

Jailbreak Detection Analysis

Comparison of jailed and jailbroken system

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1 Introduction

iOS jailbreaking is a process of removing the restriction imposed by iOS on the system and apps. It's achieved by exploiting the kernel vulnerabilities, so as to gain root level access on the iOS devices. This basically gives more control over the device such as installing applications from app stores other than Apple's, tweaking the apps behaviour as desired etc..

To jailbreak iOS, various protection mechanisms are needed to be compromised. Such as:

1. Code signing mechanism.
2. Memory page protection (w+x).
3. Disk partition protection (/dev/disk0s1s1).
4. Sandbox enforcement.

Many of the developers and enterprises do not recommended to run their apps on jailbroken devices. But, their detection methods are usually very weak and trivial to bypass. An attempt has been made to analyse various ways by which the apps can detect the state of the iOS device in better and improved way.

The following sections contains various detection methods.

Note:

Structure|model|status|behaviour of the path, files etc. not marked as (9.21), (9.33) or (10.02) explicitly in the below tables, are same across the different versions and devices.

2 Spawning processes

Jailed system contains some of the binaries/calls which are impossible to execute on the jailed device, whereas they can easily be executed on the jailbroken device. Checking whether it's possible to invoke them or not. App store submission may incur some problem. But if not, then this can be consider as one of the way for detecting the jailbroken devices.

Binaries	Possible call cmd	
	Jailed	JB
-	Jailed	JB
-	-	-
/bin/df	No	Yes
/bin/ps	No	Yes
/usr/bin/taskinfo	No	Yes
/usr/bin/vm_stat	No	Yes
/usr/sbin/ipconfig	No	Yes
/usr/sbin/syslogd	No	Yes
/usr/sbin/mDNSResponder	No	Yes
fork()	No	Yes

3 Checking dynamically loaded libraries

After the jailbreak many different kind of tweaks can be installed from app stores like cydia. These tweaks are nothing but the dynamic libraries which can be loaded with the legitimate apple store apps and can be used to change the behaviour of the apps at runtime.

1. `getenv("DYLD_INSERT_LIBRARIES")`:

- (a) Jailed: returns NULL.
- (b) Jailbroken: may return NULL or "MobileSubstrate.dylib" etc. depending on the availability of the library file in the device.

2. `_dyld_get_image_name(int arg)`:

- (a) Jailed: returns various loaded libraries.
- (b) Jailbroken: may return additional libraries such as "MobileSubstrate.dylib" etc. along with the one already loaded on the jailed device.

Some others libraries which could be also checked are: "AppList.dylib", "CustomWidgetIcons.dylib", "MobileSafety.dylib", "OpenSiri.dylib", "PreferenceLoader.dylib", "RocketBootstrap.dylib", "SSLLKillSwitch.dylib", "SSLLKillSwitch2.dylib", "WeeLoader.dylib", "patcyh.dylib" etc.

Note:

These libraries will only be loaded if the user has installed and enabled them on the device. i.e., their presence in the process memory can only be possible on the jailbroken devices, but their absence can not be considered that the device is jailed.

4 Creating files outside sandbox

In iOS all the non-native apps are run under the sandbox. This is nothing but a set of policies enforced on the apps by the iOS.

Due to this there's nothing much an app can do outside it's own space. One such restriction is to not allow the apps to write outside it's sandbox (some relaxation are there for iCloud and extensions etc.).

Jailbreaking removes (depends from version to version) some of the sandbox restrictions, like allowing the apps to create a file in some of those locations which are not possible in jailed system. Successful creation and deletion of files on these locations can be considered as a very good way of detecting the state of the device.

Path	Possible to create a file	
	Jailed	JB
-	Jailed	JB
-	-	-
/tmp/test.txt	No	Yes
/var/mobile/Containers/Data/Application/test.txt	No	Yes
/private/var/mobile/test.txt	No	Yes
/var/mobile/Containers/Bundle/Application/test.txt(9.21)	No	Yes
/private/var/mobile/Library/Caches/test.txt	No	Yes
/private/var/mobile/Library/test.txt	No	Yes
/private/var/tmp/test.txt	No	Yes
/private/var/mobile/Containers/test.txt	No	Yes
/private/var/mobile/Downloads/test.txt	No	Yes
/test.txt	No	No
/Applications/test.txt	No	No
/private/test.txt	No	No
/private/var/test.txt	No	No
/private/var/root/test.txt	No	No
/Developer/test.txt	No	No

Path	Possible to create a file	
-	Jailed	JB
-	-	-
/Library/test.txt	No	No
/System/test.txt	No	No
/bin/test.txt	No	No
/cores/test.txt	No	No
/dev/test.txt	No	No
/sbin/test.txt	No	No
/usr/test.txt	No	No
/var/test.txt	No	No
/var/containers/Bundle/Application/test.txt	No	No
/private/var/keybags/test.txt	No	No
/Library/Keychains/test.txt	No	No
/private/var/Keychains/test.txt	No	No
/Library/Ringtones/test.txt	No	No
/Library/Wallpaper/test.txt	No	No
/usr/libexec/test.txt	No	No
/usr/share/test.txt	No	No

5 Checking tty serial port

After the jailbreak the `/dev/tty.iap` might not get open due to resource busy error.

```
int fd = open(name,O_RDONLY);
```

1. Jailed: may returns "Operation not permitted" error having errno value as 1.
2. Jailbroken: may returns "Resource busy" error having errno value as 16.

Note:

This part is tested only on Non-JB (iOS 11.2) and JB (iOS 9.3.3). It needs more testing.

6 Comparing folder size

Jailbreaking the system introduces many new binaries/files in the device. This increases the size of the folders such as `/bin`, `/sbin`, `/usr/bin`, `/usr/sbin`, `/usr/libexec` etc..

It's better to pre-calculate the size of these folders for all the jailed iOS version separately on different jailed devices and then compare their sizes. If size is bigger than the pre-calculated value then it could consider that the device is jailbroken.

Tables present in the following sections can show the increase in size of the `/bin`, `/sbin` folders.

7 Checking file permissions - I

Generally jailbreaking introduces many new files, binaries etc. on the system (such as ls, cp etc.), and also changes the permission model for some of the existing files and folders on the jailed system.

Tables below shows the exhaustive list comparing files, binaries and folder etc., this list is not limited and can be extended to other files and folders too.

Checking for the presence of new files and permission models of the existing files can be considered as a better way to detect the state of the device.

Note:

Files marked as (*) are optional, and might not be available even on the jailbroken device.

Again, absence of these optional files can not guarantee that the device is jailed.

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
/Applications(9.21)	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
/Applications(9.33)	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
/Applications(10.02)	Yes	-	No	-	No	-	No	-	Yes	-
/Developer	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
/Library	Yes	Yes	No	Yes	No	Yes	No	No	Yes	Yes
/System	Yes	Yes	No	Yes	No	Yes	No	No	Yes	Yes
/User(*)	No	Yes	-	Yes	-	Yes	-	Yes	-	Yes
/bin	Yes	Yes	No	Yes	No	Yes	No	No	Yes	Yes
/boot	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/cores	Yes	Yes	No	Yes	No	Yes	No	No	Yes	Yes
/dev	Yes	Yes	No	Yes	No	Yes	No	No	Yes	Yes
/etc	Yes	Yes	No	Yes	No	Yes	No	No	Yes	Yes
/lib	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/mnt	No	Yes	-	Yes	-	Yes	-	No	-	Yes

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/private	Yes	Yes	No	Yes	No	Yes	No	No	Yes	Yes
/sbin	Yes	Yes	No	Yes	No	Yes	No	No	Yes	Yes
/tmp	Yes	Yes	No	Yes	No	Yes	No	Yes	Yes	Yes
/usr	Yes	Yes	No	Yes	No	Yes	No	No	Yes	Yes
/var	Yes	Yes	No	Yes	No	Yes	No	No	Yes	Yes
/var/mobile/Containers/Data/Application	Yes	Yes	No	Yes	No	Yes	No	Yes	Yes	Yes
/var/mobile/Containers/Data/Application/Other-App	Yes	Yes	No	Yes	No	Yes	No	Yes	Yes	Yes
/var/mobile/Containers/Bundle/Application(9.21)	Yes	Yes	No	Yes	No	Yes	No	Yes	Yes	Yes
/var/mobile/containers/Bundle/Application/Other-App(9.21)	Yes	Yes	No	Yes	No	Yes	No	Yes	Yes	Yes
/var/containers/Bundle/Application(9.33)	Yes	Yes	No	Yes	No	Yes	No	No	Yes	Yes
/var/containers/Bundle/Application/Other-App(9.33)	Yes	Yes	No	Yes	No	Yes	No	No	Yes	Yes
/var/containers/Bundle/Application(10.02)	Yes	-	No	-	No	-	No	-	Yes	-
/var/containers/Bundle/Application/Other-App(10.02)	Yes	-	No	-	No	-	No	-	Yes	-
/private/var/keybags	Yes	Yes	No	No	No	No	No	No	No	No
/Library/Keychains	Yes	Yes	No	Yes	No	Yes	No	No	Yes	Yes

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/private/var/Keychains	Yes	Yes	No	Yes	No	Yes	No	No	Yes	Yes
/private/var/Keychains/keychain-2.db	Yes	Yes	No	No	No	No	No	No	No	No
/private/var/Keychains/TrustStore.sqlite3	Yes	Yes	No	No	No	No	No	No	No	No
/private/var	Yes	Yes	No	Yes	No	Yes	No	No	Yes	Yes
/dev/disk0s1s1	Yes	Yes	No	No	No	No	No	No	No	No
/dev/disk0s1s2	Yes	Yes	No	No	No	No	No	No	No	No
/dev/disk4(9.21)	No	No	-	-	-	-	-	-	-	-
/dev/disk4(9.33)	Yes	Yes	No	No	No	No	No	No	No	No
/dev/disk4(10.02)	Yes	-	No	-	No	-	No	-	No	-
/etc/fstab	Yes	Yes	No	Yes	No	Yes	No	No	No	No
/usr/bin	Yes	Yes	No	Yes	No	Yes	No	No	Yes	Yes
/usr/sbin	Yes	Yes	No	Yes	No	Yes	No	No	Yes	Yes
/Library/Ringtones	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
/Library/Wallpaper	Yes	Yes	No	Yes	No	Yes	No	No	Yes	Yes
/usr/libexec	Yes	Yes	No	Yes	No	Yes	No	No	Yes	Yes

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/usr/share	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
/bin/df	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/bin/ps	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/sbin/fsck	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/sbin/fsck_exfat	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	Yes
/sbin/fsck_hfs	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	Yes
/sbin/fsck_msdos	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	Yes
/sbin/fstyp	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/sbin/fstyp_hfs	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/sbin/launchd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/sbin/mount	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/sbin/mount_hfs	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	Yes
/sbin/newfs_hfs	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	Yes
/sbin/pfctl	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/bin/brctl	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/usr/bin/powerlogHelperd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/bin/powerlogd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/bin/simulatecrash	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/bin/sysdiagnose	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/bin/taskinfo	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/bin/vm_stat	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/bin/zprint	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/sbin/absd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/sbin/addNetworkInterface	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/sbin/aslmanager	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/sbin/BTAwrp	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/sbin/BTLEServer	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/sbin/BTMap	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/sbin/BTPbap	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/sbin/BTServer	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/usr/sbin/BlueTool	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/sbin/cfpreisd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/sbin/distnoted	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/sbin/filecoordinationd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/sbin/ipconfig	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/sbin/mDNSResponder	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/sbin/mDNSResponderHelper	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/sbin/mediaserverd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/sbin/notifyd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/sbin/nvram	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/sbin/pppd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/sbin/racoon	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/sbin/rtadvd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/sbin/scselect	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/sbin/scutil	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/usr/sbin/spindump	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/sbin/syslogd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/sbin/wifid	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/sbin/wirelessproxid	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/sbin/WirelessRadioManagerd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/BackupAgent	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/BackupAgent2	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/CrashHousekeeping	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/DuetHeuristic-BM	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/FSTaskScheduler	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/FinishRestoreFromBackup	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/MobileGestaltHelper	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/NANDTaskScheduler	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/OTAPKIAAssetTool	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/OTATaskingAgent	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/usr/libexec/PreboardService	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/ProxiedCrashCopier	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/PurpleReverseProxy	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/SafariCloudHistoryPushAgent	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/SyncAgent	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/UserEventAgent	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/adid	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/afcd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/aitd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/amfid	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/assertiond	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/atc	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/atwakeupp	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/backboardd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/biometrickitd (TouchID)	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/usr/libexec/bootpd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/bubbled(9.21)	No	No	-	-	-	-	-	-	-	-
/usr/libexec/bubbled(9.33)	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/bubbled(10.02)	Yes	-	No	-	No	-	No	-	No	-
/usr/libexec/cc_fips_test	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/checkpointd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/companion_proxy	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/configd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/corecaptured	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/coreduetd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/crash_mover	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/demod	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/demod_helper	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/dhcpd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/diagnosticd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/usr/libexec/duetexpertd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/findmydeviced	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/fmfd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/fseventsd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/ftp-proxy	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/gamecontrollerd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/gamed	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/hangreporter(9.21)	No	No	-	-	-	-	-	-	-	-
/usr/libexec/hangreporter(9.33)	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/hangreporter(10.02)	Yes	-	No	-	No	-	No	-	No	-
/usr/libexec/hangtracerd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/hostapd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/idamd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/ifccd(9.21)	No	No	-	-	-	-	-	-	-	-
/usr/libexec/ifccd(9.33)	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/usr/libexec/ifcccd(10.02)	Yes	-	No	-	No	-	No	-	No	-
/usr/libexec/init_data_protection	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/installd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/ioupsd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/keybagd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/languageassetd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/limitadtrackingd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/locationd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/lockbot	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/lockdownd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/logd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/lsd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/lskdd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/lskdmsed	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/mailq(9.21)	No	No	-	-	-	-	-	-	-	-

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/usr/libexec/mailq(9.33)	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/mailq(10.02)	Yes	-	No	-	No	-	No	-	No	-
/usr/libexec/mc_mobile_tunnel	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/misagent	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/misd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/mmaintenanced	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/mobile_assertion_agent	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/mobile_diagnostics_relay	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/mobile_file_relay	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/mobile_house_arrest	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/mobile_installation_proxy	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/mobile_obliterator	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/mobile_storage_proxy	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/mobileactivationond(9.21)	No	No	-	-	-	-	-	-	-	-
/usr/libexec/mobileactivationond(9.33)	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/usr/libexec/mobileactivationd(10.02)	Yes	-	No	-	No	-	No	-	No	-
/usr/libexec/mobileassetd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/mtmergeprops	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/neagent	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/nehelper	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/nesessionmanager	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/nfcd (TouchID)	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/nlcd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/notification_proxy	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/nsurlsessiond	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/nsurlstoraged	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/online-auth-agent	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/oscard	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/pcapd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/pfd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/usr/libexec/pipelined	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/pkd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/pkreporter	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/ptpd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/replayd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/rolld	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/routined	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/rtcreportingd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/securityd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/seld (TouchID)	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/seputil	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/sharingd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/splashboardd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/springboardservicesrelay	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/streaming_zip_conduit	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/usr/libexec/swcd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/symptomsd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/symptomsd-helper	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/syslog_relay	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/sysstatuscheck	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/timed	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/tipsd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/transitd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/tzdb	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/tzinit	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/tzlinkd	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/wapic	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/webinspectord	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/wifiFirmwareLoader	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/xpccproxy	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/usr/lib	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
/Library/LaunchAgents	Yes	Yes	No	Yes	No	Yes	No	No	Yes	Yes
/System/Library/LaunchDaemons	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
/usr/libexec/aosnotifyd(9.21)	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/aosnotifyd(9.33)	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/aosnotifyd(10.02)	No	-	-	-	-	-	-	-	-	-
/usr/libexec/findmydeviced-nano-support(9.21)	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/findmydeviced-nano-support(9.33)	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/findmydeviced-nano-support(10.02)	No	-	-	-	-	-	-	-	-	-
/usr/libexec/ios_diagnostics_relay(9.21)	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/ios_diagnostics_relay(9.33)	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/ios_diagnostics_relay(10.02)	No	-	-	-	-	-	-	-	-	-

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/usr/libexec/networkd(9.21)	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/networkd(9.33)	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/networkd(10.02)	No	-	-	-	-	-	-	-	-	-
/usr/libexec/networkd_privileged(9.21)	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/networkd_privileged(9.33)	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/networkd_privileged(10.02)	No	-	-	-	-	-	-	-	-	-
/usr/libexec/uuidpathd(9.21)	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/uuidpathd(9.33)	Yes	Yes	No	Yes	No	Yes	No	No	No	Yes
/usr/libexec/uuidpathd(10.02)	No	-	-	-	-	-	-	-	-	-
/private/var/root	Yes	Yes	No	Yes	No	Yes	No	No	Yes	Yes
/private/var/mobile	Yes	Yes	No	Yes	No	Yes	No	Yes	Yes	Yes
/private/var/mobile/Library	Yes	Yes	No	Yes	No	Yes	No	Yes	Yes	Yes
/private/var/mobile/Library/Caches	Yes	Yes	No	Yes	No	Yes	No	Yes	Yes	Yes

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/private/var/stash(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/private/var/lib/cydia	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/private/var/tmp/cydia.log(*)	No	Yes	-	Yes	-	Yes	-	Yes	-	No
/private/var/tmp/pgloader	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/private/var/mobile/Library/Caches/com.saurik.Cydia	No	Yes	-	Yes	-	Yes	-	Yes	-	Yes
/private/var/mobile/Library/Cydia(*)	No	Yes	-	Yes	-	Yes	-	Yes	-	Yes
/private/var/mobile/Library/SBSettings(*)	No	Yes	-	Yes	-	Yes	-	Yes	-	Yes
/private/var/mobile/Library/SBSettings/Themes(*)	No	Yes	-	Yes	-	Yes	-	Yes	-	Yes
/var/tmp/pgloader	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/var/log/syslog(*)	No	-	-	-	-	-	-	-	-	-
/var/lib/cydia	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/var/cache/apt	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/private/var/lib/apt	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/User/Applications(*)	No	-	-	-	-	-	-	-	-	-
/usr/arm-apple-darwin9(*)	No	-	-	-	-	-	-	-	-	-

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/usr/include	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/etc/apt	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/etc/ssh/sshd_config(*)	No	Yes	-	Yes	-	Yes	-	No	-	No
/usr/libexec/ssh-keysign(*)	No	Yes	-	No	-	No	-	No	-	Yes
/var/tmp/cydia.log(*)	No	Yes	-	Yes	-	Yes	-	Yes	-	No
/usr/lib/libpatcyh.dylib	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/lib/librocketbootstrap.dylib(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/lib/libapplist.dylib(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/Library/MobileSubstrate/DynamicLibraries	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/Library/MobileSubstrate/DynamicLibraries/AppList.dylib(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/Library/MobileSubstrate/DynamicLibraries/AppList.plist(*)	No	Yes	-	Yes	-	Yes	-	No	-	No
/Library/MobileSubstrate/DynamicLibraries/CustomWidgetIcons.dylib(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/Library/MobileSubstrate/DynamicLibraries/CustomWidgetIcons.plist(*)	No	Yes	-	Yes	-	Yes	-	No	-	No
/Library/MobileSubstrate/DynamicLibraries/MobileSafety.dylib(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/Library/MobileSubstrate/DynamicLibraries/MobileSafety.plist(*)	No	Yes	-	Yes	-	Yes	-	No	-	No

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/Library/MobileSubstrate/DynamicLibraries/OpenSiri.dylib(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/Library/MobileSubstrate/DynamicLibraries/OpenSiri.plist(*)	No	Yes	-	Yes	-	Yes	-	No	-	No
/Library/MobileSubstrate/DynamicLibraries/PreferenceLoader.dylib(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/Library/MobileSubstrate/DynamicLibraries/PreferenceLoader.plist(*)	No	Yes	-	Yes	-	Yes	-	No	-	No
/Library/MobileSubstrate/DynamicLibraries/RocketBootstrap.dylib(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/Library/MobileSubstrate/DynamicLibraries/RocketBootstrap.plist(*)	No	Yes	-	Yes	-	Yes	-	No	-	No
/Library/MobileSubstrate/DynamicLibraries/SSLKilSwitch2.dylib(*)	No	Yes	-	Yes	-	Yes	-	Yes	-	Yes
/Library/MobileSubstrate/DynamicLibraries/SSLKilSwitch2.plist(*)	No	Yes	-	Yes	-	Yes	-	Yes	-	No
/Library/MobileSubstrate/DynamicLibraries/WeeLoader.dylib(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/Library/MobileSubstrate/DynamicLibraries/WeeLoader.plist(*)	No	Yes	-	Yes	-	Yes	-	No	-	No
/Library/MobileSubstrate/DynamicLibraries/patcyh.dylib	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/Library/MobileSubstrate/DynamicLibraries/patcyh.plist	No	Yes	-	Yes	-	Yes	-	No	-	No
/Library/MobileSubstrate/MobileSubstrate.dylib(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/Library/Frameworks/CydiaSubstrate.framework(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/Library/Frameworks/CydiaSubstrate.framework/Libraries/SubstrateInjection.dylib(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/Library/MobileSubstrate/DynamicLibraries/Veency.plist(*)	No	-	-	-	-	-	-	-	-	-
/Library/MobileSubstrate/DynamicLibraries/LiveClock.plist(*)	No	-	-	-	-	-	-	-	-	-
/System/Library/LaunchDaemons/com.ikey.bbot.plist(*)	No	-	-	-	-	-	-	-	-	-
/System/Library/LaunchDaemons/com.saurik.Cydia.Startup.plist(*)	No	-	-	-	-	-	-	-	-	-
/var/lib/apt	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/libexec/sftp-server(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/Applications/Cydia.app(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/Applications/RockApp.app(*)	No	-	-	-	-	-	-	-	-	-
/Applications/Icy.app(*)	No	-	-	-	-	-	-	-	-	-
/Applications/WinterBoard.app(*)	No	-	-	-	-	-	-	-	-	-
/Applications/SBSettings.app(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/Applications/MxTube.app(*)	No	-	-	-	-	-	-	-	-	-
/Applications/IntelliScreen.app(*)	No	-	-	-	-	-	-	-	-	-
/Applications/FakeCarrier.app(*)	No	-	-	-	-	-	-	-	-	-
/Applications/blackra1n.app(*)	No	-	-	-	-	-	-	-	-	-

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/bin/bash	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/bin/bunzip2	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/bin/bzcat	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/bin/bzip2	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/bin/bzip2recover	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/bin/cat	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/bin/chgrp	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/bin/chmod	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/bin/chown	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/bin/cp	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/bin/date	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/bin/dd	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/bin/dir	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/bin/echo	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/bin/egrep	No	Yes	-	Yes	-	Yes	-	No	-	Yes

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/bin/false	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/bin/fgrep	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/bin/grep	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/bin/gzexe	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/bin/gzip	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/bin/kill	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/bin/launchctl	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/bin/ln	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/bin/ls	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/bin/mkdir	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/bin/mknod	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/bin/mktemp	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/bin/more(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/bin/mv	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/bin/ping(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/bin/ping6(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/bin/pwd	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/bin/readlink	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/bin/rm	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/bin/rmdir	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/bin/run-parts	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/bin/sed	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/bin/sh	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/bin/sleep	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/bin/stty	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/bin/su	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/bin/sync	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/bin/tar	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/bin/touch	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/bin/true	No	Yes	-	Yes	-	Yes	-	No	-	Yes

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/bin/uname	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/bin/uncompress	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/bin/vdir	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/bin/zcat	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/bin/zcmp	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/bin/zdiff	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/bin/zegrep	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/bin/zfgrep	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/bin/zforce	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/bin/zgrep	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/bin/zless	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/bin/zmore	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/bin/znew	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/sbin/clri(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/sbin/dmesg	No	Yes	-	Yes	-	Yes	-	No	-	Yes

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/sbin/dump(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/sbin/dumpfs(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/sbin/dynamic_pager	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/sbin/fstyp_msdos(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/sbin/fstyp_ntfs(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/sbin/fstyp_udf(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/sbin/fstyp_ufs(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/sbin/halt	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/sbin/ifconfig(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/sbin/ip6fw(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/sbin/ipfw(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/sbin/mount_cd9660(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/sbin/mount_devfs(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/sbin/mount_fdesc(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/sbin/mount_kernfs(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/sbin/mount_null(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/sbin/mount_procfs(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/sbin/mount_synths(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/sbin/mount_union(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/sbin/netstat(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/sbin/newfs(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/sbin/nologin	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/sbin/ping(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/sbin/ping6(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/sbin/quotacheck(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/sbin/reboot	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/sbin/restore(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/sbin/route(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/sbin/routed(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/sbin/rtsol(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/sbin/slattach(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/sbin/tunefs(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/sbin/umount(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/2html(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/2xml(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/7z(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/7za(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/Clutch(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/Clutch2(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/FileDP(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/ObjectDump(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/l(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/appsearch(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/apr-1-config(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/apt-cache(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/usr/bin/apt-cdrom(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/apt-config(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/apt-extracttemplates(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/apt-ftparchive(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/apt-get(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/apt-key	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/apt-mark(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/apt-sortpkgs(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/apu-1-config(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/ar(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/arch	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/as(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/autopoint(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/awk(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/base64(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/usr/bin/basename(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/bashbug	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/bitcode_strip(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/c_rehash(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/captoinfo	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/cfversion	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/chcon(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/checksyms(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/chflags(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/chfn(*)	No	-	-	-	-	-	-	-	-	-
/usr/bin/chown(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/chsh(*)	No	-	-	-	-	-	-	-	-	-
/usr/bin/cksum(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/class-dump(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/class-dump-z(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/usr/bin/classdump-dyld(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/clear	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/cmp	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/codesign_allocate(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/comm(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/compress(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/csplit(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/csv2(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/ctags(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/curl(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/curl-config(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/cut(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/cycc(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/cycript(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/cynject(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/usr/bin/db_archive(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/db_checkpoint(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/db_codegen(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/db_deadlock(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/db_dump(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/db_hotbackup(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/db_load(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/db_printlog(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/db_recover(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/db_stat(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/db_upgrade(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/db_verify(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/deviceinfo(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/df	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/diff	No	Yes	-	Yes	-	Yes	-	No	-	Yes

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/usr/bin/diff3	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/dircolors(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/dirname	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/doNotify(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/dpkg	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/dpkg-deb	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/dpkg-name	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/dpkg-query	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/dpkg-split	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/dpkg-trigger	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/dselect	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/dsymutil(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/du(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/dyldinfo(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/env(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/usr/bin/envsubst(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/error(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/ex(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/expand(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/expr(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/factor(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/faker(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/filan(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/find	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/finger(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/fmt(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/fold(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/fsmon(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/ftp(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/funzip(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
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/usr/bin/gawk(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/gdb(*)	No	Yes	-	Yes	-	Yes	-	Yes	-	Yes
/usr/bin/getconf	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/gettext(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/gettext.sh(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/gettextize(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/getty	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/git(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/git-cvsserver(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/git-receive-pack(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/git-shell(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/git-upload-archive(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/git-upload-pack(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/gpg	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/gpg-zip	No	Yes	-	Yes	-	Yes	-	No	-	Yes

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/usr/bin/gpgsplit	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/gpgv	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/groups(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/gssc	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/head(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/hexdump(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/hostid(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/hostinfo	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/hostname(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/html2(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/id(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/igawk(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/indr(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/infocmp	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/infotocap	No	Yes	-	Yes	-	Yes	-	No	-	Yes

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/usr/bin/install(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/install_name_tool(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/installipa(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/iomfsetgamma	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/ip-print(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/ip6conf(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/ipainstaller(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/ipcrm(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/ipcs(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/join(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/keychain_dumper(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/keychaineditor(*)	No	Yes	-	Yes	-	Yes	-	Yes	-	Yes
/usr/bin/killall	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/last(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/ld(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/usr/bin/ldid	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/ldrestart	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/less(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/lessecho(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/lesskey(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/libtool(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/link(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/lipo(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/locale(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/locate	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/logger(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/login	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/logname(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/lsof(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/lsvfs(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/usr/bin/lzcat	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/lzcmp	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/lzdiff	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/lzegrep	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/lzfgrep	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/lzgrep	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/lzless	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/lzma	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/lzmadec	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/lzmainfo	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/lzmore	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/machocheck(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/make(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/md(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/md5sum(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/usr/bin/mesg(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/mig(*)	No	Yes	-	Yes	-	Yes	-	No	-	No
/usr/bin/mkfifo(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/mktemp(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/more(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/msgattrib(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/msgcat(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/msgcmp(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/msgcomm(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/msgconv(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/msgen(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/msgexec(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/msgfilter(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/msgfmt(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/msggrep(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/usr/bin/msginit(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/msgmerge(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/msgunfmt(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/msguniq(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/nano(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/ncurses5-config	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/ncursesw5-config	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/neon-config(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/ngettext(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/nice(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/nl(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/nm(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/nmedit(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/nohup(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/notificationWatcher(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/usr/bin/nproc(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/ondeviceconsole(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/open(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/openURL(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/openssl(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/otool(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/pagesize	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/pagstuff(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/passwd	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/paste(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/patch(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/pathchk(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/pax(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/pbcopy(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/pbpaste(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/usr/bin/pbwatcher(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/pcap-config(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/pcrc-config(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/pcregrep(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/pcrctest(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/pincrush(*)	No	Yes	-	Yes	-	Yes	-	Yes	-	Yes
/usr/bin/ping(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/pinky(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/play(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/plutil(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/pr(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/printenv(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/printf(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/procan(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/ps(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/usr/bin/ptx(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/quota(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/ranlib(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/rcp(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/recode-sr-latin(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/redo_prebinding(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/renice	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/reset	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/restart(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/rlogin(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/rnano(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/rpcgen(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/rsh(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/rsync(*)	No	Yes	-	Yes	-	Yes	-	Yes	-	Yes
/usr/bin/runcon(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/usr/bin/rview(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/rvim(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/say(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/sbdlidlaunch	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/sbreload	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/scp(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/script	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/sdiff	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/seg_addr_table(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/seg_hack(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/segedit(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/seq(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/sftp(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/sha1sum(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/sha224sum(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/usr/bin/sha256sum(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/sha384sum(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/sha512sum(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/shred(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/shuf(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/size(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/slogin(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/socat(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/sort(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/split(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/sqlite3(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/ssh(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/ssh-add(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/ssh-agent(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/ssh-keygen(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/usr/bin/ssh-keyscan(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/stat(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/strings(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/strip(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/sudo(*)	No	Yes	-	No	-	No	-	No	-	Yes
/usr/bin/sudoedit(*)	No	Yes	-	No	-	No	-	No	-	Yes
/usr/bin/sum(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/svn(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/svnadmin(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/svndumpfilter(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/svnlook(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/svnserve(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/svnsync(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/svnversion(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/sw_vers	No	Yes	-	Yes	-	Yes	-	No	-	Yes

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/usr/bin/syslogoff(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/syslogon(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/tabs(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/tac(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/tail(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/talk(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/tar	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/tee(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/telnet(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/test(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/tftp(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/tic	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/time	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/timeout(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/toe	No	Yes	-	Yes	-	Yes	-	No	-	Yes

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/usr/bin/top(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/tput	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/tr(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/truncate(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/tset	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/tsort(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/tty(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/uicache	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/uiduid	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/uiopen	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/unexpand(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/unifdef(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/uniq(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/unlink(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/unlzma	No	Yes	-	Yes	-	Yes	-	No	-	Yes

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/usr/bin/unrar(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/unwinddump(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/unzip(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/unzipsfx(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/updatedb	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/uptime(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/urclip(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/users(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/uudecode(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/uencode(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/uuid(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/uuid-config(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/view(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/vim(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/vimdiff(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/usr/bin/vimtutor(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/wc(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/wget(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/which	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/who(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/whoami(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/whois(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/write(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/xar(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/xargs	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/xgettext(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/xml2(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/xml2-config(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/xmlcatalog(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/xmllint(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/usr/bin/xmlwf(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/xxd(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/yes(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/zip(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/zipcloak(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/zipnote(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/bin/zipsplit(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/sbin/ac	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/sbin/accton	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/sbin/arp(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/sbin/chown(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/sbin/chroot(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/sbin/dev_mkdb(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/sbin/edquota(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/sbin/fdisk(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/usr/sbin/frida-server(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/sbin/ioalloccount(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/sbin/ioclasscount(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/sbin/ioreg(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/sbin/iostat	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/sbin/mkfile	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/sbin/natd(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/sbin/ndp(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/sbin/pwd_mkdb	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/sbin/quot(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/sbin/quotaoon(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/sbin/repquota(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/sbin/sshd(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/sbin/startupfiletool	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/sbin/sysctl	No	Yes	-	Yes	-	Yes	-	No	-	Yes

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/usr/sbin/tcpdump(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/sbin/traceroute(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/sbin/traceroute6(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/sbin/trpt(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/sbin/update	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/sbin/vifs	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/sbin/vipw	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/sbin/visudo(*)	No	Yes	-	No	-	No	-	No	-	Yes
/usr/sbin/vsdbutil(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/sbin/zdump	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/sbin/zic	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/libexec/MSUnrestrictProcess(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/libexec/as(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/libexec/awk(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/libexec/bigram	No	Yes	-	Yes	-	Yes	-	No	-	Yes

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/usr/libexec/code	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/libexec/cydia	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/libexec/fingerd(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/libexec/frcode	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/libexec/ftpd(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/libexec/gdb(*)	No	Yes	-	Yes	-	Yes	-	Yes	-	Yes
/usr/libexec/git-core(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/libexec/gnupg	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/libexec/inetd(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/libexec/kdumpd(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/libexec/migcom(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/libexec/rexecd(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/libexec/rlogind(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/libexec/rmt	No	Yes	-	Yes	-	Yes	-	No	-	Yes

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/usr/libexec/rocketd(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/libexec/rshd(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/libexec/ssh-pkcs11-helper(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/libexec/sshd-keygen-wrapper(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/libexec/substrate(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/libexec/sudo_noexec.dylib(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/libexec/sudo_noexec.la(*)	No	Yes	-	Yes	-	Yes	-	No	-	No
/usr/libexec/telnetd(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/libexec/tftpd(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/libexec/uucpd(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/libexec/vndevice(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/.cydia_no_stash	No	Yes	-	Yes	-	Yes	-	No	-	No
/etc/ssh(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/local/bin(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/usr/local/bin/CSStashedAppExecutable(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/Library/MobileSubstrate	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/Library/LaunchDaemons	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/Library/LaunchDaemons/com.openssh.sshd.plist(*)	No	Yes	-	Yes	-	Yes	-	No	-	No
/Library/LaunchDaemons/com.rpetrich.rocketbootstrapd.plist(*)	No	Yes	-	Yes	-	Yes	-	No	-	No
/Library/LaunchDaemons/com.saurik.Cydia.Startup.plist	No	Yes	-	Yes	-	Yes	-	No	-	No
/Library/LaunchDaemons/io.pangu93.loader.plist	No	Yes	-	Yes	-	Yes	-	No	-	No
/Library/LaunchDaemons/re.frida.server.plist(*)	No	Yes	-	Yes	-	Yes	-	No	-	No
/System/Library/LaunchDaemons/com.bigboss.sbsettingsd.plist(*)	No	Yes	-	Yes	-	Yes	-	No	-	No
/usr/bin/chpass(*)	No	-	-	-	-	-	-	-	-	-
/usr/lib/libcypcript.0.dylib(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/usr/lib/libcypcript.cy(*)	No	Yes	-	Yes	-	Yes	-	No	-	No
/usr/lib/libcypcript.db(*)	No	Yes	-	Yes	-	Yes	-	No	-	No
/usr/lib/libcypcript.dylib(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes

File	Exists		Openable		Readable		Writable		Executable	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-	-	-
/usr/lib/libcypcript.jar(*)	No	Yes	-	Yes	-	Yes	-	No	-	No
/var/stash(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/var/stash/usrbin(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/var/stash/usrlib(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/var/stash/usrlib/libcypcript.cy(*)	No	Yes	-	Yes	-	Yes	-	No	-	No
/var/stash/usrlib/libcypcript.db(*)	No	Yes	-	Yes	-	Yes	-	No	-	No
/var/stash/usrlib/libcypcript.dylib(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/var/stash/usrlib/libcypcript.jar(*)	No	Yes	-	Yes	-	Yes	-	No	-	No
/var/db/stash(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/Applications/Terminal.app(*)	No	Yes	-	Yes	-	Yes	-	No	-	Yes
/dev/tty.iap	Yes	Yes	No	No	No	Yes	No	Yes	No	No

8 Checking file permissions - II

Extension to the aforementioned tables/files.

File	Sticky Link Bit		Mode		Permissions		Size	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-
/(9.21)	t	t	41775	41775	drwxrwxr-t	drwxrwxr-t	748	884
/(9.33)	t	t	41775	41775	drwxrwxr-t	drwxrwxr-t	748	918
/(10.02)	No	-	40755	-	drwxr-xr-x	-	748	-
/Applications(9.21 9.33)	No	No	40775	40775	drwxrwxr-x	drwxrwxr-x	-	-
/Applications(10.02)	No	-	40775	-	drwxrwxr-x	-	-	-
/Developer	t	t	41775	41775	drwxrwxr-t	drwxrwxr-t	-	-
/Library	No	No	40775	40775	drwxrwxr-x	drwxrwxr-x	-	-
/System(9.21 9.33)	No	No	40755	40755	drwxr-xr-x	drwxr-xr-x	102	102
/System(10.02)	No	-	40755	-	drwxr-xr-x	-	136	-
/User(*)	-	l	-	120755	-	lrwxr-xr-x	-	11
/bin	No	No	40755	40755	drwxr-xr-x	drwxr-xr-x	136	2006+
/boot	-	No	-	40755	-	drwxr-xr-x	-	68
/cores	t	t	41775	41775	drwxrwxr-t	drwxrwxr-t	68	68
/dev	No	No	40555	40555	dr-xr-xr-x	dr-xr-xr-x	-	-
/etc	l	l	120755	120755	lrwxr-xr-x	lrwxr-xr-x	11	11

File	Sticky Link Bit		Mode		Permissions		Size	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-
/lib	-	No	-	40755	-	drwxr-xr-x	-	68
/mnt	-	No	-	40755	-	drwxr-xr-x	-	68
/private(9.21 9.33)	No	No	40755	40755	drwxr-xr-x	drwxr-xr-x	136	136
/private(10.02)	No	-	40755	-	drwxr-xr-x	-	170	-
/sbin	No	No	40755	40755	drwxr-xr-x	drwxr-xr-x	442	612+
/tmp	l	l	120755	120755	lrwxr-xr-x	lrwxr-xr-x	15	15
/usr	No	No	40755	40755	drwxr-xr-x	drwxr-xr-x	-	-
/var	l	l	120755	120755	lrwxr-xr-x	lrwxr-xr-x	11	11
/var/mobile/Containers/Data/Application	No	No	40755	40755	drwxr-xr-x	drwxr-xr-x	-	-
/var/mobile/Containers/Data/Application/Other-App	No	No	40755	40755	drwxr-xr-x	drwxr-xr-x	-	-
/var/mobile/Containers/Bundle/Application(9.21)	No	No	40755	40755	drwxr-xr-x	drwxr-xr-x	-	-
/var/mobile/Containers/Bundle/Application/Other-App(9.21)	No	No	40755	40755	drwxr-xr-x	drwxr-xr-x	-	-
/var/containers/Bundle/Application(9.33)	No	No	40755	40755	drwxr-xr-x	drwxr-xr-x	-	-
/var/containers/Bundle/Application/Other-App(9.33)	No	No	40755	40755	drwxr-xr-x	drwxr-xr-x	-	-
/var/containers/Bundle/Application(10.02)	No	-	40755	-	drwxr-xr-x	-	-	-

File	Sticky Link Bit		Mode		Permissions		Size	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-
/var/containers/Bundle/Application/Other-App(10.02)	No	-	40755	-	drwxr-xr-x	-	-	-
/private/var/keybags	No	No	40700	40700	drwx---	drwx---	136	136
/Library/Keychains	l	l	120755	120755	lrwxr-xr-x	lrwxr-xr-x	24	24
/private/var/Keychains	No	No	40755	40755	drwxr-xr-x	drwxr-xr-x	-	-
/private/var/Keychains/keychain-2.db(9.21)	No	No	1	100600	---x	-rw---	24	360448
/private/var/Keychains/keychain-2.db(9.33)	No	No	1	100600	---x	-rw---	24	1536000
/private/var/Keychains/keychain-2.db(10.02)	No	-	1	-	---x	-	4494204240	-
/private/var/Keychains/TrustStore.sqlite3(9.21)	No	No	1	100600	---x	-rw---	24	16384
/private/var/Keychains/TrustStore.sqlite3(9.33)	No	No	1	100600	---x	-rw---	24	28672
/private/var/Keychains/TrustStore.sqlite3(10.02)	No	-	1	-	---x	-	4494204240	-
/private/var	No	No	40755	40755	drwxr-xr-x	drwxr-xr-x	-	-
/dev/disk0s1s1(9.21 9.33)	No	No	1	60640	---x	-rw-r---	24	0
/dev/disk0s1s1(10.02)	No	-	1	-	---x	-	4494204240	-
/dev/disk0s1s2(9.21 9.33)	No	No	1	60640	---x	-rw-r---	24	0
/dev/disk0s1s2(10.02)	No	-	1	-	---x	-	4494204240	-

File	Sticky Link Bit		Mode		Permissions		Size	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-
/dev/disk4(9.33)	No	No	1	60640	x	-rw-r	24	0
/dev/disk4(10.02)	No	-	1	-	x	-	4494204240	-
/etc/fstab(9.21 9.33)	No	No	1	100644	x	-rw-r-r	24	67
/etc/fstab(10.02)	No	-	1	-	x	-	4494204240	-
/usr/bin	No	No	40755	40755	drwxr-xr-x	drwxr-xr-x	-	-
/usr/sbin	No	No	40755	40755	drwxr-xr-x	drwxr-xr-x	-	-
/Library/Ringtones	No	No	40775	40775	drwxrwxr-x	drwxrwxr-x	1836	1836
/Library/Wallpaper(9.21 9.33)	No	No	40775	40775	drwxrwxr-x	drwxrwxr-x	136	136
/Library/Wallpaper(10.02)	No	-	40775	-	drwxrwxr-x	-	170	-
/usr/libexec	No	No	40755	40755	drwxr-xr-x	drwxr-xr-x	-	-
/usr/share	No	No	40755	40755	drwxr-xr-x	drwxr-xr-x	442	646+
/bin/df(9.21 9.33)	No	No	1	100755	x	-rwxr-xr-x	24	34768
/bin/df(10.02)	No	-	1	-	x	-	4494204240	-
/bin/ps(9.21 9.33)	No	No	1	104755	x	-rwxr-xr-x	24	54320
/bin/ps(10.02)	No	-	1	-	x	-	4494204240	-

File	Sticky Link Bit		Mode		Permissions		Size	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-
/sbin/fscck(9.21 9.33)	No	No	1	100555	—x	-r-xr-xr-x	24	35440
/sbin/fscck(10.02)	No	-	1	-	—x	-	4494204240	-
/sbin/fscck_exfat	1	1	-	120755	-	lrwxr-xr-x	66	66
/sbin/fscck_hfs	1	1	120755	120755	lrwxr-xr-x	lrwxr-xr-x	62	62
/sbin/fscck_msdos	1	1	-	120755	-	lrwxr-xr-x	66	66
/sbin/fstyp(9.21 9.33)	No	No	1	100555	—x	-r-xr-xr-x	24	34048
/sbin/fstyp(10.02)	No	-	1	-	—x	-	4494204240	-
/sbin/fstyp_hfs(9.21 9.33)	No	No	1	100555	—x	-r-xr-xr-x	24	34448
/sbin/fstyp_hfs(10.02)	No	-	1	-	—x	-	4494204240	-
/sbin/launchd(9.21)	No	No	1	100755	—x	-rwxr-xr-x	24	290448
/sbin/launchd(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	307600
/sbin/launchd(10.02)	No	-	1	-	—x	-	4494204240	-
/sbin/mount(9.21 9.33)	No	No	1	100555	—x	-r-xr-xr-x	24	35328
/sbin/mount(10.02)	No	-	1	-	—x	-	4494204240	-
/sbin/mount_hfs	1	1	120755	120755	lrwxr-xr-x	lrwxr-xr-x	63	63

File	Sticky Link Bit		Mode		Permissions		Size	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-
/sbin/newfs_hfs	1	1	120755	120755	lrwxr-xr-x	lrwxr-xr-x	63	63
/sbin/pfctl(9.21 9.33)	No	No	1	100755	———x	-r-xr-xr-x	24	203520
/sbin/pfctl(10.02)	No	-	1	-	———x	-	4494204240	-
/usr/bin/brctl(9.21)	No	No	1	100755	———x	-rwxr-xr-x	24	170736
/usr/bin/brctl(9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	187440
/usr/bin/brctl(10.02)	No	-	1	-	———x	-	4494204240	-
/usr/bin/powerlogHelperd(9.21)	No	No	1	100755	———x	-rwxr-xr-x	24	35936
/usr/bin/powerlogHelperd(9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	36160
/usr/bin/powerlogHelperd(10.02)	No	-	1	-	———x	-	4494204240	-
/usr/bin/powerlogd(9.21)	No	No	1	100755	———x	-rwxr-xr-x	24	36192
/usr/bin/powerlogd(9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	36432
/usr/bin/powerlogd(10.02)	No	-	1	-	———x	-	4494204240	-
/usr/bin/simulatecrash(9.21 9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	34288
/usr/bin/simulatecrash(10.02)	No	-	1	-	———x	-	4494204240	-
/usr/bin/sysdiagnose(9.21)	No	No	1	100755	———x	-rwxr-xr-x	24	342560

File	Sticky Link Bit		Mode		Permissions		Size	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-
/usr/bin/sysdiagnose(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	386160
/usr/bin/sysdiagnose(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/bin/taskinfo(9.21 9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	35648
/usr/bin/taskinfo(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/bin/vm_stat(9.21 9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	34496
/usr/bin/vm_stat(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/bin/zprint(9.21 9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	36816
/usr/bin/zprint(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/sbin/absd(9.21 9.33)	No	No	1	100555	—x	-r-xr-xr-x	24	583552
/usr/sbin/absd(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/sbin/addNetworkInterface(9.21)	No	No	1	100755	—x	-rwxr-xr-x	24	40160
/usr/sbin/addNetworkInterface(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	40176
/usr/sbin/addNetworkInterface(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/sbin/aslmanager(9.21)	No	No	1	100755	—x	-rwxr-xr-x	24	75904
/usr/sbin/aslmanager(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	75952

File	Sticky Link Bit		Mode		Permissions		Size	
-	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-
/usr/sbin/aslmanager(10.02)	No	-	1	-	———x	-	4494204240	-
/usr/sbin/BTAvrpc(9.21)	No	No	1	100755	———x	-rwxr-xr-x	24	133408
/usr/sbin/BTAvrpc(9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	134368
/usr/sbin/BTAvrpc(10.02)	No	-	1	-	———x	-	4494204240	-
/usr/sbin/BTLEServer(9.21)	No	No	1	100755	———x	-rwxr-xr-x	24	291664
/usr/sbin/BTLEServer(9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	275168
/usr/sbin/BTLEServer(10.02)	No	-	1	-	———x	-	4494204240	-
/usr/sbin/BTMap(9.21)	No	No	1	100755	———x	-rwxr-xr-x	24	57328
/usr/sbin/BTMap(9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	57280
/usr/sbin/BTMap(10.02)	No	-	1	-	———x	-	4494204240	-
/usr/sbin/BTPbap(9.21)	No	No	1	100755	———x	-rwxr-xr-x	24	57568
/usr/sbin/BTPbap(9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	57504
/usr/sbin/BTPbap(10.02)	No	-	1	-	———x	-	4494204240	-
/usr/sbin/BTServer(9.21)	No	No	1	100755	———x	-rwxr-xr-x	24	2455392
/usr/sbin/BTServer(9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	2489632

File	Sticky Link Bit		Mode		Permissions		Size	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-
/usr/sbin/BTServer(10.02)	No	-	1	-	———x	-	4494204240	-
/usr/sbin/BlueTool(9.21)	No	No	1	100755	———x	-rwxr-xr-x	24	6215888
/usr/sbin/BlueTool(9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	6874512
/usr/sbin/BlueTool(10.02)	No	-	1	-	———x	-	4494204240	-
/usr/sbin/cfprefsd(9.21)	No	No	1	100755	———x	-rwxr-xr-x	24	33424
/usr/sbin/cfprefsd(9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	33760
/usr/sbin/cfprefsd(10.02)	No	-	1	-	———x	-	4494204240	-
/usr/sbin/distnoted(9.21 9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	59280
/usr/sbin/distnoted(10.02)	No	-	1	-	———x	-	4494204240	-
/usr/sbin/filecoordinationd(9.21 9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	53200
/usr/sbin/filecoordinationd(10.02)	No	-	1	-	———x	-	4494204240	-
/usr/sbin/ipconfig(9.21 9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	78816
/usr/sbin/ipconfig(10.02)	No	-	1	-	———x	-	4494204240	-
/usr/sbin/mDNSResponder(9.21)	No	No	1	100755	———x	-rwxr-xr-x	24	746048
/usr/sbin/mDNSResponder(9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	764560

File	Sticky Link Bit		Mode		Permissions		Size	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-
/usr/sbin/mDNSResponder(10.02)	No	-	1	-	——x	-	4494204240	-
/usr/sbin/mDNSResponderHelper(9.21 9.33)	No	No	1	100755	——x	-rwxr-xr-x	24	60000
/usr/sbin/mDNSResponderHelper(10.02)	No	-	1	-	——x	-	4494204240	-
/usr/sbin/mediaserverd(9.21)	No	No	1	100755	——x	-rwxr-xr-x	24	148256
/usr/sbin/mediaserverd(9.33)	No	No	1	100755	——x	-rwxr-xr-x	24	148928
/usr/sbin/mediaserverd(10.02)	No	-	1	-	——x	-	4494204240	-
/usr/sbin/notifyd(9.21 9.33)	No	No	1	100755	——x	-rwxr-xr-x	24	94176
/usr/sbin/notifyd(10.02)	No	-	1	-	——x	-	4494204240	-
/usr/sbin/nvram(9.21 9.33)	No	No	1	100755	——x	-rwxr-xr-x	24	36896
/usr/sbin/nvram(10.02)	No	-	1	-	——x	-	4494204240	-
/usr/sbin/pppd(9.21 9.33)	No	No	1	100555	——x	-r-xr-xr-x	24	351328
/usr/sbin/pppd(10.02)	No	-	1	-	——x	-	4494204240	-
/usr/sbin/racoon(9.21)	No	No	1	100555	——x	-r-xr-xr-x	24	845664
/usr/sbin/racoon(9.33)	No	No	1	100555	——x	-r-xr-xr-x	24	862352
/usr/sbin/racoon(10.02)	No	-	1	-	——x	-	4494204240	-

File	Sticky Link Bit		Mode		Permissions		Size	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-
/usr/sbin/rtadvd(9.21 9.33)	No	No	1	100555	—x	-r-xr-xr-x	24	72784
/usr/sbin/rtadvd(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/sbin/scselect(9.21 9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	35600
/usr/sbin/scselect(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/sbin/scutil(9.21 9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	226560
/usr/sbin/scutil(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/sbin/spindump(9.21)	No	No	1	100755	—x	-rwxr-xr-x	24	218512
/usr/sbin/spindump(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	218480
/usr/sbin/spindump(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/sbin/syslogd(9.21)	No	No	1	100755	—x	-rwxr-xr-x	24	149792
/usr/sbin/syslogd(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	149856
/usr/sbin/syslogd(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/sbin/wifid(9.21)	No	No	1	100755	—x	-rwxr-xr-x	24	1539968
/usr/sbin/wifid(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	1556672
/usr/sbin/wifid(10.02)	No	-	1	-	—x	-	4494204240	-

File	Sticky Link Bit		Mode		Permissions		Size	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-
/usr/sbin/wirelessproxd(9.21)	No	No	1	100755	—x	-rwxr-xr-x	24	347424
/usr/sbin/wirelessproxd(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	397120
/usr/sbin/wirelessproxd(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/sbin/WirelessRadioManagerd(9.21)	No	No	1	100755	—x	-rwxr-xr-x	24	880192
/usr/sbin/WirelessRadioManagerd(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	949408
/usr/sbin/WirelessRadioManagerd(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/BackupAgent(9.21)	No	No	1	100755	—x	-rwxr-xr-x	24	171968
/usr/libexec/BackupAgent(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	172048
/usr/libexec/BackupAgent(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/BackupAgent2(9.21)	No	No	1	100755	—x	-rwxr-xr-x	24	799728
/usr/libexec/BackupAgent2(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	816704
/usr/libexec/BackupAgent2(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/CrashHousekeeping(9.21)	No	No	1	100755	—x	-rwxr-xr-x	24	38512
/usr/libexec/CrashHousekeeping(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	38960
/usr/libexec/CrashHousekeeping(10.02)	No	-	1	-	—x	-	4494204240	-

File	Sticky Link Bit		Mode		Permissions		Size	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-
/usr/libexec/DuetHeuristic-BM(9.21)	No	No	1	100755	—x	-rwxr-xr-x	24	128464
/usr/libexec/DuetHeuristic-BM(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	128592
/usr/libexec/DuetHeuristic-BM(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/FSTaskScheduler(9.21 9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	36496
/usr/libexec/FSTaskScheduler(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/FinishRestoreFromBackup(9.21)	No	No	1	100755	—x	-rwxr-xr-x	24	55488
/usr/libexec/FinishRestoreFromBackup(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	55552
/usr/libexec/FinishRestoreFromBackup(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/MobileGestaltHelper(9.21 9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	36720
/usr/libexec/MobileGestaltHelper(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/NANDTaskScheduler(9.21 9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	35552
/usr/libexec/NANDTaskScheduler(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/OTAPKIAAssetTool(9.21 9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	57776
/usr/libexec/OTAPKIAAssetTool(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/OTATaskingAgent(9.21)	No	No	1	100755	—x	-rwxr-xr-x	24	39200

File	Sticky Link Bit		Mode		Permissions		Size	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-
/usr/libexec/OTATaskingAgent(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	39136
/usr/libexec/OTATaskingAgent(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/PreboardService(9.21 9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	36224
/usr/libexec/PreboardService(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/ProxiedCrashCopier(9.21)	No	No	1	100755	—x	-rwxr-xr-x	24	126896
/usr/libexec/ProxiedCrashCopier(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	126912
/usr/libexec/ProxiedCrashCopier(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/PurpleReverseProxy(9.21 9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	60160
/usr/libexec/PurpleReverseProxy(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/SafariCloudHistoryPushAgent(9.21 9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	34048
/usr/libexec/SafariCloudHistoryPushAgent(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/SyncAgent(9.21)	No	No	1	100755	—x	-rwxr-xr-x	24	61712
/usr/libexec/SyncAgent(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	61808
/usr/libexec/SyncAgent(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/UserEventAgent(9.21)	No	No	1	100755	—x	-rwxr-xr-x	24	42448

File	Sticky Link Bit		Mode		Permissions		Size	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-
/usr/libexec/UserEventAgent(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	42832
/usr/libexec/UserEventAgent(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/adid(9.21)	No	No	1	100555	—x	-r-xr-xr-x	24	1175360
/usr/libexec/adid(9.33)	No	No	1	100555	—x	-r-xr-xr-x	24	1176704
/usr/libexec/adid(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/afcd(9.21)	No	No	1	100755	—x	-rwxr-xr-x	24	39584
/usr/libexec/afcd(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	40336
/usr/libexec/afcd(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/aitd(9.21 9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	202032
/usr/libexec/aitd(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/amfid(9.21 9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	37568
/usr/libexec/amfid(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/assertiond(9.21)	No	No	1	100755	—x	-rwxr-xr-x	24	153712
/usr/libexec/assertiond(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	170176
/usr/libexec/assertiond(10.02)	No	-	1	-	—x	-	4494204240	-

File	Sticky Link Bit		Mode		Permissions		Size	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-
/usr/libexec/atc(9.21 9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	37632
/usr/libexec/atc(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/atwakeup(9.21 9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	39424
/usr/libexec/atwakeup(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/backboardd(9.21)	No	No	1	100755	—x	-rwxr-xr-x	24	474384
/usr/libexec/backboardd(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	527952
/usr/libexec/backboardd(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/biometrickitd(9.21 TouchID)	No	No	1	100755	—x	-rwxr-xr-x	24	314512
/usr/libexec/biometrickitd(9.33 TouchID)	No	No	1	100755	—x	-rwxr-xr-x	24	314928
/usr/libexec/biometrickitd(10.02 TouchID)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/bootpd(9.21 9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	118400
/usr/libexec/bootpd(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/bubbled(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	73584
/usr/libexec/bubbled(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/cc_fips_test(9.21)	No	No	1	100755	—x	-rwxr-xr-x	24	34352

File	Sticky Link Bit		Mode		Permissions		Size	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-
/usr/libexec/cc_fips_test(9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	34368
/usr/libexec/cc_fips_test(10.02)	No	-	1	-	———x	-	4494204240	-
/usr/libexec/checkpointd(9.21)	No	No	1	100755	———x	-rwxr-xr-x	24	350448
/usr/libexec/checkpointd(9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	350464
/usr/libexec/checkpointd(10.02)	No	-	1	-	———x	-	4494204240	-
/usr/libexec/companion_proxy(9.21)	No	No	1	100755	———x	-rwxr-xr-x	24	94320
/usr/libexec/companion_proxy(9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	94688
/usr/libexec/companion_proxy(10.02)	No	-	1	-	———x	-	4494204240	-
/usr/libexec/configd(9.21 9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	293456
/usr/libexec/configd(10.02)	No	-	1	-	———x	-	4494204240	-
/usr/libexec/corecaptured(9.21 9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	33952
/usr/libexec/corecaptured(10.02)	No	-	1	-	———x	-	4494204240	-
/usr/libexec/coreduetd(9.21)	No	No	1	100755	———x	-rwxr-xr-x	24	1120944
/usr/libexec/coreduetd(9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	1138032
/usr/libexec/coreduetd(10.02)	No	-	1	-	———x	-	4494204240	-

File	Sticky Link Bit		Mode		Permissions		Size	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-
/usr/libexec/crash_mover(9.21)	No	No	1	100755	—x	-rwxr-xr-x	24	57920
/usr/libexec/crash_mover(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	58224
/usr/libexec/crash_mover(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/demod(9.21)	No	No	1	100755	—x	-rwxr-xr-x	24	285312
/usr/libexec/demod(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	385888
/usr/libexec/demod(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/demod_helper(9.21)	No	No	1	100755	—x	-rwxr-xr-x	24	113568
/usr/libexec/demod_helper(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	196656
/usr/libexec/demod_helper(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/dhcpd(9.21 9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	603216
/usr/libexec/dhcpd(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/diagnosticd(9.21 9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	79568
/usr/libexec/diagnosticd(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/duetexpertd(9.21)	No	No	1	100755	—x	-rwxr-xr-x	24	37536
/usr/libexec/duetexpertd(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	37744

File	Sticky Link Bit		Mode		Permissions		Size	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-
/usr/libexec/duetexpertd(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/findmydeviced(9.21)	No	No	1	100755	—x	-rwxr-xr-x	24	689472
/usr/libexec/findmydeviced(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	1548976
/usr/libexec/findmydeviced(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/fmfd(9.21)	No	No	1	100755	—x	-rwxr-xr-x	24	452800
/usr/libexec/fmfd(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	469280
/usr/libexec/fmfd(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/fsevents(9.21 9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	91536
/usr/libexec/fsevents(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/ftp-proxy(9.21 9.33)	No	No	1	100555	—x	-r-xr-xr-x	24	56544
/usr/libexec/ftp-proxy(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/gamecontrollerd(9.21 9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	74080
/usr/libexec/gamecontrollerd(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/gamed(9.21)	No	No	1	100755	—x	-rwxr-xr-x	24	2442384
/usr/libexec/gamed(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	2442480

File	Sticky Link Bit		Mode		Permissions		Size	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-
/usr/libexec/gamed(10.02)	No	-	1	-	———x	-	4494204240	-
/usr/libexec/hangreporter(9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	109776
/usr/libexec/hangreporter(10.02)	No	-	1	-	———x	-	4494204240	-
/usr/libexec/hangtracerd(9.21)	No	No	1	100755	———x	-rwxr-xr-x	24	148064
/usr/libexec/hangtracerd(9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	149856
/usr/libexec/hangtracerd(10.02)	No	-	1	-	———x	-	4494204240	-
/usr/libexec/hostapd(9.21 9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	377280
/usr/libexec/hostapd(10.02)	No	-	1	-	———x	-	4494204240	-
/usr/libexec/idamd(9.21 9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	35808
/usr/libexec/idamd(10.02)	No	-	1	-	———x	-	4494204240	-
/usr/libexec/ifccd(9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	1057968
/usr/libexec/ifccd(10.02)	No	-	1	-	———x	-	4494204240	-

File	Sticky Link Bit		Mode		Permissions		Size	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-
/usr/libexec/init_data_protection	l	l	120755	120755	lrwxr-xr-x	lrwxr-xr-x	7	7
/usr/libexec/installd(9.21)	No	No	1	100755	———x	-rwxr-xr-x	24	901040
/usr/libexec/installd(9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	885328
/usr/libexec/installd(10.02)	No	-	1	-	———x	-	4494204240	-
/usr/libexec/ioupsd(9.21)	No	No	1	100755	———x	-rwxr-xr-x	24	40784
/usr/libexec/ioupsd(9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	40848
/usr/libexec/ioupsd(10.02)	No	-	1	-	———x	-	4494204240	-
/usr/libexec/keybagd(9.21)	No	No	1	100755	———x	-rwxr-xr-x	24	117424
/usr/libexec/keybagd(9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	308240
/usr/libexec/keybagd(10.02)	No	-	1	-	———x	-	4494204240	-
/usr/libexec/languageassetd(9.21)	No	No	1	100755	———x	-rwxr-xr-x	24	56720
/usr/libexec/languageassetd(9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	56592
/usr/libexec/languageassetd(10.02)	No	-	1	-	———x	-	4494204240	-
/usr/libexec/limitadtrackingd(9.21 9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	37376
/usr/libexec/limitadtrackingd(10.02)	No	-	1	-	———x	-	4494204240	-

File	Sticky Link Bit		Mode		Permissions		Size	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-
/usr/libexec/locationd(9.21)	No	No	1	100755	—x	-rwxr-xr-x	24	14865680
/usr/libexec/locationd(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	14977328
/usr/libexec/locationd(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/lockbot(9.21)	No	No	1	100755	—x	-rwxr-xr-x	24	74416
/usr/libexec/lockbot(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	74464
/usr/libexec/lockbot(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/lockdownd(9.21)	No	No	1	100755	—x	-rwxr-xr-x	24	685904
/usr/libexec/lockdownd(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	686544
/usr/libexec/lockdownd(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/logd(9.21 9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	36144
/usr/libexec/logd(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/lsd(9.21)	No	No	1	100755	—x	-rwxr-xr-x	24	34496
/usr/libexec/lsd(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	34896
/usr/libexec/lsd(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/lskdd(9.21)	No	No	1	100555	—x	-r-xr-xr-x	24	7071984

File	Sticky Link Bit		Mode		Permissions		Size	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-
/usr/libexec/lskdd(9.33)	No	No	1	100555	—x	-r-xr-xr-x	24	7055872
/usr/libexec/lskdd(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/lskdmsd(9.21)	No	No	1	100555	—x	-r-xr-xr-x	24	5061136
/usr/libexec/lskdmsd(9.33)	No	No	1	100555	—x	-r-xr-xr-x	24	5045008
/usr/libexec/lskdmsd(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/mailq(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	128064
/usr/libexec/mailq(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/mc_mobile_tunnel(9.21)	No	No	1	100755	—x	-rwxr-xr-x	24	81072
/usr/libexec/mc_mobile_tunnel(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	81120
/usr/libexec/mc_mobile_tunnel(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/misagent(9.21)	No	No	1	100755	—x	-rwxr-xr-x	24	41488
/usr/libexec/misagent(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	41552
/usr/libexec/misagent(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/misd(9.33)	No	No	1	100555	—x	-r-xr-xr-x	24	206896
/usr/libexec/misd(10.02)	No	-	1	-	—x	-	4494204240	-

File	Sticky Link Bit		Mode		Permissions		Size	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-
/usr/libexec/mmaintenanced(9.21)	No	No	1	100755	—x	-rwxr-xr-x	24	61856
/usr/libexec/mmaintenanced(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	65264
/usr/libexec/mmaintenanced(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/mobile_assertion_agent(9.21 9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	38128
/usr/libexec/mobile_assertion_agent(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/mobile_diagnostics_relay(9.21 9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	58368
/usr/libexec/mobile_diagnostics_relay(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/mobile_file_relay(9.21 9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	73504
/usr/libexec/mobile_file_relay(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/mobile_house_arrest(9.21)	No	No	1	100755	—x	-rwxr-xr-x	24	37360
/usr/libexec/mobile_house_arrest(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	37408
/usr/libexec/mobile_house_arrest(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/mobile_installation_proxy(9.21)	No	No	1	100755	—x	-rwxr-xr-x	24	56464
/usr/libexec/mobile_installation_proxy(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	56992
/usr/libexec/mobile_installation_proxy(10.02)	No	-	1	-	—x	-	4494204240	-

File	Sticky Link Bit		Mode		Permissions		Size	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-
/usr/libexec/mobile_obliterator(9.21)	No	No	1	100755	—x	-rwxr-xr-x	24	192192
/usr/libexec/mobile_obliterator(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	192096
/usr/libexec/mobile_obliterator(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/mobile_storage_proxy(9.21 9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	36400
/usr/libexec/mobile_storage_proxy(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/mobileactivationd(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	1429424
/usr/libexec/mobileactivationd(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/mobileassetd(9.21)	No	No	1	100755	—x	-rwxr-xr-x	24	343808
/usr/libexec/mobileassetd(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	343792
/usr/libexec/mobileassetd(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/mtmergeprops(9.21 9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	38400
/usr/libexec/mtmergeprops(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/neagent(9.21)	No	No	1	100755	—x	-rwxr-xr-x	24	167184
/usr/libexec/neagent(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	167280
/usr/libexec/neagent(10.02)	No	-	1	-	—x	-	4494204240	-

File	Sticky Link Bit		Mode		Permissions		Size	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-
/usr/libexec/nehelper(9.21)	No	No	1	100755	—x	-rwxr-xr-x	24	167184
/usr/libexec/nehelper(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	184640
/usr/libexec/nehelper(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/nesessionmanager(9.21)	No	No	1	100755	—x	-rwxr-xr-x	24	515296
/usr/libexec/nesessionmanager(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	532144
/usr/libexec/nesessionmanager(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/nfcd(9.21 TouchID)	No	No	1	100755	—x	-rwxr-xr-x	24	395536
/usr/libexec/nfcd(9.33 TouchID)	No	No	1	100755	—x	-rwxr-xr-x	24	395680
/usr/libexec/nfcd(10.02 TouchID)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/nlcd(9.21 9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	55440
/usr/libexec/nlcd(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/notification_proxy(9.21 9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	38032
/usr/libexec/notification_proxy(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/nsurlsessiond(9.21)	No	No	1	100755	—x	-rwxr-xr-x	24	623808
/usr/libexec/nsurlsessiond(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	654240

File	Sticky Link Bit		Mode		Permissions		Size	
-	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-
/usr/libexec/nsurlsessiond(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/nsurlstoraged(9.21)	No	No	1	100755	—x	-rwxr-xr-x	24	232912
/usr/libexec/nsurlstoraged(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	233168
/usr/libexec/nsurlstoraged(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/online-auth-agent(9.21)	No	No	1	100755	—x	-rwxr-xr-x	24	80128
/usr/libexec/online-auth-agent(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	80192
/usr/libexec/online-auth-agent(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/oscard(9.21 9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	38912
/usr/libexec/oscard(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/pcapd(9.21 9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	36896
/usr/libexec/pcapd(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/pfd(9.21 9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	73664
/usr/libexec/pfd(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/pipelined(9.21)	No	No	1	100755	—x	-rwxr-xr-x	24	4029952
/usr/libexec/pipelined(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	4030000

File	Sticky Link Bit		Mode		Permissions		Size	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-
/usr/libexec/pipelined(10.02)	No	-	1	-	———x	-	4494204240	-
/usr/libexec/pkd(9.21 9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	162800
/usr/libexec/pkd(10.02)	No	-	1	-	———x	-	4494204240	-
/usr/libexec/pkreporter(9.21 9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	35552
/usr/libexec/pkreporter(10.02)	No	-	1	-	———x	-	4494204240	-
/usr/libexec/ptpd(9.21)	No	No	1	100755	———x	-rwxr-xr-x	24	196880
/usr/libexec/ptpd(9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	197024
/usr/libexec/ptpd(10.02)	No	-	1	-	———x	-	4494204240	-
/usr/libexec/replayd(9.21)	No	No	1	100755	———x	-rwxr-xr-x	24	130336
/usr/libexec/replayd(9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	130352
/usr/libexec/replayd(10.02)	No	-	1	-	———x	-	4494204240	-
/usr/libexec/rolld(9.21)	No	No	1	100755	———x	-rwxr-xr-x	24	97120
/usr/libexec/rolld(9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	97168
/usr/libexec/rolld(10.02)	No	-	1	-	———x	-	4494204240	-
/usr/libexec/routined(9.21 9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	35344

File	Sticky Link Bit		Mode		Permissions		Size	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-
/usr/libexec/routined(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/rtcreportingd(9.21)	No	No	1	100755	—x	-rwxr-xr-x	24	143264
/usr/libexec/rtcreportingd(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	143280
/usr/libexec/rtcreportingd(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/securityd(9.21)	No	No	1	100755	—x	-rwxr-xr-x	24	1121248
/usr/libexec/securityd(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	1166624
/usr/libexec/securityd(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/seld(9.21 TouchID)	No	No	1	100755	—x	-rwxr-xr-x	24	91488
/usr/libexec/seld(9.33 TouchID)	No	No	1	100755	—x	-rwxr-xr-x	24	91600
/usr/libexec/seld(10.02 TouchID)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/seputil(9.21 9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	56208
/usr/libexec/seputil(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/sharingd(9.21)	No	No	1	100755	—x	-rwxr-xr-x	24	2002592
/usr/libexec/sharingd(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	2048192
/usr/libexec/sharingd(10.02)	No	-	1	-	—x	-	4494204240	-

File	Sticky Link Bit		Mode		Permissions		Size	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-
/usr/libexec/splashboardd(9.21 9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	39424
/usr/libexec/splashboardd(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/springboardservicesrelay(9.21)	No	No	1	100755	—x	-rwxr-xr-x	24	36832
/usr/libexec/springboardservicesrelay(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	37024
/usr/libexec/springboardservicesrelay(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/streaming_zip_conduit(9.21)	No	No	1	100755	—x	-rwxr-xr-x	24	39504
/usr/libexec/streaming_zip_conduit(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	39760
/usr/libexec/streaming_zip_conduit(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/swcd(9.21)	No	No	1	100755	—x	-rwxr-xr-x	24	35648
/usr/libexec/swcd(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	35712
/usr/libexec/swcd(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/symptomsd(9.21)	No	No	1	100755	—x	-rwxr-xr-x	24	36864
/usr/libexec/symptomsd(9.33)	No	No	1	100755	—x	-rwxr-xr-x	24	36960
/usr/libexec/symptomsd(10.02)	No	-	1	-	—x	-	4494204240	-
/usr/libexec/symptomsd-helper(9.21)	No	No	1	100755	—x	-rwxr-xr-x	24	36864

File	Sticky Link Bit		Mode		Permissions		Size	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-
/usr/libexec/symptomsd-helper(9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	36960
/usr/libexec/symptomsd-helper(10.02)	No	-	1	-	———x	-	4494204240	-
/usr/libexec/syslog_relay(9.21 9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	34368
/usr/libexec/syslog_relay(10.02)	No	-	1	-	———x	-	4494204240	-
/usr/libexec/sysstatuscheck(9.21)	No	No	1	100755	———x	-rwxr-xr-x	24	41472
/usr/libexec/sysstatuscheck(9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	41824
/usr/libexec/sysstatuscheck(10.02)	No	-	1	-	———x	-	4494204240	-
/usr/libexec/timed(9.21)	No	No	1	100755	———x	-rwxr-xr-x	24	376704
/usr/libexec/timed(9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	393280
/usr/libexec/timed(10.02)	No	-	1	-	———x	-	4494204240	-
/usr/libexec/tipsd(9.21)	No	No	1	100755	———x	-rwxr-xr-x	24	109296
/usr/libexec/tipsd(9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	126416
/usr/libexec/tipsd(10.02)	No	-	1	-	———x	-	4494204240	-
/usr/libexec/transitd(9.21)	No	No	1	100755	———x	-rwxr-xr-x	24	60112
/usr/libexec/transitd(9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	60224

File	Sticky Link Bit		Mode		Permissions		Size	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-
/usr/libexec/transitd(10.02)	No	-	1	-	———x	-	4494204240	-
/usr/libexec/tzd(9.21 9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	145536
/usr/libexec/tzd(10.02)	No	-	1	-	———x	-	4494204240	-
/usr/libexec/tzinit(9.21 9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	35280
/usr/libexec/tzinit(10.02)	No	-	1	-	———x	-	4494204240	-
/usr/libexec/tzlinkd(9.21 9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	35728
/usr/libexec/tzlinkd(10.02)	No	-	1	-	———x	-	4494204240	-
/usr/libexec/wapic(9.21 9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	262704
/usr/libexec/wapic(10.02)	No	-	1	-	———x	-	4494204240	-
/usr/libexec/webinspectord(9.21 9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	110400
/usr/libexec/webinspectord(10.02)	No	-	1	-	———x	-	4494204240	-
/usr/libexec/wifiFirmwareLoader(9.21 9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	56496
/usr/libexec/wifiFirmwareLoader(10.02)	No	-	1	-	———x	-	4494204240	-
/usr/libexec/xpcproxy(9.21 9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	57808
/usr/libexec/xpcproxy(10.02)	No	-	1	-	———x	-	4494204240	-

File	Sticky Link Bit		Mode		Permissions		Size	
	Jailed	JB	Jailed	JB	Jailed	JB	Jailed	JB
-	-	-	-	-	-	-	-	-
/usr/lib	No	No	40755	40755	drwxr-xr-x	drwxr-xr-x	-	-
/Library/LaunchAgents	No	No	40755	40755	drwxr-xr-x	drwxr-xr-x	68	68
/System/Library/LaunchDaemons	No	No	40755	40755	drwxr-xr-x	drwxr-xr-x	-	-
/usr/libexec/aosnotifyd(9.21 9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	402336
/usr/libexec/findmydeviced-nano-support(9.21)	No	No	1	100755	———x	-rwxr-xr-x	24	93040
/usr/libexec/findmydeviced-nano-support(9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	1004848
/usr/libexec/ios_diagnostics_relay(9.21 9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	35440
/usr/libexec/networkd(9.21)	No	No	1	100755	———x	-rwxr-xr-x	24	669728
/usr/libexec/networkd(9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	669920
/usr/libexec/networkd_privileged(9.21 9.33)	No	No	1	100755	———x	-rwxr-xr-x	24	58304
/usr/libexec/uuidpathd(9.21)	No	No	1	100755	———x	-rwxr-xr-x	24	35408
/private/var/root	No	No	40755	40755	drwxr-xr-x	drwxr-xr-x	-	-
/private/var/mobile	No	No	40711	40711	drwx-x-x	drwx-x-x	-	-
/private/var/mobile/Library	No	No	40711	40711	drwx-x-x	drwx-x-x	-	-
/private/var/mobile/Library/Caches	No	No	40700	-	drwx——	-	-	-
/dev/tty.iap	No	No	1	20666	———x	-rw-rw-rw-	-	0

9 Analysis and Testing

An app was made to confirm the accuracy of the above methods and was able to determine the state of the devices correctly.

Tested successfully on the following devices and iOS versions:

1. iPad Mini 1 : 32-bit : 9.2 : Jailed
2. iPhone 4S : 32-bit : 9.0 : Jailed
3. iPod 6 Gen : 64-bit : 9.33 : Jailed
4. iPad Air 2 : 64-bit : 9.35 : Jailed
5. iPad Air 2 : 64-bit : 10.1(b) : Jailed
6. iPhone 6 : 64-bit : 10.1(b) : Jailed
7. iPhone 6+ : 64-bit : 10.02 : Jailed
8. iPhone 6+ : 64-bit : 9.33 : Jailed
9. iPad Pro : 64-bit : 9.21 : Jailed
10. iPad Pro : 64-bit : 9.21 : Jailbroken
11. iPad Mini 4 : 64-bit : 9.33 : Jailbroken
12. checks related to `"/dev/tty.iap"` are tested only on Non-JB (iOS 11.2) and JB (iOS 9.3.3)

10 Conclusion

Methods mentioned above when consolidated can be considered as a strong mechanism for detecting the state of the system.

Note:

This makes it difficult for an user/attacker to bypass these detection methods.

Having said so, being the root of the system an user/attacker will always have more control on the system and if given more time these checks can again be bypass.

Also not to forget the swizzling techniques, which can any time break all the detection by returning wrong values.

11 Future Work

With the release of new iOS and their jailbreaks many things changes on the system.

Old files gets removed.

New files gets introduced.

Permission model and size gets change.

These things also changes based on the devices (iPhone, iPad etc.)

Due to this, consistent and more thorough analysis needs to be done on different versions and different devices, so as to prevent from generating any false positives.