

golang-fips / openssl Public

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Commit 85d31d0

gdams authored on Mar 20, 2024 Verified

Merge pull request from GHSA-78hx-gp6g-7mj6

Fix memory leak in setupEVP and newCipherCtx

v2 · v2.0.3 ··· v2.0.1

2 parents 576fe0d + 6e2197a commit 85d31d0

2 files changed +11 -11 lines changed

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cipher.go

evp.go

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cipher.go

```

@@ -533,12 +533,12 @@ func sliceForAppend(in []byte, n int) (head, tail
[]byte) {
533 533     return
534 534 }
535 535
536 - func newCipherCtx(kind cipherKind, mode cipherMode, encrypt cipherOp, key, iv
[]byte) (ctx C.GO_EVP_CIPHER_CTX_PTR, err error) {
536 + func newCipherCtx(kind cipherKind, mode cipherMode, encrypt cipherOp, key, iv
[]byte) ( C.GO_EVP_CIPHER_CTX_PTR, err error) {
537 537     cipher := loadCipher(kind, mode)
538 538     if cipher == nil {
539 539         panic("crypto/cipher: unsupported cipher: " + kind.String())
540 540     }

```

```

541 -   ctx = C.go_openssl_EVP_CIPHER_CTX_new()
541 +   ctx := C.go_openssl_EVP_CIPHER_CTX_new()
542 542     if ctx == nil {
543 543         return nil, fail("unable to create EVP cipher ctx")
544 544     }

```

evp.go

```

@@ -149,7 +149,15 @@ type verifyFunc func(C.GO_EVP_PKEY_CTX_PTR, *C.uchar,
C.size_t, *C.uchar, C.size

149 149
150 150     func setupEVP(withKey withKeyFunc, padding C.int,
151 151         h, mgfHash hash.Hash, label []byte, saltLen C.int, ch crypto.Hash,
152 -   init initFunc) (ctx C.GO_EVP_PKEY_CTX_PTR, err error) {
152 +   init initFunc) (_ C.GO_EVP_PKEY_CTX_PTR, err error) {
153 +   var ctx C.GO_EVP_PKEY_CTX_PTR
154 +   withKey(func(pkey C.GO_EVP_PKEY_PTR) C.int {
155 +       ctx = C.go_openssl_EVP_PKEY_CTX_new(pkey, nil)
156 +       return 1
157 +   })
158 +   if ctx == nil {
159 +       return nil, newOpenSSLerError("EVP_PKEY_CTX_new failed")
160 +   }

153 161     defer func() {
154 162         if err != nil {
155 163             if ctx != nil {
@@ -158,14 +166,6 @@ func setupEVP(withKey withKeyFunc, padding C.int,

158 166         }
159 167     }
160 168 }()

161 -
162 -   withKey(func(pkey C.GO_EVP_PKEY_PTR) C.int {
163 -       ctx = C.go_openssl_EVP_PKEY_CTX_new(pkey, nil)
164 -       return 1
165 -   })
166 -   if ctx == nil {
167 -       return nil, newOpenSSLerError("EVP_PKEY_CTX_new failed")
168 -   }

169 169     if err := init(ctx); err != nil {
170 170         return nil, err

```

```
171 171 }
```



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