

As part of the task to try out KASAN, I read through official KASAN documentation in Linux Kernel (<https://www.kernel.org/doc/html/v4.14/dev-tools/kasan.html>) & mentor Desmond Cheong's blog (https://www.desmondcheong.com/blog/2021/06/05/building-the-linux-kernel-with-config_kasan/).

Then I enabled CONFIG_KASAN in kernel config & built & installed the kernel. I enabled following CONFIG options.

```
CONFIG_KASAN=y
CONFIG_KASAN_GENERIC=y
CONFIG_KASAN_INLINE=y
CONFIG_KUNIT=y
CONFIG_STACKTRACE=y
```

I then wrote a small kernel module & created a `use-after-free` error like code (https://github.com/sbcd90/kernel-module-kasan-test/blob/master/test_kasan1.c). Checked dmesg log & found kasan logs (<https://github.com/sbcd90/kernel-module-kasan-test#find-the-error>).

Analyzed the logs by looking into the memory state to verify that it is indeed a `use-after-free` error. (<https://github.com/sbcd90/kernel-module-kasan-test#verify-memory-state-content>)

Also documented my findings in a GitHub repo for my future reference. (<https://github.com/sbcd90/kernel-module-kasan-test>)