        "response": null
}
```

Sample Response 2:

```
{
        "id": "mosip.identity.otp",
        "version": "1.0",
        "transactionID": "1110235527",
        "responseTime": "2019-12-03T06:15:06.462Z",
        "errors": [
                {
                        "errorCode": "IDA-MLC-007",
                        "errorMessage": "Request could not be processed. Please try again"
                }
        ],
        "response": null
}
```

Conclusion:

As we see in the above report, from the test conducted for OTP generator service, the response time is at an average of 12 seconds and the error percentage is **42.87%**. The keymanager has restarting many times due to signature API unable to handle this load. This report will be shared to developers for analysis and code fix.