IOS STATIC ANALYSIS REPORT

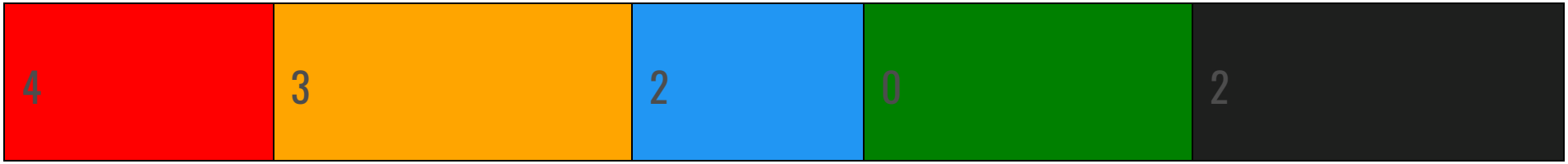
DVIA-v2 (2.0)

File Name:	DVIA-v2-swift.ipa
Identifier:	com.highaltitudehacks.DVIAswiftv2

Scan Date:	Jan. 27, 2024, 10:07 p.m.
App Security Score:	21/100 (CRITICAL RISK)
Grade:	F
Trackers Detection:	3/432

FINDINGS SEVERITY

HIGH	MEDIUM	INFO	SECURE	HOTSPOT



FILE INFORMATION

File Name: DVIA-v2-swift.ipa
Size: 19.37MB
MD5: 35469622303ba10a2195557a3ad1810a
SHA1: 85174824d6cd7c83df98c518247acf8a14b28882
SHA256: a0efb217f3dd018a4fbea7b2d63db7da4e21d5d7cdc20bd4a72a8a5b57e98817

APP INFORMATION

App Name: DVIA-v2
App Type: Swift
Identifier: com.highaltitudehacks.DVIAswiftv2
SDK Name: iphoneos11.2
Version: 2.0
Build: 1
Platform Version: 11.2
Min OS Version: 10.0
Supported Platforms: iPhoneOS,

BINARY INFORMATION

Arch: ARM64
Sub Arch: CPU_SUBTYPE_ARM64_ALL
Bit: 64-bit
Endian: <

#CUSTOM URL SCHEMES

URL NAME	SCHEMES
com.highaltitudehacks.DVIAswiftv2	dvia dviaswift

APPLICATION PERMISSIONS

PERMISSIONS	STATUS	INFO	REASON IN MANIFEST
NSCameraUsageDescription	dangerous	Access the Camera.	To demonstrate the misuse of Camera, please grant it permission once.

APP TRANSPORT SECURITY (ATS)

HIGH: 1 | WARNING: 0 | INFO: 0 | SECURE: 0

NO	ISSUE	SEVERITY	DESCRIPTION
1	App Transport Security AllowsArbitraryLoads is allowed	high	App Transport Security restrictions are disabled for all network connections. Disabling ATS means that unsecured HTTP connections are allowed. HTTPS connections are also allowed, and are still subject to default server trust evaluation. However, extended security checks like requiring a minimum Transport Layer Security (TLS) protocol version—are disabled. This setting is not applicable to domains listed in NSExceptionDomains.

IPA BINARY CODE ANALYSIS

HIGH: 3 | WARNING: 0 | INFO: 2 | SECURE: 0 | SUPPRESSED: 0

NO	ISSUE	SEVERITY	STANDARDS	DESCRIPTION
1	Binary makes use of insecure API(s)	high	**CWE:** CWE-676: Use of Potentially Dangerous Function **OWASP Top 10:** M7: Client Code Quality **OWASP MASVS:** MSTG-CODE-8	The binary may contain the following insecure API(s) _fopen , _memcpy , _printf , _strcpy , _strlen , _strncpy

NO	ISSUE	SEVERITY	STANDARDS	DESCRIPTION
2	Binary makes use of the insecure Random function(s)	high	**CWE:** CWE-330: Use of Insufficiently Random Values **OWASP Top 10:** M5: Insufficient Cryptography **OWASP MASVS:** MSTG-CRYPTO-6	The binary may use the following insecure Random function(s) _random
3	Binary makes use of Logging function	info	**CWE:** CWE-532: Insertion of Sensitive Information into Log File **OWASP MASVS:** MSTG-STORAGE-3	The binary may use _NSLog function for logging.
4	Binary makes use of malloc function	high	**CWE:** CWE-789: Uncontrolled Memory Allocation **OWASP Top 10:** M7: Client Code Quality **OWASP MASVS:** MSTG-CODE-8	The binary may use _malloc function instead of calloc
5	Binary uses WebView Component.	info	**OWASP MASVS:** MSTG-CODE-9	The binary may use UIWebView Component.

IPA BINARY ANALYSIS

PROTECTION	STATUS	SEVERITY	DESCRIPTION
NX	True	info	The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.
PIE	True	info	The binary is build with -fPIC flag which enables Position independent code. This makes Return Oriented Programming (ROP) attacks much more difficult to execute reliably.
STACK CANARY	True	info	This binary has a stack canary value added to the stack so that it will be overwritten by a stack buffer that overflows the return address. This allows detection of overflows by verifying the integrity of the canary before function return.
ARC	True	info	The binary is compiled with Automatic Reference Counting (ARC) flag. ARC is a compiler feature that provides automatic memory management of Objective-C objects and is an exploit mitigation mechanism against memory corruption vulnerabilities.
RPATH	True	warning	The binary has Runpath Search Path (@rpath) set. In certain cases an attacker can abuse this feature to run arbitrary executable for code execution and privilege escalation. Remove the compiler option -rpath to remove @rpath.

PROTECTION	STATUS	SEVERITY	DESCRIPTION
CODE SIGNATURE	True	info	This binary has a code signature.
ENCRYPTED	False	warning	This binary is not encrypted.
SYMBOLS STRIPPED	False	warning	Debug Symbols are available. To strip debugging symbols, set Strip Debug Symbols During Copy to YES, Deployment Postprocessing to YES, and Strip Linked Product to YES in project's build settings.

DYNAMIC LIBRARY & FRAMEWORK BINARY ANALYSIS

NO	DYLIB/FRAMEWORK	NX	STACK CANARY	ARC	RPATH	CODE SIGNATURE	ENCRYPTED	SYMBOLS STRIPPED

NO	DYLIB/FRAMEWORK	NX	STACK CANARY	ARC	RPATH	CODE SIGNATURE	ENCRYPTED	SYMBOLS STRIPPED
1	DVIA-v2.app/libswiftRemoteMirror.dylib	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	False warning This binary does not have a stack canary value added to the stack. Stack canaries are used to detect and prevent exploits from overwriting return address. Use the option -fstack-protector-all to enable stack canaries. This might be okey for pure Swift dylibs.	False high The binary is not compiled with Automatic Reference Counting (ARC) flag. ARC is a compiler feature that provides automatic memory management of Objective-C objects and protects from memory corruption vulnerabilities. Use compiler option -fobjc-arc to enable ARC or set Objective-C Automatic Reference Counting to YES in project configuration.	False info The binary does not have Runpath Search Path (@rpath) set.	True info This binary has a code signature.	False warning This binary is not encrypted.	False warning Debug Symbols are available. To strip debugging symbols, set Strip Debug Symbols During Copy to YES, Deployment Postprocessing to YES, and Strip Linked Product to YES in project's build settings.

NO	DYLIB/FRAMEWORK	NX	STACK CANARY	ARC	RPATH	CODE SIGNATURE	ENCRYPTED	SYMBOLS STRIPPED
2	Frameworks/libswiftsimd.dylib	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	True info This binary has a stack canary value added to the stack so that it will be overwritten by a stack buffer that overflows the return address. This allows detection of overflows by verifying the integrity of the canary before function return.	False high The binary is not compiled with Automatic Reference Counting (ARC) flag. ARC is a compiler feature that provides automatic memory management of Objective-C objects and protects from memory corruption vulnerabilities. Use compiler option -fobjc-arc to enable ARC or set Objective-C Automatic Reference Counting to YES in project configuration.	False info The binary does not have Runpath Search Path (@rpath) set.	True info This binary has a code signature.	False warning This binary is not encrypted.	False warning Debug Symbols are available. To strip debugging symbols, set Strip Debug Symbols During Copy to YES, Deployment Postprocessing to YES, and Strip Linked Product to YES in project's build settings.

NO	DYLIB/FRAMEWORK	NX	STACK CANARY	ARC	RPATH	CODE SIGNATURE	ENCRYPTED	SYMBOLS STRIPPED
3	Frameworks/libswiftObjectiveC.dylib	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	False warning This binary does not have a stack canary value added to the stack. Stack canaries are used to detect and prevent exploits from overwriting return address. Use the option -fstack-protector-all to enable stack canaries. This might be okey for pure Swift dylibs.	False high The binary is not compiled with Automatic Reference Counting (ARC) flag. ARC is a compiler feature that provides automatic memory management of Objective-C objects and protects from memory corruption vulnerabilities. Use compiler option -fobjc-arc to enable ARC or set Objective-C Automatic Reference Counting to YES in project configuration.	False info The binary does not have Runpath Search Path (@rpath) set.	True info This binary has a code signature.	False warning This binary is not encrypted.	False warning Debug Symbols are available. To strip debugging symbols, set Strip Debug Symbols During Copy to YES, Deployment Postprocessing to YES, and Strip Linked Product to YES in project's build settings.

NO	DYLIB/FRAMEWORK	NX	STACK CANARY	ARC	RPATH	CODE SIGNATURE	ENCRYPTED	SYMBOLS STRIPPED
4	Frameworks/libswiftCoreImage.dylib	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	False warning This binary does not have a stack canary value added to the stack. Stack canaries are used to detect and prevent exploits from overwriting return address. Use the option -fstack-protector-all to enable stack canaries. This might be okey for pure Swift dylibs.	False high The binary is not compiled with Automatic Reference Counting (ARC) flag. ARC is a compiler feature that provides automatic memory management of Objective-C objects and protects from memory corruption vulnerabilities. Use compiler option -fobjc-arc to enable ARC or set Objective-C Automatic Reference Counting to YES in project configuration.	False info The binary does not have Runpath Search Path (@rpath) set.	True info This binary has a code signature.	False warning This binary is not encrypted.	False warning Debug Symbols are available. To strip debugging symbols, set Strip Debug Symbols During Copy to YES, Deployment Postprocessing to YES, and Strip Linked Product to YES in project's build settings.

NO	DYLIB/FRAMEWORK	NX	STACK CANARY	ARC	RPATH	CODE SIGNATURE	ENCRYPTED	SYMBOLS STRIPPED
5	Frameworks/libswiftDarwin.dylib	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	False warning This binary does not have a stack canary value added to the stack. Stack canaries are used to detect and prevent exploits from overwriting return address. Use the option -fstack-protector-all to enable stack canaries. This might be okey for pure Swift dylibs.	False high The binary is not compiled with Automatic Reference Counting (ARC) flag. ARC is a compiler feature that provides automatic memory management of Objective-C objects and protects from memory corruption vulnerabilities. Use compiler option -fobjc-arc to enable ARC or set Objective-C Automatic Reference Counting to YES in project configuration.	False info The binary does not have Runpath Search Path (@rpath) set.	True info This binary has a code signature.	False warning This binary is not encrypted.	False warning Debug Symbols are available. To strip debugging symbols, set Strip Debug Symbols During Copy to YES, Deployment Postprocessing to YES, and Strip Linked Product to YES in project's build settings.

NO	DYLIB/FRAMEWORK	NX	STACK CANARY	ARC	RPATH	CODE SIGNATURE	ENCRYPTED	SYMBOLS STRIPPED
6	Frameworks/libswiftCoreLocation.dylib	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	False warning This binary does not have a stack canary value added to the stack. Stack canaries are used to detect and prevent exploits from overwriting return address. Use the option -fstack-protector-all to enable stack canaries. This might be okey for pure Swift dylibs.	True info The binary is compiled with Automatic Reference Counting (ARC) flag. ARC is a compiler feature that provides automatic memory management of Objective-C objects and is an exploit mitigation mechanism against memory corruption vulnerabilities.	False info The binary does not have Runpath Search Path (@rpath) set.	True info This binary has a code signature.	False warning This binary is not encrypted.	False warning Debug Symbols are available. To strip debugging symbols, set Strip Debug Symbols During Copy to YES, Deployment Postprocessing to YES, and Strip Linked Product to YES in project's build settings.

NO	DYLIB/FRAMEWORK	NX	STACK CANARY	ARC	RPATH	CODE SIGNATURE	ENCRYPTED	SYMBOLS STRIPPED
7	Frameworks/libswiftMetal.dylib	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	False warning This binary does not have a stack canary value added to the stack. Stack canaries are used to detect and prevent exploits from overwriting return address. Use the option -fstack-protector-all to enable stack canaries. This might be okey for pure Swift dylibs.	True info The binary is compiled with Automatic Reference Counting (ARC) flag. ARC is a compiler feature that provides automatic memory management of Objective-C objects and is an exploit mitigation mechanism against memory corruption vulnerabilities.	False info The binary does not have Runpath Search Path (@rpath) set.	True info This binary has a code signature.	False warning This binary is not encrypted.	False warning Debug Symbols are available. To strip debugging symbols, set Strip Debug Symbols During Copy to YES, Deployment Postprocessing to YES, and Strip Linked Product to YES in project's build settings.

NO	DYLIB/FRAMEWORK	NX	STACK CANARY	ARC	RPATH	CODE SIGNATURE	ENCRYPTED	SYMBOLS STRIPPED
8	Frameworks/libswiftCoreGraphics.dylib	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	False warning This binary does not have a stack canary value added to the stack. Stack canaries are used to detect and prevent exploits from overwriting return address. Use the option -fstack-protector-all to enable stack canaries. This might be okey for pure Swift dylibs.	False high The binary is not compiled with Automatic Reference Counting (ARC) flag. ARC is a compiler feature that provides automatic memory management of Objective-C objects and protects from memory corruption vulnerabilities. Use compiler option -fobjc-arc to enable ARC or set Objective-C Automatic Reference Counting to YES in project configuration.	False info The binary does not have Runpath Search Path (@rpath) set.	True info This binary has a code signature.	False warning This binary is not encrypted.	False warning Debug Symbols are available. To strip debugging symbols, set Strip Debug Symbols During Copy to YES, Deployment Postprocessing to YES, and Strip Linked Product to YES in project's build settings.

NO	DYLIB/FRAMEWORK	NX	STACK CANARY	ARC	RPATH	CODE SIGNATURE	ENCRYPTED	SYMBOLS STRIPPED
9	Frameworks/libswiftAVFoundation.dylib	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	False warning This binary does not have a stack canary value added to the stack. Stack canaries are used to detect and prevent exploits from overwriting return address. Use the option -fstack-protector-all to enable stack canaries. This might be okey for pure Swift dylibs.	True info The binary is compiled with Automatic Reference Counting (ARC) flag. ARC is a compiler feature that provides automatic memory management of Objective-C objects and is an exploit mitigation mechanism against memory corruption vulnerabilities.	False info The binary does not have Runpath Search Path (@rpath) set.	True info This binary has a code signature.	False warning This binary is not encrypted.	False warning Debug Symbols are available. To strip debugging symbols, set Strip Debug Symbols During Copy to YES, Deployment Postprocessing to YES, and Strip Linked Product to YES in project's build settings.

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10	Frameworks/libswiftUIKit.dylib	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	False warning This binary does not have a stack canary value added to the stack. Stack canaries are used to detect and prevent exploits from overwriting return address. Use the option -fstack-protector-all to enable stack canaries. This might be okey for pure Swift dylibs.	True info The binary is compiled with Automatic Reference Counting (ARC) flag. ARC is a compiler feature that provides automatic memory management of Objective-C objects and is an exploit mitigation mechanism against memory corruption vulnerabilities.	False info The binary does not have Runpath Search Path (@rpath) set.	True info This binary has a code signature.	False warning This binary is not encrypted.	False warning Debug Symbols are available. To strip debugging symbols, set Strip Debug Symbols During Copy to YES, Deployment Postprocessing to YES, and Strip Linked Product to YES in project's build settings.

NO	DYLIB/FRAMEWORK	NX	STACK CANARY	ARC	RPATH	CODE SIGNATURE	ENCRYPTED	SYMBOLS STRIPPED
11	Frameworks/libswiftCoreFoundation.dylib	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	False warning This binary does not have a stack canary value added to the stack. Stack canaries are used to detect and prevent exploits from overwriting return address. Use the option -fstack-protector-all to enable stack canaries. This might be okey for pure Swift dylibs.	False high The binary is not compiled with Automatic Reference Counting (ARC) flag. ARC is a compiler feature that provides automatic memory management of Objective-C objects and protects from memory corruption vulnerabilities. Use compiler option -fobjc-arc to enable ARC or set Objective-C Automatic Reference Counting to YES in project configuration.	False info The binary does not have Runpath Search Path (@rpath) set.	True info This binary has a code signature.	False warning This binary is not encrypted.	False warning Debug Symbols are available. To strip debugging symbols, set Strip Debug Symbols During Copy to YES, Deployment Postprocessing to YES, and Strip Linked Product to YES in project's build settings.

NO	DYLIB/FRAMEWORK	NX	STACK CANARY	ARC	RPATH	CODE SIGNATURE	ENCRYPTED	SYMBOLS STRIPPED
12	Frameworks/libswiftFoundation.dylib	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	True info This binary has a stack canary value added to the stack so that it will be overwritten by a stack buffer that overflows the return address. This allows detection of overflows by verifying the integrity of the canary before function return.	True info The binary is compiled with Automatic Reference Counting (ARC) flag. ARC is a compiler feature that provides automatic memory management of Objective-C objects and is an exploit mitigation mechanism against memory corruption vulnerabilities.	False info The binary does not have Runpath Search Path (@rpath) set.	True info This binary has a code signature.	False warning This binary is not encrypted.	False warning Debug Symbols are available. To strip debugging symbols, set Strip Debug Symbols During Copy to YES, Deployment Postprocessing to YES, and Strip Linked Product to YES in project's build settings.

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13	Frameworks/libswiftos.dylib	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	False warning This binary does not have a stack canary value added to the stack. Stack canaries are used to detect and prevent exploits from overwriting return address. Use the option -fstack-protector-all to enable stack canaries. This might be okey for pure Swift dylibs.	True info The binary is compiled with Automatic Reference Counting (ARC) flag. ARC is a compiler feature that provides automatic memory management of Objective-C objects and is an exploit mitigation mechanism against memory corruption vulnerabilities.	False info The binary does not have Runpath Search Path (@rpath) set.	True info This binary has a code signature.	False warning This binary is not encrypted.	False warning Debug Symbols are available. To strip debugging symbols, set Strip Debug Symbols During Copy to YES, Deployment Postprocessing to YES, and Strip Linked Product to YES in project's build settings.

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14	Frameworks/libswiftCoreMedia.dylib	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	False warning This binary does not have a stack canary value added to the stack. Stack canaries are used to detect and prevent exploits from overwriting return address. Use the option -fstack-protector-all to enable stack canaries. This might be okey for pure Swift dylibs.	False high The binary is not compiled with Automatic Reference Counting (ARC) flag. ARC is a compiler feature that provides automatic memory management of Objective-C objects and protects from memory corruption vulnerabilities. Use compiler option -fobjc-arc to enable ARC or set Objective-C Automatic Reference Counting to YES in project configuration.	False info The binary does not have Runpath Search Path (@rpath) set.	True info This binary has a code signature.	False warning This binary is not encrypted.	False warning Debug Symbols are available. To strip debugging symbols, set Strip Debug Symbols During Copy to YES, Deployment Postprocessing to YES, and Strip Linked Product to YES in project's build settings.

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15	Frameworks/libswiftQuartzCore.dylib	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	False warning This binary does not have a stack canary value added to the stack. Stack canaries are used to detect and prevent exploits from overwriting return address. Use the option -fstack-protector-all to enable stack canaries. This might be okey for pure Swift dylibs.	True info The binary is compiled with Automatic Reference Counting (ARC) flag. ARC is a compiler feature that provides automatic memory management of Objective-C objects and is an exploit mitigation mechanism against memory corruption vulnerabilities.	False info The binary does not have Runpath Search Path (@rpath) set.	True info This binary has a code signature.	False warning This binary is not encrypted.	False warning Debug Symbols are available. To strip debugging symbols, set Strip Debug Symbols During Copy to YES, Deployment Postprocessing to YES, and Strip Linked Product to YES in project's build settings.

NO	DYLIB/FRAMEWORK	NX	STACK CANARY	ARC	RPATH	CODE SIGNATURE	ENCRYPTED	SYMBOLS STRIPPED
16	Frameworks/libswiftCoreAudio.dylib	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	False warning This binary does not have a stack canary value added to the stack. Stack canaries are used to detect and prevent exploits from overwriting return address. Use the option -fstack-protector-all to enable stack canaries. This might be okey for pure Swift dylibs.	False high The binary is not compiled with Automatic Reference Counting (ARC) flag. ARC is a compiler feature that provides automatic memory management of Objective-C objects and protects from memory corruption vulnerabilities. Use compiler option -fobjc-arc to enable ARC or set Objective-C Automatic Reference Counting to YES in project configuration.	False info The binary does not have Runpath Search Path (@rpath) set.	True info This binary has a code signature.	False warning This binary is not encrypted.	False warning Debug Symbols are available. To strip debugging symbols, set Strip Debug Symbols During Copy to YES, Deployment Postprocessing to YES, and Strip Linked Product to YES in project's build settings.

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17	Frameworks/libswiftDispatch.dylib	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	False warning This binary does not have a stack canary value added to the stack. Stack canaries are used to detect and prevent exploits from overwriting return address. Use the option -fstack-protector-all to enable stack canaries. This might be okey for pure Swift dylibs.	True info The binary is compiled with Automatic Reference Counting (ARC) flag. ARC is a compiler feature that provides automatic memory management of Objective-C objects and is an exploit mitigation mechanism against memory corruption vulnerabilities.	False info The binary does not have Runpath Search Path (@rpath) set.	True info This binary has a code signature.	False warning This binary is not encrypted.	False warning Debug Symbols are available. To strip debugging symbols, set Strip Debug Symbols During Copy to YES, Deployment Postprocessing to YES, and Strip Linked Product to YES in project's build settings.

NO	DYLIB/FRAMEWORK	NX	STACK CANARY	ARC	RPATH	CODE SIGNATURE	ENCRYPTED	SYMBOLS STRIPPED
18	Frameworks/libswiftCore.dylib	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	False warning This binary does not have a stack canary value added to the stack. Stack canaries are used to detect and prevent exploits from overwriting return address. Use the option -fstack-protector-all to enable stack canaries. This might be okey for pure Swift dylibs.	True info The binary is compiled with Automatic Reference Counting (ARC) flag. ARC is a compiler feature that provides automatic memory management of Objective-C objects and is an exploit mitigation mechanism against memory corruption vulnerabilities.	False info The binary does not have Runpath Search Path (@rpath) set.	True info This binary has a code signature.	False warning This binary is not encrypted.	False warning Debug Symbols are available. To strip debugging symbols, set Strip Debug Symbols During Copy to YES, Deployment Postprocessing to YES, and Strip Linked Product to YES in project's build settings.

NO	DYLIB/FRAMEWORK	NX	STACK CANARY	ARC	RPATH	CODE SIGNATURE	ENCRYPTED	SYMBOLS STRIPPED
19	Frameworks/libswiftSwiftOnoneSupport.dylib	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	False warning This binary does not have a stack canary value added to the stack. Stack canaries are used to detect and prevent exploits from overwriting return address. Use the option -fstack-protector-all to enable stack canaries. This might be okey for pure Swift dylibs.	False high The binary is not compiled with Automatic Reference Counting (ARC) flag. ARC is a compiler feature that provides automatic memory management of Objective-C objects and protects from memory corruption vulnerabilities. Use compiler option -fobjc-arc to enable ARC or set Objective-C Automatic Reference Counting to YES in project configuration.	False info The binary does not have Runpath Search Path (@rpath) set.	True info This binary has a code signature.	False warning This binary is not encrypted.	False warning Debug Symbols are available. To strip debugging symbols, set Strip Debug Symbols During Copy to YES, Deployment Postprocessing to YES, and Strip Linked Product to YES in project's build settings.

NO	DYLIB/FRAMEWORK	NX	STACK CANARY	ARC	RPATH	CODE SIGNATURE	ENCRYPTED	SYMBOLS STRIPPED
20	Frameworks/libswiftCoreData.dylib	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	False warning This binary does not have a stack canary value added to the stack. Stack canaries are used to detect and prevent exploits from overwriting return address. Use the option -fstack-protector-all to enable stack canaries. This might be okey for pure Swift dylibs.	True info The binary is compiled with Automatic Reference Counting (ARC) flag. ARC is a compiler feature that provides automatic memory management of Objective-C objects and is an exploit mitigation mechanism against memory corruption vulnerabilities.	False info The binary does not have Runpath Search Path (@rpath) set.	True info This binary has a code signature.	False warning This binary is not encrypted.	False warning Debug Symbols are available. To strip debugging symbols, set Strip Debug Symbols During Copy to YES, Deployment Postprocessing to YES, and Strip Linked Product to YES in project's build settings.

NO	DYLIB/FRAMEWORK	NX	STACK CANARY	ARC	RPATH	CODE SIGNATURE	ENCRYPTED	SYMBOLS STRIPPED
1	Payload/DVIA-v2.app/Frameworks/Realm.framework/Realm	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	True info This binary has a stack canary value added to the stack so that it will be overwritten by a stack buffer that overflows the return address. This allows detection of overflows by verifying the integrity of the canary before function return.	True info The binary is compiled with Automatic Reference Counting (ARC) flag. ARC is a compiler feature that provides automatic memory management of Objective-C objects and is an exploit mitigation mechanism against memory corruption vulnerabilities.	True warning The binary has Runpath Search Path (@rpath) set. In certain cases an attacker can abuse this feature to run arbitrary executable for code execution and privilege escalation. Remove the compiler option -rpath to remove @rpath.	True info This binary has a code signature.	False warning This binary is not encrypted.	False warning Debug Symbols are available. To strip debugging symbols, set Strip Debug Symbols During Copy to YES, Deployment Postprocessing to YES, and Strip Linked Product to YES in project's build settings.

NO	DYLIB/FRAMEWORK	NX	STACK CANARY	ARC	RPATH	CODE SIGNATURE	ENCRYPTED	SYMBOLS STRIPPED
2	Payload/DVIA-v2.app/Frameworks/RealmSwift.framework/RealmSwift	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	True info This binary has a stack canary value added to the stack so that it will be overwritten by a stack buffer that overflows the return address. This allows detection of overflows by verifying the integrity of the canary before function return.	True info The binary is compiled with Automatic Reference Counting (ARC) flag. ARC is a compiler feature that provides automatic memory management of Objective-C objects and is an exploit mitigation mechanism against memory corruption vulnerabilities.	True warning The binary has Runpath Search Path (@rpath) set. In certain cases an attacker can abuse this feature to run arbitrary executable for code execution and privilege escalation. Remove the compiler option -rpath to remove @rpath.	True info This binary has a code signature.	False warning This binary is not encrypted.	False warning Debug Symbols are available. To strip debugging symbols, set Strip Debug Symbols During Copy to YES, Deployment Postprocessing to YES, and Strip Linked Product to YES in project's build settings.

NO	DYLIB/FRAMEWORK	NX	STACK CANARY	ARC	RPATH	CODE SIGNATURE	ENCRYPTED	SYMBOLS STRIPPED
3	Payload/DVIA-v2.app/Frameworks/Parse.framework/Parse	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	True info This binary has a stack canary value added to the stack so that it will be overwritten by a stack buffer that overflows the return address. This allows detection of overflows by verifying the integrity of the canary before function return.	True info The binary is compiled with Automatic Reference Counting (ARC) flag. ARC is a compiler feature that provides automatic memory management of Objective-C objects and is an exploit mitigation mechanism against memory corruption vulnerabilities.	True warning The binary has Runpath Search Path (@rpath) set. In certain cases an attacker can abuse this feature to run arbitrary executable for code execution and privilege escalation. Remove the compiler option -rpath to remove @rpath.	True info This binary has a code signature.	False warning This binary is not encrypted.	False warning Debug Symbols are available. To strip debugging symbols, set Strip Debug Symbols During Copy to YES, Deployment Postprocessing to YES, and Strip Linked Product to YES in project's build settings.

NO	DYLIB/FRAMEWORK	NX	STACK CANARY	ARC	RPATH	CODE SIGNATURE	ENCRYPTED	SYMBOLS STRIPPED
4	Payload/DVIA-v2.app/Frameworks/Bolts.framework/Bolts	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	True info This binary has a stack canary value added to the stack so that it will be overwritten by a stack buffer that overflows the return address. This allows detection of overflows by verifying the integrity of the canary before function return.	True info The binary is compiled with Automatic Reference Counting (ARC) flag. ARC is a compiler feature that provides automatic memory management of Objective-C objects and is an exploit mitigation mechanism against memory corruption vulnerabilities.	True warning The binary has Runpath Search Path (@rpath) set. In certain cases an attacker can abuse this feature to run arbitrary executable for code execution and privilege escalation. Remove the compiler option -rpath to remove @rpath.	True info This binary has a code signature.	False warning This binary is not encrypted.	False warning Debug Symbols are available. To strip debugging symbols, set Strip Debug Symbols During Copy to YES, Deployment Postprocessing to YES, and Strip Linked Product to YES in project's build settings.

NO	DYLIB/FRAMEWORK	NX	STACK CANARY	ARC	RPATH	CODE SIGNATURE	ENCRYPTED	SYMBOLS STRIPPED
5	Payload/DVIA-v2.app/Frameworks/Flurry_iOS_SDK.framework/Flurry_iOS_SDK	True info The binary has NX bit set. This marks a memory page non-executable making attacker injected shellcode non-executable.	True info This binary has a stack canary value added to the stack so that it will be overwritten by a stack buffer that overflows the return address. This allows detection of overflows by verifying the integrity of the canary before function return.	True info The binary is compiled with Automatic Reference Counting (ARC) flag. ARC is a compiler feature that provides automatic memory management of Objective-C objects and is an exploit mitigation mechanism against memory corruption vulnerabilities.	True warning The binary has Runpath Search Path (@rpath) set. In certain cases an attacker can abuse this feature to run arbitrary executable for code execution and privilege escalation. Remove the compiler option -rpath to remove @rpath.	True info This binary has a code signature.	False warning This binary is not encrypted.	False warning Debug Symbols are available. To strip debugging symbols, set Strip Debug Symbols During Copy to YES, Deployment Postprocessing to YES, and Strip Linked Product to YES in project's build settings.

</> CODE ANALYSIS

NO	ISSUE	SEVERITY	STANDARDS	FILES

! OFAC SANCTIONED COUNTRIES

This app may communicate with the following OFAC sanctioned list of countries.

DOMAIN	COUNTRY/REGION

DOMAIN MALWARE CHECK

DOMAIN	STATUS	GEOLOCATION
pulse.data.flurry.com	ok	**IP:** 98.136.147.17 **Country:** United States of America **Region:** New York **City:** New York City **Latitude:** 40.731323 **Longitude:** -73.990089 **View:** Google Map
cacerts.digicert.com	ok	**IP:** 192.229.211.108 **Country:** United States of America **Region:** Massachusetts **City:** Boston **Latitude:** 42.358429 **Longitude:** -71.059769 **View:** Google Map
highaltitudehacks.com	ok	**IP:** 185.199.111.153 **Country:** United States of America **Region:** Pennsylvania **City:** California **Latitude:** 40.065632 **Longitude:** -79.891708 **View:** Google Map
www.example.net0	ok	No Geolocation information available.

DOMAIN	STATUS	GEOLOCATION
twitter.com	ok	**IP:** 104.244.42.65 **Country:** United States of America **Region:** California **City:** San Francisco **Latitude:** 37.773968 **Longitude:** -122.410446 **View:** Google Map
crl3.digicert.com	ok	**IP:** 192.229.211.108 **Country:** United States of America **Region:** Massachusetts **City:** Boston **Latitude:** 42.358429 **Longitude:** -71.059769 **View:** Google Map
api.parse.com	ok	**IP:** 157.240.22.19 **Country:** United States of America **Region:** California **City:** San Jose **Latitude:** 37.339390 **Longitude:** -121.894958 **View:** Google Map
realm.io	ok	**IP:** 18.160.10.106 **Country:** United States of America **Region:** Washington **City:** Seattle **Latitude:** 47.627499 **Longitude:** -122.346199 **View:** Google Map
goo.gl	ok	**IP:** 142.251.46.238 **Country:** United States of America **Region:** California **City:** Mountain View **Latitude:** 37.405991 **Longitude:** -122.078514 **View:** Google Map

DOMAIN	STATUS	GEOLOCATION
www.youtube.com	ok	**IP:** 142.250.189.238 **Country:** United States of America **Region:** California **City:** Mountain View **Latitude:** 37.405991 **Longitude:** -122.078514 **View:** Google Map
www.example.org	ok	**IP:** 93.184.216.34 **Country:** United States of America **Region:** Virginia **City:** Ashburn **Latitude:** 39.043720 **Longitude:** -77.487488 **View:** Google Map
www.digicert.com1	ok	No Geolocation information available.
www.apple.com	ok	**IP:** 104.99.49.26 **Country:** United States of America **Region:** California **City:** Los Angeles **Latitude:** 34.052231 **Longitude:** -118.243683 **View:** Google Map
github.com	ok	**IP:** 192.30.255.113 **Country:** United States of America **Region:** California **City:** San Francisco **Latitude:** 37.775700 **Longitude:** -122.395203 **View:** Google Map
www.example.org0	ok	No Geolocation information available.

DOMAIN	STATUS	GEOLOCATION
example.com	ok	**IP:** 93.184.216.34 **Country:** United States of America **Region:** Virginia **City:** Ashburn **Latitude:** 39.043720 **Longitude:** -77.487488 **View:** Google Map
data.flurry.com	ok	**IP:** 69.147.88.8 **Country:** United States of America **Region:** New York **City:** New York City **Latitude:** 40.731323 **Longitude:** -73.990089 **View:** Google Map
ocsp.digicert.com0m	ok	No Geolocation information available.
www.example.com	ok	**IP:** 93.184.216.34 **Country:** United States of America **Region:** Virginia **City:** Ashburn **Latitude:** 39.043720 **Longitude:** -77.487488 **View:** Google Map
www.thejuniperfund.org	ok	**IP:** 198.185.159.144 **Country:** United States of America **Region:** New York **City:** New York City **Latitude:** 40.734699 **Longitude:** -74.005898 **View:** Google Map

DOMAIN	STATUS	GEOLOCATION
api.mixpanel.com	ok	**IP:** 107.178.240.159 **Country:** United States of America **Region:** Missouri **City:** Kansas City **Latitude:** 39.099731 **Longitude:** -94.578568 **View:** Google Map
www.google-analytics.com	ok	**IP:** 142.251.46.174 **Country:** United States of America **Region:** California **City:** Mountain View **Latitude:** 37.405991 **Longitude:** -122.078514 **View:** Google Map
www.example.edu	ok	**IP:** 93.184.216.34 **Country:** United States of America **Region:** Virginia **City:** Ashburn **Latitude:** 39.043720 **Longitude:** -77.487488 **View:** Google Map
crl.apple.com	ok	**IP:** 17.253.5.201 **Country:** United States of America **Region:** California **City:** San Jose **Latitude:** 37.339390 **Longitude:** -121.894958 **View:** Google Map
www.digicert.com	ok	**IP:** 45.60.121.229 **Country:** United States of America **Region:** Washington **City:** Seattle **Latitude:** 47.606209 **Longitude:** -122.332069 **View:** Google Map

DOMAIN	STATUS	GEOLOCATION
ssl.google-analytics.com	ok	**IP:** 142.251.46.200 **Country:** United States of America **Region:** California **City:** Mountain View **Latitude:** 37.405991 **Longitude:** -122.078514 **View:** Google Map
ocsp.apple.com	ok	**IP:** 17.253.17.201 **Country:** United States of America **Region:** California **City:** Santa Clara **Latitude:** 37.354111 **Longitude:** -121.955238 **View:** Google Map
damnvulnerableiosapp.com	ok	**IP:** 15.197.142.173 **Country:** United States of America **Region:** Washington **City:** Seattle **Latitude:** 47.627499 **Longitude:** -122.346199 **View:** Google Map
proton.flurry.com	ok	No Geolocation information available.

EMAILS

EMAIL	FILE
test123@gmail.com defaultrealm@host.com prateek@damnvulnerableiosapp.com ij@2.ssi ț9@□.ŋq	DVIA-v2.app/DVIA-v2

EMAIL	FILE
test123@gmail.com prateek@damnvulnerableiosapp.com defaultrealm@host.com	IPA Strings Dump
prateek@damnvulnerableiosapp.com	Payload/DVIA-v2.app/Frameworks/libswiftsimd.dylib
prateek@damnvulnerableiosapp.com	Payload/DVIA-v2.app/Frameworks/libswiftObjectiveC.dylib
prateek@damnvulnerableiosapp.com	Payload/DVIA-v2.app/Frameworks/libswiftCoreImage.dylib
prateek@damnvulnerableiosapp.com	Payload/DVIA-v2.app/Frameworks/libswiftDarwin.dylib
prateek@damnvulnerableiosapp.com	Payload/DVIA-v2.app/Frameworks/libswiftCoreLocation.dylib
prateek@damnvulnerableiosapp.com	Payload/DVIA-v2.app/Frameworks/libswiftMetal.dylib
prateek@damnvulnerableiosapp.com	Payload/DVIA-v2.app/Frameworks/libswiftCoreGraphics.dylib
prateek@damnvulnerableiosapp.com	Payload/DVIA-v2.app/Frameworks/libswiftAVFoundation.dylib
prateek@damnvulnerableiosapp.com	Payload/DVIA-v2.app/Frameworks/libswiftUIKit.dylib
prateek@damnvulnerableiosapp.com	Payload/DVIA-v2.app/Frameworks/libswiftCoreFoundation.dylib
prateek@damnvulnerableiosapp.com	Payload/DVIA-v2.app/Frameworks/libswiftFoundation.dylib
prateek@damnvulnerableiosapp.com	Payload/DVIA-v2.app/Frameworks/libswiftos.dylib
prateek@damnvulnerableiosapp.com	Payload/DVIA-v2.app/Frameworks/libswiftCoreMedia.dylib
prateek@damnvulnerableiosapp.com	Payload/DVIA-v2.app/Frameworks/libswiftQuartzCore.dylib
prateek@damnvulnerableiosapp.com	Payload/DVIA-v2.app/Frameworks/libswiftCoreAudio.dylib
prateek@damnvulnerableiosapp.com	Payload/DVIA-v2.app/Frameworks/libswiftDispatch.dylib
prateek@damnvulnerableiosapp.com	Payload/DVIA-v2.app/Frameworks/libswiftCore.dylib

EMAIL	FILE
prateek@damnvulnerableiosapp.com	Payload/DVIA-v2.app/Frameworks/libswiftSwiftOnoneSupport.dylib
prateek@damnvulnerableiosapp.com	Payload/DVIA-v2.app/Frameworks/libswiftCoreData.dylib
prateek@damnvulnerableiosapp.com help@realm.io	Payload/DVIA-v2.app/Frameworks/Realm.framework/Realm
prateek@damnvulnerableiosapp.com	Payload/DVIA-v2.app/Frameworks/RealmSwift.framework/RealmSwift
prateek@damnvulnerableiosapp.com	Payload/DVIA-v2.app/Frameworks/Parse.framework/Parse
prateek@damnvulnerableiosapp.com	Payload/DVIA-v2.app/Frameworks/Bolts.framework/Bolts
prateek@damnvulnerableiosapp.com	Payload/DVIA-v2.app/Frameworks/Flurry_iOS_SDK.framework/Flurry_iOS_SDK

TRACKERS

TRACKER	CATEGORIES	URL
Flurry	Advertisement, Analytics	https://reports.exodus-privacy.eu.org/trackers/25
Google Analytics	Analytics	https://reports.exodus-privacy.eu.org/trackers/48
MixPanel	Advertisement, Analytics	https://reports.exodus-privacy.eu.org/trackers/118

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Mobile Security Framework (MobSF) is an automated, all-in-one mobile application (Android/iOS/Windows) pen-testing, malware analysis and security assessment framework capable of performing static and dynamic analysis.