# [Critical bug]Fuelet Wallet password replacement attack

Author: nolan@exvul.vom

X:@ma1fan

# Description

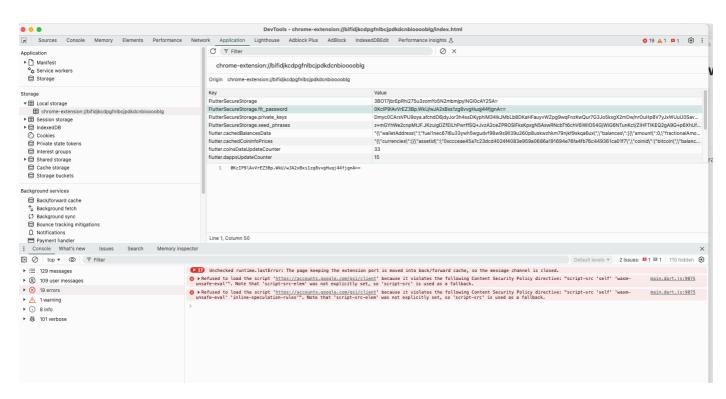
attacker can unlock user's wallet and stolen users private key or phrase words by replacement the ciphertext .even the wallet is locked, still can decrypt the viticm's private key and phrase words!!!

so this is a Critical bug.

### **Detail**

the wallet store the password ciphertext in localstorage, also the private keys phrase words.

the wallet only verify the password is vaild or not, and if the password is right will decrypt the private key or phrase words, the bad thing is when decrypt the private key or phrase words the wallet not verify the password can be decrypt success or not. if attacker can use a vaild ciphertext and replacement the viticim's ciphertext will bypass the password verify and attacker can decrypt the viticim's private key and phrase words,



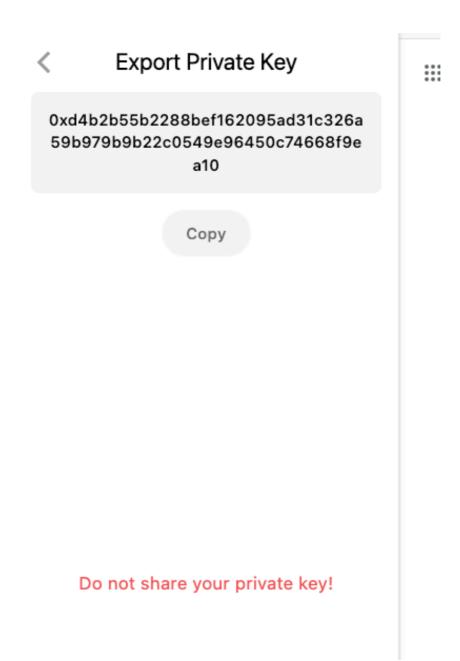
# **Exploit steps:**

1.**Attacker** create a wallet with password 123456

#### Ciphertext:

dH6MZkI7ysR3dEd1.JDjijPD46loY5WKvki7bEV/B48d2hA==

0xd4b2b55b2288bef162095ad31c326a59b979b9b22c0549e9 6450c74668f9ea10



- 2.vicitm create a wallet with password 00000000
- 3.Now you can replacment the victim's password Ciphertext with Attacker's password Ciphertext.

4. and then you can unlock the victim's wallet with attacker's password 123456.

and export the vicicim's privatekey, for now you can see the privatekey is victim's private key.

So this means you can stolen user's privatekey and phrase word!!!

also means attacker can stolen all the users funds\*\*

# **Impact:**

- 1. unlock the arbity wallet
- 2. Stolen user's privatekey
- 3. Stolen user's phrase words