









```
[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::GarbageCollectionReason, v8::GCCallbackFlags) [node]
8: 0xd8928c v8::internal::Heap::AllocateRawWithRetryOrFailSlowPath(int, v8::internal::AllocationType, v8::internal::AllocationOrigin, v8::internal::AllocationAlignment) [node]
9: 0xd5796b v8::internal::Factory::NewFillerObject(int, bool, v8::internal::AllocationType, v8::internal::AllocationOrigin) [node]
10: 0x109ffbf v8::internal::Runtime_AllocateInYoungGeneration(int, unsigned long*, v8::internal::Isolate*) [node]
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)



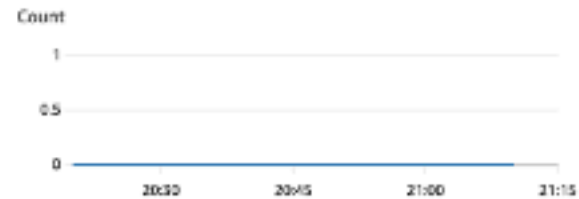
디스크 읽기 작업(작업)



디스크 쓰기(바이트)



디스크 쓰기 작업(작업)



CPU 크레딧 사용량(개수)



CPU 크레딧 밸런스(개수)







# 친환경 에너지 관리 시스템













# Heap Memory ?

## Trouble

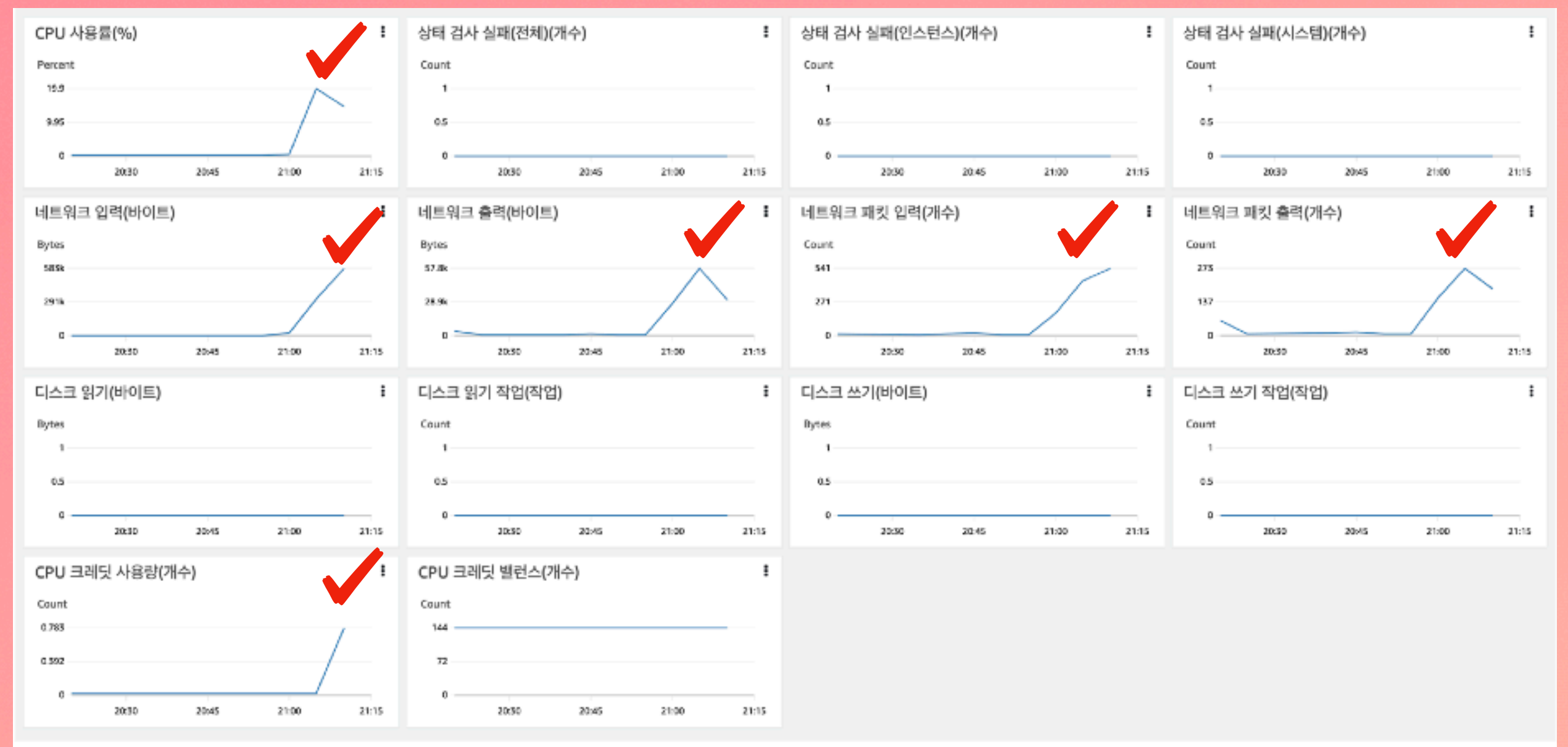
컴파일 중 heap memory 부족으로 터져버린 서버

```
[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

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10: 0x109ffbf v8::internal::Runtime_AllocateInYoungGeneration(int, unsigned long*, v8::internal::Isolate*) [node]
11: 0x14491d9 [node]
Aborted
[ec2-user@ip-172-30-0-233 backend]$
```

천장을 찍어버린 리소스 사용률





# Heap Memory ?

## Trouble

컴파일 중 heap memory 부족으로 터져버린 서버

```
[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
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Aborted
[ec2-user@ip-172-30-0-233 backend]$
```

