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## Dynamic analysis of Swift application using Cycrypt or gdb

Asked 4 years, 2 months ago   Active 3 years, 11 months ago   Viewed 2k times



3

I am doing analysis of a Swift iOS application. I am able to attach gdb or Cycrypt, but after that these tools are not able to do any method swizzling. I cant even call some method directly using Cycrypt, which is very easy in Objective C apps.



3

In gdb, I can set the breakpoint on the methods, but it's not able to detect the same method during execution. If there is a way for runtime analysis of Swift apps, please let me know.



mobile   ios   runtime

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edited Dec 21 '16 at 18:10



Rory Alsop ♦

61.1k

11

112

310

asked Dec 21 '16 at 16:20



Saurabh

133

4

### 1 Answer

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2

Michael Gianarakis spoke about reversing Swift including hooking at the Hack-in-the Box conference in 2016 -- <http://gsec.hitb.org/materials/sg2016/COMMSEC%20D1%20-%20Michael%20Gianarakis%20-%20Reverse%20Engineering%20Swift%20Applications.pdf>



In particular, Michael goes over function hooking on getter methods (which work) and setters (which do not), as also discussed here --

<https://web.archive.org/web/20151004101419/http://www.eswick.com/2014/06/inside-swift/>



Some additional notes on function hooking and the ability to work it all together with MSHookFunction from Substrate is available here --

[https://www.securify.nl/blog/SFY20150302/hooking\\_swift\\_methods\\_for\\_fun\\_and\\_profit.html](https://www.securify.nl/blog/SFY20150302/hooking_swift_methods_for_fun_and_profit.html)

Here also is an older article on Swift method swizzling --

<https://www.uraimo.com/2015/10/23/effective-method-swizzling-with-swift/>

Finally, Michael makes mention to using macOS tools such as `nm` and `xcrun` to engineer a Swift-aware `class-dump`, but you can also check out this one here --

<https://github.com/BlueCocoa/class-dump/>

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answered Feb 13 '17 at 22:44



atdre

18.6k

5

56

105