🏩 스트리밍 서버 부하 테스트

⊙ 생성일	@2024년 2월 2일 오후 10:06
≔ 태그	스트리밍 서버

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- 테스트 도구 : k6

- 스크립트 코드

```
import ws from 'k6/ws'

export default function () {
  let url = 'ws://localhost:22000/streaming'
  let params = { }
  let stream = false;

  let res = ws.connect(url, params, function (socket) {
    socket.on('open', function open() {
      console.log('connected')
      socket.send("1/1")
    })

    socket.on('message', function (event) {
      if (!stream) {
        socket.send("2/1/0")
        stream = true
      } else {
```

```
      console.log(event.data)
    }
  })

  socket.on('close', function () {
    console.log('disconnected')
  })

  socket.setTimeout(function () {
    console.log('60 seconds passed, closing the socket')
    socket.close()
  }, 60000)
  })
 }
```

첫 데이터 받기

1. 10명 유저 → 평균 0.36 초, 최대 0.65 초

최소 설정 1초 → 1초 동안 34개 테스트

```
$ k6 run --vus 10 --duration 1s script.js


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  execution: local
     script: script.js
     output: -

  scenarios: (100.00%) 1 scenario, 10 max VUs, 31s max dur
           * default: 10 looping VUs for 1s (gracefulStop:
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     data_received.........: 20 MB  14 MB/s
     data_sent.............: 7.9 kB 5.3 kB/s
     iteration_duration....: avg=366.87ms min=191.54ms med=33
     iterations............: 34     22.854669/s
     vus...................: 10     min=10      max=10
     vus_max...............: 10     min=10      max=10
     ws_connecting.........: avg=6.02ms   min=1.23ms   med=4.
```

```
      ws_msgs_received......: 68     45.709338/s
      ws_msgs_sent.........: 68     45.709338/s
      ws_session_duration...: avg=366.81ms min=191.5ms  med=33
      ws_sessions..........: 34     22.854669/s



running (01.5s), 00/10 VUs, 34 complete and 0 interrupted ite
default ✓ [==================================] 10 VUs  1s
```

2. 100명 유저 → 평균 3.64 초, 최소 0.6 초, 최대 5.09 초

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$ k6 run --vus 100 --duration 1s script.js


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    execution: local
       script: script.js
       output: -


    scenarios: (100.00%) 1 scenario, 100 max VUs, 31s max du
             * default: 100 looping VUs for 1s (gracefulStop

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     data_received.........: 65 MB 13 MB/s
     data_sent.............: 25 kB 4.9 kB/s
     iteration_duration....: avg=3.64s   min=687.28ms med=4.0
     iterations............: 108   21.214328/s
     vus...................: 7      min=7        max=100
     vus_max...............: 100    min=100      max=100
     ws_connecting.........: avg=24.97ms min=6.07ms   med=25.
     ws_msgs_received......: 216   42.428656/s
     ws_msgs_sent..........: 216   42.428656/s
     ws_session_duration...: avg=3.64s   min=687.2ms  med=4.0
     ws_sessions...........: 108   21.214328/s



running (05.1s), 000/100 VUs, 108 complete and 0 interrupted .
default ✓ [==================================] 100 VUs  1
```

모든 데이터 받기

1. 10명 유저 → 7.7초 모든 데이터 전송 완료

```
$ k6 run --vus 10 --duration 5s script.js

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     execution: local
        script: script.js
        output: -

     scenarios: (100.00%) 1 scenario, 10 max VUs, 35s max dur
              * default: 10 looping VUs for 5s (gracefulStop:

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        data_received.........: 428 MB 55 MB/s
        data_sent............: 2.3 kB 299 B/s
        iteration_duration....: avg=7.71s   min=7.65s  med=7.73s
        iterations...........: 10      1.293156/s
        vus..................: 10      min=10      max=10
        vus_max..............: 10      min=10      max=10
        ws_connecting........: avg=14.73ms min=6.72ms med=16.4m
        ws_msgs_received......: 710     91.814065/s
        ws_msgs_sent.........: 20      2.586312/s
        ws_session_duration...: avg=7.71s   min=7.65s  med=7.73s
        ws_sessions..........: 10      1.293156/s


running (07.7s), 00/10 VUs, 10 complete and 0 interrupted ite
default ✓ [====================================] 10 VUs  5s
```

2. 100명 유저 → 26.4 초 모든 데이터 전송 완료

```
$ k6 run --vus 100 --duration 5s script.js


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    execution: local
       script: script.js
       output: -


    scenarios: (100.00%) 1 scenario, 100 max VUs, 35s max du
             * default: 100 looping VUs for 5s (gracefulStop

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INFO[0026] disconnected                                              sour
INFO[0026] disconnected                                              sour
INFO[0026] disconnected                                              sour
INFO[0026] disconnected                                              sour
INFO[0026] disconnected                                              sour


    data_received........: 4.3 GB 162 MB/s
    data_sent............: 23 kB  877 B/s
    iteration_duration...: avg=24.69s  min=19.39s med=25.17
    iterations...........: 100    3.794942/s
    vus..................: 9      min=9       max=100
    vus_max..............: 100    min=100     max=100
    ws_connecting........: avg=31.58ms min=8.82ms med=27.06
    ws_msgs_received.....: 7100   269.440891/s
    ws_msgs_sent.........: 200    7.589884/s
    ws_session_duration..: avg=24.69s  min=19.39s med=25.17
    ws_sessions..........: 100    3.794942/s



running (26.4s), 000/100 VUs, 100 complete and 0 interrupted
default ✓ [====================================] 100 VUs  5
```