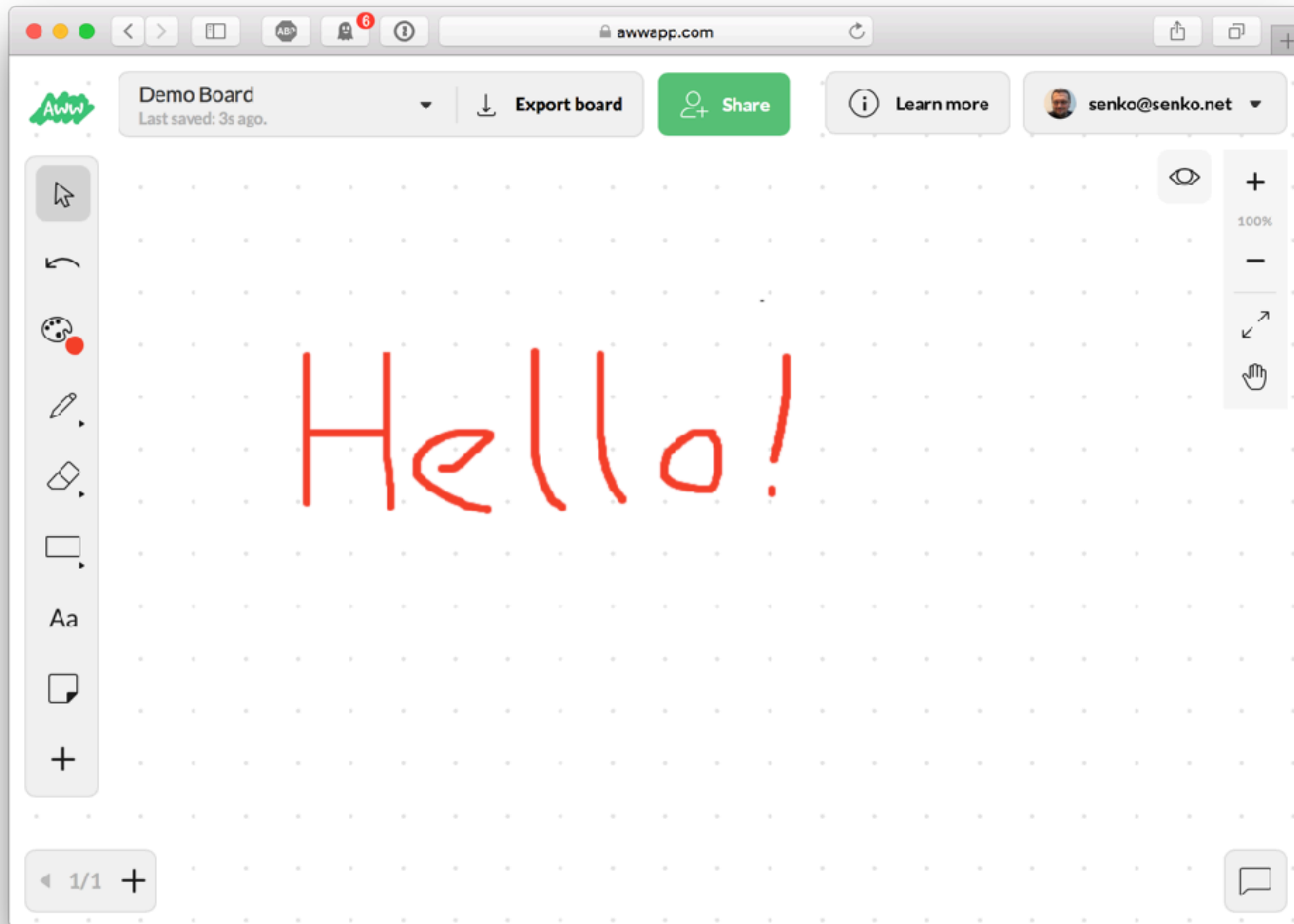




Chasing the Ghost

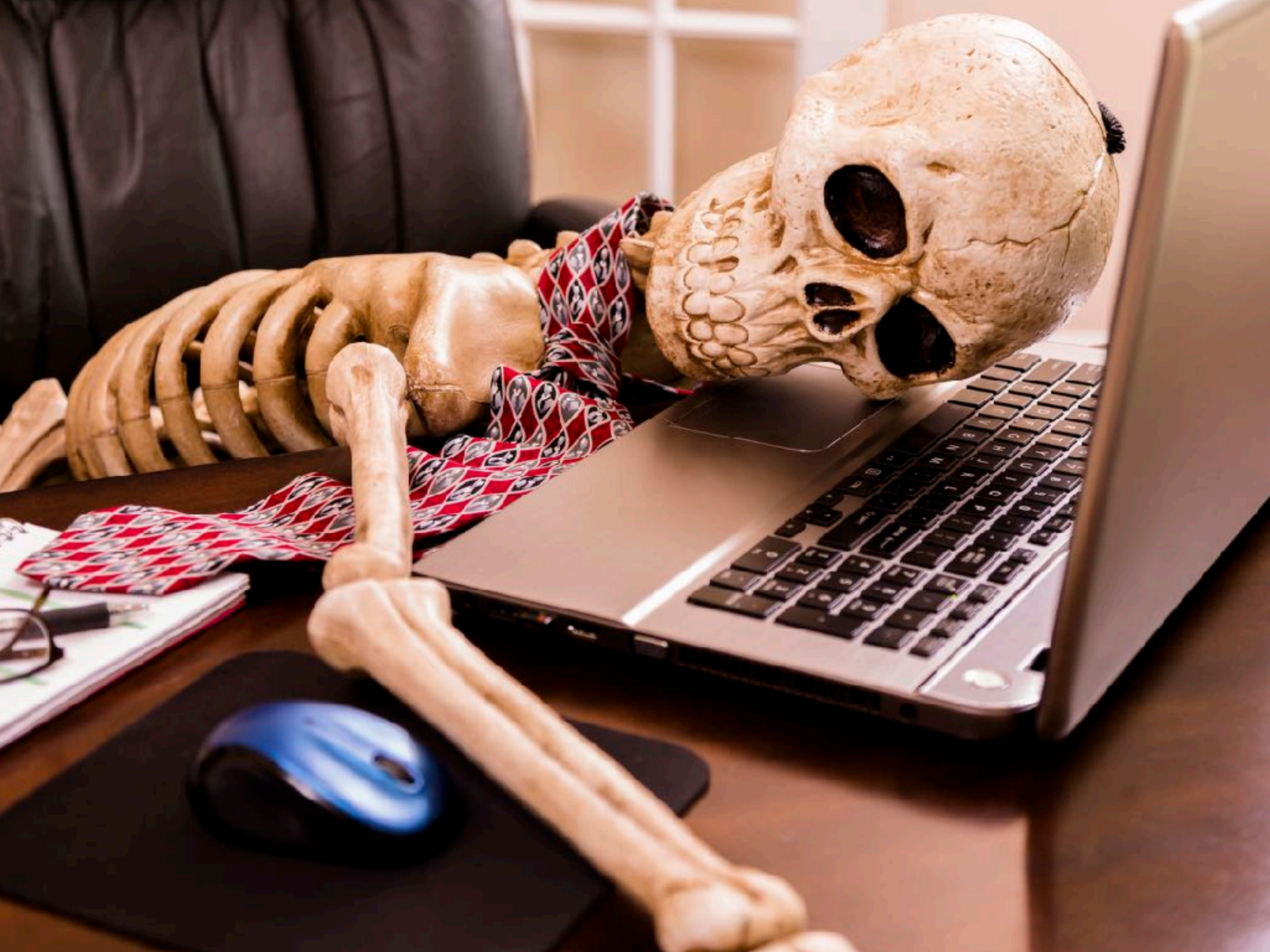
Senko Rašić

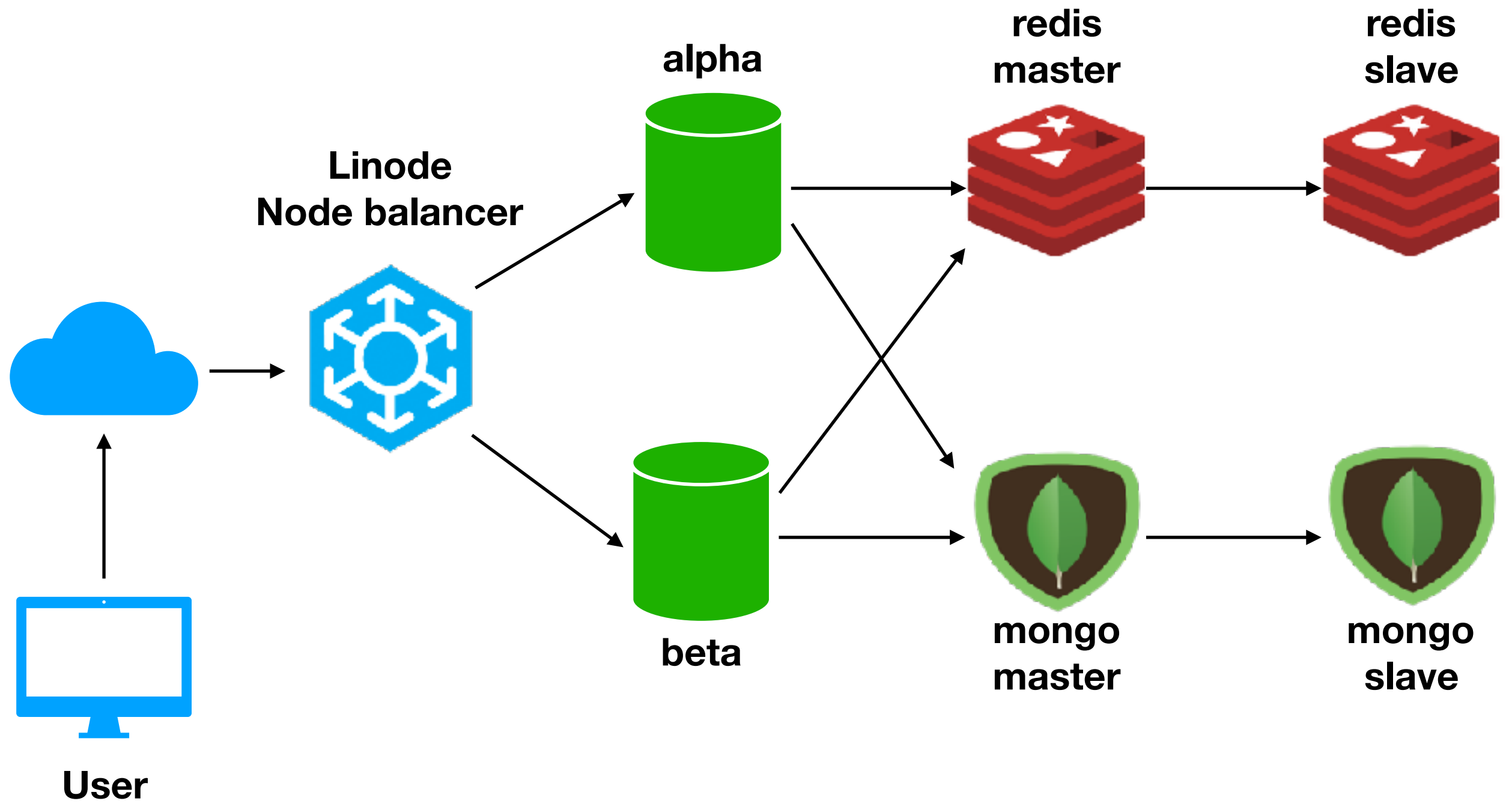
[<senko@senkorasic.com>](mailto:senko@senkorasic.com)



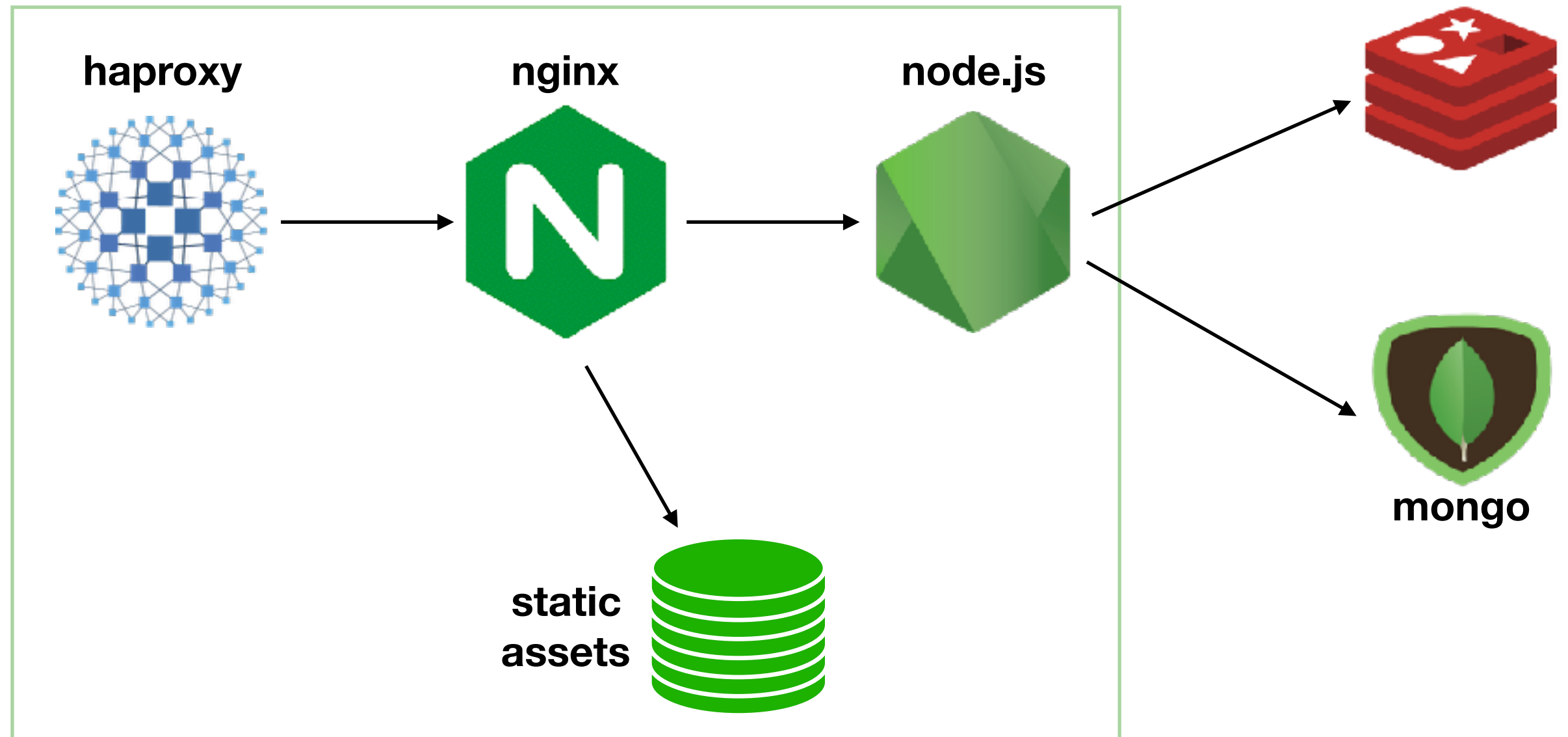


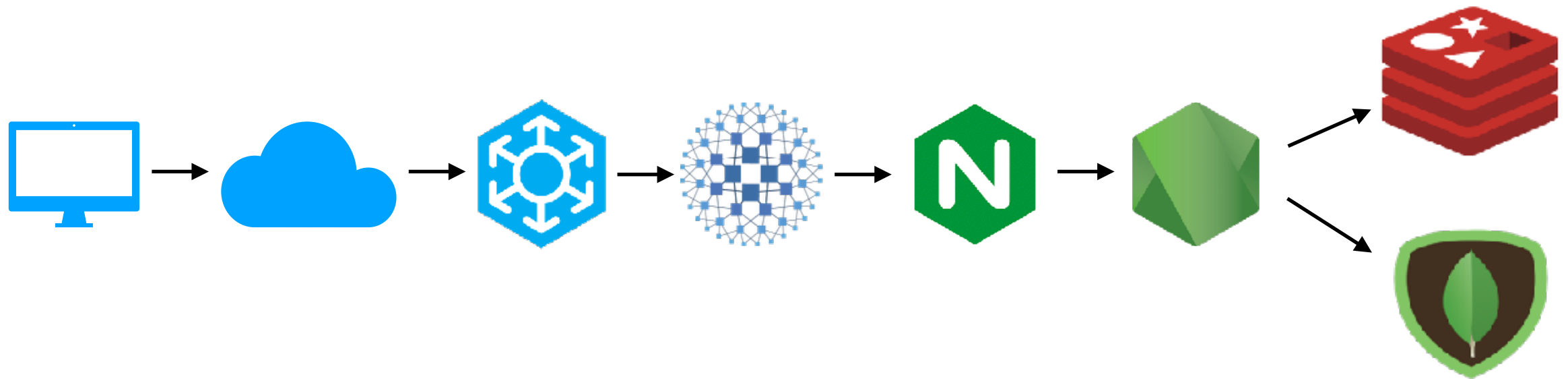






application server





Total request/response time: 60s


```
var emitTime = new Date();
socket.emit(msg, data, function(data) {
    var replyTime = new Date(),
        rtt = (replyTime - emitTime);
    if ((replyTime - emitTime) > 2000) {
        debug('Slow socket reply: ' + msg + ' in ' + rtt + 'ms', data);
        Raven.captureMessage('Slow socket reply', {
            level: 'warning',
            extra: {
                rtt: rtt,
                boardId: (typeof window.aww !== "undefined") ?
                    window.aww.getBoardInfo().boardId : undefined
            }
        });
    }
});
```

index.html

178ms

logo.png

87ms

socket.io

WS init

frame

frame

frame

frame

...

nginx

```
127.0.0.1 - - [21/Oct/2017:15:22:06 +0000] "GET / HTTP/1.1" 200 853714 "-" "curl/7.52.1" 0.000 -
```

haproxy

```
Oct 21 15:22:06 aww-alpha haproxy[23673]: 192.168.255.45:50954 [21/Oct/2017:15:22:05.891]  
      front_web~ back_web/local 281/0/0/0/472 200 854022 - - ---- 817/69/40/41/0 0/0 "GET / HTTP/1.1"
```

waiting for request: 281ms

waiting in internal queue: 0ms

connecting to upstream: 0ms

waiting for upstream: 0ms

total time (including sending response): 472ms

client

“The request for `/api/board/NNN/ops` timed out.”

haproxy

```
Oct 24 02:43:54 aww-beta haproxy[32283]: 192.168.255.34:50854 [24/Oct/2017:02:43:54.141]  
      front_web~ back_web/local 65/0/1/76/143 200 4364 - - -- 672/361/278/278/0 0/0  
      "GET /api/board/NNN/ops HTTP/1.1"
```

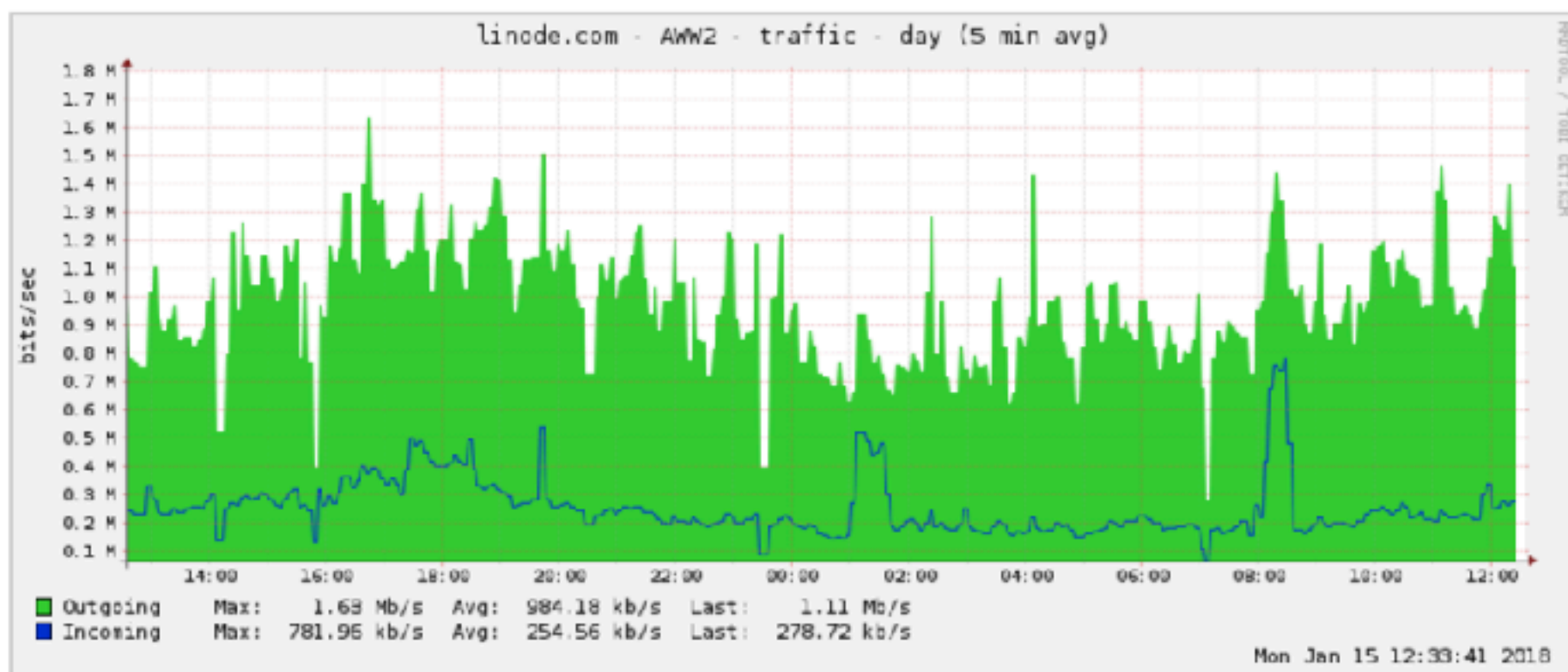
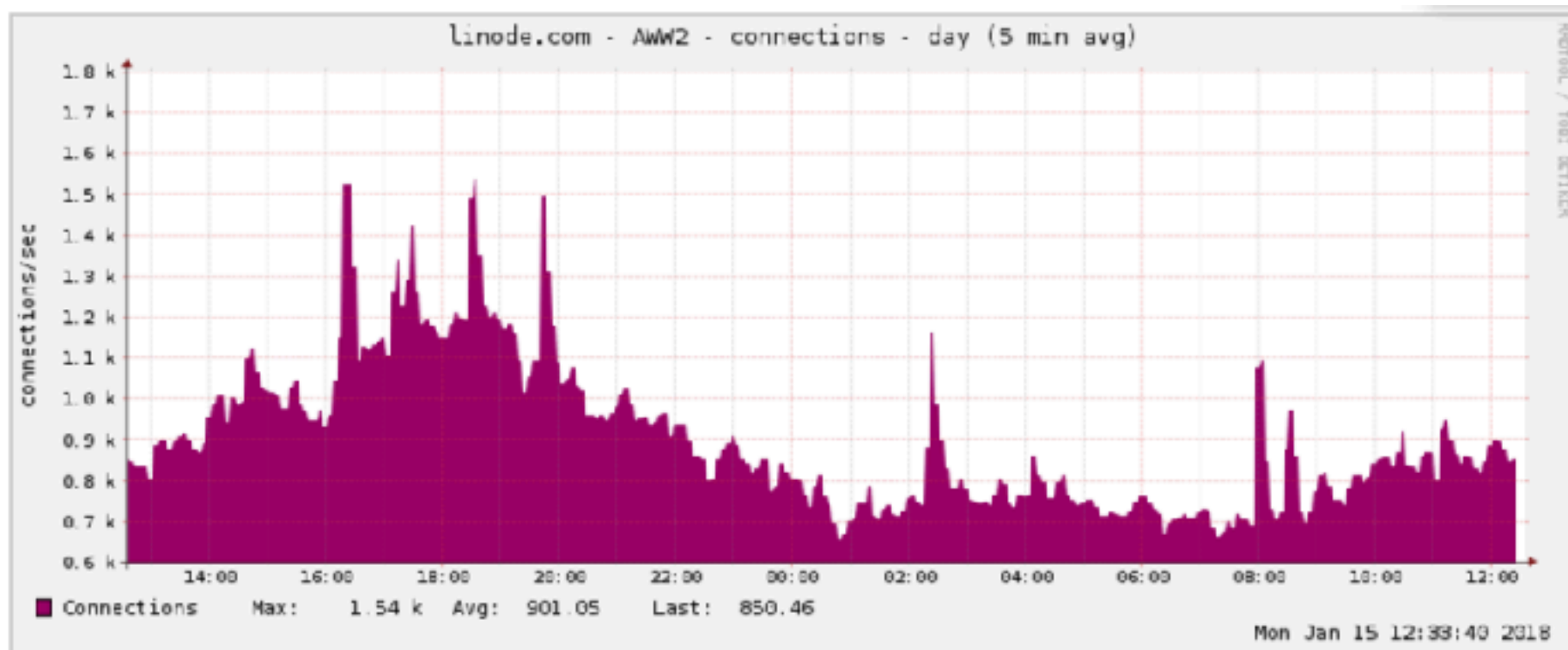
waiting for request: 65ms

waiting in internal queue: 0ms

connecting to upstream: 1ms

waiting for upstream: 76ms

total time (including sending response): 143ms





connecting to upstream server directly

```
root@localhost:~# curl https://aww-alpha/ -o /dev/null
100 841k 100 841k 0 0 575k 0 0:00:01 0:00:01 --:--:-- 575k
```

```
root@localhost:~# mtr -rwzbzc 100 aww-alpha
```

```
Start: Tue Oct 24 13:53:51 2017
```

```
HOST: localhost Loss% Snt Last Avg Best Wrst StDev
```

```
...
```

```
9. AS63949 aww-alpha (...) 1.0% 100 154.9 155.0 154.8 155.4 0.0
```

connecting via load balancer

```
root@localhost:~# curl https://awwapp.com/ -o /dev/null
```

```
100 841k 100 841k 0 0 25761 0 0:00:33 0:00:33 --:--:-- 200k
```

```
root@localhost:~# mtr -rwzbzc 100 awwapp.com # node balancer
```

```
Start: Tue Oct 24 13:53:13 2017
```

```
HOST: localhost Loss% Snt Last Avg Best Wrst StDev
```

```
8. AS63949 awwapp.com (96.126.99.209) 75.0% 100 157.4 155.1 154.9 157.4 0.5
```



The end!

... or is it?

Nov 27 22:45:44 aww-alpha haproxy[2387]: 192.168.255.34:58046 [27/Nov/2017:22:45:43.205]
front_web~ back_web/local 483/0/1/314/917 404 13082 - - ---- 2000/112/86/87/0 0/0 "GET / HTTP/1.1"

Nov 27 22:45:44 aww-alpha haproxy[2387]: 192.168.255.34:58046 [27/Nov/2017:22:45:43.205]
front_web~ back_web/local 483/0/1/314/917 404 13082 - - ---- 2000/112/86/87/0 0/0 "GET / HTTP/1.1"

Oct 21 15:22:06 aww-alpha haproxy[23673]: 192.168.255.45:50954 [21/Oct/2017:15:22:05.891]
front_web~ back_web/local 281/0/0/0/472 200 854022 - - ---- 817/69/40/41/0 0/0 "GET / HTTP/1.1"



The end!

no, really!