

## Synchronous processing

In the following screenshot we are creating a post synchronously and the HTTP response is: 201 created

```
Terminal
Dec 17 19:19
nldhi@nldhi-Latitude-E7450: ~/Desktop/CPSC_449_project_4_version_2/CPSC449

Status code distribution:
[502] 10 responses

nldhi@nldhi-Latitude-E7450:~/Desktop/CPSC_449_project_4_version_2/CPSC449$ hey -n 10 -c 10 -H "Authorization: Basic $(echo -n salin:salin1234 | base64)" -H "Content-Type: application/json" -m POST -d '{"username":"salin","post":"this is syn testing","posttimestamp":"12/3333"}' http://127.0.0.1:5200/createpost/

Summary:
Total:      0.2299 secs
Slowest:    0.2281 secs
Fastest:    0.0375 secs
Average:    0.1347 secs
Requests/sec: 43.4880

Total data: 970 bytes
Size/request: 97 bytes

Response time histogram:
0.038 [1] |
0.057 [0] |
0.076 [1] |
0.095 [1] |
0.114 [1] |
0.133 [1] |
0.152 [1] |
0.171 [1] |
0.190 [1] |
0.209 [1] |
0.228 [1] |

Latency distribution:
10% in 0.0703 secs
25% in 0.0950 secs
50% in 0.1462 secs
75% in 0.2077 secs
90% in 0.2201 secs
95% in 0.0000 secs
99% in 0.0000 secs

Details (average, fastest, slowest):
DNS+dialup: 0.0011 secs, 0.0375 secs, 0.2281 secs
DNS-lookup: 0.0000 secs, 0.0000 secs, 0.0000 secs
req write: 0.0001 secs, 0.0000 secs, 0.0002 secs
resp wait: 0.1306 secs, 0.0363 secs, 0.2130 secs
resp read: 0.0001 secs, 0.0001 secs, 0.0002 secs

Status code distribution:
[201] 10 responses

nldhi@nldhi-Latitude-E7450:~/Desktop/CPSC_449_project_4_version_2/CPSC449$
```

## Asynchronous processing:

In the following screenshot we are creating a post asynchronously and the HTTP response is: 202 accepted

```
Terminal
nldhi@nldhi-Latitude-E7450: ~/Desktop/CPSC_449_project_4_version_2/CPSC449

nldhi@nldhi-Latitude-E7450:~/Desktop/CPSC_449_project_4_version_2/CPSC449$ hey -n 10 -c 10 -H "Authorization: Basic $(echo -n salin:salini234 | base64)" -H "Content-Type: application/json" -m POST -d '{"username":"salin","post":{"this is salin asyn from hey"},"posttimestamp":"12/17/2021 19:00"}' http://127.0.0.1:5200/addpostasync/

Summary:
Total:      0.1196 secs
Slowest:    0.1194 secs
Fastest:     0.0132 secs
Average:     0.0653 secs
Requests/sec: 83.6414

Total data: 140 bytes
Size/request: 14 bytes

Response time histogram:
0.013 [1] |
0.024 [0] |
0.034 [1] |
0.045 [1] |
0.056 [1] |
0.066 [1] |
0.077 [1] |
0.088 [1] |
0.098 [1] |
0.109 [0] |
0.119 [2] |

Latency distribution:
10% in 0.0239 secs
25% in 0.0464 secs
50% in 0.0705 secs
75% in 0.1107 secs
90% in 0.1194 secs
95% in 0.1194 secs
98% in 0.1194 secs
99% in 0.1194 secs

Details (average, fastest, slowest):
DNS-dialup: 0.0012 secs, 0.0132 secs, 0.1194 secs
DNS-lookup: 0.0000 secs, 0.0000 secs, 0.0000 secs
req write: 0.0001 secs, 0.0000 secs, 0.0002 secs
resp wait: 0.0038 secs, 0.0114 secs, 0.1160 secs
resp read: 0.0002 secs, 0.0001 secs, 0.0003 secs

Status code distribution:
[202] 10 responses

nldhi@nldhi-Latitude-E7450:~/Desktop/CPSC_449_project_4_version_2/CPSC449$
```

Pollservice :

In the following screenshot we are creating a post with the wrong poll url asynchronously.

```
Terminal
nldhi@nldhi-Latitude-E7450: ~/Desktop/CPSC_449_project_4_version_2/CPSC449

nldhi@nldhi-Latitude-E7450:~/Desktop/CPSC_449_project_4_version_2/CPSC449$ hey -n 10 -c 10 -H "Authorization: Basic $(echo -n salin:salini234 | base64)" -H "Content-Type: application/json" -m POST -d '{"username":"salin","post":{"this is poll url http://localhost:5300/pollresult/120","posttimestamp":"12/17/2021 19:00"}' http://127.0.0.1:5200/addpostasync/

Summary:
Total:      0.1889 secs
Slowest:    0.1861 secs
Fastest:     0.0137 secs
Average:     0.0999 secs
Requests/sec: 53.1940

Total data: 140 bytes
Size/request: 14 bytes

Response time histogram:
0.014 [1] |
0.031 [0] |
0.048 [2] |
0.065 [0] |
0.083 [1] |
0.100 [1] |
0.117 [1] |
0.134 [1] |
0.152 [1] |
0.169 [1] |
0.186 [1] |

Latency distribution:
10% in 0.0316 secs
25% in 0.0769 secs
50% in 0.1132 secs
75% in 0.1623 secs
90% in 0.1861 secs
95% in 0.1861 secs
98% in 0.1861 secs
99% in 0.1861 secs

Details (average, fastest, slowest):
DNS-dialup: 0.0008 secs, 0.0137 secs, 0.1861 secs
DNS-lookup: 0.0000 secs, 0.0000 secs, 0.0000 secs
req write: 0.0001 secs, 0.0000 secs, 0.0002 secs
resp wait: 0.0987 secs, 0.0117 secs, 0.1857 secs
resp read: 0.0001 secs, 0.0001 secs, 0.0002 secs

Status code distribution:
[202] 10 responses

nldhi@nldhi-Latitude-E7450:~/Desktop/CPSC_449_project_4_version_2/CPSC449$
```

If we compare the summary of each result, checking for valid post URLs in the background definitely makes a difference.