

Assignment Task 4: Jmeter

For this task the website “https://httpbin.org/delay/{seconds_to_delay}” was provided. The api responds after the “seconds_to_delay” with GET/POST/PUT/PATCH methods as per the documentation with max delay of 10 seconds.

TestPlan

For this task a thread group was created with number of users(50), ramp up time of 20 seconds and loop count of 2 resulting in 100 total requests.

Then groovy script was added as a preprocessor element to initialize the value of seconds_to_delay as per the task requirement.

```
int delay = 1 + new Random().nextInt(10)
vars.put("delayRandom", delay.toString())
...
```

Then this variable \${delayRandom} was used in the HTTP sampler with:

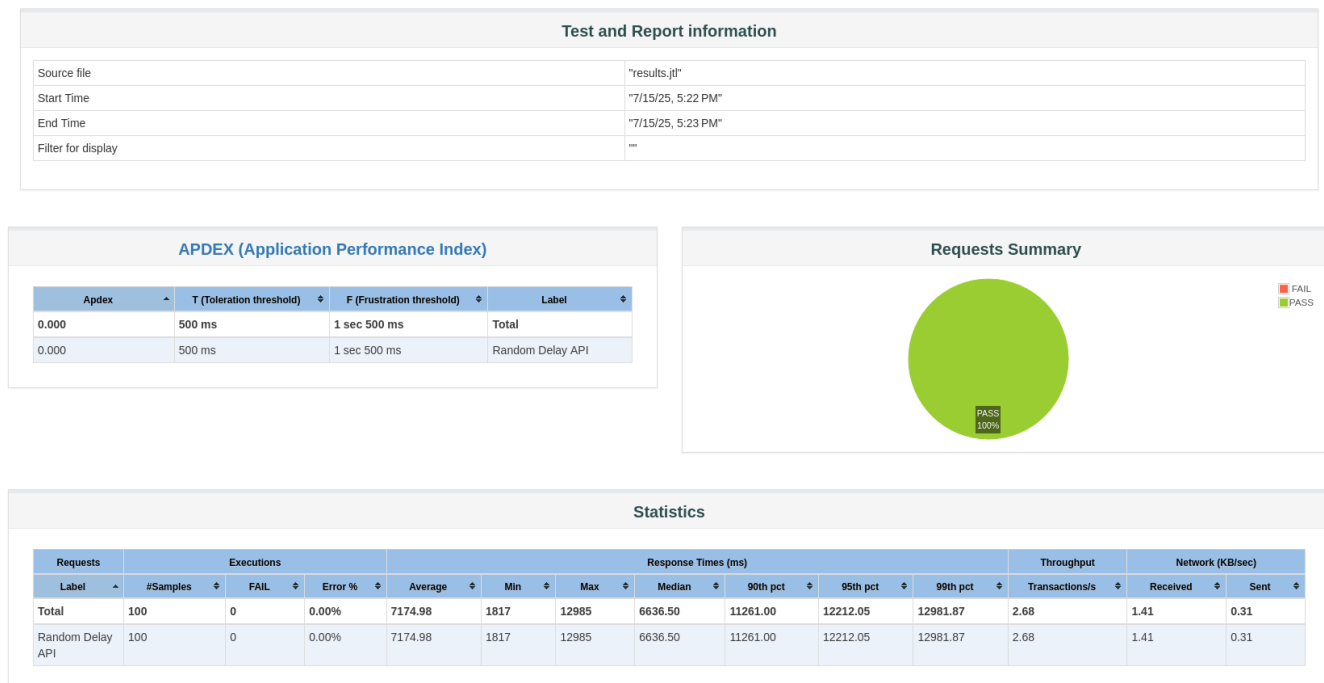
server IP = httpbin.org

Path: /delay/\${delayRandom}

Then the jmx was run in terminal with below command:

```
"jmeter -n -t /path/to/task.jmx -l /path/to/results.jtl -e -o /path/to/report "
```

Results and Analysis



Metric	Value	Interpretation
Sample Count	100	100 API requests were sent
Error %	0 %	All requests succeeded
Mean Response Time	7174.98 ms	Average response time \approx 7 seconds per request
Median Response Time	6636.5 ms	50% of requests completed in \leq 6.63 seconds
Min / Max Response Time	1817.0 / 12985.0 ms	Range from 1.8(quickest) to 13 seconds(slowest)
90th Percentile (pct1)	11261.0 ms	90% of requests took \leq 11.26 seconds
95th Percentile (pct2)	12212.05 ms	95% of requests took \leq 12.2 seconds
99th Percentile (pct3)	12981.87 ms	99% of requests took \leq 13 seconds
Throughput	2.68 requests/sec	2 requests were handled per second