**Part2 Benchmark result**

1. **Maximum number of request can be handled without dropping**

|  |  |
| --- | --- |
| Number of Request sent | Number of Request Handled |
| 100 | 100 |
| 1000 | 961 |

Ps. First off , the team picked two edge cases to decide the limit of the request handling. From the table above , the conclusion is the limit is between 100 ~ 1000

|  |  |
| --- | --- |
| Number of Request sent | Number of Request Handled |
| 500 | 496 |
| 300 | 298 |
| 280 | 280 |
| 290 | 285 |

Therefore from the table above, we acquired that the maximum number of request it can handle is 280 packets. (since go up to 290 will cause losing request)

Questions:

1. Max number of request= 280

2. Max number of requests per second (RPS) = 335.46 RPS

3. Average and 99 percentile of response time or latency per request :

Average = 18

99% percentile = 828

( All the questions are from the data below)

**2. Data :**

ubuntu@ip-172-31-32-94:~$ ab -n 280 -c 60 http://ec2-34-237-28-99.compute-1.amazonaws.com/?keywords=helloworld+foo+bar

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Benchmarking ec2-34-237-28-99.compute-1.amazonaws.com (be patient)

Completed 100 requests

Completed 200 requests

Finished 280 requests

Server Software: WSGIServer/0.1

Server Hostname: ec2-34-237-28-99.compute-1.amazonaws.com

Server Port: 80

Document Path: /?keywords=helloworld+foo+bar

Document Length: 1309 bytes

Concurrency Level: 60

Time taken for tests: 0.835 seconds

**Complete requests: 280**

**Failed requests: 0**

Total transferred: 409920 bytes

HTML transferred: 366520 bytes

**Requests per second: 335.46 [#/sec] (mean)**

Time per request: 178.860 [ms] (mean)

Time per request: 2.981 [ms] (mean, across all concurrent requests)

Transfer rate: 479.60 [Kbytes/sec] received

Connection Times (ms)

min mean[+/-sd] median max

Connect: 0 0 0.4 0 3

Processing: 4 35 117.1 18 832

Waiting: 3 35 117.1 18 831

Total: 6 36 117.4 18 834

Percentage of the requests served within a certain time (ms)

50% 18

66% 18

75% 19

80% 19

90% 19

95% 20

98% 821

99% 828

100% 834 (longest request)

ubuntu@ip-172-31-32-94:~$ ab -n 290 -c 60 http://ec2-34-237-28-99.compute-1.amazonaws.com/?keywords=helloworld+foo+bar

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Benchmarking ec2-34-237-28-99.compute-1.amazonaws.com (be patient)

Completed 100 requests

Completed 200 requests

apr\_pollset\_poll: The timeout specified has expired (70007)

**Total of 285 requests completed**