LibBpf CO-RE

1. What is SEC
2. BTF

/root/go/pkg/mod/github.com/aquasecurity/libbpfgo@v0.4.5-libbpf-1.0.1/libbpfgo.go:276:55: could not determine kind of name for C.LIBBPF\_STRICT\_AUTO\_RLIMIT\_MEMLOCK

/root/go/pkg/mod/github.com/aquasecurity/libbpfgo@v0.4.5-libbpf-1.0.1/libbpfgo.go:277:55: could not determine kind of name for C.LIBBPF\_STRICT\_MAP\_DEFINITIONS

/root/go/pkg/mod/github.com/aquasecurity/libbpfgo@v0.4.5-libbpf-1.0.1/libbpfgo.go:707:9: could not determine kind of name for C.bpf\_map\_\_lookup\_elem

/root/go/pkg/mod/github.com/aquasecurity/libbpfgo@v0.4.5-libbpf-1.0.1/libbpfgo.go:1285:21: could not determine kind of name for C.bpf\_program\_\_type

/root/go/pkg/mod/github.com/aquasecurity/libbpfgo@v0.4.5-libbpf-1.0.1/libbpfgo.go:1984:16: could not determine kind of name for C.libbpf\_probe\_bpf\_map\_type

/root/go/pkg/mod/github.com/aquasecurity/libbpfgo@v0.4.5-libbpf-1.0.1/libbpfgo.go:1992:16: could not determine kind of name for C.libbpf\_probe\_bpf\_prog\_type

Problems with newer versions of libbpf on older linuxes

btf.c: In function ‘btf\_rewrite\_str’:

hashmap.h:126:50: error: the comparison will always evaluate as ‘false’ for the address of ‘mapped\_off’ will never be NULL [-Werror=address]

\_Static\_assert((\_\_builtin\_constant\_p((p)) ? (p) == NULL : 0) || \

^

hashmap.h:170:35: note: in expansion of macro ‘hashmap\_cast\_ptr’

hashmap\_find((map), (long)(key), hashmap\_cast\_ptr(value))

^

btf.c:1583:6: note: in expansion of macro ‘hashmap\_\_find’

hashmap\_\_find(p->str\_off\_map, \*str\_off, &mapped\_off)) {

^

btf.c: In function ‘btf\_dedup\_resolve\_fwd’:

hashmap.h:126:50: error: the comparison will always evaluate as ‘false’ for the address of ‘cand\_id’ will never be NULL [-Werror=address]

\_Static\_assert((\_\_builtin\_constant\_p((p)) ? (p) == NULL : 0) || \

^

hashmap.h:170:35: note: in expansion of macro ‘hashmap\_cast\_ptr’

hashmap\_find((map), (long)(key), hashmap\_cast\_ptr(value))

^

btf.c:4580:7: note: in expansion of macro ‘hashmap\_\_find’

if (!hashmap\_\_find(names\_map, t->name\_off, &cand\_id))

^

cc1: all warnings being treated as errors

Fixed by the Makefile update in libbpf

Go not found. Make PATH=$PATH

How to create the Debian: <https://www.internalpointers.com/post/build-binary-deb-package-practical-guide>