```
[12141:0x60c6900]    19041 ms: Mark-sweep (reduce) 482.2 (487.3) -> 481.4 (487.5) MB, 627.6 / 0.1 ms  (+ 0.1
ms in 16 steps since start of marking, biggest step 0.0 ms, walltime since start of marking 644 ms) (average
mu = 0.102, current mu = 0.026) alloc

<--- JS stacktrace --->

FATAL ERROR: Ineffective mark-compacts near heap limit Allocation failed - JavaScript heap out of memory
 1: 0xa3ac30 node::Abort() [node]
 2: 0x970199 node::FatalError(char const*, char const*) [node]
 3: 0xbba76e v8::Utils::ReportOOMFailure(v8::internal::Isolate*, char const*, bool) [node]
 4: 0xbbaae7 v8::internal::V8::FatalProcessOutOfMemory(v8::internal::Isolate*, char const*, bool) [node]
 5: 0xd76d05  [node]
 6: 0xd7788f  [node]
 7: 0xd856cb v8::internal::Heap::CollectGarbage(v8::internal::AllocationSpace, v8::internal::GarbageCollectio
nReason, v8::GCCallbackFlags) [node]
 8: 0xd8928c v8::internal::Heap::AllocateRawWithRetryOrFailSlowPath(int, v8::internal::AllocationType, v8::in
ternal::AllocationOrigin, v8::internal::AllocationAlignment) [node]
 9: 0xd5796b v8::internal::Factory::NewFillerObject(int, bool, v8::internal::AllocationType, v8::internal::Al
locationOrigin) [node]
10: 0x109ffbf v8::internal::Runtime_AllocateInYoungGeneration(int, unsigned long*, v8::internal::Isolate*) [n
ode]
11: 0x14491d9  [node]
Aborted
[ec2-user@ip-172-30-0-233 backend]$
```

컴파일 중 heap memory 부족으로 터져버린 서버

CPU 사용률(%)

상태 검사 실패(전체)(개수)

상태 검사 실패(인스턴스)(개수)

상태 검사 실패(시스템)(개수)

네트워크 입력(바이트)

네트워크 출력(바이트)

네트워크 패킷 입력(개수)

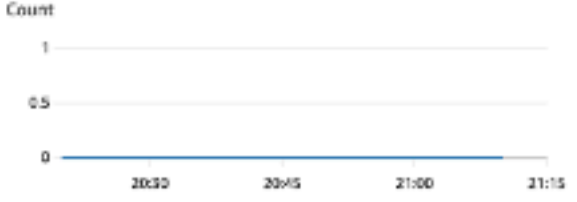
네트워크 패킷 출력(개수)

디스크 읽기(바이트)

디스크 읽기 작업(작업)

디스크 쓰기(바이트)

디스크 쓰기 작업(작업)



CPU 크레딧 사용량(개수)

CPU 크레딧 밸런스(개수)

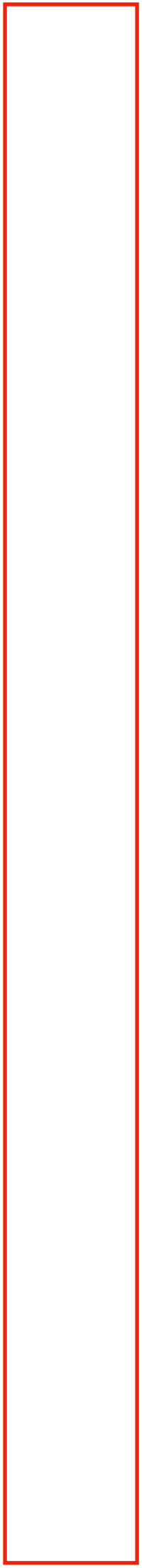
천장을 찍어버린 리소스 사용률

ec2-user@ip-172-30-0-233:~/clone-insta/backend/src — ssh -i ~/Desktop/LinuxEc2Key.pem ec2-user@ec2-3-35-0-215.ap-northeast-2.compute.amazonaws.com — 134×67

```
r@ip-172-30-0-233 src]$
```

daniel — ec2-user@ip-172-30-0-233:~ — ssh -i ~/Desktop/LinuxEc2Key.pem ec2-user@ec2-3-35-0-215.ap-northeast-2.compute.amazonaws.com — 147×77

```
Last login: Wed Feb  1 12:34:38 on ttys001
daniel@Danielui-MacBookPro ~ % ssh -i /Users/daniel/Desktop/LinuxEc2Key.pem ec2-user@ec2-3-35-0-215.ap-northeast-2.compute.amazonaws.com
Last login: Wed Feb  1 03:34:43 2023 from 119.197.34.56

       __|  __|_  )
       _|  (     /   Amazon Linux 2 AMI
      ___|\___|___|

https://aws.amazon.com/amazon-linux-2/
-bash: warning: setlocale: LC_CTYPE: cannot change locale (UTF-8): No such file or directory
[ec2-user@ip-172-30-0-233 ~]$ free -h
              total        used        free      shared  buff/cache   available
Mem:           964M        609M        140M         80K        214M        195M
Swap:          2.0G         49M        2.0G
[ec2-user@ip-172-30-0-233 ~]$ free -h
              total        used        free      shared  buff/cache   available
Mem:           964M        713M         64M         72K        186M         91M
Swap:          2.0G         43M        2.0G
[ec2-user@ip-172-30-0-233 ~]$ free -h
              total        used        free      shared  buff/cache   available
Mem:           964M        726M         67M         72K        171M         82M
Swap:          2.0G         43M        2.0G
[ec2-user@ip-172-30-0-233 ~]$ free -h
              total        used        free      shared  buff/cache   available
Mem:           964M        740M         68M         72K        155M         76M
Swap:          2.0G         43M        2.0G
[ec2-user@ip-172-30-0-233 ~]$ free -h
              total        used        free      shared  buff/cache   available
Mem:           964M        765M         62M         60K        136M         61M
Swap:          2.0G         43M        2.0G
[ec2-user@ip-172-30-0-233 ~]$ free -h
              total        used        free      shared  buff/cache   available
Mem:           964M        779M         60M         60K        124M         52M
Swap:          2.0G         43M        2.0G
[ec2-user@ip-172-30-0-233 ~]$ free -h
              total        used        free      shared  buff/cache   available
Mem:           964M        812M         66M         60K         85M         40M
Swap:          2.0G         43M        2.0G
[ec2-user@ip-172-30-0-233 ~]$ free -h
              total        used        free      shared  buff/cache   available
Mem:           964M        809M         74M         60K         88M         45M
Swap:          2.0G         91M        1.9G
[ec2-user@ip-172-30-0-233 ~]$ free -h
              total        used        free      shared  buff/cache   available
Mem:           964M        819M         65M         60K         79M         35M
Swap:          2.0G        121M        1.9G
[ec2-user@ip-172-30-0-233 ~]$ free -h
              total        used        free      shared  buff/cache   available
Mem:           964M        816M         66M         60K         81M         37M
Swap:          2.0G        164M        1.8G
[ec2-user@ip-172-30-0-233 ~]$ free -h
              total        used        free      shared  buff/cache   available
Mem:           964M        810M         71M         60K         83M         43M
Swap:          2.0G        179M        1.8G
[ec2-user@ip-172-30-0-233 ~]$ free -h
              total        used        free      shared  buff/cache   available
Mem:           964M        810M         70M         60K         84M         42M
Swap:          2.0G        191M        1.8G
[ec2-user@ip-172-30-0-233 ~]$
```



ec2-user@ip-172-30-0-233:~/clone-insta/backend/src — ssh -i ~/Desktop/LinuxEc2Key.pem ec2-user@ec2-3-35-0-215.ap-northeast-2.compute.amazonaws.com — 134×67

```
r@ip-172-30-0-233 src]$
```

daniel — ec2-user@ip-172-30-0-233:~ — ssh -i ~/Desktop/LinuxEc2Key.pem ec2-user@ec2-3-35-0-215.ap-northeast-2.compute.amazonaws.com — 147×77

```
Last login: Wed Feb  1 12:34:38 on ttys001
daniel@Danielui-MacBookPro ~ % ssh -i /Users/daniel/Desktop/LinuxEc2Key.pem ec2-user@ec2-3-35-0-215.ap-northeast-2.compute.amazonaws.com
Last login: Wed Feb  1 03:34:43 2023 from 119.197.34.56

       __|  __|_  )
       _|  (     /   Amazon Linux 2 AMI
      ___|\___|___|

https://aws.amazon.com/amazon-linux-2/
-bash: warning: setlocale: LC_CTYPE: cannot change locale (UTF-8): No such file or directory
[ec2-user@ip-172-30-0-233 ~]$ free -h
              total        used        free      shared  buff/cache   available
Mem:           964M        609M        140M         80K        214M        195M
Swap:          2.0G         49M        2.0G
[ec2-user@ip-172-30-0-233 ~]$ free -h
              total        used        free      shared  buff/cache   available
Mem:           964M        713M         64M         72K        186M         91M
Swap:          2.0G         43M        2.0G
[ec2-user@ip-172-30-0-233 ~]$ free -h
              total        used        free      shared  buff/cache   available
Mem:           964M        726M         67M         72K        171M         82M
Swap:          2.0G         43M        2.0G
[ec2-user@ip-172-30-0-233 ~]$ free -h
              total        used        free      shared  buff/cache   available
Mem:           964M        740M         68M         72K        155M         76M
Swap:          2.0G         43M        2.0G
[ec2-user@ip-172-30-0-233 ~]$ free -h
              total        used        free      shared  buff/cache   available
Mem:           964M        765M         62M         60K        136M         61M
Swap:          2.0G         43M        2.0G
[ec2-user@ip-172-30-0-233 ~]$ free -h
              total        used        free      shared  buff/cache   available
Mem:           964M        779M         60M         60K        124M         52M
Swap:          2.0G         43M        2.0G
[ec2-user@ip-172-30-0-233 ~]$ free -h
              total        used        free      shared  buff/cache   available
Mem:           964M        812M         66M         60K         85M         40M
Swap:          2.0G         43M        2.0G
[ec2-user@ip-172-30-0-233 ~]$ free -h
              total        used        free      shared  buff/cache   available
Mem:           964M        809M         74M         60K         88M         45M
Swap:          2.0G         91M        1.9G
[ec2-user@ip-172-30-0-233 ~]$ free -h
              total        used        free      shared  buff/cache   available
Mem:           964M        819M         65M         60K         79M         35M
Swap:          2.0G        121M        1.9G
[ec2-user@ip-172-30-0-233 ~]$ free -h
              total        used        free      shared  buff/cache   available
Mem:           964M        816M         66M         60K         81M         37M
Swap:          2.0G        164M        1.8G
[ec2-user@ip-172-30-0-233 ~]$ free -h
              total        used        free      shared  buff/cache   available
Mem:           964M        810M         71M         60K         83M         43M
Swap:          2.0G        179M        1.8G
[ec2-user@ip-172-30-0-233 ~]$ free -h
              total        used        free      shared  buff/cache   available
Mem:           964M        810M         70M         60K         84M         42M
Swap:          2.0G        191M        1.8G
[ec2-user@ip-172-30-0-233 ~]$
```

ec2-user@ip-172-30-0-233:~/clone-insta/backend/src — ssh -i ~/Desktop/LinuxEc2Key.pem ec2-user@ec2-3-35-0-215.ap-northeast-2.compute.amazonaws.com — 134×67

```
r@ip-172-30-0-233 src]$
```

daniel — ec2-user@ip-172-30-0-233:~ — ssh -i ~/Desktop/LinuxEc2Key.pem ec2-user@ec2-3-35-0-215.ap-northeast-2.compute.amazonaws.com — 147×77

```
Last login: Wed Feb  1 12:34:38 on ttys001
daniel@Danielui-MacBookPro ~ % ssh -i /Users/daniel/Desktop/LinuxEc2Key.pem ec2-user@ec2-3-35-0-215.ap-northeast-2.compute.amazonaws.com
Last login: Wed Feb  1 03:34:43 2023 from 119.197.34.56

       __|  __|_  )
       _|  (     /   Amazon Linux 2 AMI
      ___|\___|___|

https://aws.amazon.com/amazon-linux-2/
-bash: warning: setlocale: LC_CTYPE: cannot change locale (UTF-8): No such file or directory
[ec2-user@ip-172-30-0-233 ~]$ free -h
              total        used        free      shared  buff/cache   available
Mem:           964M        609M        140M         80K        214M        195M
Swap:          2.0G         49M        2.0G
[ec2-user@ip-172-30-0-233 ~]$ free -h
              total        used        free      shared  buff/cache   available
Mem:           964M        713M         64M         72K        186M         91M
Swap:          2.0G         43M        2.0G
[ec2-user@ip-172-30-0-233 ~]$ free -h
              total        used        free      shared  buff/cache   available
Mem:           964M        726M         67M         72K        171M         82M
Swap:          2.0G         43M        2.0G
[ec2-user@ip-172-30-0-233 ~]$ free -h
              total        used        free      shared  buff/cache   available
Mem:           964M        740M         68M         72K        155M         76M
Swap:          2.0G         43M        2.0G
[ec2-user@ip-172-30-0-233 ~]$ free -h
              total        used        free      shared  buff/cache   available
Mem:           964M        765M         62M         60K        136M         61M
Swap:          2.0G         43M        2.0G
[ec2-user@ip-172-30-0-233 ~]$ free -h
              total        used        free      shared  buff/cache   available
Mem:           964M        779M         60M         60K        124M         52M
Swap:          2.0G         43M        2.0G
[ec2-user@ip-172-30-0-233 ~]$ free -h
              total        used        free      shared  buff/cache   available
Mem:           964M        812M         66M         60K         85M         40M
Swap:          2.0G         43M        2.0G
[ec2-user@ip-172-30-0-233 ~]$ free -h
              total        used        free      shared  buff/cache   available
Mem:           964M        809M         74M         60K         80M         45M
Swap:          2.0G         91M        1.9G
[ec2-user@ip-172-30-0-233 ~]$ free -h
              total        used        free      shared  buff/cache   available
Mem:           964M        819M         65M         60K         79M         35M
Swap:          2.0G        121M        1.9G
[ec2-user@ip-172-30-0-233 ~]$ free -h
              total        used        free      shared  buff/cache   available
Mem:           964M        816M         66M         60K         81M         37M
Swap:          2.0G        164M        1.8G
[ec2-user@ip-172-30-0-233 ~]$ free -h
              total        used        free      shared  buff/cache   available
Mem:           964M        810M         71M         60K         83M         43M
Swap:          2.0G        179M        1.8G
[ec2-user@ip-172-30-0-233 ~]$ free -h
              total        used        free      shared  buff/cache   available
Mem:           964M        810M         70M         60K         84M         42M
Swap:          2.0G        191M        1.8G
[ec2-user@ip-172-30-0-233 ~]$
```

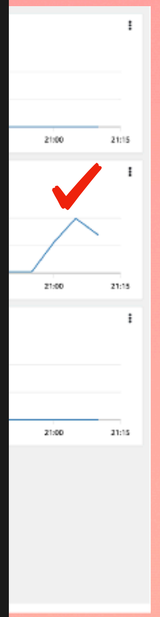
Heap Memory ?

Trouble

```
[12141:0x60c6900]
ms in 16 steps since
mu = 0.102, current m

<--- JS stacktrace --

FATAL ERROR: Ineffect
 1: 0xa3ac30 node::Ab
 2: 0x970199 node::Fa
 3: 0xbba76e v8::Util
 4: 0xbbaae7 v8::inte
 5: 0xd76d05  [node]
 6: 0xd7788f  [node]
 7: 0xd856cb v8::inte
nReason, v8::GCCallba
 8: 0xd8928c v8::inte
ternal::AllocationOri
 9: 0xd5796b v8::inte
locationOrigin) [node
10: 0x109ffbf v8::int
ode]
11: 0x14491d9  [node]
Aborted
[ec2-user@ip-172-30-0
```

```
ec2-user@ip-172-30-0-233:~/clone-insta/backend/src — ssh -i ~/Desktop/LinuxEc2Key.pem ec2-user@ec2-3-35-0-215.ap-northeast-2.compute.amazonaws.com — 134×67
r@ip-172-30-0-233 src]$
```

```
daniel — ec2-user@ip-172-30-0-233:~ — ssh -i ~/Desktop/LinuxEc2Key.pem ec2-user@ec2-3-35-0-215.ap-northeast-2.compute.amazonaws.com — 147×77
Last login: Wed Feb  1 12:34:38 on ttys001
daniel@Danielui-MacBookPro ~ % ssh -i /Users/daniel/Desktop/LinuxEc2Key.pem ec2-user@ec2-3-35-0-215.ap-northeast-2.compute.amazonaws.com
Last login: Wed Feb  1 03:34:43 2023 from 119.197.34.56

       __|  __|_  )
       _|  (     /   Amazon Linux 2 AMI
      ___|\___|___|

https://aws.amazon.com/amazon-linux-2/
-bash: warning: setlocale: LC_CTYPE: cannot change locale (UTF-8): No such file or directory
[ec2-user@ip-172-30-0-233 ~]$ free -h
              total        used        free      shared  buff/cache   available
Mem:           964M        609M        140M         80K        214M        195M
Swap:          2.0G         49M        2.0G
[ec2-user@ip-172-30-0-233 ~]$ free -h
              total        used        free      shared  buff/cache   available
Mem:           964M        713M         64M         72K        186M         91M
Swap:          2.0G         43M        2.0G
[ec2-user@ip-172-30-0-233 ~]$ free -h
              total        used        free      shared  buff/cache   available
Mem:           964M        726M         67M         72K        171M         82M
Swap:          2.0G         43M        2.0G
[ec2-user@ip-172-30-0-233 ~]$ free -h
              total        used        free      shared  buff/cache   available
Mem:           964M        740M         68M         72K        155M         76M
Swap:          2.0G         43M        2.0G
[ec2-user@ip-172-30-0-233 ~]$ free -h
              total        used        free      shared  buff/cache   available
Mem:           964M        765M         62M         60K        136M         61M
Swap:          2.0G         43M        2.0G
[ec2-user@ip-172-30-0-233 ~]$ free -h
              total        used        free      shared  buff/cache   available
Mem:           964M        779M         60M         60K        124M         52M
Swap:          2.0G         43M        2.0G
[ec2-user@ip-172-30-0-233 ~]$ free -h
              total        used        free      shared  buff/cache   available
Mem:           964M        812M         66M         60K         85M         40M
Swap:          2.0G         43M        2.0G
[ec2-user@ip-172-30-0-233 ~]$ free -h
              total        used        free      shared  buff/cache   available
Mem:           964M        809M         74M         60K         80M         45M
Swap:          2.0G         91M        1.9G
[ec2-user@ip-172-30-0-233 ~]$ free -h
              total        used        free      shared  buff/cache   available
Mem:           964M        819M         65M         60K         79M         35M
Swap:          2.0G        121M        1.9G
[ec2-user@ip-172-30-0-233 ~]$ free -h
              total        used        free      shared  buff/cache   available
Mem:           964M        816M         66M         60K         81M         37M
Swap:          2.0G        164M        1.8G
[ec2-user@ip-172-30-0-233 ~]$ free -h
              total        used        free      shared  buff/cache   available
Mem:           964M        810M         71M         60K         83M         43M
Swap:          2.0G        179M        1.8G
[ec2-user@ip-172-30-0-233 ~]$ free -h
              total        used        free      shared  buff/cache   available
Mem:           964M        810M         70M         60K         84M         42M
Swap:          2.0G        191M        1.8G
[ec2-user@ip-172-30-0-233 ~]$
```



Build 중 급격히
하락하는 가용 메모리

Heap Memory ?

Heap Out of Memory