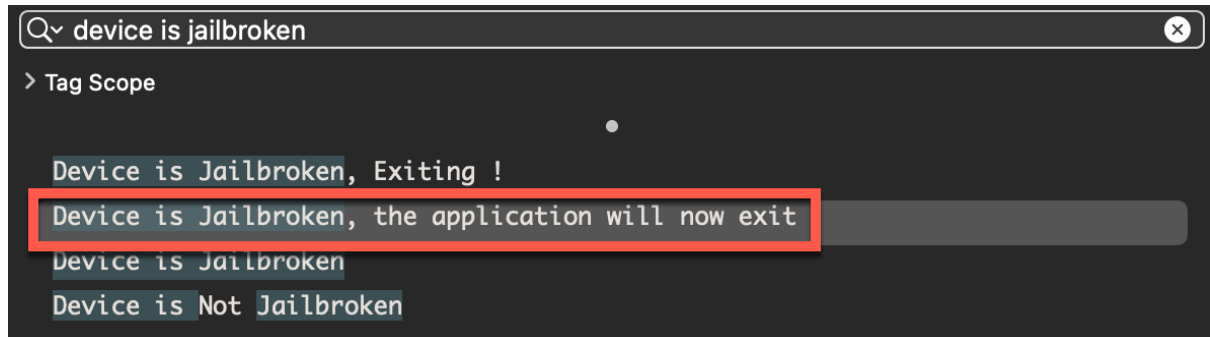


Methodology for Jailbreak 3

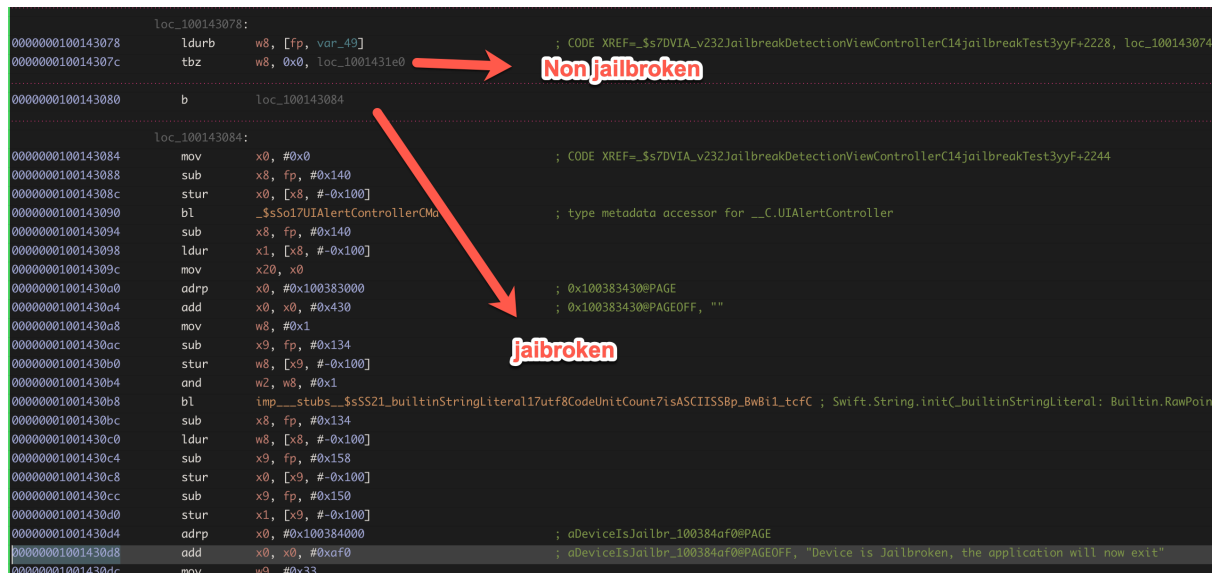
Searching using the highlighted string



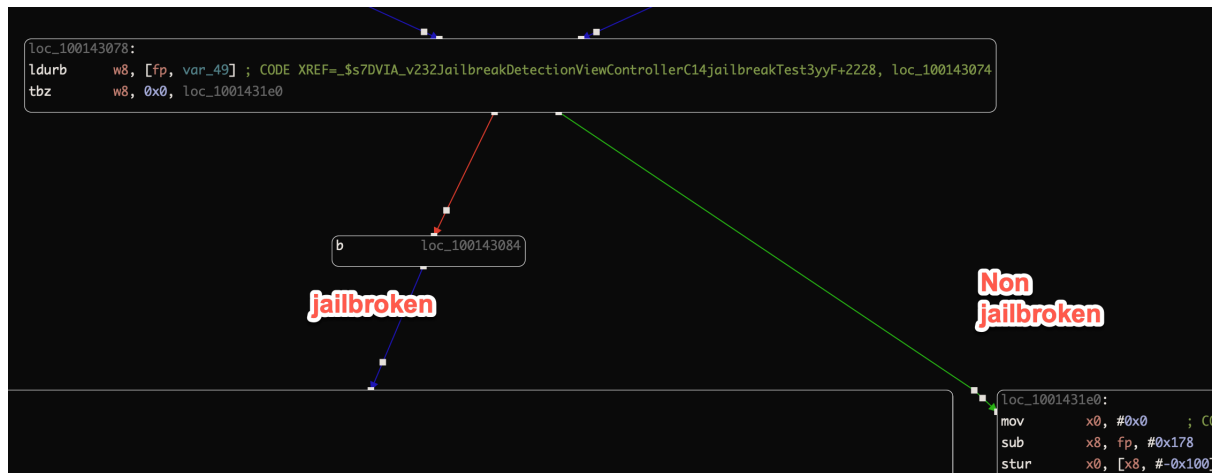
Click xref



So, you need to focus on the non-jailbroken path



High level overview



Use Frida code to modify bit 0 of w8 to 0

```

1  /*
2      🔍 Understanding the Jailbreak Check Mechanism
3
4      1 The function loads a value into register `w8`:
5          0000000100143078    ldurb    w8, [fp, var_49] ; Load a byte into w8 (likely a jailbreak flag)
6
7      2 The `TBZ` instruction checks **bit 0** of `w8`:
8          000000010014307c    tbz      w8, 0x0, loc_1001431e0
9
10         - If `bit 0 == 0` → Branch to `0x1431E0` (🚀 "Not Jailbroken" path)
11         - Otherwise → Continue execution to `0x143084` (💣 "Jailbroken" path)
12
13      3 If the check fails, execution jumps to `0x143084`:
14          0000000100143080    b        loc_100143084 ; Default path leads to jailbreak detection
15
16         - 🛑 `0x143084` → Displays "Device is Jailbroken" and **exits the app**.
17         - 🟢 `0x1431E0` → Displays "Device is Not Jailbroken" and **continues normally**.
18
19     🎯 Our Goal: **Modify `w8` so bit 0 is always `0`, forcing the app to **always branch to `0x1431E0`**.
20 */
21
22 // Define the target module (app binary)
23 var moduleName = "DVIA-v2";
24
25 // Find the base address of the module in memory (ASLR-safe)
26 var baseAddr = Module.findBaseAddress(moduleName);
27
28 if (baseAddr) {
29     console.log("[*] Found base address of " + moduleName + ": " + baseAddr);
30
31     // 📏 Offset of the TBZ instruction from static disassembly
32     var tbzOffset = 0x14307C; // TBZ instruction at 0x14307C
33
34     // 🎯 Calculate the actual memory address at runtime (handling ASLR)
35     var tbzInstruction = baseAddr.add(tbzOffset);
36
37     console.log("[*] Hooking into TBZ instruction at: " + tbzInstruction);
38
39     // 🔥 Attach an interceptor at the TBZ instruction
40     Interceptor.attach(tbzInstruction, {
41         onEnter: function(args) {
42             console.log("[*] Hooked into TBZ jailbreak check!");
43
44             // 🟡 Log the original value of W8 before modification
45             console.log("[*] Original W8 value: " + this.context.x8);
46
47             // 📏 Force bit 0 of W8 to 0, ensuring the TBZ instruction **always branches to 0x1431E0**
48             this.context.x8 &= ~1;
49
50             // ✅ Log the new W8 value after patching
51             console.log("[*] Patched W8 value: " + this.context.x8 + " (Forced Not Jailbroken)");
52         }
53     });
54 } else {
55     console.log("[!] Error: Could not find base address of module " + moduleName);
56 }
57

```

Output

```
suownersuowner@SuOwners-MacBook-Pro mobilePT % frida -U -l ./jb3-tbz-bypass.js -f com.hightitudehacks.DVIAswiftv2

  ____|
 / _ |  Frida 16.6.6 - A world-class dynamic instrumentation toolkit
| ( _ |
 > _ |  Commands:
/_/_|_ |  help      -> Displays the help system
. . . .  object?   -> Display information about 'object'
. . . .  exit/quit -> Exit
. . . .
. . . .  More info at https://frida.re/docs/home/
. . . .
. . . .  Connected to iPhone (id=224b4e5bd5c84df8a865a313093cf28126884ea9)
Spawning `com.hightitudehacks.DVIAswiftv2`...
[*] Found base address of DVIA-v2: 0x102020000
[*] Hooking into TBZ instruction at: 0x10216307c
Spawned `com.hightitudehacks.DVIAswiftv2`. Resuming main thread!
[iPhone::com.hightitudehacks.DVIAswiftv2 ]-> [*] Hooked into TBZ jailbreak check!
[*] Original W8 value: 0x1
[*] Patched W8 value: 0x0 (Forced Not Jailbroken)
```