目录

iOS逆向开发：iPhone越狱

- 最新版本： `v3.1.0`
- 更新时间： `20241227`

简介

iOS逆向开发系列教程之iPhone越狱，先是越狱的概述，然后是越狱前需要了解的背景知识，包括jailbreak、tethered类型、respring、uicache，以及常见越狱工具unc0ver、checkra1n等；接着介绍越狱中的，即如何用unc0ver、checkra1n等工具给iPhone手机越狱，以及越狱后的各种事项，包括恢复越狱、文件管理、包管理器、辅助工具爱思助手和安装ipa。

源码+浏览+下载

本书的各种源码、在线浏览地址、多种格式文件下载如下：

HonKit源码

- crifan/ios_re_iphone_jailbreak: iOS逆向开发：iPhone越狱

如何使用此HonKit源码去生成发布为电子书

详见：crifan/honkit_template: demo how to use crifan honkit template and demo

在线浏览

- iOS逆向开发：iPhone越狱 book.crifan.org
- iOS逆向开发：iPhone越狱 crifan.github.io

离线下载阅读

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- iOS逆向开发：iPhone越狱 ePub
- iOS逆向开发：iPhone越狱 Mobi

版权和用途说明

鸣谢

感谢我的老婆**陈雪**的包容理解和悉心照料，才使得我 `crifan` 有更多精力去专注技术专研和整理归纳出这些电子书和技术教程，特此鸣谢。

其他

作者的其他电子书

本人 `crifan` 还写了其他 `150+` 本电子书教程，感兴趣可移步至：

crifan/crifan_ebook_readme: Crifan的电子书的使用说明

关于作者

关于作者更多介绍，详见：

关于CrifanLi李茂 – 在路上

iPhone越狱概述

- 给iPhone越狱
  - iOS 13
    - 常用越狱工具
      - `checkra1n`
      - `unc0ver`
    - 核心越狱步骤
      - 可以直接手动用工具（ `unc0ver` 、 `checkra1n` 等）去越狱
      - 也可以借助 爱思助手 去越狱
        - 爱思助手 里面有个 一键越狱 集成了很多方便的工具，简化了越狱过程
  - iOS 15+
    - 概述
      - palera1n
        - 支持 `A8-A11` 的 `iOS 15.0` - `iOS 16.5` 的 `rootful` 和 `rootless` 越狱
      - XinaA15
        - 支持 `A12+` 的 `iOS 15.0` - `iOS 15.1.1` 的 `rootless` 越狱
      - Dopamine
        - 支持 `A12-A15, M1` 的 `iOS 15.0` - `iOS 15.4.1` 的 `rootless` 越狱
    - 详解
      - iOS逆向：iOS15越狱
- 越狱后
  - 文件管理
    - 爱思助手的文件管理
    - ssh登录
      - scp通过ssh拷贝
    - Filza文件管理器

TODO：

- 【整理】iOS的iPhone越狱和改机相关知识
- 【已解决】Activator是什么
-
- 【无法解决】iPhone X用爱思助手的unc0ver越狱失败：正在安装 unc0ver 越狱，失败
- 【无法解决】用爱思助手通过unc0ver给iPhone X越狱
- 【已解决】手动用unc0ver去给iPhone X越狱
- 【已解决】Mac中用Cydia Impactor去安装unc0ver到iPhone X
- 【已解决】iPhone X中用unc0ver越狱
- 【已解决】iPhone X用unc0ver越狱后越狱失败爱思助手仍显示未越狱
- 【已解决】Cydia Impactor安装unc0ver的ipa报错：file provision.cpp what Please sign in with an app-specific password
- 【已解决】生成Apple ID的app专用密码
- 【记录】给iPhone X初始化准备越狱开发环境

越狱前

背景知识

越狱前，要了解很多基本概念和背景知识，下面就来详细介绍相关内容。

- 其他相关
  - rootful普通越狱 vs rootless无根越狱
    - 详见：
      - rootless和rootful · iOS逆向：iOS15越狱

`jb` = `jailbreak` =越狱

- 技术角度
  - 越狱=iOS越狱=iOS jailbreak = iPhone越狱
    - 含义：获取iOS设备的Root权限的技术手段
- 类比：iPhone=iOS系统，就像一个监狱
  - 普通iPhone的用户，就像在监狱内，虽然被iOS系统管理约束着，也很安全，但是失去了很多自由
  - 想要更加自由，就要从监狱中逃出来 = 越狱
  - 摆脱iOS系统的约束，拥有更多自由
  - 可以安装更多更好的插件、应用等，做之前非越狱时的不能做的各种事情

tethered类型

即：完美越狱 vs 不完美越狱 vs 半完美越狱 vs 半不完美越狱

- 核心逻辑：2种类型
  - 重启后，是否要（用特殊软件）引导才能开机
    - 是
      - 全越狱=完美越狱
        - 越狱后的iPhone可以正常关机和重启
    - 否
      - 半越狱=不完美越狱
        - iPhone重启后
          - 屏幕就会一直停留在启动画面，也就是"白苹果"状态
          - 或者能正常开机，但已经安装的破解软件都无法正常使用
        - 需要将设备与PC连接后，使用软件进行引导才能使用
  - 重启后，是否还保留越狱状态
    - 是
      - 全越狱
    - 否
      - 半越狱
- 2种核心逻辑组合出4种：越狱类型=Types of Jailbreaks
  - `untethered` = `Untethered jailbreak` = 完美越狱：不需要引导启动
    - 指设备在进行重启后，越狱状态仍被完整保留
  - `semi-untethered` = `Semi-untethered jailbreak` =半完美越狱
    - 指设备在重启后，将丢失越狱状态；而若想要再恢复越狱环境，只需在设备上进行某些操作即可恢复越狱
  - `tethered` = `Tethered jailbreak` =不完美越狱：需要引导启动
    - 当处于此状态的iOS设备开机重启后，之前进行的越狱程序就会失效，用户将失去Root权限，需要将设备连接电脑来使用（如特定版本下的红雪（redsn0w））等越狱软件进行引导开机以后，才可再次使用越狱程序。否则设备将无法正常引导
  - `semi-tethered` = `Semi-tethered jailbreak` =半不完美越狱
    - 指设备在重启后，将丢失越狱状态，并恢复成未越狱状态。如果想要恢复越狱环境，必须连接计算机并在越狱工具的引导下引导来恢复越狱状态

=> 典型越狱效果：

- 很久之前：越狱后，就一直保持越狱状态（完美越狱）
  - 重启iPhone也能保持越狱状态
- 现在：越狱后，重启iPhone会**丢失越狱**（半完美越狱）
  - 所以重启iPhone后，往往还要去：**恢复越狱**
    - 恢复越狱，等于重新执行一遍越狱流程，重新（再次）越狱

respring

- `Respring = Reboot SpringBoard` =重启桌面=注销

iOS系统内有个默认的，自带的应用：`SpringBoard`

也就是你所看到的：`iPhone的桌面`

每次安装越狱插件，为了使得越狱插件生效，则需要，重启桌面，也就是Respring

常见的重启桌面的方式有：

- 命令行操作：
  - 进入命令行方式
    - Mac中通过ssh进入iPhone的命令行
    - iPhone中通过终端类插件进入命令行
  - 具体命令
    - 方式1：杀掉SpringBoard进程

      ```
      killall SpringBoard
      killall -9 SpringBoard
      ```

    - 方式2：`ldrestart`

      ```
      ldrestart
      ```

      - 说明：更彻底的一种重启桌面 == 软重启 = soft reboot
    - 方式3：

      ```
      launchctl reboot userspace
      ```

      - 说明：暂时还没试过
- 图形界面操作
  - `Filza 安装ipa后-》` `右上角 -》` `动作 -》` `注销` （== `Respring` ）
  - palera1n越狱后，`palera1n的app 中-》` `Tools -> Respring`

- XinaA15越狱后，`XinaA15` 的app中-> `注销` = `Respring`

`uicache` =清除界面缓存

- `uicache` = 清除界面（图标的）缓存
  - 概述：iOS的桌面中保存了所有app的图标icon，通过uicache可以刷新缓存，显示最新结果
    - refresh icon cache of jailbreaked apps
  - 典型使用场景=效果
    - 越狱iPhone中
      - 安装 `deb` 插件后，app桌面图标没出现，用了 `uicache` 后，app桌面图标就出现了
      - 删除了 `app` 后，由于某些原因，桌面上仍然残留app的图片 -》 需要 `uicache` 后，桌面上的app图标才消失
  - 如何使用=如何运行 `uicache`
    - 方式1：命令行直接运行 `uicache`
      - 注：很多越狱工具（ `unc0ver` 、 `checkra1n` 、 `palera1n` 等）自带 `uicache` 命令行工具
        - 举例：
          - `palera1n` 越狱后，uicache位置： `/usr/bin/uicache`
            ```
            iPhone8-150:~ root# which uicache
            /usr/bin/uicache
            ```
    - 方式2：UI图形界面工具中运行
      - 举例1： `Filza` 安装deb插件后， `右上角` -》 `动作` -》 `uicache`

- 举例2：palera1n越狱后， `palera1n的app 中-》` `Tools -> UICache`

uicache内部实现细节

- uicache内部实现原理
  - uicache重启和刷新了如下相关内容
    - SpringBoard
    - lsd
    - installd
    - ~/Library/Caches/SpringBoardIconCache
    - ~/Library/Caches/SpringBoardIconCache-small
    - ~/Library/Caches/com.apple.IconsCache
- uicache源码中涉及到的内容

```
killall -SIGSTOP SpringBoard
```

```
killall lsd

rm -rf ~/Library/Caches/SpringBoardIconCache
rm -rf ~/Library/Caches/SpringBoardIconCache-small

rm -rf ~/Library/Caches/com.apple.IconsCache

killall installd

killall -SIGCONT SpringBoard

launchctl stop com.apple.SpringBoard
```

uicache的help语法帮助

```
iPhone8-150:~ root# uicache --help
Usage: uicache [-afhlr] [-i id] [-p path] [-u path]
Modified work Copyright (C) 2021, Procursus Team. All Rights Reserved.

Update iOS registered applications and optionally restart SpringBoard

  -a, --all               Update all system and internal applications
  -f, --force             Force -a to reregister all Applications
                            and modify App Store apps
  -p, --path  path        Update application bundle at the specified path
  -u, --unregister  path  Unregister application bundle at the specified path
  -r, --respring          Restart SpringBoard and backboardd after
                            updating applications
  -l, --list              List the bundle ids of installed apps
  -i, --info  bundleid    Give information about given bundle id
  -h, --help              Give this help list.

Contact the Procursus Team for support.
```

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越狱工具

确认iPhone信息和版本

- 记录】iPhone6的手机基本信息
- 【记录】Mac中连接iOS 12.4.5的iPhone6

越狱工具的选择

- 越狱工具的选择
  - 【整理】iOS iPhone破解和越狱相关的基础知识
  - 【整理】不同版本iOS系统的越狱工具的选择
  - 【整理】ios 13 越狱工具的选择
  - 【整理】iOS越狱工具对比：checkra1n、unc0ver、Electra、Pangu等
  - 【已解决】iOS的半越狱和全越狱
  - 【整理】iOS越狱工具：Pangu盘古
  - 【整理】越狱工具软件：奥德赛 Odyssey

结论：

- `iOS <15.0`
  - 说明：越狱工具大多都很成熟和稳定，用的人也很多
  - 针对的iOS系统版本
    - 多数都是：`iOS 12 ~ iOS 14`
    - `iOS <12` ，基本上很少用了
  - 常用
    - unc0ver
    - checkra1n
- `iOS >15.0`
  - 概述
    - 基本可用的
      - XinaA15
      - palera1n
      - Dopamine
    - 根据个人经验，稳定程度大概是：`XinaA15` > `palera1n` > `Dopamine`
  - 详解
    - iOS逆向：iOS15越狱

unc0ver

- unc0ver
  - 主页
    - https://unc0ver.dev/

checkra1n

- checkra1n
  - 主页
    - https://checkra.in

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越狱中

给iPhone越狱

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unc0ver

- 概述
  - 用unc0ver给iPhone越狱
    - 第一步：把unc0ver安装到iPhone中
      - 方式1：借助于 `爱思助手` -> `一键越狱` ->勾选 `unc0ver` ->输入Apple苹果账号
      - 方式2：用 `sideload = 侧加载` 的方式
        - 比如用 `Sideloadly!` ，把unc0ver安装到iPhone中
    - iPhone中用unc0ver的app，按照提示，点击操作，即可越狱
      - 注：
        - 万一失败了，多试几次，基本都可以正常越狱
        - 实在不行，重新安装unc0ver后再试试，最终都可以正常越狱

安装unc0ver到iPhone

概述：

把unc0ver安装到iPhone中

- 方式1：借助于 `爱思助手` -> `一键越狱` ->勾选 `unc0ver` ->输入Apple苹果账号
- 方式2：用 `sideload` = `侧加载` 的方式
  - 比如用 `Sideloadly!` ，把unc0ver安装到iPhone中

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安装unc0ver到iPhone

概述：

用爱思助手安装unc0ver到iPhone中

此处介绍，如何用爱思助手安装unc0ver到iPhone中：

Mac中，打开爱思助手，能检测到iOS 13.6.1的iPhone7：

找到： 工具箱 -> 一键越狱 ：

我的设备	应用游戏	酷炫铃声	高清壁纸	智能刷机	工具箱

iPhone

安装移动端	备份/恢复数据	虚拟U盘	修复游戏失效	修复应用弹窗	下载固件
制作铃声	转换音频	修改音频	转换视频	压缩照片	转换HEIC图片
手机投屏直播	实时屏幕	实时日志	进入恢复模式	打开SSH通道	重启设备	关闭设备
屏蔽iOS更新	整理设备桌面	设备功能开关	删除顽固图标	抹除所有数据	清理设备垃圾	反激活设备	安装IPCC
破解时间限额	跳过设置向导	虚拟定位	备份引导区数据	一键越狱 iOS设备一键越狱工具 名	管理描述文件

公测版: 1.12　　意见反馈　　微信公众号　　检查更新

首次使用时，会先去下载 一键越狱 ：

正在下载一键越狱，请稍候...　　　　　　24%

取消

下载完毕后，自动启动 一键越狱 ：

勾选用：unc0ver，点击 开始越狱 ：

即可开始安装unc0ver到iPhone的过程：

当前设备: iPhone ▾   iOS 13.6.1 iPhone 7 iPhone9,1 A10 64位   安装AppSync 安装AFC2

一键越狱

越狱插件

3. 用匹配的苹果数据线将设备与电脑连接。

4. 设置了密码的设备，请先输入密码或者取消密码。

备注：

1. 越狱过程中无法进行其他操作。

2. 建议在越狱前备份设备中保存的重要数据。

✅ 正在检测AppleMobileDevice服务............................. 成功! [14:26:26]
✅ 等待苹果设备连接到开机模式......................... 成功! [14:26:26]
✅ 正在和设备建立连接......... 成功! [14:26:26]
✅ 正在读取设备信息......... 成功! [14:26:26]
⚠️ 设备UDID: 0386297ed6094bb20d6da3dbf1519fa9f93f23ee
⚠️ 设备类型: iPhone
⚠️ 版本型号: 17G80
⚠️ 产品类型: iPhone9,1
⚠️ 固件版本: 13.6.1
✅ 正在检查依赖文件............................. 成功! [14:26:26]
✅ 正在下载依赖文件............................. 成功! [14:26:34]
✅ 正在校验下载文件............................. 成功! [14:26:34]
✅ 正在读取数据.................................. 成功! [14:26:34]
✅ 正在检查"个人正版"应用数量........... 成功! [14:26:34]
🔵 正在生成安装包..

注意事项

越狱工具使用教程

版本：v1.0.3.4

当前状态：正在越狱，请稍候...   40%   取消越狱

当前设备: iPhone ▾   iOS 13.6.1 iPhone 7 iPhone9,1 A10 64位   安装AppSync 安装AFC2

一键越狱

越狱插件

⚠️ 产品类型: iPhone9,1
⚠️ 固件版本: 13.6.1
✅ 正在检查依赖文件............................. 成功! [14:26:26]
✅ 正在下载依赖文件............................. 成功! [14:26:34]
✅ 正在校验下载文件............................. 成功! [14:26:34]
✅ 正在读取数据.................................. 成功! [14:26:34]
✅ 正在检查"个人正版"应用数量........... 成功! [14:26:34]
✅ 正在生成安装包............................. 成功! [14:26:52]
✅ 正在安装 unc0ver 越狱................. 成功! [14:27:01]
⚠️ 越狱未完成，请在设备上继续进行以下操作：
⚠️ 1、在设备上依次进入"设置 – 通用 – 设备管理"。
⚠️ 2、依次点击"d9041_prayer@163.com – 信任d9041_prayer@163.com – 信任"（设备须保持联网状态）。
⚠️ 3、运行设备上的 unc0ver 应用。
⚠️ 4、点击 unc0ver 应用上的 Jailbreak 按钮，
⚠️ 5、点击 unc0ver 应用上的 OK 按钮，等待设备自行重启。
⚠️ 6、重启完成后，设备桌面如果生成 Cydia 图标则越狱成功，否则请重新执行4、5步骤。
⚠️ 这是不完美越狱，若设备重启，则会恢复到未越狱状态，已装的越狱应用会闪退
⚠️ 请按以下方法进行修复：
⚠️ 1、运行设备上的 unc0ver 应用。
⚠️ 2、点击 unc0ver 应用上的 Re–Jailbreak 按钮，等待设备自行重启。
✅ 用时：00时00分35秒

注意事项

越狱工具使用教程

版本：v1.0.3.4

当前状态：越狱工具安装完成，请在设备上继续按照提示操作   100%   确定

附录

相关日志

一键开机越狱支持以下设备及版本：
所有iOS版本为 8.x / 9.x / 10.x / 11.x / 12 ~ 13.3 的苹果设备。

一键开机越狱步骤：
1. 请确保设备已经激活，而且能正常进入设备桌面。
2. 请确保设备处于正常开机状态。
3. 用匹配的苹果数据线将设备与电脑连接。
4. 设置了密码的设备，请先输入密码或者取消密码。
备注：
1. 越狱过程中无法进行其他操作。
2. 建议在越狱前备份设备中保存的重要数据。

正在检测AppleMobileDevice服务 .... **成功** [**14:26:26**]
等待苹果设备连接到开机模式 .... **成功** [**14:26:26**]
正在和设备建立连接 .... **成功** [**14:26:26**]
正在读取设备信息 .... **成功** [**14:26:26**]

设备UDID **0386297ed6094bb20d6da3dbf1519fa9f93f23ee**
设备类型 **iPhone**
版本型号 **17G80**
产品类型 **iPhone9,1**
固件版本 **13.6.1**
正在检查依赖文件 .... **成功** [**14:26:26**]

正在下载依赖文件 .... **成功** [**14:26:34**]

正在校验下载文件 .... **成功** [**14:26:34**]

正在读取数据 .... **成功** [**14:26:34**]

正在检查"个人正版"应用数量 .... **成功** [**14:26:34**]
正在生成安装包 .... **成功** [**14:26:52**]

正在安装 unc0ver 越狱 .... **成功** [**14:27:01**]
越狱未完成，请在设备上继续进行以下操作：
1、在设备上依次进入"设置 → 通用 → 设备管理"。
2、依次点击"d9041_prayer.163.com → 信任d9041_prayer.163.com → 信任"（设备须保持联网状态）。
3、运行设备上的 unc0ver 应用。
4、点击 unc0ver 应用上的 Jailbreak 按钮，
5、点击 unc0ver 应用上的 OK 按钮，等待设备自行重启。
6、重启完成后，设备桌面如果生成 Cydia 图标则越狱成功，否则请重新执行4、5步骤。
这是不完美越狱，若设备重启，则会恢复到未越狱状态，已装的越狱应用会闪退
请按以下方法进行修复：
1、运行设备上的 unc0ver 应用。
2、点击 unc0ver 应用上的 Re Jailbreak 按钮，等待设备自行重启。
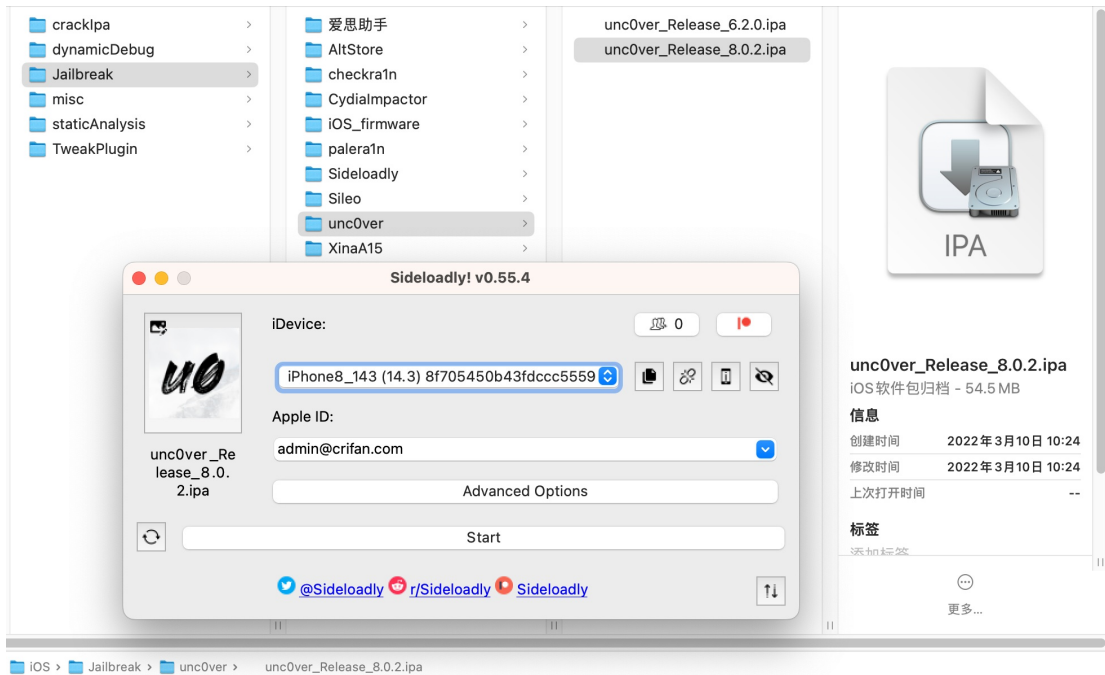**用时：00时00分35秒**

后续即可转去：

使用unc0ver去越狱

使用unc0ver去越狱

用Sideloadly安装unc0ver到iPhone中

概述：

- 下载 `unc0ver` 的 `ipa` 文件
  - unc0ver `v8.0.2`
    - https://unc0ver.dev/downloads/8.0.2/9e44edfbfd1905cadf23c3b9ad1d5bed683ce061/unc0ver_Release_8.0.2.ipa
- 用 `Sideloadly!` 去安装（ `unc0ver` 到 `iPhone` 中）
  - 图

- iOS › Jailbreak › unc0ver › unc0ver_Release_8.0.2.ipa
  - 核心思路
    - 用你给的Apple账号，去获取对应的ID，用于给unc0ver去重新签名，然后上传Upload到iPhone中，再去安装Install，即可

详解

下载unc0ver的ipa

去unc0ver的官网：

https://unc0ver.dev/

去下载unc0ver的ipa文件

目前（20241224）最新的版本是 `v8.0.2` 的：

https://unc0ver.dev/downloads/8.0.2/9e44edfbfd1905cadf23c3b9ad1d5bed683ce061/unc0ver_Release_8.0.2.ipa

历史版本

- v8.0.2, 2021/12/30
  - https://unc0ver.dev/downloads/8.0.2/9e44edfbfd1905cadf23c3b9ad1d5bed683ce061/unc0ver_Release_8.0.2.ipa
- v8.0.1, 2021/12/30
  - https://unc0ver.dev/downloads/8.0.1/076aeba87b437a6e3e13aaf62d256888929eb70c/unc0ver_Release_8.0.1.ipa
- v8.0.0, 2021/12/30
  - https://unc0ver.dev/downloads/8.0.0/83c16266696b792b0988e0e2d8908ab99b426fe6/unc0ver_Release_8.0.0.ipa
- v7.0.2, 2021/10/31
  - https://unc0ver.dev/downloads/7.0.2/11c3f7b0eea806ba3cac975f74dcc2cc4e916bac/unc0ver_Release_7.0.2.ipa
- v7.0.1, 2021/10/29
  - https://unc0ver.dev/downloads/7.0.1/4f30bccf1fe1d24f2764f0e78dc12c67bbd002d6/unc0ver_Release_7.0.1.ipa
- v7.0.0, 2021/10/22
  - https://unc0ver.dev/downloads/7.0.0/48073ecf35dcf43d0607ec779079e8a4d69e90c2/unc0ver_Release_7.0.0.ipa

等等。

下载安装Sideloadly

先去官网下载：

- Sideloadly - iOS, Apple Silicon & TV Sideloading
  - https://sideloadly.io/SideloadlySetup.dmg

得到：`SideloadlySetup.dmg`，然后双击去安装 `Sideloadly`：
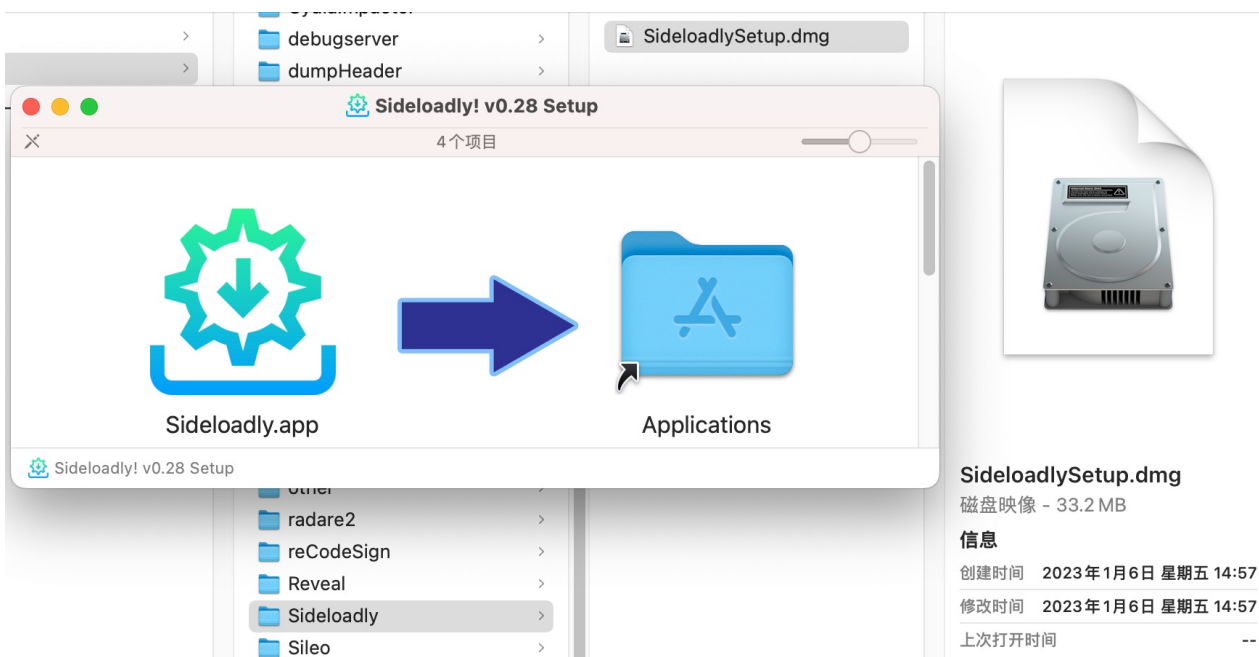
使用Sideloadly安装unc0ver到iPhone

安装后启动 `Sideloadly` ，其会自动更新到最新版本，主界面是：
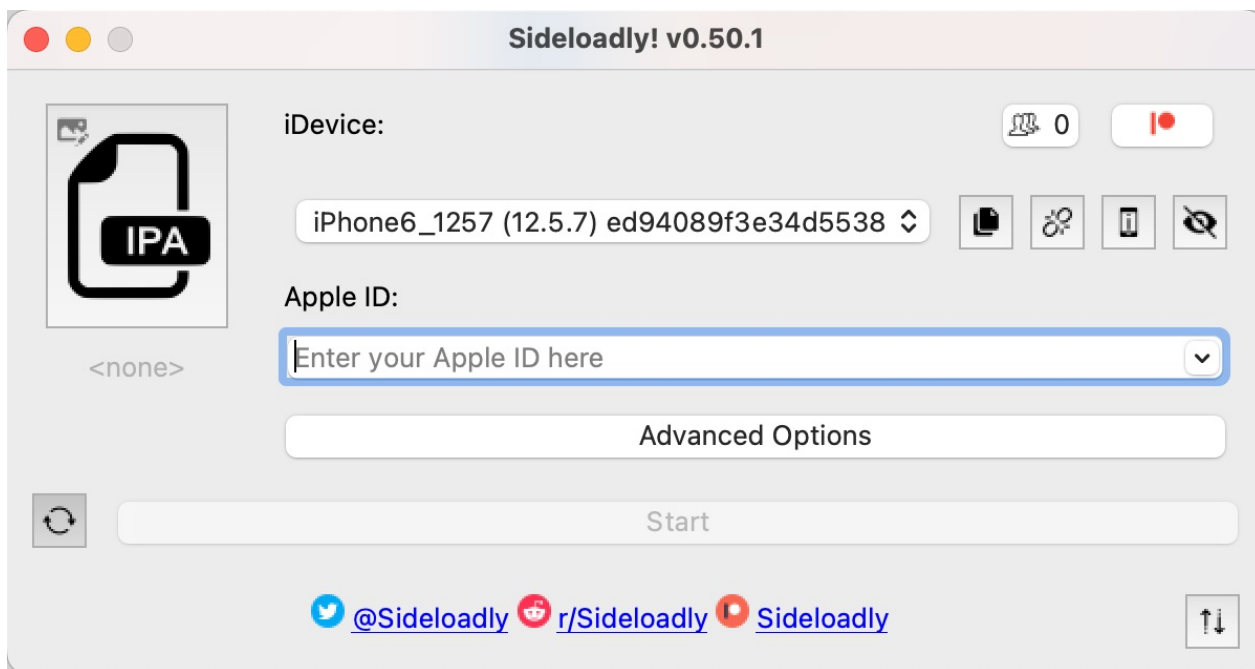
然后：

- `iDevice` 中：选择你要安装的iPhone
  - 如果有多个iPhone同时连接到当前Mac的话
- `Apple ID` 中：输入你的 `Apple账号`

此时是：
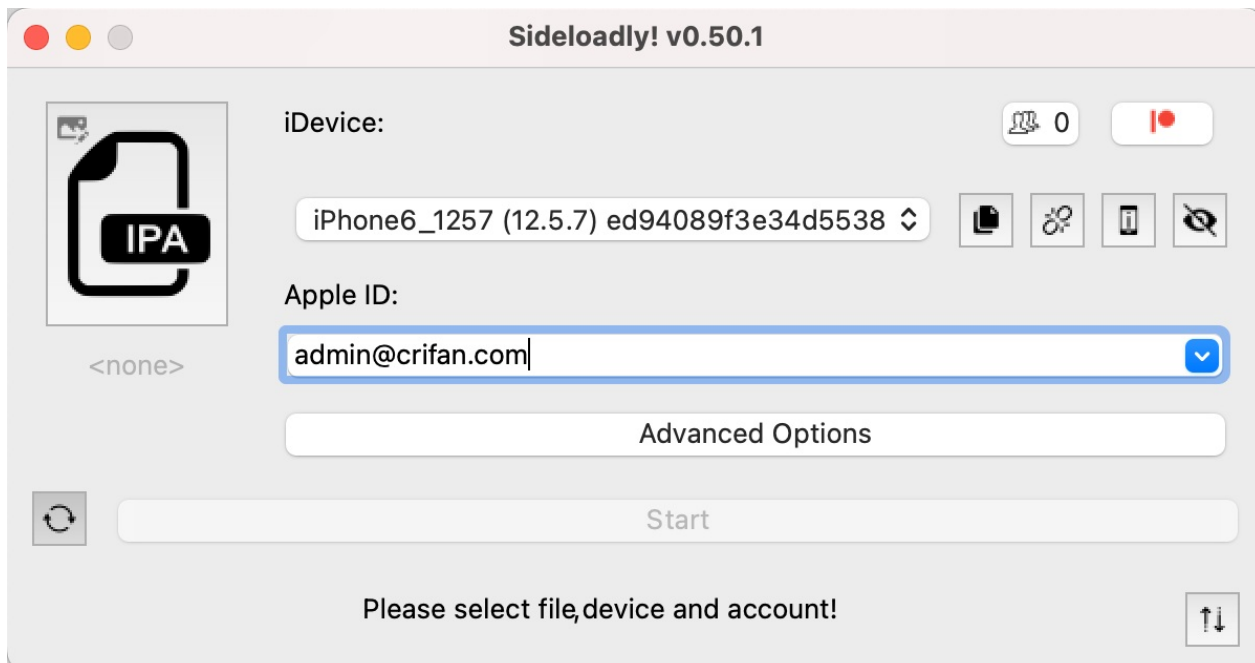
再去把之前已下载的unc0ver的ipa: `unc0ver_Release_8.0.2.ipa` ：
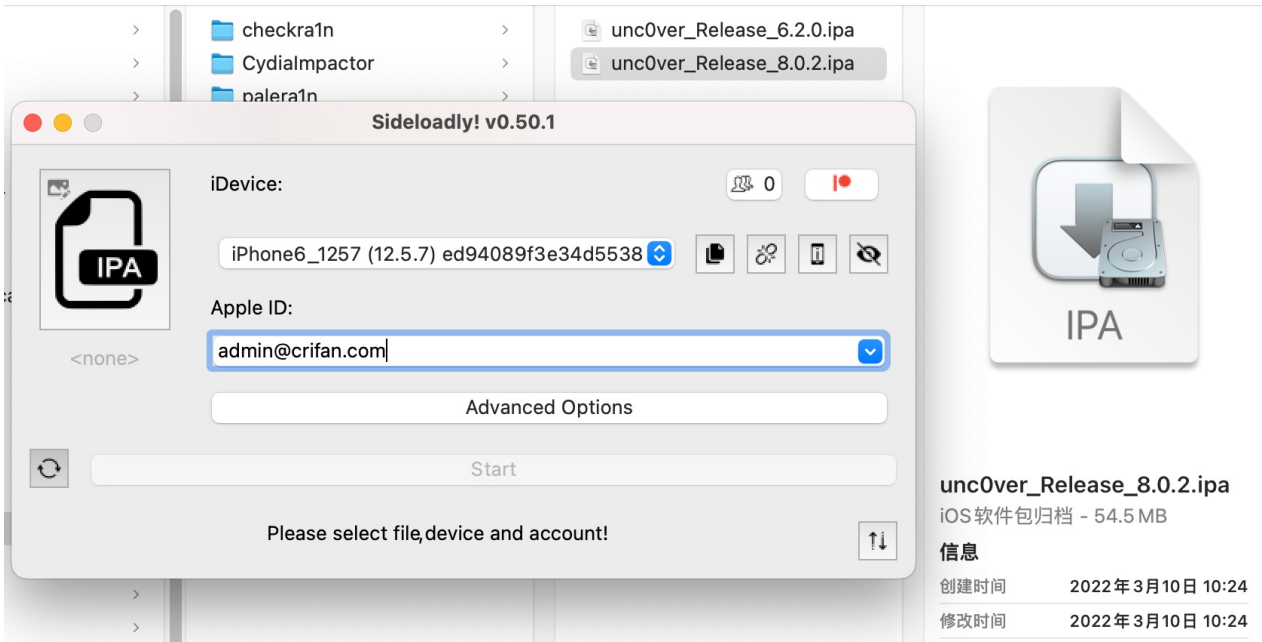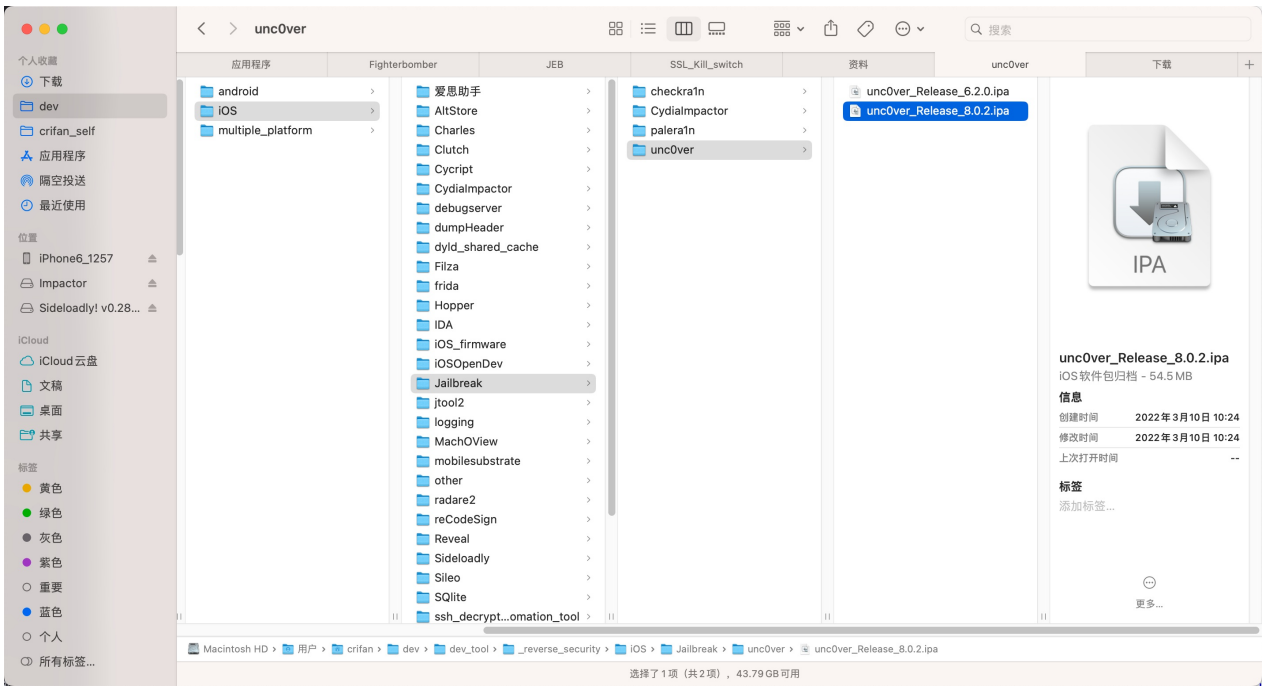
拖动到左边的IPA的图标的位置：
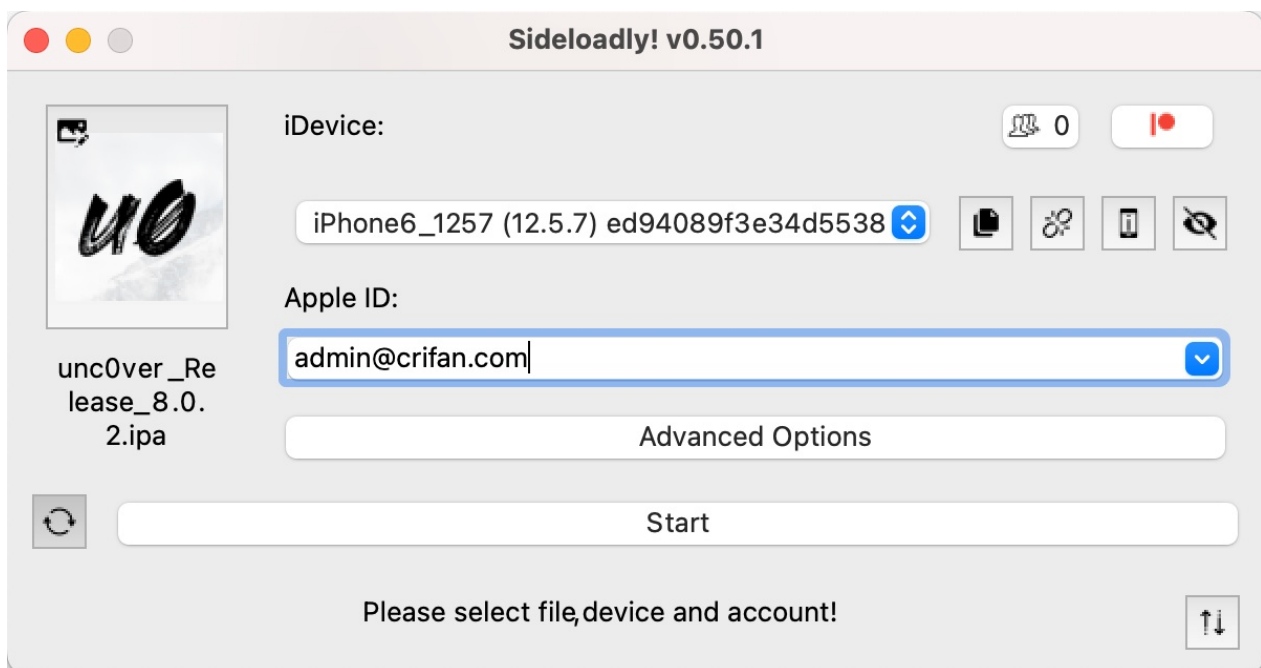
点击Start，即可开始安装的详细过程：

- Obtaining team ID
    - 此时需要输入Apple账号的密码：
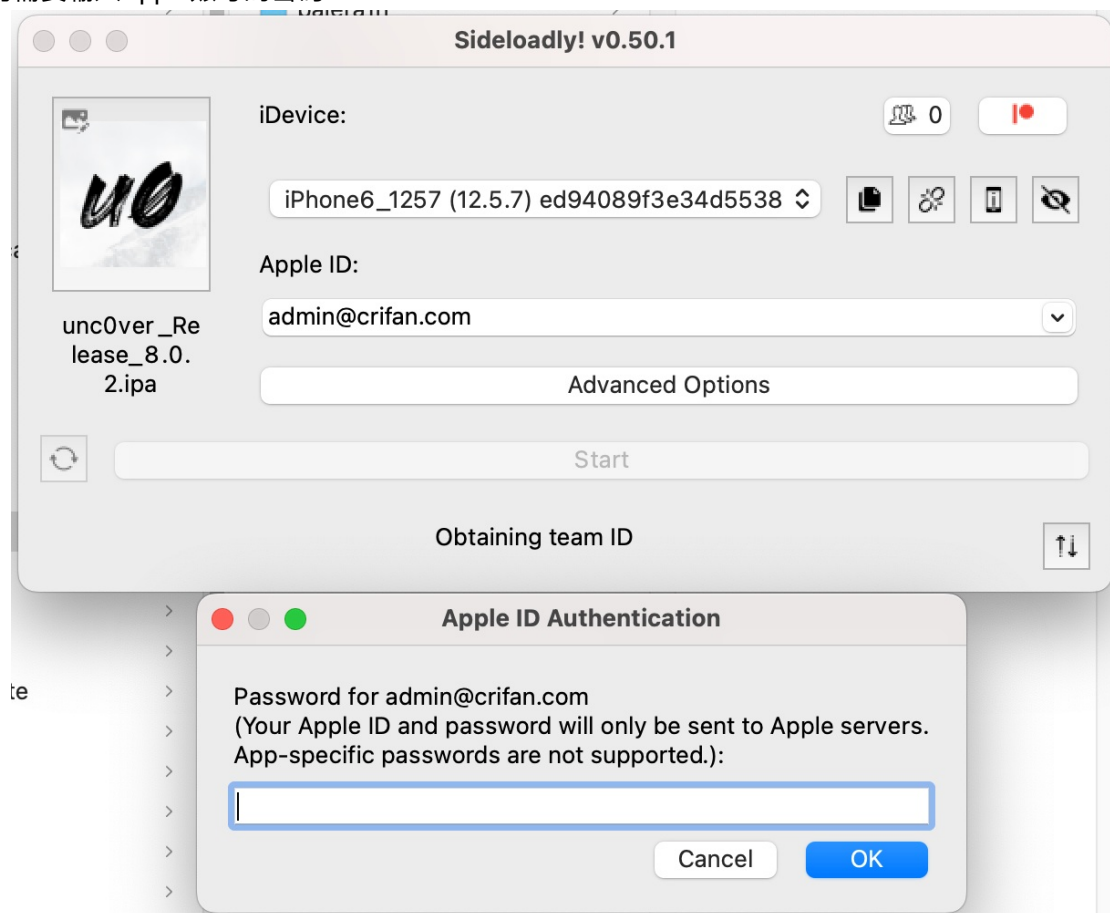
- Generating keypair

-        ○
- Using app ID xxx with id yyy

-        ○
- Signing

-        ○

- Uploading

  -
- Installing
  - Installing 15%: ExtractingPackage
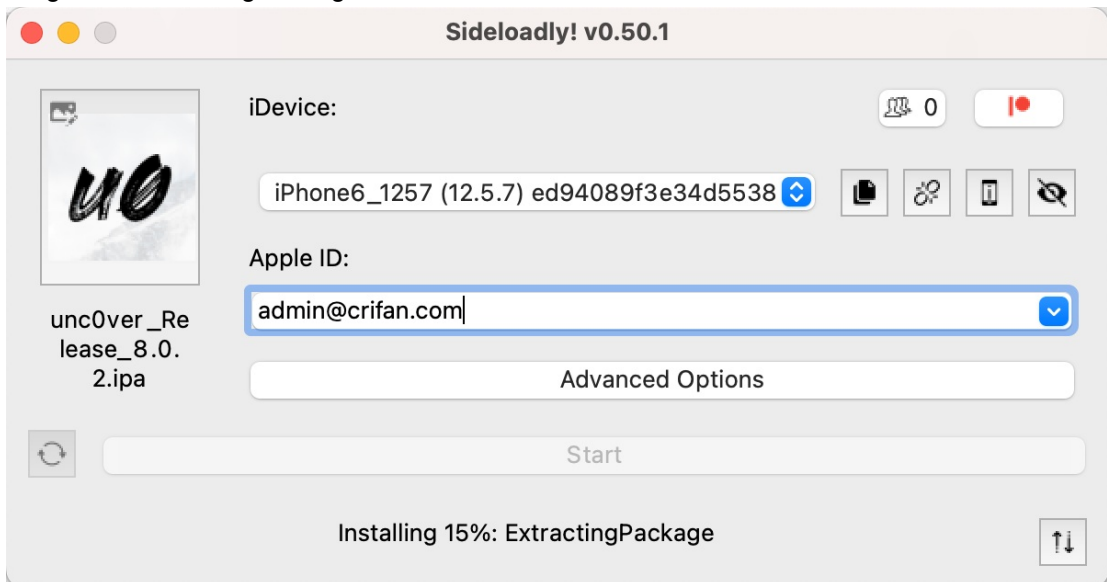
  - Installing 30%: PreflightingApplication
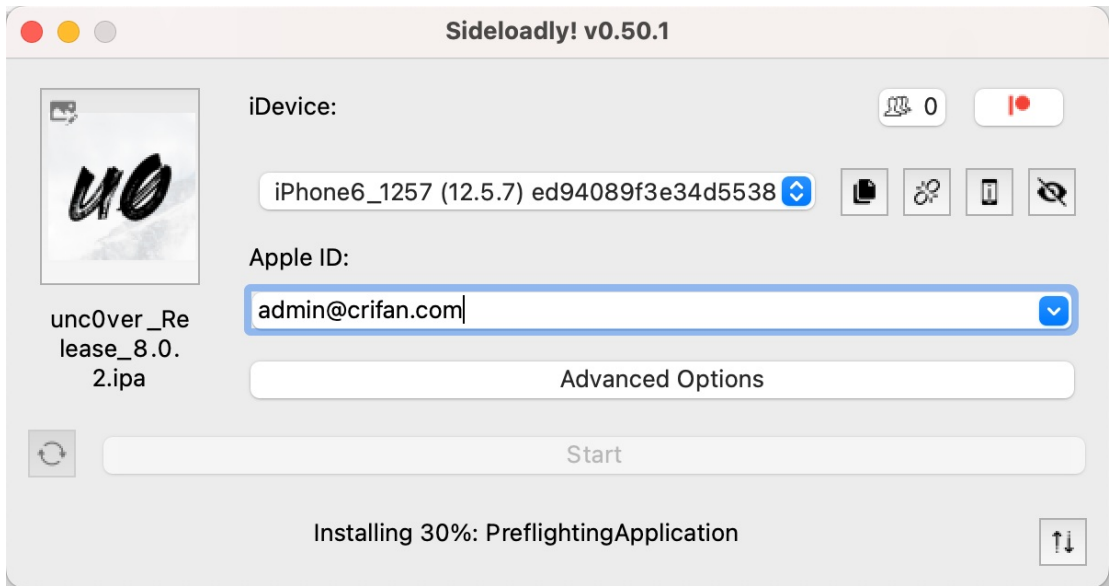
- Installing 40%: VerifyingApplication
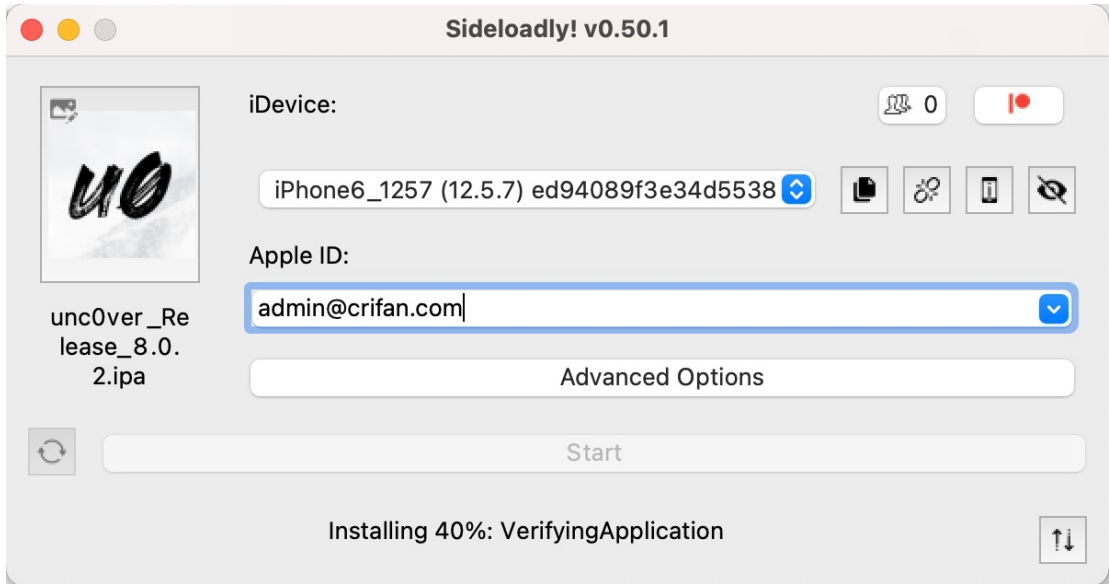
- Installing 100%: Complete
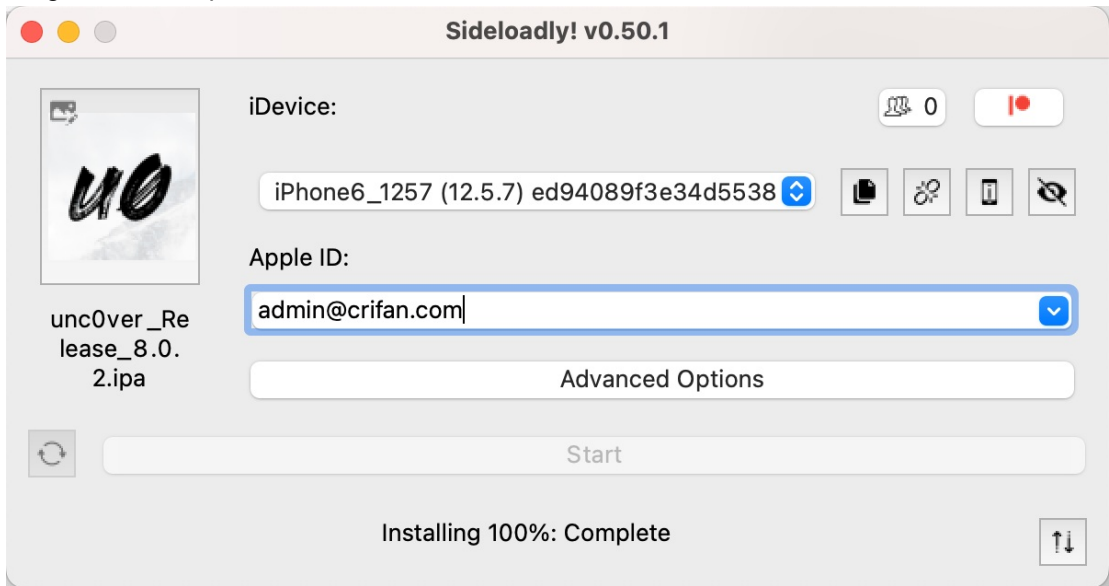
- Done

。

然后，iPhone6中就出现，安装好的unc0ver=桌面上可以看到unc0ver的图标了：

使用unc0ver去越狱

概述：

- iPhone中用unc0ver的app，按照提示，点击操作，即可越狱
  - 注：万一失败了，多试几次，基本都可以正常越狱

crifan.org，使用署名4.0国际(CC BY 4.0)协议发布 all right reserved，powered by Gitbook最后更新：2024-12-24 10:22:59

用unc0ver 6.0.2给iOS 13.6.1的iPhone7越狱

详解：

点击iPhone7桌面中的unc0ver：

启动进入主页面：

启动进入主页面：

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⚙️ 　　　　　　　　　　**Secure iOS**

U0

unc0ver jailbreak
for iOS 11.0 - 14.3
by @pwn20wnd & @sbingner
UI by @iOS_App_Dev & @HiMyNameIsUbik

0/31
Ready to jailbreak

─────────────────────────

the seller
[*] Get unc0ver for free at https://
unc0ver.dev
[*] Configured to share anonymous OS crash
logs
[*] Machine Name: iPhone9,1
[*] Model Name: D10AP
[*] Kernel Version: Darwin Kernel Version
19.6.0: Sat Jun 27 04:35:37 PDT 2020;
root:xnu-6153.142.1~4/RELEASE_ARM64_T8010
[*] Processor Version: A10
[*] Kernel Page Size: 0x4000
[*] System Version: iOS 13.6.1 (Stable)
(Build: 17G80)

Jailbreak

Version: 6.2.0

此处是：

- iPhone7
  - Machine Name：iPhone9,1
  - Model Name: D10AP
  - Kernel Version: Darwin Kernel Version 19.6.0: Sat Jun 04:35:37 PDT 2020;
    - root: xnu-6153.142.1~4/RELEASE_ARM64_T8010
  - Processor Version: A10

界面上显示：

```
[*] unc0ver is not for sale
[*] If you purchased unc0ver, please report the seller
[*] Get unc0ver for free at https://unc0ver.dev
[*] Configured to share anonymous OS crash logs
[*] Machine Name: iPhone9,1
[*] Model Name: D10AP
[*] Kernel Version: Darwin Kernel Version 19.6.0: Sat Jun 27 04:35:37 PDT 2020; root:xn
u-6153.142.1~4/RELEASE_ARM64_T8010
[*] Processor Version: A10
[*] Kernel Page Size: 0x4000
[*] System Version: iOS 13.6.1 (Stable) (Build: 17G80)
```

点击 `Jailbreak` ，开始越狱：

变成：Jailbreaking，正在越狱

.ıll 中国移动 🛜   下午2:28   🔋⚡

⚙   **Secure iOS**

u0

unc0ver jailbreak
for iOS 11.0 - 14.3
by @pwn20wnd & @sbingner
UI by @iOS_App_Dev & @HiMyNameIsUbik

2/31
Exploiting kernel

▰▰▱▱▱▱▱▱▱▱▱▱▱▱▱▱▱▱

```
[*] Configured to share anonymous OS crash
logs
[*] Machine Name: iPhone9,1
[*] Model Name: D10AP
[*] Kernel Version: Darwin Kernel Version
19.6.0: Sat Jun 27 04:35:37 PDT 2020;
root:xnu-6153.142.1~4/RELEASE_ARM64_T8010
[*] Processor Version: A10
[*] Kernel Page Size: 0x4000
[*] System Version: iOS 13.6.1 (Stable)
(Build: 17G80)
[*] Stage (1): Ensuring resources
[+] Ensured resources
[*] Stage (2): Exploiting kernel
```

Jailbreaking

Version: 6.2.0

此处是在：

```
[*] Stage (2): Exploiting kernel
```

等待了很久。

后来出现：
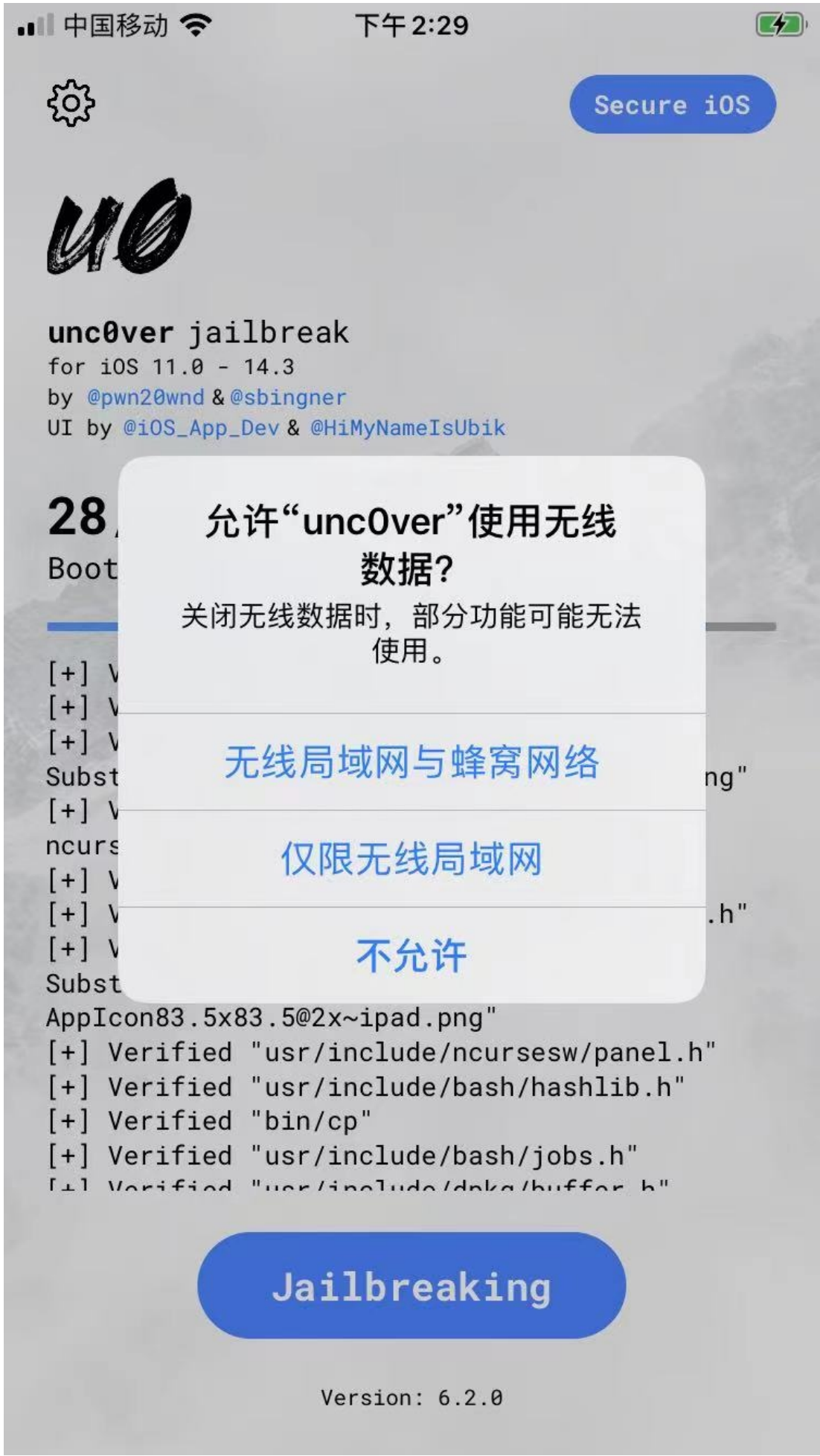
```
[*] Stage (2): Exploiting kernel
```

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UO

unc0ver jailbreak
for iOS 11.0 - 14.3
by @pwn20wnd & @sbingner
UI by @iOS_App_Dev & @HiMyNameIsUbik

28

Boot

[+] V
[+] V
[+] V
Subst　　　　　　　　　　　ng"
[+] V
ncurs
[+] V
[+] V　　　　　　　　　　.h"
[+] V
Subst
AppIcon83.5x83.5@2x~ipad.png"
[+] Verified "usr/include/ncursesw/panel.h"
[+] Verified "usr/include/bash/hashlib.h"
[+] Verified "bin/cp"
[+] Verified "usr/include/bash/jobs.h"
[+] Verified "usr/include/dpkg/buffer.h"

**允许"unc0ver"使用无线
数据？**
关闭无线数据时，部分功能可能无法
使用。

无线局域网与蜂窝网络

仅限无线局域网

不允许

Jailbreaking
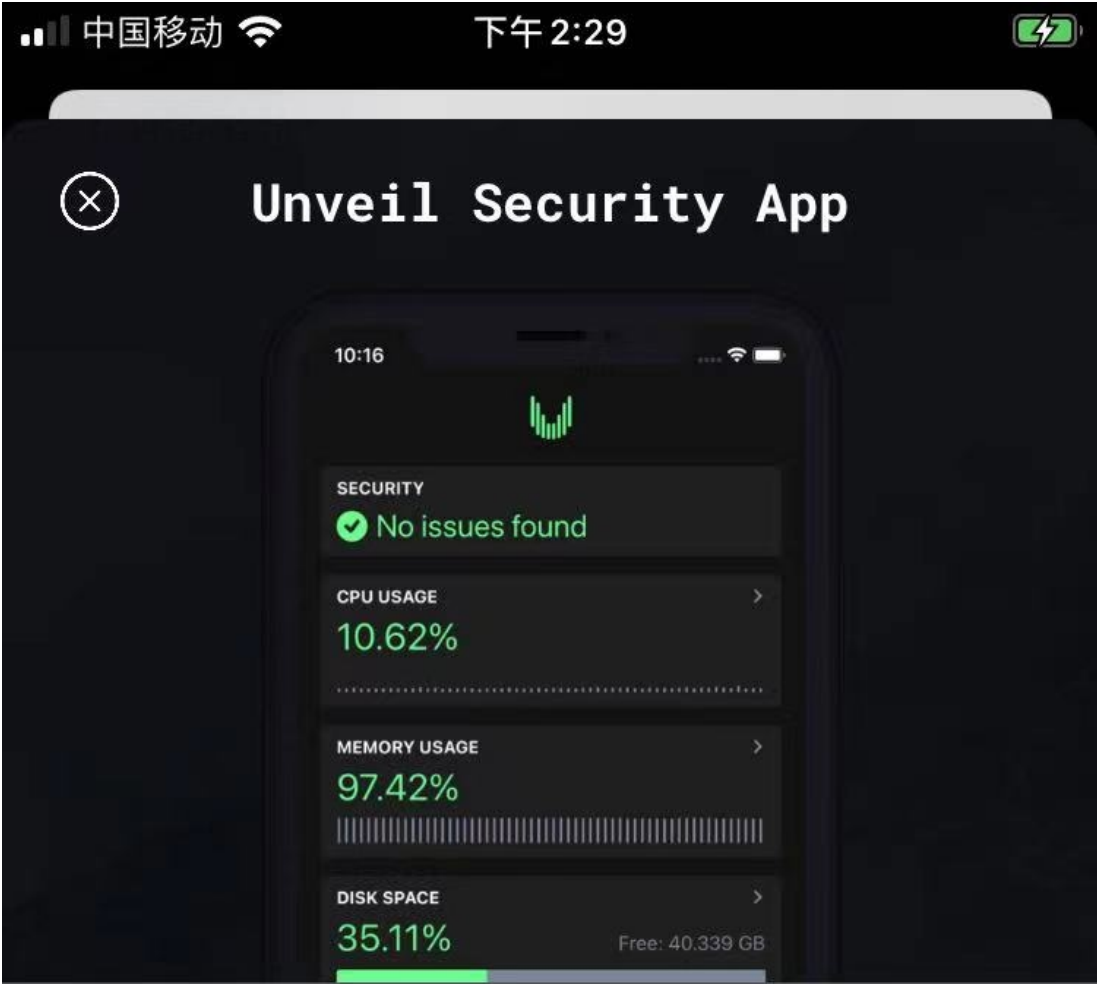
Version: 6.2.0

允许unc0ver使用无线数据?

点击 无线局域网与蜂窝网络

直到出现:

- `Get Unveil` 界面
  - 图
    - ■

允许unc0ver使用无线数据?

点击 无线局域网与蜂窝网络

直到出现:

Unveil Security App

The most advanced system and security analysis tool.

Built by the lead developer of unc0ver, Unveil detects real-world iOS security threats with unprecedented methods and provides a customizable dashboard showing 100+ system details including device, system, CPU, memory, disk, network, Wi-Fi, cellular connection, and personal hotspot usage and specifications.

Get Unveil

- 说明
  - 只是一个广告推广页面

点击左上角的x按钮，去关闭，即可

继续等待一段时间（大概几十秒到3分钟左右）

提示越狱成功：

- `Jailbreak Completed`
  -

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uo

unc0ver jailbreak
for iOS 11.0 - 14.3
by @pwn20wnd & @sbingner
UI by @iOS_App_Dev & @HiMyNameIsUbik

30/31
Ready to jailbreak

insta
[*] F
runCo　　　　　　　　　　　he"
"-p"
runCo　　　　　　　　　　　s 0
[*] F
appli

Jailbreak Completed

No error occurred. The device will now
reboot into the jailbroken state.

| View Log | OK |

runCommandv(574) command: "/usr/bin/uicache"
"-p" "/Applications/SubstituteSettings.app"
runCommandv(574) completed with exit status 0
[*] Stage (29): Creating reload job
[*] Created reload job
[*] Jailbroke in 4133.780 ms
[*] Stage (30): Cleaning up

Jailbreak

Version: 6.2.0

此时：

- 点击OK
- 点击View Log，可以查看日志 -》 然后继续点击：Finish
  。

此时：

- 点击OK
- 点击View Log，可以查看日志 -》 然后继续点击：Finish

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⚙️　　　　　　　　　　　Secure iOS

u0

unc0ver jailbreak
for iOS 11.0 - 14.3
by @pwn20wnd & @sbingner
UI by @iOS_App_Dev & @HiMyNameIsUbik

30/31
Ready to finish

installed
[*] Registering Cydia to application cache...
runCommandv(572) command: "/usr/bin/uicache"
"-p" "/Applications/Cydia.app"
runCommandv(572) completed with exit status 0
[*] Registering SubstituteSettings to
application cache...
runCommandv(574) command: "/usr/bin/uicache"
"-p" "/Applications/SubstituteSettings.app"
runCommandv(574) completed with exit status 0
[*] Stage (29): Creating reload job
[*] Created reload job
[*] Jailbroke in 4133.780 ms
[*] Stage (30): Cleaning up

Finish

Version: 6.2.0

-》 iPhone会自动重启，重启后，就是：越狱完成了

用unc0ver 6.0.2给iOS 13.6.1的iPhone7越狱的详细日志

此处记录，用unc0ver 6.0.2给iOS 13.6.1的iPhone7越狱的最后一步：

- Jailbreak Completed
  - 。
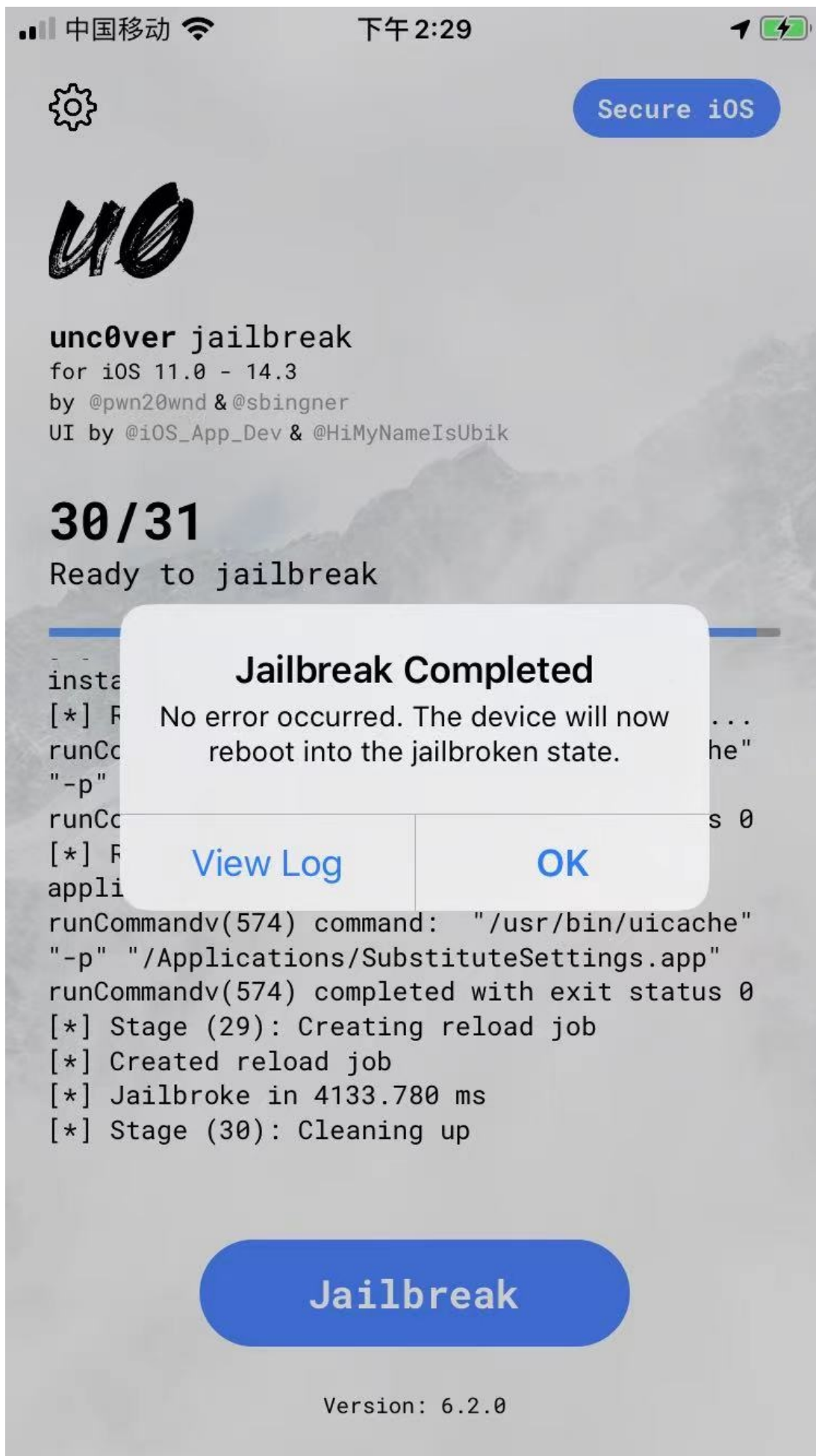
时，在点击了 `View Log` 而查看到的详细日志：

```
[*] unc0ver is not for sale
[*] If you purchased unc0ver, please report the seller
[*] Get unc0ver for free at https://unc0ver.dev
[*] Configured to share anonymous OS crash logs
[*] Machine Name: iPhone9,1
[*] Model Name: D10AP
[*] Kernel Version: Darwin Kernel Version 19.6.0: Sat Jun 27 04:35:37 PDT 2020; root:xn
u-6153.142.1~4/RELEASE_ARM64_T8010
[*] Processor Version: A10
[*] Kernel Page Size: 0x4000
[*] System Version: iOS 13.6.1 (Stable) (Build: 17G80)
[*] Stage (1): Ensuring resources
[+] Ensured resources
[*] Stage (2): Exploiting kernel
[+] Exploited kernel
[*] Stage (3): Initializing
[*] Stage (4): Finding kernel slide
[+] Found kernel slide: 0xf14c000
[*] Stage (5): Finding kernel offsets
[+] Found kernel offsets
[*] Stage (6): Finding data structures
[+] Found data structures
[*] Stage (7): Finding kernel offsets
[+] Found kernel offsets
[*] Stage (8): Obtaining root privileges
[+] Obtained root privileges
[*] Stage (9): Disabling sandbox
[+] Disabled sandbox
[*] Stage (10): Updating host port
[+] Updated host port
[*] Stage (11): Finding kernel offsets
[+] Found kernel offsets
[*] Stage (12): Enabling dynamic codesign
[+] Enabled dynamic codesigning
[*] Stage (14): Saving kernel task port
[+] Saved kernel task port
[*] Stage (15): Saving kernel task info
[+] Saved kernel task info
[*] Stage (17): Disabling codesigning
[+] Disabled codesigning
[*] Stage (18): Obtaining entitlements
[+] Obtained entitlements
[*] Stage (19): Purging software updates
i Performing command: PurgeSuspendedUpdate
i Performing se command: PurgeSuspendedUpdate
[+] Purged software updates
[*] Stage (20): Setting boot-nonce generator
[+] Set boot-nonce generator
[*] Stage (21): Remounting root filesystem
[+] Remounted root filesystem
[*] Stage (22): Preparing filesystem
[+] Enabled code substitution
[+] Prepared filesystem
```

```
[*] Stage (23): Resolving dependencies
[*] Resource Pkgs: "(
    bzip2,
    "coreutils-bin",
    diffutils,
    file,
    sed,
    findutils,
    gzip,
    libplist3,
    firmware,
    "ca-certificates",
    "libssl1.1.1",
    ldid,
    lzma,
    "ncurses5-libs",
    "profile.d",
    coreutils,
    ncurses,
    xz,
    tar,
    dpkg,
    grep,
    readline,
    bash,
    launchctl,
    "com.ex.substitute"
)"⏎
[+] Resolved dependencies
[*] Stage (24): Verifying resources
[+] Verified "usr/bin/dirname"
[+] Verified "bin/bzip2"
[+] Verified "bin/bzip2recover"
[*] No errors in verifying checksums
[+] Verified "bin/cat"
[+] Verified "usr/bin/cmp"
[+] Pkg "bzip2" verified.
[+] Verified "bin/echo"
[+] Verified "usr/bin/diff"
[+] Verified "usr/bin/file"
[+] Verified "bin/pwd"
[+] Verified "usr/include/magic.h"
[+] Verified "usr/bin/diff3"
[+] Verified "bin/touch"
[+] Verified "bin/sed"
[*] No errors in verifying checksums
[+] Pkg "sed" verified.
[+] Verified "usr/lib/libmagic.1.dylib"
[+] Verified "usr/bin/sdiff"
[+] Verified "bin/gunzip"
[*] No errors in verifying checksums
[+] Pkg "diffutils" verified.
[+] Verified "bin/gzexe"
[+] Verified "usr/bin/find"
[+] Verified "etc/profile.d/cacerts.bootstrap.sh"
[+] Verified "usr/lib/libmagic.a"
```

```
[+] Verified "bin/sleep"
[+] Verified "usr/lib/libplist.3.dylib"
[*] No errors in verifying checksums
[+] Pkg "libplist3" verified.
[+] Verified "bin/gzip"
[+] Verified "bin/stty"
[+] Verified "etc/ssl/certs/cacert.pem"
[*] No errors in verifying checksums
[+] Pkg "ca-certificates" verified.
[+] Verified "usr/bin/locate"
[+] Verified "bin/uncompress"
[+] Verified "usr/bin/updatedb"
[+] Verified "bin/zcat"
[+] Verified "bin/zcmp"
[+] Verified "usr/bin/lzdiff"
[+] Verified "bin/chgrp"
[+] Verified "usr/bin/xargs"
[+] Verified "usr/bin/lzgrep"
[+] Verified "bin/zdiff"
[+] Verified "usr/libexec/ldid"
[*] No errors in verifying checksums
[+] Pkg "ldid" verified.
[+] Verified "bin/zegrep"
[+] Verified "etc/profile"
[+] Verified "bin/zfgrep"
[+] Verified "etc/profile.d/terminal.sh"
[*] No errors in verifying checksums
[+] Pkg "profile.d" verified.
[+] Verified "bin/zforce"
[+] Verified "usr/libexec/bigram"
[+] Verified "bin/zgrep"
[+] Verified "bin/uname"
[+] Verified "bin/zless"
[+] Verified "usr/lib/libform.5.dylib"
[+] Verified "usr/bin/lzma"
[+] Verified "bin/zmore"
[+] Verified "bin/znew"
[*] No errors in verifying checksums
[+] Pkg "gzip" verified.
[+] Verified "usr/libexec/code"
[+] Verified "usr/lib/libcrypto.1.1.dylib"
[+] Verified "usr/lib/libformw.5.dylib"
[+] Verified "usr/bin/lzmadec"
[+] Verified "usr/bin/tee"
[+] Verified "bin/date"
[+] Verified "usr/libexec/frcode"
[*] No errors in verifying checksums
[+] Pkg "findutils" verified.
[+] Verified "usr/bin/lzmainfo"
[+] Verified "usr/bin/clear"
[+] Verified "usr/share/misc/magic.mgc"
[*] No errors in verifying checksums
[+] Pkg "file" verified.
[+] Verified "usr/lib/libmenu.5.dylib"
[+] Verified "usr/bin/xz"
[+] Verified "usr/bin/md5sum"
```

```
[+] Verified "bin/readlink"
[+] Verified "usr/bin/lzmore"
[+] Verified "usr/lib/libssl.1.1.dylib"
[+] Verified "usr/include/lzmadec.h"
[+] Verified "usr/bin/xzdec"
[+] Verified "usr/bin/infocmp"
[+] Verified "usr/lib/libmenuw.5.dylib"
[+] Verified "bin/kill"
[+] Verified "usr/lib/engines-1.1/capi.dylib"
[+] Verified "usr/bin/xzdiff"
[+] Verified "usr/bin/ncurses6-config"
[+] Verified "usr/bin/split"
[+] Verified "bin/tar"
[*] No errors in verifying checksums
[+] Verified "usr/bin/ncursesw6-config"
[+] Verified "usr/bin/xzgrep"
[+] Verified "usr/lib/engines-1.1/padlock.dylib"
[*] No errors in verifying checksums
[+] Verified "usr/lib/liblzmadec.0.dylib"
[+] Pkg "tar" verified.
[+] Pkg "libssl1.1.1" verified.
[+] Verified "usr/bin/xzless"
[+] Verified "bin/su"
[+] Verified "usr/bin/shuf"
[+] Verified "usr/lib/libncurses.5.dylib"
[+] Verified "usr/bin/xzmore"
[*] No errors in verifying checksums
[+] Pkg "lzma" verified.
[+] Verified "etc/alternatives/README"
[+] Verified "usr/include/lzma.h"
[+] Verified "bin/mknod"
[+] Verified "bin/egrep"
[+] Verified "usr/bin/mkfifo"
[+] Verified "usr/include/readline/chardefs.h"
[+] Verified "bin/fgrep"
[+] Verified "usr/bin/tic"
[+] Verified "usr/include/lzma/base.h"
[+] Verified "usr/include/readline/history.h"
[+] Verified "usr/lib/libncursesw.5.dylib"
[+] Verified "usr/include/readline/keymaps.h"
[+] Verified "usr/bin/dpkg"
[+] Verified "bin/dd"
[+] Verified "usr/bin/pathchk"
[+] Verified "usr/include/lzma/bcj.h"
[+] Verified "usr/lib/libpanel.5.dylib"
[+] Verified "usr/bin/toe"
[+] Verified "usr/include/lzma/block.h"
[+] Verified "usr/include/readline/readline.h"
[+] Verified "usr/lib/libpanelw.5.dylib"
[*] No errors in verifying checksums
[+] Pkg "ncurses5-libs" verified.
[+] Verified "usr/include/lzma/check.h"
[+] Verified "usr/bin/dpkg-deb"
[+] Verified "usr/bin/tput"
[+] Verified "bin/mktemp"
[+] Verified "bin/grep"
```

```
[*]  No errors in verifying checksums
[+]  Pkg "grep" verified.
[+]  Verified "usr/bin/tset"
[+]  Verified "usr/include/readline/rlconf.h"
[+]  Verified "usr/bin/runcon"
[+]  Verified "usr/include/lzma/container.h"
[+]  Verified "usr/include/readline/rlstdc.h"
[+]  Verified "usr/bin/dpkg-divert"
[+]  Verified "usr/include/lzma/delta.h"
[+]  Verified "usr/bin/dpkg-maintscript-helper"
[+]  Verified "usr/include/readline/rltypedefs.h"
[+]  Verified "usr/include/lzma/filter.h"
[+]  Verified "usr/include/readline/tilde.h"
[+]  Verified "bin/bash"
[+]  Verified "usr/bin/expand"
[+]  Verified "usr/include/lzma/hardware.h"
[+]  Verified "bin/dir"
[+]  Verified "usr/bin/bashbug"
[+]  Verified "usr/include/lzma/index.h"
[+]  Verified "usr/include/curses.h"
[+]  Verified "usr/include/bash/alias.h"
[+]  Verified "usr/include/lzma/index_hash.h"
[+]  Verified "usr/include/eti.h"
[+]  Verified "usr/include/bash/array.h"
[+]  Verified "usr/include/lzma/lzma12.h"
[+]  Verified "usr/lib/libhistory.8.0.dylib"
[+]  Verified "usr/bin/tty"
[+]  Verified "bin/launchctl"
[+]  Verified "usr/include/form.h"
[+]  Verified "usr/include/lzma/stream_flags.h"
[+]  Verified "bin/mkdir"
[*]  No errors in verifying checksums
[+]  Verified "usr/bin/dpkg-query"
[+]  Pkg "launchctl" verified.
[+]  Verified "usr/include/menu.h"
[+]  Verified "usr/include/bash/arrayfunc.h"
[+]  Verified "usr/include/nc_tparm.h"
[+]  Verified "usr/bin/basename"
[+]  Verified "usr/lib/libreadline.8.0.dylib"
[+]  Verified "bin/rmdir"
[+]  Verified "usr/include/ncurses_dll.h"
[+]  Verified "Applications/SubstituteSettings.app/AppIcon20x20@2x.png"
[+]  Verified "usr/include/bash/assoc.h"
[+]  Verified "Applications/SubstituteSettings.app/AppIcon20x20@2x~ipad.png"
[+]  Verified "usr/include/panel.h"
[+]  Verified "usr/bin/dpkg-split"
[+]  Verified "usr/bin/install"
[+]  Verified "usr/lib/pkgconfig/readline.pc"
[*]  No errors in verifying checksums
[+]  Verified "usr/include/lzma/version.h"
[+]  Verified "usr/include/term.h"
[+]  Verified "Applications/SubstituteSettings.app/AppIcon20x20@3x.png"
[+]  Verified "usr/bin/dpkg-statoverride"
[+]  Verified "usr/include/bash/bashansi.h"
[+]  Pkg "readline" verified.
[+]  Verified "usr/include/lzma/vli.h"
```

```
[+] Verified "usr/bin/nice"
[+] Verified "usr/include/bash/bashintl.h"
[+] Verified "usr/include/term_entry.h"
[+] Verified "Applications/SubstituteSettings.app/AppIcon20x20~ipad.png"
[+] Verified "bin/mv"
[+] Verified "usr/include/bash/bashjmp.h"
[+] Verified "usr/include/termcap.h"
[+] Verified "Applications/SubstituteSettings.app/AppIcon29x29@2x.png"
[+] Verified "usr/include/bash/bashtypes.h"
[+] Verified "usr/bin/dpkg-trigger"
[+] Verified "usr/include/tic.h"
[+] Verified "Applications/SubstituteSettings.app/AppIcon29x29@2x~ipad.png"
[+] Verified "usr/include/bash/builtins.h"
[+] Verified "usr/include/unctrl.h"
[+] Verified "usr/bin/truncate"
[+] Verified "Applications/SubstituteSettings.app/AppIcon29x29@3x.png"
[+] Verified "usr/local/lib/liblzma.5.dylib"
[+] Verified "usr/include/bash/command.h"
[+] Verified "Applications/SubstituteSettings.app/AppIcon29x29~ipad.png"
[+] Verified "usr/include/bash/config-bot.h"
[+] Verified "bin/ln"
[+] Verified "Applications/SubstituteSettings.app/AppIcon40x40@2x.png"
[+] Verified "usr/local/lib/pkgconfig/liblzma.pc"
[+] Verified "usr/include/bash/config-top.h"
[+] Verified "usr/bin/dselect"
[+] Verified "usr/local/lib/pkgconfig/liblzma.pce"
[*] No errors in verifying checksums
[+] Pkg "xz" verified.
[+] Verified "usr/include/ncursesw/curses.h"
[+] Verified "usr/include/ncursesw/eti.h"
[+] Verified "usr/include/bash/config.h"
[+] Verified "Applications/SubstituteSettings.app/AppIcon40x40@2x~ipad.png"
[+] Verified "usr/bin/du"
[+] Verified "usr/include/ncursesw/form.h"
[+] Verified "Applications/SubstituteSettings.app/AppIcon40x40~ipad.png"
[+] Verified "usr/include/bash/conftypes.h"
[+] Verified "usr/include/ncursesw/menu.h"
[+] Verified "bin/ls"
[+] Verified "usr/bin/update-alternatives"
[+] Verified "Applications/SubstituteSettings.app/AppIcon60x60@2x.png"
[+] Verified "usr/include/ncursesw/nc_tparm.h"
[+] Verified "usr/include/dpkg/ar.h"
[+] Verified "usr/include/bash/dispose_cmd.h"
[+] Verified "bin/true"
[+] Verified "Applications/SubstituteSettings.app/AppIcon60x60@3x.png"
[+] Verified "usr/include/bash/error.h"
[+] Verified "usr/bin/ptx"
[+] Verified "Applications/SubstituteSettings.app/AppIcon76x76@2x~ipad.png"
[+] Verified "usr/include/bash/externs.h"
[+] Verified "usr/include/dpkg/arch.h"
[+] Verified "Applications/SubstituteSettings.app/AppIcon76x76~ipad.png"
[+] Verified "usr/include/ncursesw/ncurses_dll.h"
[+] Verified "usr/include/bash/general.h"
[+] Verified "usr/include/dpkg/atomic-file.h"
[+] Verified "Applications/SubstituteSettings.app/AppIcon83.5x83.5@2x~ipad.png"
[+] Verified "usr/include/ncursesw/panel.h"
```

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[+] Verified "usr/include/bash/hashlib.h"
[+] Verified "bin/cp"
[+] Verified "usr/include/bash/jobs.h"
[+] Verified "usr/include/dpkg/buffer.h"
[+] Verified "usr/include/bash/make_cmd.h"
[+] Verified "usr/include/dpkg/c-ctype.h"
[+] Verified "usr/include/bash/pathnames.h"
[+] Verified "Applications/SubstituteSettings.app/Assets.car"
[+] Verified "usr/include/bash/quit.h"
[+] Verified "bin/chown"
[+] Verified "usr/bin/join"
[+] Verified "usr/include/dpkg/color.h"
[+] Verified "usr/include/bash/shell.h"
[+] Verified "Applications/SubstituteSettings.app/Info.plist"
[+] Verified "usr/include/ncursesw/term.h"
[+] Verified "usr/include/dpkg/command.h"
[+] Verified "usr/include/bash/sig.h"
[+] Verified "usr/bin/test"
[+] Verified "usr/include/bash/siglist.h"
[+] Verified "usr/include/dpkg/compress.h"
[+] Verified "bin/chmod"
[+] Verified "usr/include/bash/signames.h"
[+] Verified "usr/include/ncursesw/term_entry.h"
[+] Verified "usr/include/bash/subst.h"
[+] Verified "usr/bin/csplit"
[+] Verified "usr/include/dpkg/db-ctrl.h"
[+] Verified "usr/include/bash/syntax.h"
[+] Verified "usr/include/ncursesw/termcap.h"
[+] Verified "bin/rm"
[+] Verified "usr/include/ncursesw/tic.h"
[+] Verified "usr/include/dpkg/db-fsys.h"
[+] Verified "usr/include/ncursesw/unctrl.h"
[+] Verified "usr/include/bash/unwind_prot.h"
[+] Verified "Applications/SubstituteSettings.app/LaunchImage-1100-Landscape-2436h@3x.p
ng"
[+] Verified "usr/include/dpkg/deb-version.h"
[+] Verified "usr/include/bash/variables.h"
[+] Verified "usr/include/dpkg/debug.h"
[+] Verified "usr/bin/sort"
[+] Verified "usr/include/bash/version.h"
[+] Verified "bin/vdir"
[+] Verified "Applications/SubstituteSettings.app/LaunchImage-1100-Portrait-2436h@3x.pn
g"
[+] Verified "usr/include/bash/xmalloc.h"
[+] Verified "usr/include/dpkg/dir.h"
[+] Verified "usr/lib/libform.6.dylib"
[+] Verified "usr/bin/whoami"
[+] Verified "bin/false"
[*] No errors in verifying checksums
[+] Pkg "coreutils-bin" verified.
[+] Verified "usr/include/bash/y.tab.h"
[+] Verified "usr/include/dpkg/dpkg-db.h"
[+] Verified "usr/include/bash/builtins/bashgetopt.h"
[+] Verified "usr/include/dpkg/dpkg.h"
[+] Verified "Applications/SubstituteSettings.app/LaunchImage-1200-Landscape-1792h@2x.p
ng"
```

```
[+] Verified "usr/lib/libformw.6.dylib"
[+] Verified "usr/include/bash/builtins/builtext.h"
[+] Verified "usr/include/dpkg/ehandle.h"
[+] Verified "usr/include/bash/builtins/common.h"
[+] Verified "usr/include/dpkg/error.h"
[+] Verified "usr/bin/unlink"
[+] Verified "usr/include/bash/builtins/getopt.h"
[+] Verified "usr/include/dpkg/fdio.h"
[+] Verified "usr/include/bash/include/ansi_stdlib.h"
[+] Verified "usr/include/dpkg/file.h"
[+] Verified "Applications/SubstituteSettings.app/LaunchImage-1200-Landscape-2688h@3x.p
ng"
[+] Verified "usr/lib/libmenu.6.dylib"
[+] Verified "usr/include/bash/include/chartypes.h"
[+] Verified "usr/include/dpkg/fsys.h"
[+] Verified "usr/include/bash/include/filecntl.h"
[+] Verified "usr/bin/b2sum"
[+] Verified "usr/include/dpkg/glob.h"
[+] Verified "usr/include/bash/include/gettext.h"
[+] Verified "usr/include/dpkg/macros.h"
[+] Verified "usr/include/bash/include/maxpath.h"
[+] Verified "usr/lib/libmenuw.6.dylib"
[+] Verified "Applications/SubstituteSettings.app/LaunchImage-1200-Portrait-1792h@2x.pn
g"
[+] Verified "usr/bin/fmt"
[+] Verified "usr/include/dpkg/namevalue.h"
[+] Verified "usr/include/bash/include/memalloc.h"
[+] Verified "usr/include/dpkg/options.h"
[+] Verified "usr/include/bash/include/ocache.h"
[+] Verified "usr/include/dpkg/pager.h"
[+] Verified "usr/include/bash/include/posixdir.h"
[+] Verified "usr/include/dpkg/parsedump.h"
[+] Verified "usr/bin/logname"
[+] Verified "usr/include/dpkg/path.h"
[+] Verified "Applications/SubstituteSettings.app/LaunchImage-1200-Portrait-2688h@3x.pn
g"
[+] Verified "usr/include/bash/include/posixjmp.h"
[+] Verified "usr/lib/libncurses.6.dylib"
[+] Verified "usr/include/dpkg/pkg-array.h"
[+] Verified "usr/include/bash/include/posixstat.h"
[+] Verified "usr/include/dpkg/pkg-files.h"
[+] Verified "usr/include/bash/include/posixtime.h"
[+] Verified "Applications/SubstituteSettings.app/LaunchImage-700-568h@2x.png"
[+] Verified "usr/include/dpkg/pkg-format.h"
[+] Verified "usr/bin/printenv"
[+] Verified "usr/include/dpkg/pkg-list.h"
[+] Verified "usr/include/bash/include/posixwait.h"
[+] Verified "usr/include/dpkg/pkg-queue.h"
[+] Verified "usr/include/bash/include/shmbchar.h"
[+] Verified "usr/include/bash/include/shmbutil.h"
[+] Verified "usr/lib/libncursesw.6.dylib"
[+] Verified "usr/include/dpkg/pkg-show.h"
[+] Verified "Applications/SubstituteSettings.app/LaunchImage-700-Landscape@2x~ipad.png"

[+] Verified "usr/include/dpkg/pkg-spec.h"
[+] Verified "usr/bin/seq"
```

```
[+] Verified "usr/include/bash/include/shtty.h"
[+] Verified "usr/lib/libpanel.6.dylib"
[+] Verified "Applications/SubstituteSettings.app/LaunchImage-700-Landscape~ipad.png"
[+] Verified "usr/include/dpkg/pkg.h"
[+] Verified "usr/include/bash/include/stat-time.h"
[+] Verified "usr/lib/libpanelw.6.dylib"
[+] Verified "usr/include/bash/include/stdc.h"
[+] Verified "usr/include/dpkg/progname.h"
[+] Verified "usr/lib/pkgconfig/form.pc"
[+] Verified "usr/include/dpkg/program.h"
[+] Verified "Applications/SubstituteSettings.app/LaunchImage-700-Portrait@2x~ipad.png"
[+] Verified "usr/include/bash/include/systimes.h"
[+] Verified "usr/lib/pkgconfig/formw.pc"
[+] Verified "usr/lib/pkgconfig/menu.pc"
[+] Verified "usr/bin/sha224sum"
[+] Verified "usr/include/bash/include/typemax.h"
[+] Verified "Applications/SubstituteSettings.app/LaunchImage-700-Portrait~ipad.png"
[+] Verified "usr/include/dpkg/progress.h"
[+] Verified "Applications/SubstituteSettings.app/LaunchImage-700@2x.png"
[+] Verified "usr/include/dpkg/report.h"
[+] Verified "usr/lib/pkgconfig/menuw.pc"
[+] Verified "usr/include/bash/include/unionwait.h"
[+] Verified "usr/include/dpkg/string.h"
[+] Verified "usr/lib/pkgconfig/ncurses.pc"
[+] Verified "usr/bin/od"
[+] Verified "usr/lib/bash/Makefile.inc"
[+] Verified "usr/lib/pkgconfig/ncursesw.pc"
[+] Verified "usr/include/dpkg/subproc.h"
[+] Verified "usr/lib/bash/basename"
[+] Verified "usr/include/dpkg/tarfn.h"
[+] Verified "Applications/SubstituteSettings.app/LaunchImage-800-667h@2x.png"
[+] Verified "usr/include/dpkg/treewalk.h"
[+] Verified "usr/bin/base64"
[+] Verified "usr/lib/bash/dirname"
[+] Verified "usr/include/dpkg/trigdeferred.h"
[+] Verified "usr/lib/pkgconfig/panel.pc"
[+] Verified "usr/include/dpkg/triglib.h"
[+] Verified "usr/lib/bash/fdflags"
[+] Verified "usr/include/dpkg/varbuf.h"
[+] Verified "usr/bin/realpath"
[+] Verified "Applications/SubstituteSettings.app/LaunchImage-800-Landscape-736h@3x.png"

[+] Verified "usr/lib/pkgconfig/panelw.pc"
[+] Verified "usr/include/dpkg/version.h"
[+] Verified "usr/share/tabset/std"
[+] Verified "usr/share/tabset/stdcrt"
[+] Verified "usr/lib/bash/finfo"
[+] Verified "usr/bin/dircolors"
[+] Verified "usr/share/tabset/vt100"
[+] Verified "Applications/SubstituteSettings.app/LaunchImage-800-Portrait-736h@3x.png"
[+] Verified "usr/lib/bash/head"
[+] Verified "usr/share/tabset/vt300"
[+] Verified "usr/share/terminfo/A/Apple_Terminal"
[+] Verified "usr/bin/timeout"
[+] Verified "usr/share/terminfo/E/Eterm"
[+] Verified "usr/lib/bash/id"
```

```
[+] Verified "usr/lib/libdpkg.a"
[+] Verified "usr/share/terminfo/E/Eterm-256color"
[+] Verified "usr/lib/pkgconfig/libdpkg.pc"
[+] Verified "usr/share/terminfo/E/Eterm-88color"
[+] Verified "Applications/SubstituteSettings.app/SubstituteSettings"
[+] Verified "usr/share/dpkg/abitable"
[+] Verified "usr/lib/bash/ln"
[+] Verified "usr/share/terminfo/E/Eterm-color"
[+] Verified "Applications/SubstituteSettings.app/_CodeSignature/CodeResources"
[+] Verified "usr/share/dpkg/architecture.mk"
[+] Verified "usr/lib/bash/loadables.h"
[+] Verified "usr/share/terminfo/a/ansi"
[+] Verified "usr/share/dpkg/buildflags.mk"
[+] Verified "usr/bin/tac"
[+] Verified "usr/share/terminfo/a/ansi+arrows"
[+] Verified "usr/share/dpkg/buildtools.mk"
[+] Verified "usr/share/terminfo/a/ansi+csr"
[+] Verified "usr/share/dpkg/cputable"
[+] Verified "usr/lib/bash/logname"
[+] Verified "usr/share/terminfo/a/ansi+cup"
[+] Verified "usr/share/dpkg/default.mk"
[+] Verified "usr/share/terminfo/a/ansi+enq"
[+] Verified "usr/bin/numfmt"
[+] Verified "usr/share/terminfo/a/ansi+erase"
[+] Verified "usr/share/terminfo/a/ansi+idc"
[+] Verified "usr/share/terminfo/a/ansi+idc1"
[+] Verified "usr/share/terminfo/a/ansi+idl"
[+] Verified "usr/share/terminfo/a/ansi+idl1"
[+] Verified "usr/share/terminfo/a/ansi+inittabs"
[+] Verified "usr/share/terminfo/a/ansi+local"
[+] Verified "usr/share/dpkg/macho.mgc"
[+] Verified "usr/lib/bash/mkdir"
[+] Verified "usr/share/terminfo/a/ansi+local1"
[+] Verified "usr/share/terminfo/a/ansi+pp"
[+] Verified "usr/share/terminfo/a/ansi+rca"
[+] Verified "usr/share/terminfo/a/ansi+rep"
[+] Verified "usr/share/terminfo/a/ansi+sgr"
[+] Verified "usr/share/dpkg/no-pie-compile.specs"
[+] Verified "usr/share/terminfo/a/ansi+sgrbold"
[+] Verified "usr/bin/wc"
[+] Verified "usr/share/terminfo/a/ansi+sgrdim"
[+] Verified "usr/share/terminfo/a/ansi+sgrso"
[+] Verified "usr/share/dpkg/no-pie-link.specs"
[+] Verified "usr/share/terminfo/a/ansi+sgrul"
[+] Verified "usr/share/terminfo/a/ansi+tabs"
[+] Verified "usr/share/terminfo/a/ansi-color-2-emx"
[+] Verified "usr/share/dpkg/ostable"
[+] Verified "usr/share/terminfo/a/ansi-color-3-emx"
[+] Verified "usr/share/dpkg/pie-compile.specs"
[+] Verified "usr/share/terminfo/a/ansi-emx"
[+] Verified "usr/share/dpkg/pie-link.specs"
[+] Verified "usr/bin/basenc"
[+] Verified "etc/rc.d/substitute-launcher"
[+] Verified "usr/share/terminfo/a/ansi-generic"
[+] Verified "usr/lib/bash/mypid"
[+] Verified "Library/PreferenceBundles/SubstitutePrefs.bundle/Icon.png"
```

```
[+] Verified "usr/share/terminfo/a/ansi-m"
[+] Verified "usr/share/dpkg/pkg-info.mk"
[+] Verified "Library/PreferenceBundles/SubstitutePrefs.bundle/Icon@2x.png"
[+] Verified "usr/share/terminfo/a/ansi-mini"
[+] Verified "Library/PreferenceBundles/SubstitutePrefs.bundle/Icon@3x.png"
[+] Verified "usr/bin/comm"
[+] Verified "usr/share/terminfo/a/ansi-mono"
[+] Verified "Library/PreferenceBundles/SubstitutePrefs.bundle/Info.plist"
[+] Verified "usr/lib/bash/pathchk"
[+] Verified "usr/share/terminfo/a/ansi-mr"
[+] Verified "usr/share/dpkg/tupletable"
[+] Verified "usr/share/terminfo/a/ansi-mtabs"
[+] Verified "usr/share/terminfo/a/ansi-nt"
[+] Verified "usr/bin/nproc"
[+] Verified "usr/share/terminfo/a/ansi.sys"
[+] Verified "usr/share/terminfo/a/ansi.sys-old"
[+] Verified "usr/share/terminfo/a/ansi.sysk"
[+] Verified "usr/share/dpkg/vendor.mk"
[+] Verified "usr/share/terminfo/a/apple-80"
[+] Verified "usr/share/terminfo/a/apple-ae"
[+] Verified "usr/share/polkit-1/actions/org.dpkg.pkexec.update-alternatives.policy"
[*] No errors in verifying checksums
[+] Verified "usr/share/terminfo/a/apple-soroc"
[+] Pkg "dpkg" verified.
[+] Verified "usr/share/terminfo/a/apple-uterm"
[+] Verified "usr/share/terminfo/a/apple-uterm-vb"
[+] Verified "usr/share/terminfo/a/apple-videx"
[+] Verified "usr/share/terminfo/a/apple-videx2"
[+] Verified "usr/share/terminfo/a/apple-videx3"
[+] Verified "usr/share/terminfo/a/apple-vm80"
[+] Verified "usr/bin/expr"
[+] Verified "usr/share/terminfo/c/cons25"
[+] Verified "usr/share/terminfo/c/cons25-debian"
[+] Verified "usr/share/terminfo/c/cons25-iso-m"
[+] Verified "usr/bin/stdbuf"
[+] Verified "usr/share/terminfo/c/cons25-iso8859"
[+] Verified "usr/share/terminfo/c/cons25-koi8-r"
[+] Verified "usr/lib/bash/print"
[+] Verified "usr/share/terminfo/c/cons25-koi8r-m"
[+] Verified "usr/share/terminfo/c/cons25-m"
[+] Verified "usr/share/terminfo/c/cygwin"
[+] Verified "usr/share/terminfo/d/dumb"
[+] Verified "usr/share/terminfo/d/dumb-emacs-ansi"
[+] Verified "usr/bin/cksum"
[+] Verified "usr/share/terminfo/e/eterm"
[+] Verified "usr/share/terminfo/e/eterm-color"
[+] Verified "usr/share/terminfo/g/gnome"
[+] Verified "usr/share/terminfo/g/gnome+pcfkeys"
[+] Verified "usr/share/terminfo/g/gnome-2007"
[+] Verified "usr/share/terminfo/g/gnome-2008"
[+] Verified "usr/share/terminfo/g/gnome-2012"
[+] Verified "usr/share/terminfo/g/gnome-256color"
[+] Verified "usr/share/terminfo/g/gnome-fc5"
[+] Verified "usr/share/terminfo/g/gnome-rh62"
[+] Verified "usr/share/terminfo/g/gnome-rh72"
[+] Verified "usr/share/terminfo/g/gnome-rh80"
```

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[+] Verified "usr/lib/bash/printenv"
[+] Verified "usr/share/terminfo/g/gnome-rh90"
[+] Verified "usr/share/terminfo/k/konsole"
[+] Verified "usr/lib/bash/push"
[+] Verified "usr/share/terminfo/k/konsole+pcfkeys"
[+] Verified "usr/share/terminfo/k/konsole-16color"
[+] Verified "usr/share/terminfo/k/konsole-256color"
[+] Verified "usr/share/terminfo/k/konsole-base"
[+] Verified "usr/share/terminfo/k/konsole-direct"
[+] Verified "usr/share/terminfo/k/konsole-linux"
[+] Verified "usr/share/terminfo/k/konsole-solaris"
[+] Verified "usr/bin/printf"
[+] Verified "usr/share/terminfo/k/konsole-vt100"
[+] Verified "usr/share/terminfo/k/konsole-vt420pc"
[+] Verified "usr/share/terminfo/k/konsole-xf3x"
[+] Verified "usr/share/terminfo/k/konsole-xf4x"
[+] Verified "usr/share/terminfo/l/linux"
[+] Verified "usr/share/terminfo/l/linux-16color"
[+] Verified "usr/share/terminfo/l/linux-basic"
[+] Verified "usr/share/terminfo/l/linux-c"
[+] Verified "usr/share/terminfo/l/linux-c-nc"
[+] Verified "usr/share/terminfo/l/linux-koi8"
[+] Verified "usr/share/terminfo/l/linux-koi8r"
[+] Verified "usr/share/terminfo/l/linux-lat"
[+] Verified "usr/share/terminfo/l/linux-m"
[+] Verified "usr/share/terminfo/l/linux-m1"
[+] Verified "usr/share/terminfo/l/linux-m1b"
[+] Verified "usr/share/terminfo/l/linux-m2"
[+] Verified "usr/share/terminfo/l/linux-nic"
[+] Verified "usr/share/terminfo/l/linux-vt"
[+] Verified "usr/share/terminfo/m/mach"
[+] Verified "usr/share/terminfo/m/mach-bold"
[+] Verified "usr/share/terminfo/m/mach-color"
[+] Verified "usr/share/terminfo/m/mach-gnu"
[+] Verified "usr/share/terminfo/m/mach-gnu-color"
[+] Verified "usr/share/terminfo/p/pcansi"
[+] Verified "usr/share/terminfo/p/pcansi-25"
[+] Verified "usr/share/terminfo/p/pcansi-25-m"
[+] Verified "usr/share/terminfo/p/pcansi-33"
[+] Verified "usr/share/terminfo/p/pcansi-33-m"
[+] Verified "usr/share/terminfo/p/pcansi-43"
[+] Verified "usr/share/terminfo/p/pcansi-43-m"
[+] Verified "usr/share/terminfo/p/pcansi-m"
[+] Verified "usr/lib/bash/realpath"
[+] Verified "usr/share/terminfo/p/pcansi-mono"
[+] Verified "usr/share/terminfo/p/putty"
[+] Verified "usr/share/terminfo/p/putty+fnkeys"
[+] Verified "usr/share/terminfo/p/putty+fnkeys+esc"
[+] Verified "usr/share/terminfo/p/putty+fnkeys+linux"
[+] Verified "usr/share/terminfo/p/putty+fnkeys+sco"
[+] Verified "usr/share/terminfo/p/putty+fnkeys+vt100"
[+] Verified "usr/bin/groups"
[+] Verified "usr/share/terminfo/p/putty+fnkeys+vt400"
[+] Verified "usr/share/terminfo/p/putty+fnkeys+xterm"
[+] Verified "usr/share/terminfo/p/putty-256color"
[+] Verified "usr/share/terminfo/p/putty-m1"
```

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[+] Verified "usr/share/terminfo/p/putty-m1b"
[+] Verified "usr/share/terminfo/p/putty-m2"
[+] Verified "usr/share/terminfo/p/putty-noapp"
[+] Verified "usr/share/terminfo/p/putty-sco"
[+] Verified "usr/share/terminfo/p/putty-vt100"
[+] Verified "usr/share/terminfo/r/rxvt"
[+] Verified "usr/lib/bash/rmdir"
[+] Verified "usr/share/terminfo/r/rxvt+pcfkeys"
[+] Verified "usr/share/terminfo/r/rxvt-16color"
[+] Verified "usr/share/terminfo/r/rxvt-256color"
[+] Verified "usr/share/terminfo/r/rxvt-88color"
[+] Verified "usr/share/terminfo/r/rxvt-basic"
[+] Verified "usr/share/terminfo/r/rxvt-color"
[+] Verified "usr/bin/chcon"
[+] Verified "usr/share/terminfo/r/rxvt-cygwin"
[+] Verified "usr/share/terminfo/r/rxvt-cygwin-native"
[+] Verified "usr/share/terminfo/r/rxvt-m"
[+] Verified "usr/share/terminfo/r/rxvt-unicode"
[+] Verified "usr/share/terminfo/r/rxvt-unicode-256color"
[+] Verified "usr/share/terminfo/r/rxvt-xpm"
[+] Verified "usr/bin/factor"
[+] Verified "usr/share/terminfo/s/screen"
[+] Verified "usr/share/terminfo/s/screen+fkeys"
[+] Verified "usr/share/terminfo/s/screen+italics"
[+] Verified "usr/share/terminfo/s/screen-16color"
[+] Verified "usr/share/terminfo/s/screen-16color-bce"
[+] Verified "usr/share/terminfo/s/screen-16color-bce-s"
[+] Verified "usr/share/terminfo/s/screen-16color-s"
[+] Verified "usr/share/terminfo/s/screen-256color"
[+] Verified "usr/share/terminfo/s/screen-256color-bce"
[+] Verified "usr/share/terminfo/s/screen-256color-bce-s"
[+] Verified "usr/share/terminfo/s/screen-256color-s"
[+] Verified "usr/share/terminfo/s/screen-bce"
[+] Verified "usr/share/terminfo/s/screen-bce.Eterm"
[+] Verified "usr/share/terminfo/s/screen-bce.gnome"
[+] Verified "usr/share/terminfo/s/screen-bce.konsole"
[+] Verified "usr/share/terminfo/s/screen-bce.linux"
[+] Verified "usr/share/terminfo/s/screen-bce.mrxvt"
[+] Verified "usr/share/terminfo/s/screen-bce.rxvt"
[+] Verified "usr/share/terminfo/s/screen-bce.xterm-new"
[+] Verified "usr/share/terminfo/s/screen-s"
[+] Verified "usr/share/terminfo/s/screen-w"
[+] Verified "usr/share/terminfo/s/screen.Eterm"
[+] Verified "usr/share/terminfo/s/screen.gnome"
[+] Verified "usr/share/terminfo/s/screen.konsole"
[+] Verified "usr/share/terminfo/s/screen.konsole-256color"
[+] Verified "usr/share/terminfo/s/screen.linux"
[+] Verified "usr/share/terminfo/s/screen.linux-m1"
[+] Verified "usr/share/terminfo/s/screen.linux-m1b"
[+] Verified "usr/share/terminfo/s/screen.linux-m2"
[+] Verified "usr/share/terminfo/s/screen.minitel1"
[+] Verified "usr/share/terminfo/s/screen.minitel1-nb"
[+] Verified "usr/lib/bash/seq"
[+] Verified "usr/share/terminfo/s/screen.minitel12-80"
[+] Verified "usr/share/terminfo/s/screen.minitel1b"
[+] Verified "usr/share/terminfo/s/screen.minitel1b-80"
```

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[+] Verified "usr/share/terminfo/s/screen.minitel1b-nb"
[+] Verified "usr/share/terminfo/s/screen.minitel2-80"
[+] Verified "usr/share/terminfo/s/screen.mlterm"
[+] Verified "usr/share/terminfo/s/screen.mlterm-256color"
[+] Verified "usr/share/terminfo/s/screen.mrxvt"
[+] Verified "usr/share/terminfo/s/screen.putty"
[+] Verified "usr/bin/tail"
[+] Verified "usr/share/terminfo/s/screen.putty-256color"
[+] Verified "usr/share/terminfo/s/screen.putty-m1"
[+] Verified "usr/share/terminfo/s/screen.putty-m1b"
[+] Verified "usr/lib/bash/setpgid"
[+] Verified "usr/share/terminfo/s/screen.putty-m2"
[+] Verified "usr/share/terminfo/s/screen.rxvt"
[+] Verified "usr/share/terminfo/s/screen.teraterm"
[+] Verified "usr/share/terminfo/s/screen.vte"
[+] Verified "usr/share/terminfo/s/screen.vte-256color"
[+] Verified "usr/bin/env"
[+] Verified "usr/share/terminfo/s/screen.xterm-256color"
[+] Verified "usr/share/terminfo/s/screen.xterm-new"
[+] Verified "usr/share/terminfo/s/screen.xterm-r6"
[+] Verified "usr/share/terminfo/s/screen.xterm-xfree86"
[+] Verified "usr/share/terminfo/s/sun"
[+] Verified "usr/share/terminfo/s/sun+sl"
[+] Verified "usr/share/terminfo/s/sun-1"
[+] Verified "usr/bin/pr"
[+] Verified "usr/share/terminfo/s/sun-12"
[+] Verified "usr/lib/bash/sleep"
[+] Verified "usr/bin/head"
[+] Verified "usr/lib/bash/strftime"
[+] Verified "usr/lib/bash/sync"
[+] Verified "usr/bin/uniq"
[+] Verified "usr/lib/bash/tee"
[+] Verified "usr/share/terminfo/s/sun-17"
[+] Verified "usr/lib/bash/truefalse"
[+] Verified "usr/bin/stat"
[+] Verified "usr/share/terminfo/s/sun-24"
[+] Verified "usr/lib/bash/tty"
[+] Verified "usr/bin/link"
[+] Verified "usr/lib/bash/uname"
[+] Verified "usr/share/terminfo/s/sun-34"
[+] Verified "usr/bin/sum"
[+] Verified "usr/lib/bash/unlink"
[+] Verified "Library/PreferenceBundles/SubstitutePrefs.bundle/SubstitutePrefs"
[+] Verified "usr/share/terminfo/s/sun-48"
[+] Verified "Library/PreferenceLoader/Preferences/SubstituteSettings.plist"
[+] Verified "usr/lib/bash/whoami"
[+] Verified "usr/bin/tsort"
[+] Verified "usr/share/terminfo/s/sun-c"
[+] Verified "usr/lib/pkgconfig/bash.pc"
[*] No errors in verifying checksums
[+] Pkg "bash" verified.
[+] Verified "usr/share/terminfo/s/sun-cgsix"
[+] Verified "usr/bin/users"
[+] Verified "usr/share/terminfo/s/sun-cmd"
[+] Verified "usr/share/terminfo/s/sun-color"
[+] Verified "usr/bin/who"
```

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[+] Verified "usr/share/terminfo/s/sun-e"
[+] Verified "usr/bin/sha1sum"
[+] Verified "usr/bin/cut"
[+] Verified "usr/share/terminfo/s/sun-e-s"
[+] Verified "usr/bin/sha256sum"
[+] Verified "usr/bin/nl"
[+] Verified "usr/share/terminfo/s/sun-il"
[+] Verified "usr/share/terminfo/s/sun-nic"
[+] Verified "usr/bin/shred"
[+] Verified "usr/share/terminfo/s/sun-s"
[+] Verified "usr/bin/fold"
[+] Verified "usr/share/terminfo/s/sun-s-e"
[+] Verified "usr/share/terminfo/s/sun-ss5"
[+] Verified "usr/bin/sha384sum"
[+] Verified "usr/share/terminfo/s/sun-type4"
[+] Verified "usr/share/terminfo/t/tmux"
[+] Verified "usr/share/terminfo/t/tmux-256color"
[+] Verified "usr/bin/id"
[+] Verified "usr/bin/base32"
[+] Verified "usr/share/terminfo/u/unknown"
[+] Verified "usr/bin/pinky"
[+] Verified "usr/share/terminfo/v/vt100"
[+] Verified "usr/bin/hostid"
[+] Verified "usr/share/terminfo/v/vt100+"
[+] Verified "usr/bin/yes"
[+] Verified "usr/share/terminfo/v/vt100+4bsd"
[+] Verified "usr/share/terminfo/v/vt100+enq"
[+] Verified "usr/share/terminfo/v/vt100+fnkeys"
[+] Verified "usr/bin/unexpand"
[+] Verified "usr/share/terminfo/v/vt100+keypad"
[+] Verified "usr/share/terminfo/v/vt100+pfkeys"
[+] Verified "usr/bin/uptime"
[+] Verified "usr/bin/sha512sum"
[+] Verified "usr/share/terminfo/v/vt100-am"
[+] Verified "usr/share/terminfo/v/vt100-bm"
[+] Verified "usr/bin/["
[+] Verified "usr/bin/tr"
[+] Verified "usr/bin/paste"
[+] Verified "usr/bin/sinject"
[+] Verified "usr/bin/nohup"
[+] Verified "usr/share/terminfo/v/vt100-bm-o"
[+] Verified "usr/libexec/coreutils/libstdbuf.so"
[+] Verified "usr/share/terminfo/v/vt100-bot-s"
[+] Verified "usr/sbin/chroot"
[+] Verified "etc/profile.d/coreutils.sh"
[*] No errors in verifying checksums
[+] Pkg "coreutils" verified.
[+] Verified "usr/share/terminfo/v/vt100-nam"
[+] Verified "usr/lib/libsubstitute.dylib"
[+] Verified "usr/share/terminfo/v/vt100-nam-w"
[+] Verified "usr/share/terminfo/v/vt100-nav"
[+] Verified "usr/lib/libsubstrate.dylib"
[+] Verified "usr/share/terminfo/v/vt100-nav-w"
[+] Verified "usr/share/terminfo/v/vt100-putty"
[+] Verified "usr/share/terminfo/v/vt100-s"
[+] Verified "usr/share/terminfo/v/vt100-s-bot"
```

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[+] Verified "usr/share/terminfo/v/vt100-s-top"
[+] Verified "usr/share/terminfo/v/vt100-top-s"
[+] Verified "usr/share/terminfo/v/vt100-vb"
[+] Verified "usr/share/terminfo/v/vt100-w"
[+] Verified "usr/share/terminfo/v/vt100-w-am"
[+] Verified "usr/share/terminfo/v/vt100-w-nam"
[+] Verified "usr/share/terminfo/v/vt100-w-nav"
[+] Verified "usr/share/terminfo/v/vt102"
[+] Verified "usr/share/terminfo/v/vt102+enq"
[+] Verified "usr/share/terminfo/v/vt102-nsgr"
[+] Verified "usr/share/terminfo/v/vt102-w"
[+] Verified "usr/share/terminfo/v/vt220"
[+] Verified "usr/share/terminfo/v/vt220+keypad"
[+] Verified "usr/share/terminfo/v/vt220-8"
[+] Verified "usr/share/terminfo/v/vt220-8bit"
[+] Verified "usr/share/terminfo/v/vt220-js"
[+] Verified "usr/share/terminfo/v/vt220-nam"
[+] Verified "usr/share/terminfo/v/vt220-old"
[+] Verified "usr/lib/substitute-loader.dylib"
[+] Verified "usr/share/terminfo/v/vt220-w"
[+] Verified "usr/share/terminfo/v/vt52"
[+] Verified "usr/share/terminfo/x/xterm"
[+] Verified "usr/share/terminfo/x/xterm+256color"
[+] Verified "usr/share/terminfo/x/xterm+256setaf"
[+] Verified "usr/share/terminfo/x/xterm+88color"
[+] Verified "usr/share/terminfo/x/xterm+alt+title"
[+] Verified "usr/share/terminfo/x/xterm+alt1049"
[+] Verified "usr/share/terminfo/x/xterm+app"
[+] Verified "usr/share/terminfo/x/xterm+app+pc"
[+] Verified "usr/share/terminfo/x/xterm+decedit"
[+] Verified "usr/share/terminfo/x/xterm+direct"
[+] Verified "usr/share/terminfo/x/xterm+direct2"
[+] Verified "usr/share/terminfo/x/xterm+edit"
[+] Verified "usr/share/terminfo/x/xterm+indirect"
[+] Verified "usr/libexec/sinject-vpa"
[*] No errors in verifying checksums
[+] Pkg "com.ex.substitute" verified.
[+] Verified "usr/share/terminfo/x/xterm+kbs"
[+] Verified "usr/share/terminfo/x/xterm+noalt"
[+] Verified "usr/share/terminfo/x/xterm+noapp"
[+] Verified "usr/share/terminfo/x/xterm+noapp+pc"
[+] Verified "usr/share/terminfo/x/xterm+pc+edit"
[+] Verified "usr/share/terminfo/x/xterm+pcc0"
[+] Verified "usr/share/terminfo/x/xterm+pcc1"
[+] Verified "usr/share/terminfo/x/xterm+pcc2"
[+] Verified "usr/share/terminfo/x/xterm+pcc3"
[+] Verified "usr/share/terminfo/x/xterm+pce0"
[+] Verified "usr/share/terminfo/x/xterm+pce1"
[+] Verified "usr/share/terminfo/x/xterm+pce2"
[+] Verified "usr/share/terminfo/x/xterm+pce3"
[+] Verified "usr/share/terminfo/x/xterm+pcf0"
[+] Verified "usr/share/terminfo/x/xterm+pcf1"
[+] Verified "usr/share/terminfo/x/xterm+pcf2"
[+] Verified "usr/share/terminfo/x/xterm+pcf3"
[+] Verified "usr/share/terminfo/x/xterm+pcfN"
[+] Verified "usr/share/terminfo/x/xterm+pcfkeys"
```

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[+] Verified "usr/share/terminfo/x/xterm+pcfn"
[+] Verified "usr/share/terminfo/x/xterm+r6f2"
[+] Verified "usr/share/terminfo/x/xterm+sl"
[+] Verified "usr/share/terminfo/x/xterm+sl-twm"
[+] Verified "usr/share/terminfo/x/xterm+sm+1002"
[+] Verified "usr/share/terminfo/x/xterm+sm+1003"
[+] Verified "usr/share/terminfo/x/xterm+sm+1005"
[+] Verified "usr/share/terminfo/x/xterm+sm+1006"
[+] Verified "usr/share/terminfo/x/xterm+titlestack"
[+] Verified "usr/share/terminfo/x/xterm+tmux"
[+] Verified "usr/share/terminfo/x/xterm+vt+edit"
[+] Verified "usr/share/terminfo/x/xterm+x10mouse"
[+] Verified "usr/share/terminfo/x/xterm+x11hilite"
[+] Verified "usr/share/terminfo/x/xterm+x11mouse"
[+] Verified "usr/share/terminfo/x/xterm-1002"
[+] Verified "usr/share/terminfo/x/xterm-1003"
[+] Verified "usr/share/terminfo/x/xterm-1005"
[+] Verified "usr/share/terminfo/x/xterm-1006"
[+] Verified "usr/share/terminfo/x/xterm-16color"
[+] Verified "usr/share/terminfo/x/xterm-24"
[+] Verified "usr/share/terminfo/x/xterm-256color"
[+] Verified "usr/share/terminfo/x/xterm-65"
[+] Verified "usr/share/terminfo/x/xterm-88color"
[+] Verified "usr/share/terminfo/x/xterm-8bit"
[+] Verified "usr/share/terminfo/x/xterm-basic"
[+] Verified "usr/share/terminfo/x/xterm-bold"
[+] Verified "usr/share/terminfo/x/xterm-boldso"
[+] Verified "usr/share/terminfo/x/xterm-color"
[+] Verified "usr/share/terminfo/x/xterm-debian"
[+] Verified "usr/share/terminfo/x/xterm-direct"
[+] Verified "usr/share/terminfo/x/xterm-direct2"
[+] Verified "usr/share/terminfo/x/xterm-hp"
[+] Verified "usr/share/terminfo/x/xterm-ic"
[+] Verified "usr/share/terminfo/x/xterm-mono"
[+] Verified "usr/share/terminfo/x/xterm-new"
[+] Verified "usr/share/terminfo/x/xterm-nic"
[+] Verified "usr/share/terminfo/x/xterm-noapp"
[+] Verified "usr/share/terminfo/x/xterm-nrc"
[+] Verified "usr/share/terminfo/x/xterm-old"
[+] Verified "usr/share/terminfo/x/xterm-pcolor"
[+] Verified "usr/share/terminfo/x/xterm-r5"
[+] Verified "usr/share/terminfo/x/xterm-r6"
[+] Verified "usr/share/terminfo/x/xterm-rep"
[+] Verified "usr/share/terminfo/x/xterm-sco"
[+] Verified "usr/share/terminfo/x/xterm-sun"
[+] Verified "usr/share/terminfo/x/xterm-utf8"
[+] Verified "usr/share/terminfo/x/xterm-vi"
[+] Verified "usr/share/terminfo/x/xterm-vt220"
[+] Verified "usr/share/terminfo/x/xterm-vt52"
[+] Verified "usr/share/terminfo/x/xterm-x10mouse"
[+] Verified "usr/share/terminfo/x/xterm-x11hilite"
[+] Verified "usr/share/terminfo/x/xterm-x11mouse"
[+] Verified "usr/share/terminfo/x/xterm-xf86-v32"
[+] Verified "usr/share/terminfo/x/xterm-xf86-v33"
[+] Verified "usr/share/terminfo/x/xterm-xf86-v333"
[+] Verified "usr/share/terminfo/x/xterm-xf86-v40"
```

```
[+] Verified "usr/share/terminfo/x/xterm-xf86-v43"
[+] Verified "usr/share/terminfo/x/xterm-xf86-v44"
[+] Verified "usr/share/terminfo/x/xterm-xfree86"
[+] Verified "usr/share/terminfo/x/xterm-xi"
[+] Verified "usr/share/terminfo/x/xterm-xmc"
[*] No errors in verifying checksums
[+] Pkg "ncurses" verified.
[+] Verified resources
[*] Stage (26): Preparing resources
[+] Prepared resources
[*] Stage (28): Bootstrapping resources
runCommandv(501) command:  "sh" "-c" "/usr/bin/dpkg -s "xz" 2>/dev/null | grep -i ^Stat
us: | grep -q "install ok installed""
runCommandv(501) completed with exit status 0
[*] Deb: "xz" is installed
runCommandv(505) command:  "sh" "-c" "/usr/bin/dpkg -s "openssl" 2>/dev/null | grep -i
^Status: | grep -q "install ok""
runCommandv(505) completed with exit status 1
[*] Deb: "openssl" is not installed
runCommandv(509) command:  "sh" "-c" "/usr/bin/dpkg -s "dpkg" 2>/dev/null | grep -i ^St
atus: | grep -q "install ok installed""
runCommandv(509) completed with exit status 0
[*] Deb: "dpkg" is installed
runCommandv(513) command:  "sh" "-c" "/usr/bin/dpkg -s "firmware" 2>/dev/null | grep -i
 ^Status: | grep -q "install ok installed""
runCommandv(513) completed with exit status 0
[*] Deb: "firmware" is installed
[*] Validated stock firmware diversions
runCommandv(518) command:  "sh" "-c" "/usr/bin/dpkg -s "science.xnu.undecimus.resources
" 2>/dev/null | grep -i ^Status: | grep -q "install ok""
runCommandv(518) completed with exit status 1
[*] Deb: "science.xnu.undecimus.resources" is not installed
runCommandv(522) command:  "sh" "-c" "/usr/bin/dpkg -s "science.xnu.substituted" 2>/dev
/null | grep -i ^Status: | grep -q "install ok""
runCommandv(522) completed with exit status 1
[*] Deb: "science.xnu.substituted" is not installed
runCommandv(526) command:  "sh" "-c" "/usr/bin/dpkg -s "apt7" 2>/dev/null | grep -i ^St
atus: | grep -q "install ok""
runCommandv(526) completed with exit status 1
[*] Deb: "apt7" is not installed
runCommandv(530) command:  "sh" "-c" "/usr/bin/dpkg -s "apt7-lib" 2>/dev/null | grep -i
 ^Status: | grep -q "install ok""
runCommandv(530) completed with exit status 1
[*] Deb: "apt7-lib" is not installed
runCommandv(534) command:  "sh" "-c" "/usr/bin/dpkg -s "apt7-key" 2>/dev/null | grep -i
 ^Status: | grep -q "install ok""
runCommandv(534) completed with exit status 1
[*] Deb: "apt7-key" is not installed
runCommandv(538) command:  "sh" "-c" "/usr/bin/dpkg -s "apt" 2>/dev/null | grep -i ^Sta
tus: | grep -q "install ok installed""
runCommandv(538) completed with exit status 0
[*] Deb: "apt" is installed
runCommandv(542) command:  "/usr/bin/apt-get" "-o" "Dir::Etc::sourcelist=undecimus/unde
cimus.list" "-o" "Dir::Etc::sourceparts=-" "-o" "APT::Get::List-Cleanup=0" "update"
runCommandv(542): Get:1 file:/var/lib/undecimus/apt ./ InRelease
runCommandv(542): Ign:1 file:/var/lib/undecimus/apt ./ InRelease
```

```
runCommandv(542): Get:2 file:/var/lib/undecimus/apt ./ Release [156 B]
runCommandv(542): Get:2 file:/var/lib/undecimus/apt ./ Release [156 B]
runCommandv(542): Get:3 file:/var/lib/undecimus/apt ./ Release.gpg
runCommandv(542): Ign:3 file:/var/lib/undecimus/apt ./ Release.gpg
runCommandv(542): Get:4 file:/var/lib/undecimus/apt ./ Packages
runCommandv(542): Ign:4 file:/var/lib/undecimus/apt ./ Packages
runCommandv(542): Get:4 file:/var/lib/undecimus/apt ./ Packages
runCommandv(542): Ign:4 file:/var/lib/undecimus/apt ./ Packages
runCommandv(542): Get:4 file:/var/lib/undecimus/apt ./ Packages
runCommandv(542): Ign:4 file:/var/lib/undecimus/apt ./ Packages
runCommandv(542): Get:4 file:/var/lib/undecimus/apt ./ Packages
runCommandv(542): Ign:4 file:/var/lib/undecimus/apt ./ Packages
runCommandv(542): Get:4 file:/var/lib/undecimus/apt ./ Packages
runCommandv(542): Ign:4 file:/var/lib/undecimus/apt ./ Packages
runCommandv(542): Get:4 file:/var/lib/undecimus/apt ./ Packages [37.6 kB]
runCommandv(542): Reading package lists...
runCommandv(542) completed with exit status 0
runCommandv(550) command:  "/usr/bin/apt-get" "-o" "Dir::Etc::sourcelist=undecimus/unde
cimus.list" "-o" "Dir::Etc::sourceparts=-" "-o" "APT::Get::List-Cleanup=0" "-y" "--allo
w-unauthenticated" "--allow-downgrades" "install" "-f"
runCommandv(550): Reading package lists...
runCommandv(550): Building dependency tree...
runCommandv(550): Reading state information...
runCommandv(550): 0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
runCommandv(550) completed with exit status 0
runCommandv(553) command:  "sh" "-c" "/usr/bin/dpkg -s "mobilesubstrate" 2>/dev/null |
grep -i ^Status: | grep -q "install ok""
runCommandv(553) completed with exit status 1
[*] Deb: "mobilesubstrate" is not installed
runCommandv(557) command:  "sh" "-c" "dpkg --configure -a"
runCommandv(557) completed with exit status 0
runCommandv(558) command:  "/usr/bin/apt-get" "-o" "Dir::Etc::sourcelist=undecimus/unde
cimus.list" "-o" "Dir::Etc::sourceparts=-" "-o" "APT::Get::List-Cleanup=0" "-y" "--allo
w-unauthenticated" "--allow-downgrades" "-f" "dist-upgrade"
runCommandv(558): Reading package lists...
runCommandv(558): Building dependency tree...
runCommandv(558): Reading state information...
runCommandv(558): Calculating upgrade...
runCommandv(558): 0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
runCommandv(558) completed with exit status 0
runCommandv(564) command:  "sh" "-c" "/usr/bin/dpkg -s "cydia-gui" 2>/dev/null | grep -
i ^Status: | grep -q "install ok""
runCommandv(564) completed with exit status 1
[*] Deb: "cydia-gui" is not installed
runCommandv(568) command:  "sh" "-c" "/usr/bin/dpkg -s "cydia-upgrade-helper" 2>/dev/nu
ll | grep -i ^Status: | grep -q "install ok""
runCommandv(568) completed with exit status 1
[*] Deb: "cydia-upgrade-helper" is not installed
[*] Registering Cydia to application cache...
runCommandv(572) command:  "/usr/bin/uicache" "-p" "/Applications/Cydia.app"
runCommandv(572) completed with exit status 0
[*] Registering SubstituteSettings to application cache...
runCommandv(574) command:  "/usr/bin/uicache" "-p" "/Applications/SubstituteSettings.ap
p"
runCommandv(574) completed with exit status 0
[*] Stage (29): Creating reload job
```
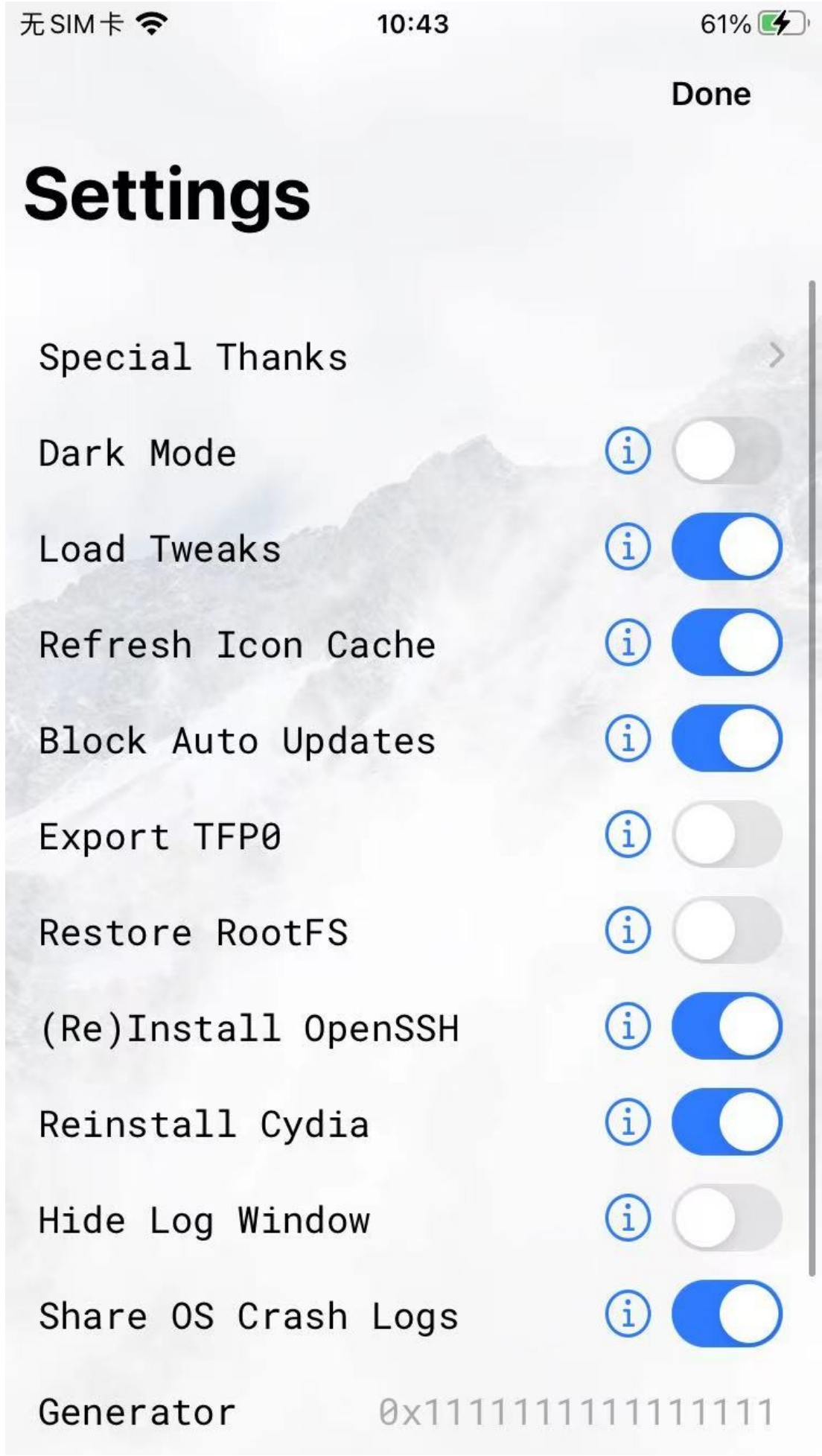
```
[*] Created reload job
[*] Jailbroke in 4133.780 ms
[*] Stage (30): Cleaning up
```

crifan.org，使用署名4.0国际(CC BY 4.0)协议发布 all right reserved，powered by Gitbook最后更新：
2024-12-24 10:26:36

```
[*] Created reload job
[*] Jailbroke in 4133.780 ms
[*] Stage (30): Cleaning up
```

unc0ver设置选项

此处贴出另外一次，iOS14.3的iPhone8中用unc0ver去越狱的时候，点击unc0ver左上角的设置图标，进入的设置界面：

无SIM卡 📶   10:43   61% 🔋⚡

Done

Settings

Special Thanks   ›

Dark Mode   ⓘ ⚪──

Load Tweaks   ⓘ ──🔵

Refresh Icon Cache   ⓘ ──🔵

Block Auto Updates   ⓘ ──🔵

Export TFP0   ⓘ ⚪──

Restore RootFS   ⓘ ⚪──

(Re)Install OpenSSH   ⓘ ──🔵

Reinstall Cydia   ⓘ ──🔵

Hide Log Window   ⓘ ⚪──

Share OS Crash Logs   ⓘ ──🔵

Generator   0x1111111111111111

- `unc0ver` 参数详解
  - Dark Mode
  - `Load Tweaks` =加载插件
    - 越狱后，自动加载插件？
  - `Refresh Icon Cache` =刷新图标缓存
    - 防止桌面图标出现异常情况
      - 部分app已卸载 -》却还残留图标
      - 部分app已安装 -》 但是桌面上却没出现图标
    - -》刷新图标缓存后，就可以避免上述异常情况了
  - `Block Auto Updates` =禁止自动升级
    - iOS系统版本如果自动升级，往往会导致越狱丢失
      - 所以一般iOS越狱后，都希望是：禁用iOS系统自动升级（到更新版本的iOS）
  - `Export TFP0`
  - `Restore RootFS` =恢复根文件系统
    - 指的是，重新卸载掉unc0ver，恢复之前没越狱的时候的文件系统 == 卸载越狱 = 还原系统
    - 说明：
      - 正常用unc0ver去越狱时，肯定不要选择这个选项
      - 当你想要卸载越狱还原系统时，才勾选这个选项
        - 详见
          - unc0ver卸载还原越狱
  - `(Re)Install OpenSSH` =（重新）安装OpenSSH
    - `OpenSSH` 是ssh的插件，最常用的基础插件之一
      - 安装后，后续可以用ssh去操作和访问iPhone
    - 一般建议勾选上
  - `Reinstall Cydia` =重新安装Cydia
    - 如果Cydia有问题，可以顺带去重新安装
    - 如果本身没安装Cydia，则可以用unc0ver越狱后，同时安装上Cydia
      - 注：Cydia是早期最常用的包管理器之一，可以用来安装和管理各种越狱插件
  - Hide Log Window=隐藏日志窗口
  - Share OS Crach Logs=共享操作系统崩溃日志
    - 万一用unc0ver越狱失败或出现其他系统崩溃等问题，可以方便去查看相关日志，找到原因
  - Generator: `0x1111111111111111`

unc0ver越狱常见问题

unc0ver越狱期间卡死在某个界面

现象

用unc0ver给iPhone越狱期间，在某个步骤：

比如：

- `2/32`

    。

无SIM卡 🛜   10:44   62% 🔋

⚙️   **Secure iOS**

u0

unc0ver jailbreak
for iOS 11.0 - 14.8
by @pwn20wnd & @sbingner
UI by @iOS_App_Dev & @HiMyNameIsUbik

2/32

Exploiting kernel

[*] Configured to share anonymous OS crash logs
[*] Machine Name: iPhone10,1
[*] Model Name: D20AP
[*] Kernel Version: Darwin Kernel Version 20.2.0: Fri Nov 13 01:00:15 PST 2020; root:xnu-7195.62.1~4/RELEASE_ARM64_T8015
[*] Processor Version: A11
[*] Kernel Page Size: 0x4000
[*] System Version: iOS 14.3 (Stable) (Build: 18C66)
[*] Stage (1): Ensuring resources
[+] Ensured resources
[*] Stage (2): Exploiting kernel

Jailbreaking

Version: 8.0.2

- `19/32`
  -

无服务 🛜   下午2:46   12% 🔋

⚙️   **Secure iOS**

u0

unc0ver jailbreak
for iOS 11.0 - 14.8
by @pwn20wnd & @sbingner
UI by @iOS_App_Dev & @HiMyNameIsUbik

19/32
Obtaining entitlements

```
[+] Obtained root privileges
[*] Stage (9): Disabling sandbox
[+] Disabled sandbox
[*] Stage (10): Updating host port
[+] Updated host port
[*] Stage (11): Finding kernel offsets
[+] Found kernel offsets
[*] Stage (12): Enabling dynamic codesign
[+] Enabled dynamic codesigning
[*] Stage (16): Saving kernel primitives
[+] Saved kernel primitives
[*] Stage (18): Disabling codesigning
[+] Disabled codesigning
[*] Stage (19): Obtaining entitlements
```

Jailbreaking

Version: 8.0.2

- 22/32
  -

无SIM卡 🛜 10:44 63% 🔋

⚙️ **Secure iOS**

uo

unc0ver jailbreak
for iOS 11.0 - 14.8
by @pwn20wnd & @sbingner
UI by @iOS_App_Dev & @HiMyNameIsUbik

22/32

Remou~~nting~~ ~~root filesystem~~

[*] S
[+] E
[*] S
[+] S
[*] S
[+] D
[*] S
[+] C

Jailbreak Completed
The system needs to reboot to finish
the jailbreak process. When your
device reboots, re-run the jailbreak to
complete the process.

View Log | **OK**

[*] Stage (20): Purging software updates
[+] Purged software updates
[*] Stage (21): Setting boot-nonce generator
[+] Set boot-nonce generator
[*] Stage (22): Remounting root filesystem
[+] Disabled boot snapshot

Jailbreaking

Version: 8.0.2

```
Jailbreak Completed
The system needs to reboot to finishthe jailbreak process.When yourdevice reboo
ts re-run the jailbreak to complete the process.
```

会一些出现问题：

- 卡死 = 始终没有进度 = 无法继续
- iPhone手机重启 = 无法正常越狱
- 需要重启

原因

未知

解决办法

- 先：多试几次
- 不行再：**重启iPhone**后，多试几次
- 实在不行再：**重新安装unc0ver**，再多试几次
    - 安装方式：用Sideloadly! 或 爱思助手
        - 详见：安装unc0ver到iPhone

爱思助手的一键越狱用unc0ver给iOS 12.5.7的iPhone6越狱的期间弹框会闪退

现象

之前Mac中用：

- `爱思助手` 的 `一键越狱`
    - 选用
        - `unc0ver` `v8.0.2`

去给 `iPhone6` 去越狱：

- `iOS 12.5.6`
    ○

或

- `iOS 12.5.7`

。

继续越狱的期间，在步骤：

- 当前状态：正在执行任务1

。

或：

- 当前状态：正在执行任务2

◦

遇到问题：

当前越狱界面=弹框，会闪退

->无法继续正常越狱

尝试解决过程

尝试各种办法：

- 多试几次
- 换其他版本爱思助手
  - 20241102 v3.11、v3.12等最新版
  - 或更早期的各种版本
- 重新拔插USB数据线
- 换了另外一个手机：iOS 12.5.7的iPhone6
- 换了别的Mac电脑：
  - 不论是（USB Type-C接口的）新Mac：Mac M2 Max
  - 还是（USB Type-A接口的）旧Mac：Mac 2015

但都是：问题依旧。

原因

- 之前怀疑是

- 最新版爱思助手的一键越狱本身有bug，导致无法（正常用unc0ver去）越狱?
  - 毕竟早期，也遇到过，当时爱思助手版本升级后，内置的一键越狱的app的版本也升级了，当时导致越狱异常，当时是：换了旧版本的爱思助手，而解决了问题
- 更可能的原因
  - `unc0ver` （即使是最新版8.0.2，也）**不支持** `iOS 12.5.6` 和 `iOS 12.5.7`
    - 所以导致：爱思助手，无法正常安装unc0ver到iPhone中?
    - 细节：
      - unc0ver v8.0.2中，虽然写着支持iOS的版本是： `11~14.8`
      - 但是，对于，相对特殊的 `iOS 12.5.6` 和 `12.5.7` 来说，就是无法支持
        - 注：对应的，iOS `12.5.6` 和 `12.5.7` 这2个版本本身有点特殊，一个另外相关现象是：
          - Xcode开发iOS的插件时，选择Deployment版本时，也没有iOS 12.5（12.5.6或12.5.7）的支持
            - 但是：向上有 `iOS 13.0` ，向下有 `iOS 12.4` 的
    - 如何发现这个原因的?
      - 之前用Sideloadly安装unc0ver到iOS12.5.7的iPhone6后，发现是：
        - Unsupported

无 SIM 卡 下午10:07

⚙

Secure iOS

unc0ver jailbreak
for iOS 11.0 - 14.8
by @pwn20wnd & @sbingner
UI by @iOS_App_Dev & @HiMyNameIsUbik

0/32
Unsupported

the seller
[*] Get unc0ver for free at https://unc0ver.dev
[*] Configured to share anonymous OS crash logs
[*] Machine Name: iPhone7,2
[*] Model Name: N61AP
[*] Kernel Version: Darwin Kernel Version 18.7.0: Fri Aug 19 23:28:26 PDT 2022; root:xnu-4903.272.5~1/RELEASE_ARM64_T7000
[*] Processor Version: A8
[*] Kernel Page Size: 0x1000
[*] System Version: iOS 12.5.7 (Stable) (Build: 16H81)

Unsupported

Version: 8.0.2

- 才明白是，本身unc0ver，就不支持iOS 12.5.7
  - 所以，才会想到：估计爱思助手无法安装unc0ver到iPhone中，或许是这个原因

checkra1n

- 概述
  - 打开（Mac端的）checkra1n的app
    - checkra1n的来源（选择任一均可）
      - [官网](#)独立下载的 `checkra1n` 的app
      - `爱思助手` 的 `一键越狱` 中自带集成的 `checkra1n` 的app
  - `checkra1n` 中，按照提示去操作，即可越狱

打开checkra1n的app

- 概述
  - 打开（Mac端的）checkra1n的app
    - checkra1n的来源（选择任一均可）
      - 方式1：官网独立下载的 `checkra1n` 的app
      - 方式2： `爱思助手` 的 `一键越狱` 中自带集成的 `checkra1n` 的app

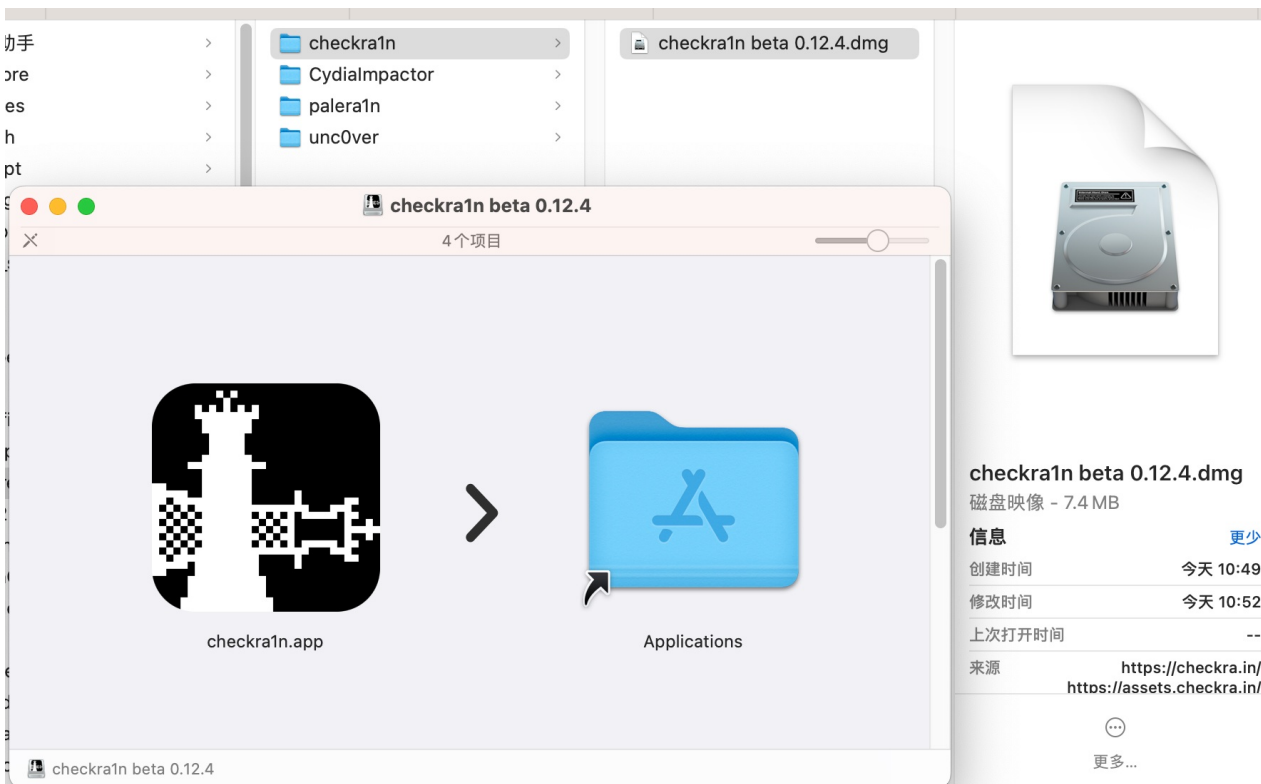获取和打开checkra1n的app 详解：

方式1：官网下载独立的checkra1n的app

去checkra1n官网：

https://checkra.in/

下载最新版：

https://checkra.in/releases/0.12.4-beta

->

https://assets.checkra.in/downloads/macos/754bb6ec4747b2e700f01307315da8c9c32c8b5816d0fe1e91
d1bdfc298fe07b/checkra1n%20beta%200.12.4.dmg

得到

```
checkra1n beta 0.12.4.dmg
```

双击打开：

拖动安装 `checkra1n.app` 到Mac中的应用程序

然后双击即可打开：

- 此处是最新版： `v0.12.4` 版本的 `checkra1n`

。

方式2：爱思助手中一键越狱中启动checkra1n的app

也可以从 `爱思助手` 的 `一键越狱` ：

我的设备	应用游戏	铃声壁纸	智能刷机	工具箱	爱思商城

iPhone

安装移动端	备份/恢复数据	虚拟U盘	下载固件		
制作铃声	转换音频	修改音频	转换视频	压缩照片	转换HEIC图片
实时屏幕	实时日志	进入恢复模式	打开SSH通道	重启设备	关闭设备
屏蔽iOS更新	整理设备桌面	设备功能开关	删除顽固图标	抹除所有数据	设备瘦身	反激活设备	安装IPCC
破解时间限额	批量激活	虚拟定位	一键越狱	IPA签名	管理描述文件	面容ID检测

教程中心   公测版: 3.11   客服   微信公众号   检查更新

启动 一键越狱 后，选择：`checkra1n`

即可启动 `checkra1n` 的app：

当前设备：iPhone ▾   iOS 12.5.7 iPhone 6 iPhone7,2 A8 64位   安装AppSync 安装AFC2

爱思即手 · 一键越狱

一键越狱
越狱插件

CheckRa1n越狱支持以下设备：

iPhone5s ~ iPhoneX 之间发行的设备,部分设备需要多重试几次操作

设备需要切换至DFU模式，参考教程： http://url.i4.cn/qQ32muaa

◎ 正在下载配置文件...........

◎ 正在下载越狱工具...........

◎ 正在解压工具.....................

◎ 正在检查工具.....................

◎ 正在运行工具.....................

\#

\# Checkra1n beta 0.12.3

\#

\# Proudly written in nano

\# (c) 2019-2021 Kim Jong (

\#

\#======== Made by ====

\# argp,axi0mx,danyl931,jay

\# never _released,nullpixel,pimskeks,qwertyoruiop,sbingner,siguza

\#======== Thanks to =======

\# haifisch,jndok,jonseals,xerub,lilstevie,psychotea,sferrini

\# Cellebrite (ih8sn0w,cjori,ronyrus et al.)

\#============================

checkra1n - Version beta 0.12.3

Welcome to checkra1n!

iPhone 6 (iOS 12.5.7) connected in Normal mode.
ECID: 0x1e49ac2080ceba

Made by: argp, axi0mx, danyl931, jaywalker, kirb, littlelailo, nitoTV,
never_released, nullpixel, pimskeks, qwertyoruiop, sbingner, siguza

Thanks to: haifisch, ihackbanme, jndok, jonseals, xerub, lilstevie, psychotea,
sferrini, Cellebrite (ih8sn0w, cjori, ronyrus et al.)

With 💖 from Kim Jong Cracks

@checkra1n
https://checkra.in

NOTE: Please ensure you have a backup of your device before applying the jailbreak.
While data loss is unlikely, we won't be responsible if something goes wrong.
Use at your own risk.

☐ Quick Mode   Options   Start

注意事项
越狱工具使用教程
版本：v1.0.5.3

当前状态：正在越狱，请稍候...   86%   取消越狱

然后后续操作步骤，和独立的checkra1n的app的操作，是一样的。

用checkra1n给iPhone越狱

不论是官网独立的checkra1n的app，还是爱思助手的一键越狱中的checkra1n的app，其实都是一样的使用：
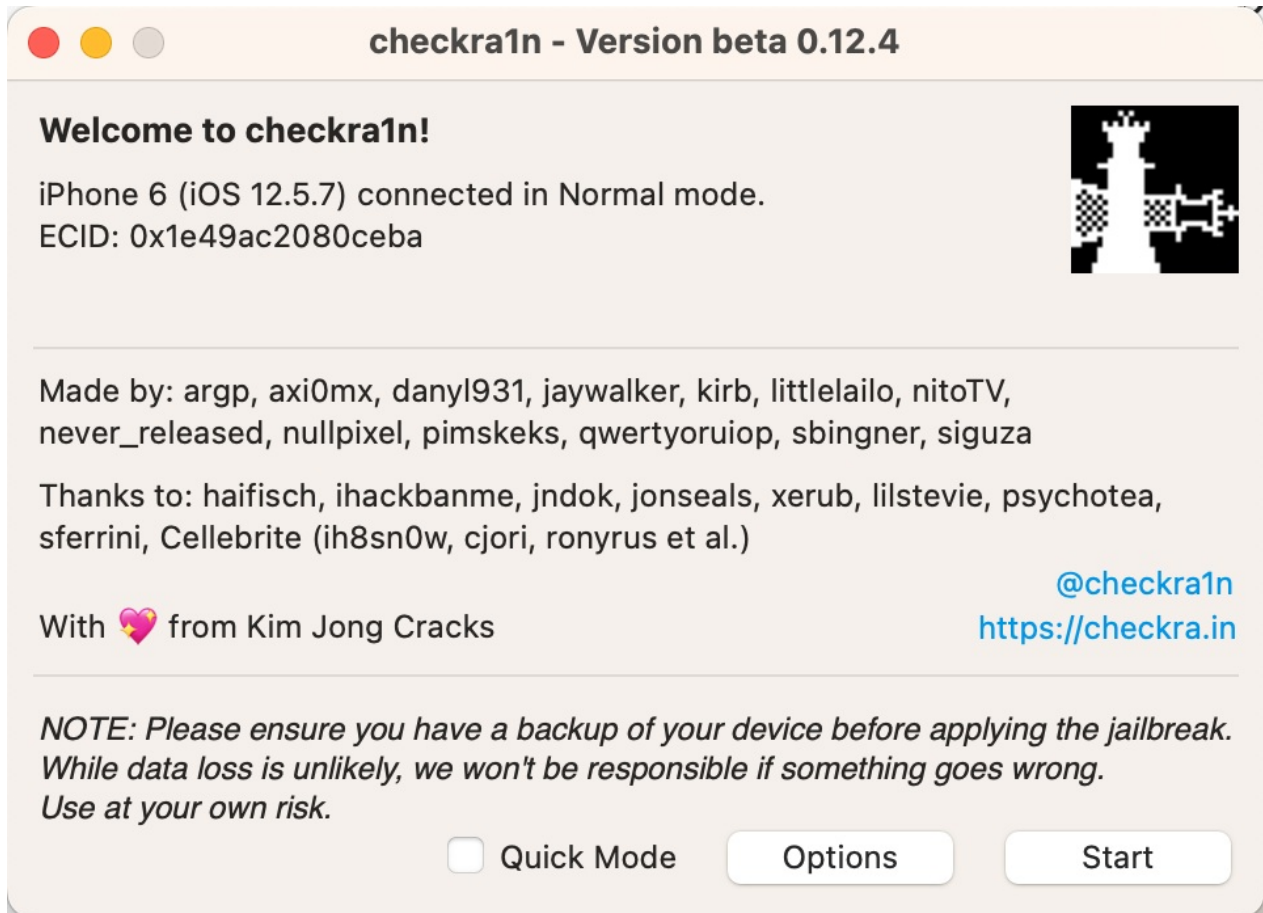
都无需额外的Apple苹果账号，是可以独立去使用的。

下面就是使用checkra1n去给iPhone越狱的过程：

注：此时的，iPhone通过 `USB Type-A` 连接到Mac中

对于已启动checkra1n的app后，主界面中点击 `Start`：

checkra1n - Version beta 0.12.4

Welcome to checkra1n!

iPhone 6 (iOS 12.5.7) connected in Normal mode.
ECID: 0x1e49ac2080ceba

Made by: argp, axi0mx, danyl931, jaywalker, kirb, littlelailo, nitoTV, never_released, nullpixel, pimskeks, qwertyoruiop, sbingner, siguza

Thanks to: haifisch, ihackbanme, jndok, jonseals, xerub, lilstevie, psychotea, sferrini, Cellebrite (ih8sn0w, cjori, ronyrus et al.)

@checkra1n
https://checkra.in

With 💖 from Kim Jong Cracks

NOTE: Please ensure you have a backup of your device before applying the jailbreak. While data loss is unlikely, we won't be responsible if something goes wrong. Use at your own risk.

☐ Quick Mode   Options   Start

然后提示，准备好进入DFU模式：

```
The device needs to be put into DFU mode to apply the jailbreak. This is amanual proces
s and we will guide you through it.In order to prevent filesystem corruption through ha
rd reset, the device will beput into recovery mode first. Click Next when you are ready
.
```

checkra1n - Version beta 0.12.4

The device needs to be put into DFU mode to apply the jailbreak. This is a manual process and we will guide you through it.
In order to prevent filesystem corruption through hard reset, the device will be put into recovery mode first. Click Next when you are ready.

Back   Next
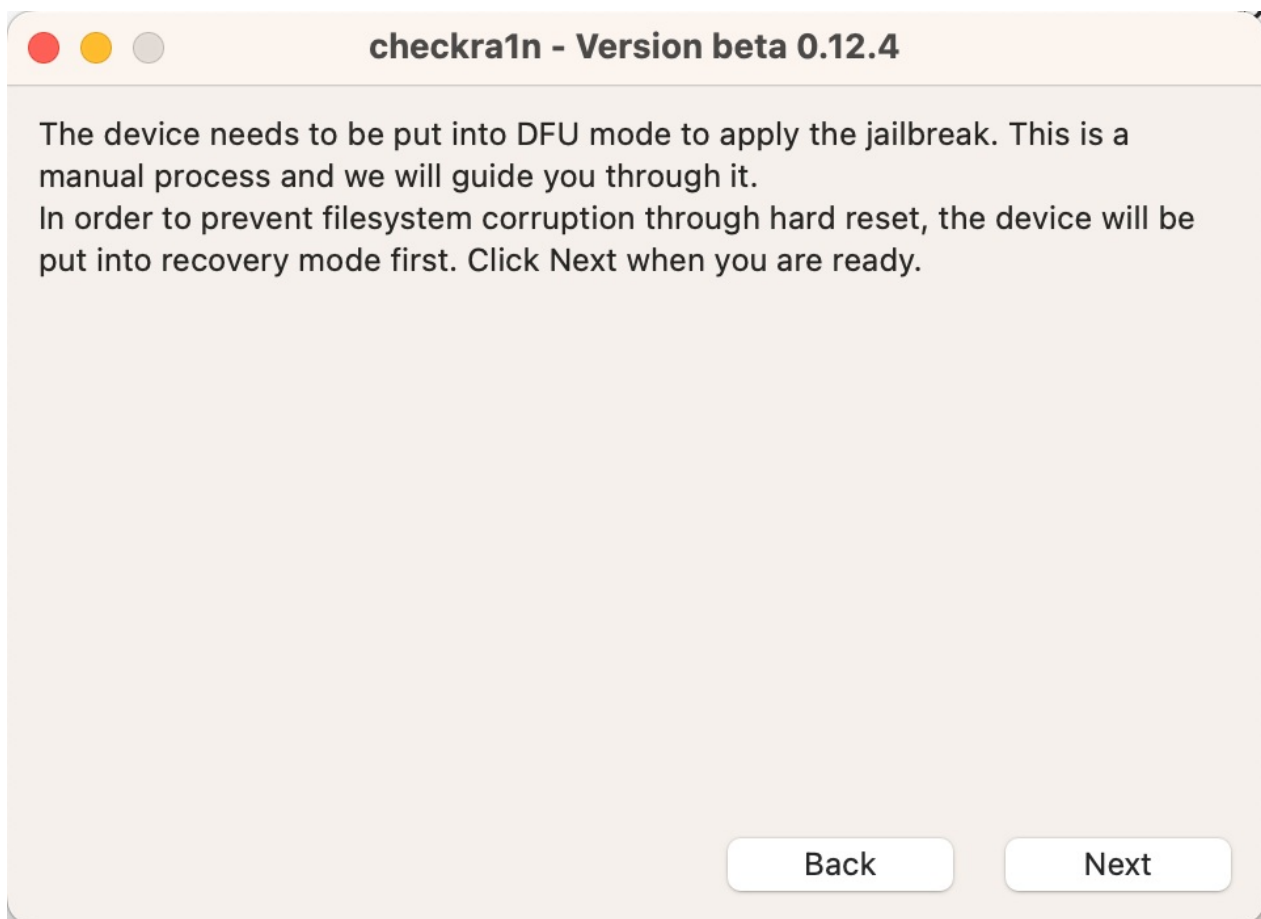
点击 `Next` 后，提示：

- `Enter recovery mode ...`

然后，iPhone端，出现iTunes和Lighting数据线的界面：
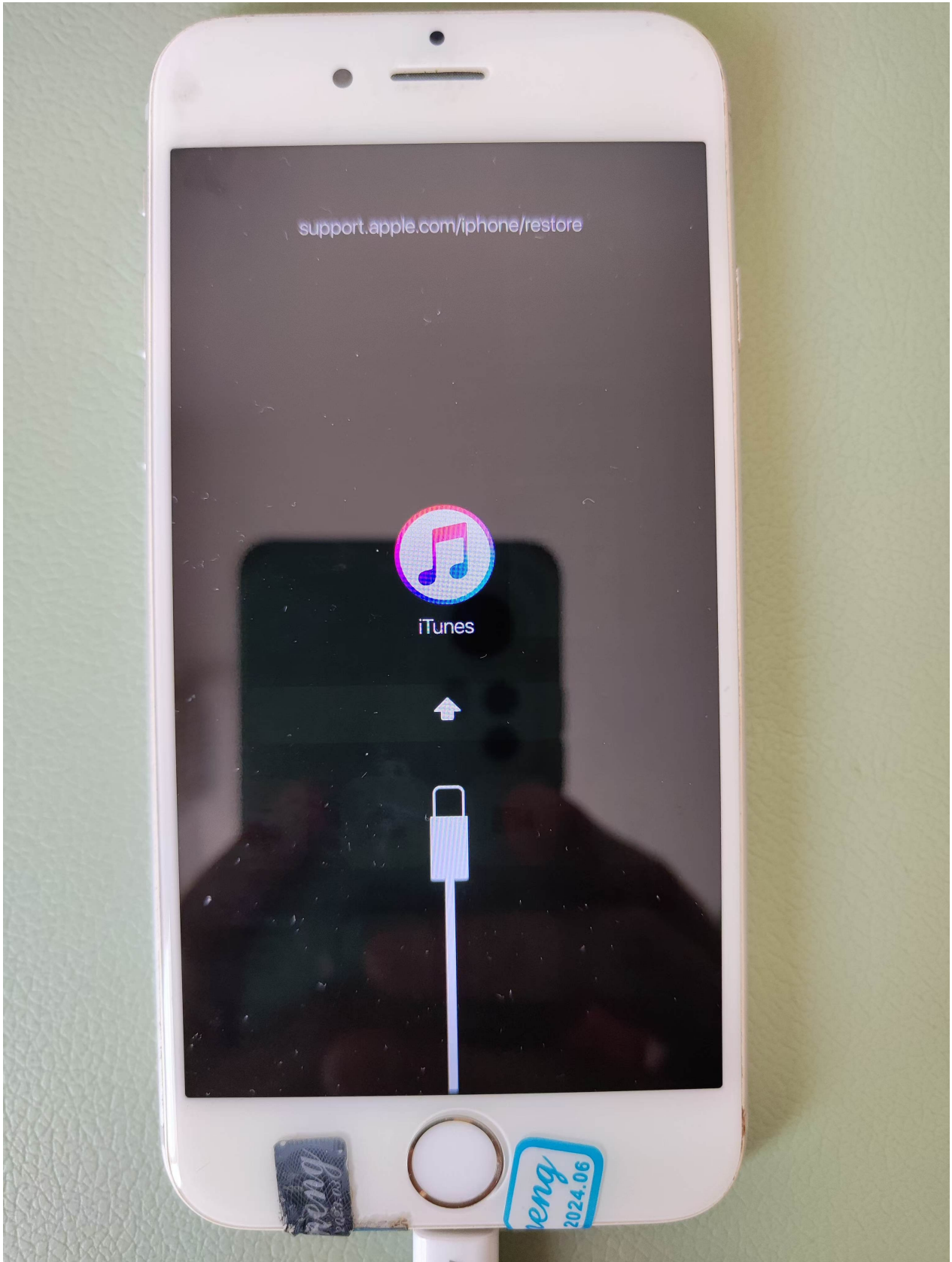

表示：已经进入了 `Recovery Mode = 恢复模式`

然后checkra1n中，显示：

```
Time to put the device into DFU mode. Locate the buttons as marked below on your device
```

```
 and check the instructions on the right **before** clicking Start.

-- Side button
-- Home button

1. Click Start
2. Press and hold the side and Home buttons together (4)
3. Release the Side button BUT KEEP HOLDING the Home button (10)

Cancel Start
```


checkra1n - Version beta 0.12.4

Time to put the device into DFU mode. Locate the buttons as marked below on your device and check the instructions on the right *before* clicking Start.

-- Side button

-- Home button

1. Click Start

2. Press and hold the Side and Home buttons together (4)

3. Release the Side button BUT KEEP HOLDING the Home button (10)

Cancel   Start
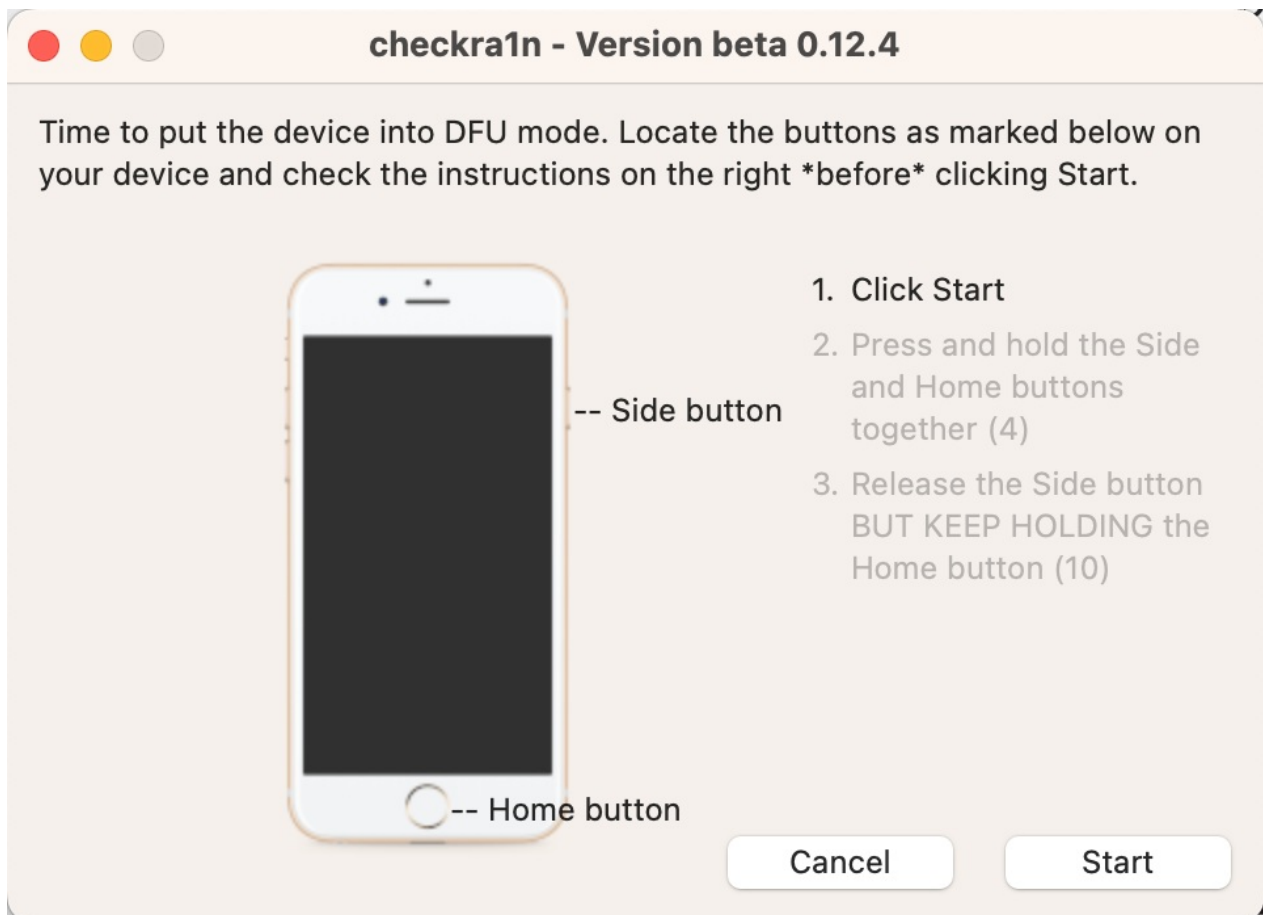
表示，要按照操作提示，去进入：`DFU` 模式了

然后去操作：

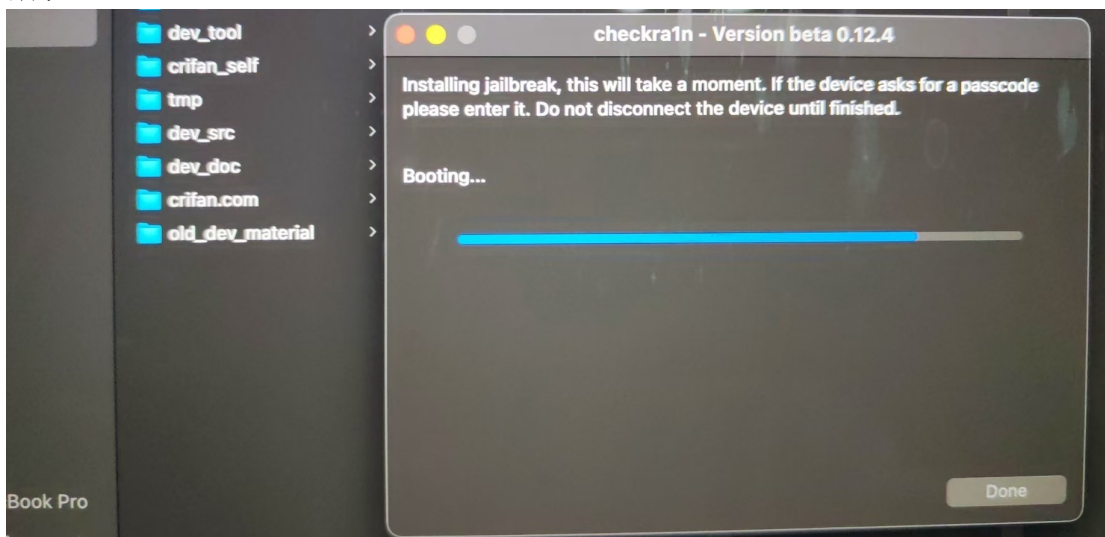- 第一步：点击 `Start`
- 第二步：同时按住电源键和Home键
  - 保持大概4秒左右
  - 界面

- 第三步：释放电源键，保持继续按住Home键
    - 保持大概不到10秒
    - 注意
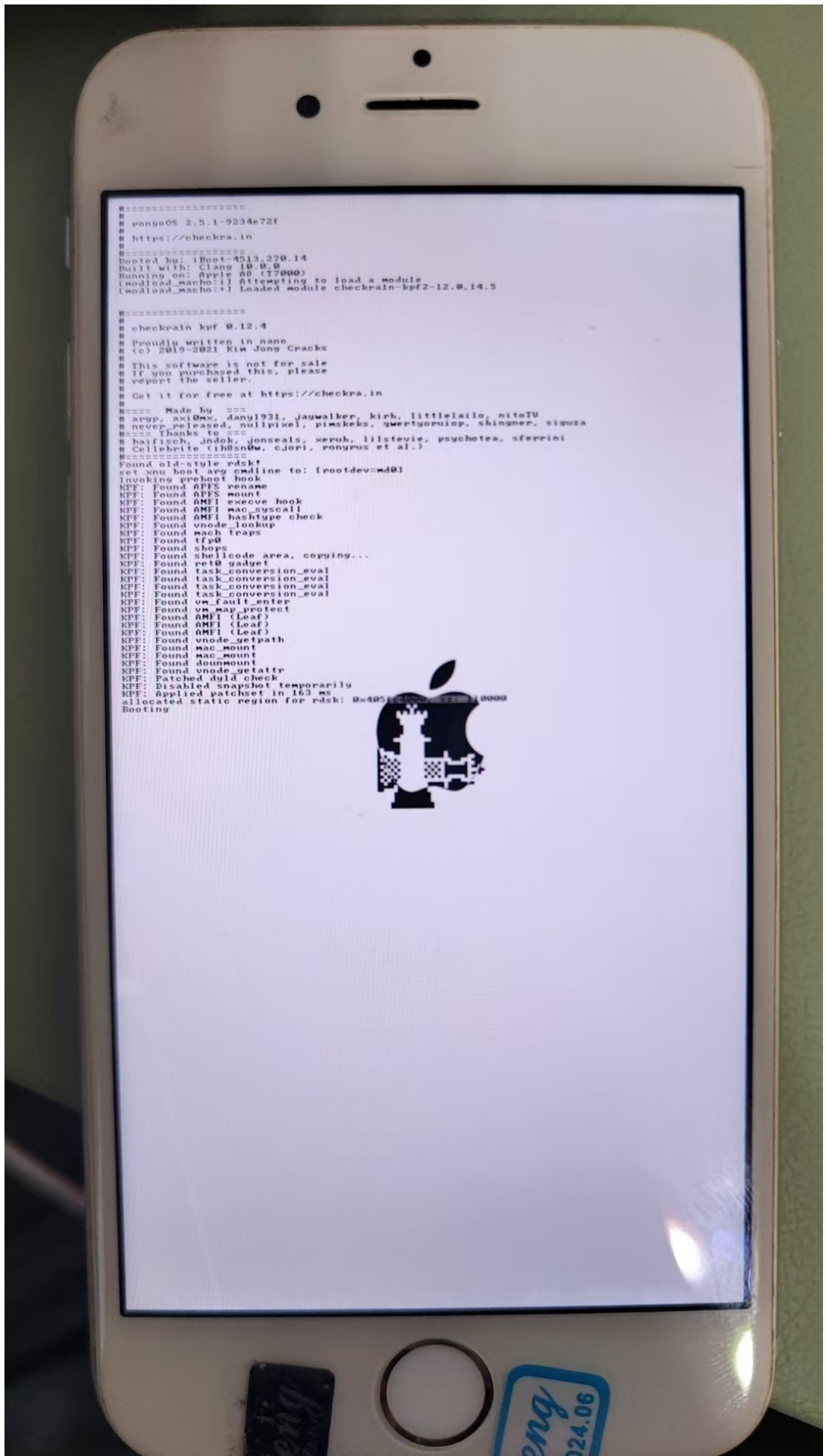   - **不要2个按键都松开后，再重新按Home键**，是只松掉电源键，保持继续按住Home键！
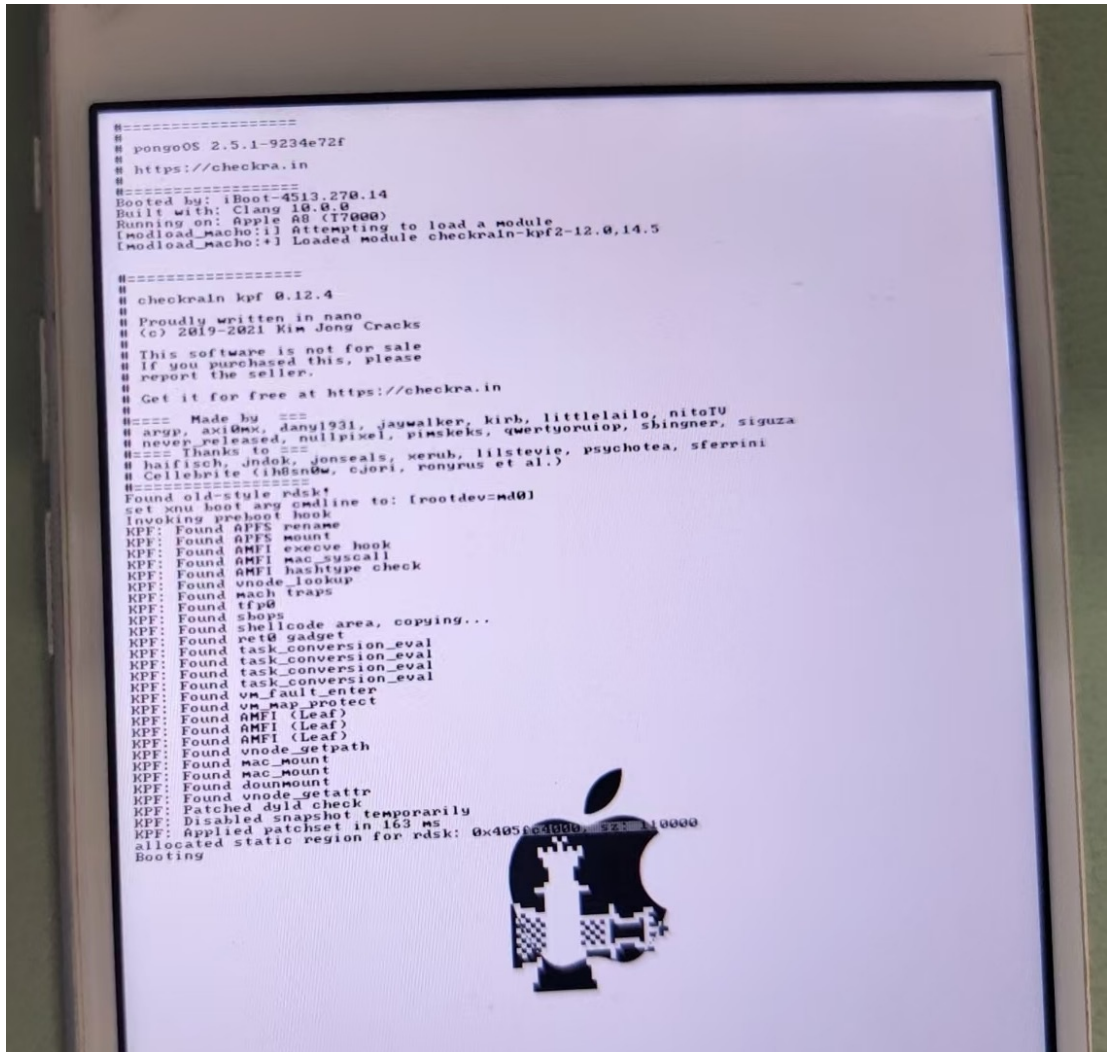
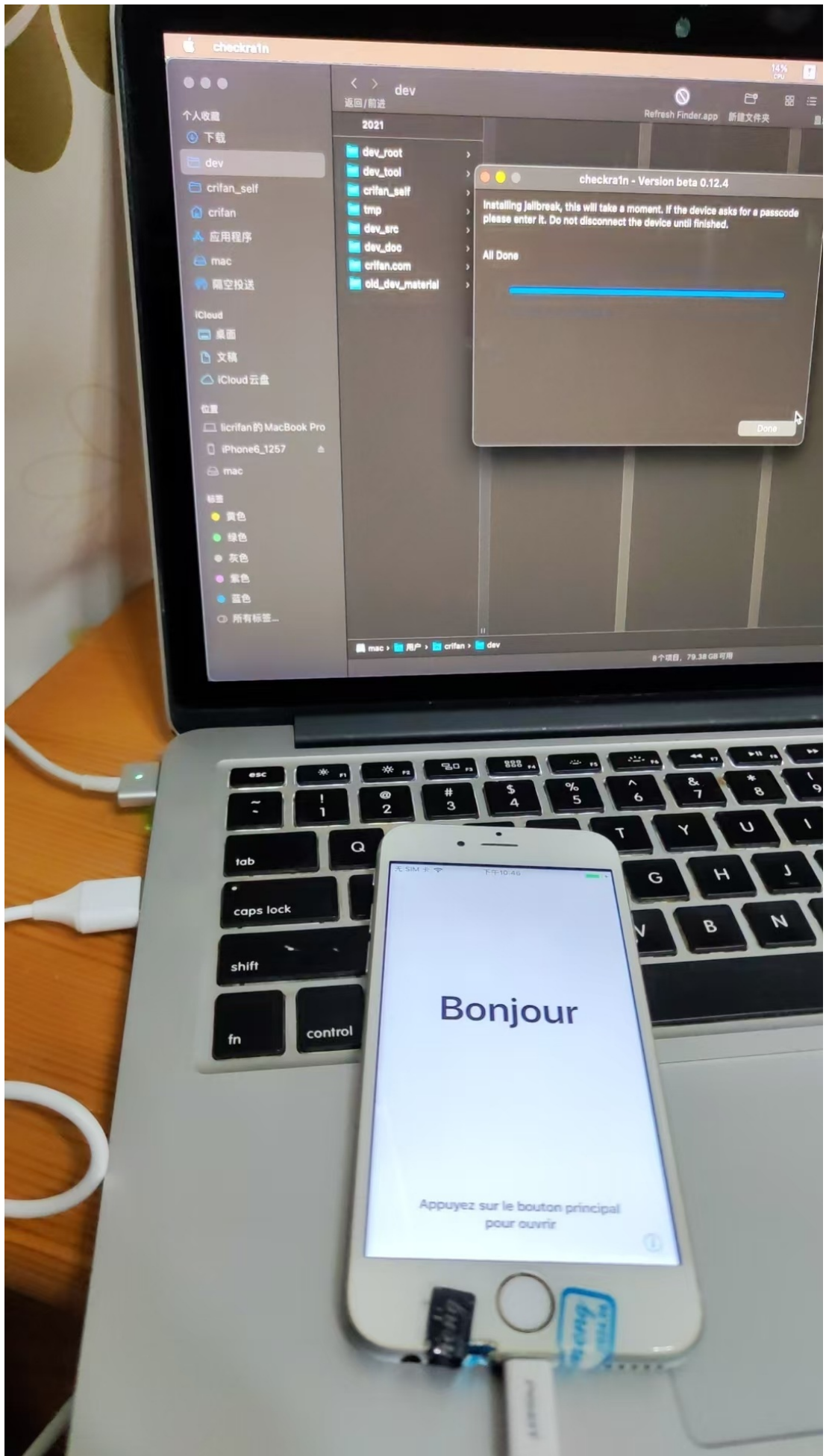然后就会进入刷机过程：

- Booting
    - 总体效果

- iPhone端显示booting的细节

■

最后完成时显示：

- All Done

○
■

然后iPhone桌面中即可看到已安装的checkra1n了：

常见问题

`USB Type-C` 口无法进入DFU模式，无法越狱

现象

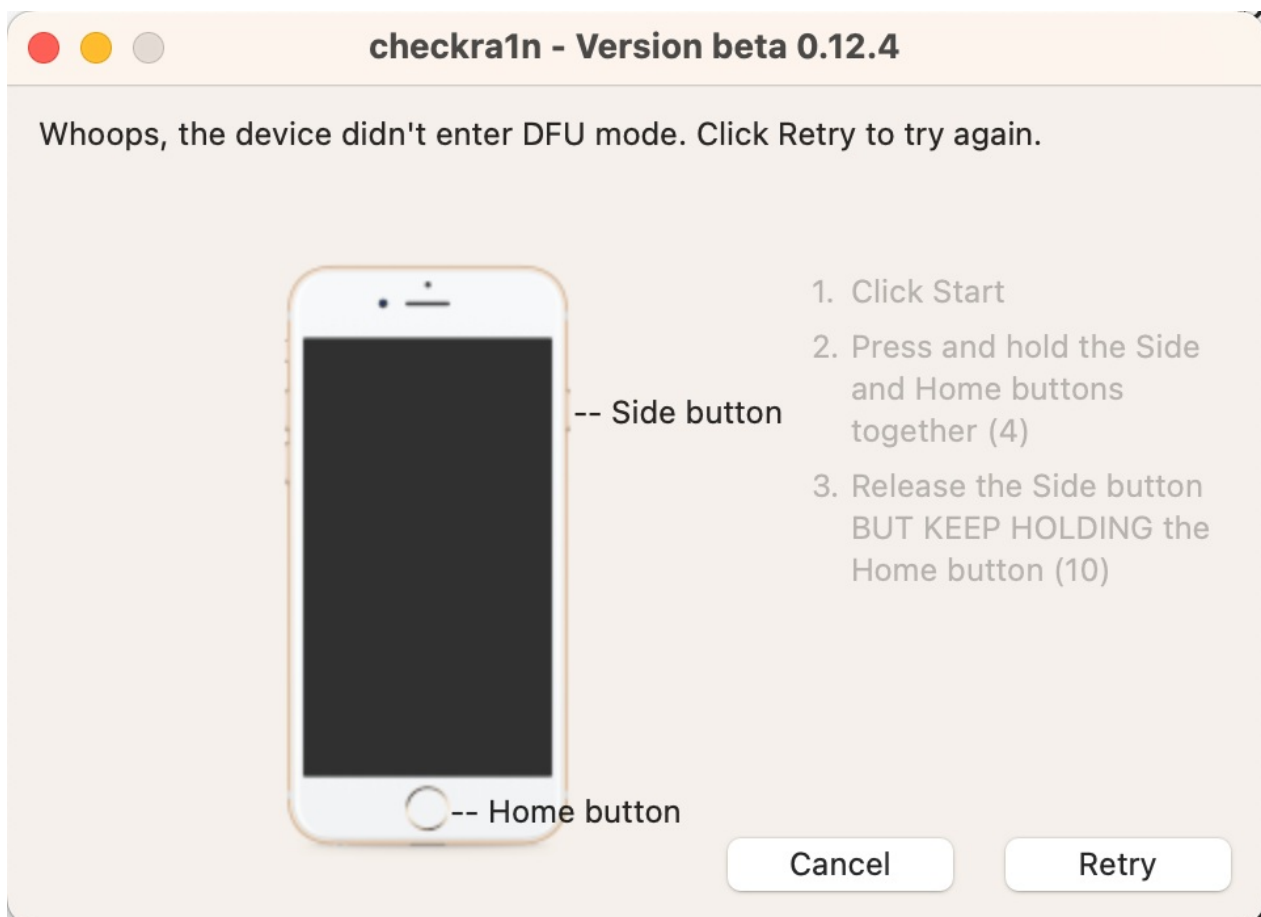用 `USB Type-C` 转Lighting闪电的USB数据线，把 `iPhone6` 连接到新的 `Mac` （比如 `Mac M2 Max` ）中，然后去用checkra1n去越狱：

始终无法顺利进入DFU模式，无需继续越狱

具体现象是：

check1n进入DFU模式失败后，显示 `Retry`

```
Whoops, the device didn't enter DFU mode. Click Retry to try again.

Retry
```


原因

- `USB Type-A` 的USB口，才能正常进入DFU模式，才能继续越狱

○

○

- 而 `USB Type-C` 的USB口，无法正常进入DFU模式，无法继续越狱

。

。

具体解释：

对于，需要进入DFU模式（恢复模式），才能继续去越狱的越狱工具，比如 `checkra1n` （和另外的 palera1n），必须使用：

带原装的TypeA的USB口

的（Mac/Win笔记本），才可以继续正常进入DFU模式，继续越狱

且注意：

- **即使是 `USB Type-C` 转 `USB Type-A` 的转接头=转接口，也不行**

○

解决办法

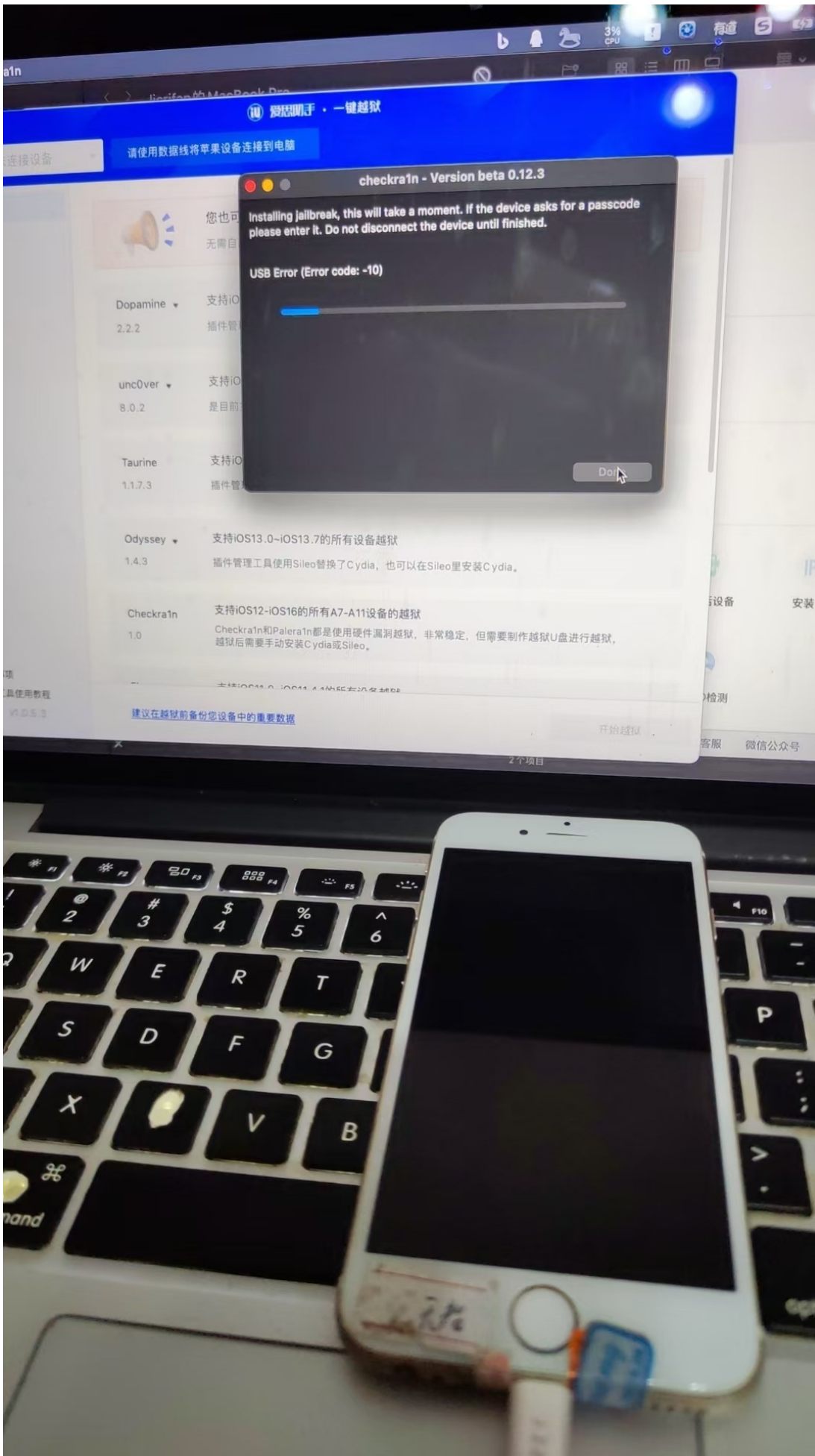换原装的，带 `USB Type-A` 的**USB口**（的Mac或Win电脑）

USB Error (Error code: -10)

现象

（旧的，带USB TypeA口的）Mac中：

- Mac系统版本是：`macOS Big Sur` = `macOS 11.7.3`

○

用checkra1n去给iPhone6越狱，在已经进去恢复模式，继续操作时报错：

USB Error (Error code: -10)

USB Error (Error code: -10)

原因

- 原因：USB接口（供电？）等异常
  - USB口的电流异常?
  - 其他未知的诡异的问题?

解决办法

- 解决办法：重启Mac

心得

之前之所以没找到此处的最终解决办法，重启Mac

是之前的经验，Mac很少遇到，需要重启才能解决问题的情况

而使得，从来没有想到，需要重启Mac，去试试能否解决问题

所以此处的最大心得是：

（不论是Mac还是Win）电脑遇到（各种诡异的疑难杂症的）问题，实在不行，重启试试：仍是一大法宝。

checkra1n越狱后，iPhone桌面上看不到checkra1n图标

- 现象：checkra1n越狱后，iPhone桌面上看不到checkra1n图标
  -

- 原因：估计是正在安装?
- 解决办法：稍微等一会（大概几十秒后），即可出现checkra1n图标
  。

- 原因：估计是正在安装?
- 解决办法：稍微等一会（大概几十秒后），即可出现checkra1n图标
  。

checkra1n越狱后，点击各种越狱工具都无法正常启动

现象

最初安装了checkra1n后，当时桌面上看到的，各种app图标：

- Cydia
- Filza
- CocoaTop64

但是，点击后，都会：闪退=崩溃=无法正常启动

原因

此处的：Cydia、Filza、CocoaTop64等越狱工具，都是之前（正常越狱后安装的，但是现在越狱丢失了而）残留的

此时=实际上情况是：iPhone中是没有（安装）这些软件（Cydia）和插件（Filza、CocoaTop64）的

解决办法

对于这些越狱工具：

- Cydia：是需要后续用checkra1n去安装的
- 残留的插件（Filza、CocoaTop64）：是需要后续再单独去安装的

相关

另外一个相关的现象是：

后续checkra1n中正常安装了Cydia，Cydia打开有更新，去更新各种插件后，估计是内部触发了uicache的逻辑，使得桌面上的图标刷新了

从而导致：之前残留的Filza、CocoaTop64等插件的图标，就消失了

越狱后

TODO：

- 【整理】已越狱后的iPhone和iOS相关知识
- 【整理】已越狱iOS的ipa安装工具：Cydia Impactor
- 【整理】已越狱的iPhone有哪些有用的有价值的扩展插件
- 【已解决】iPhone6中重新激活和开启越狱状态
- 【记录】新iPhone测试机iPhone7P越狱环境准备

（用 `unc0ver` 或 `checkra1n` 给）iPhone越狱后，有些相关的事情要做：

- 通用的
  - 万一（各种原因导致）已越狱的iPhone重启，而导致：越狱丢失
    - 就要去：恢复越狱 ~= 重新执行一遍越狱
  - 用 `ssh` 、 `Filza` 、 `爱思助手` 等去管理文件
    - 包括安装ipa文件
      - ipa文件往往是对某app逆向，砸壳导出的ipa文件
  - 各种插件的安装和卸载
    - 涉及到：包管理器
      - `Cydia` 或 `Sileo` 或 `Zebra`

通用

恢复越狱

TODO：

- 【记录】给之前用checkra1n越狱的iPhone6恢复越狱

现在主流越狱工具，比如 `unc0ver` ，都是 半完美越狱 ：iOS（iPhone）重启后，越狱就丢失了

-> 具体现象是：点击 `Cydia` 等软件会闪崩无法打开

此时，就需要去：恢复越狱

即把之前越狱的流程再走一遍

-> 即可恢复越狱状态。

文件管理

越狱后的iPhone，可以有很多文件管理方面的工具：

- 文件管理
  - ssh
    - OpenSSH
      - 免密登录
        - scp：导入 导出 文件
  - Filza
    - 文件管理
  - 爱思助手
- 安装ipa
  - Filza
  - 爱思助手

TODO：

- 【已解决】从已越狱iPhone中拷贝文件到Mac中

- 【已解决】已越狱iOS中通过Cydia安装文件管理器

- 【已解决】从已越狱iPhone中拷贝文件到Mac中

其他：

- iFile（收费）
  - 【未解决】iPhone中安装和使用iFile查看iOS是否已越狱
  - 【未解决】Cydia安装BigBoss源的iFile出错：无法购买Cydia is not yet prepared to accept money

包管理器

概述：越狱后，往往会通过包管理器去安装越狱开发所需的各种插件和工具。比如OpenSSH用于ssh登录、Filza用于管理文件、TrollStore用于安装ipa等等。

具体详见独立教程：

iOS逆向开发：越狱包管理器

爱思助手

- 【记录】Mac中用爱思助手检测和确认iPhone是否已越狱
- 【记录】已越狱的iOS中用爱思助手安装app软件：微信
- 【记录】iPhone6中试用爱思极速版
- 【已解决】Mac中爱思助手看不到iPhone的越狱文件系统全部文件内容
- 【已解决】Mac中用爱思助手安装抖音ipa到越狱iPhone中

安装ipa

- Filza
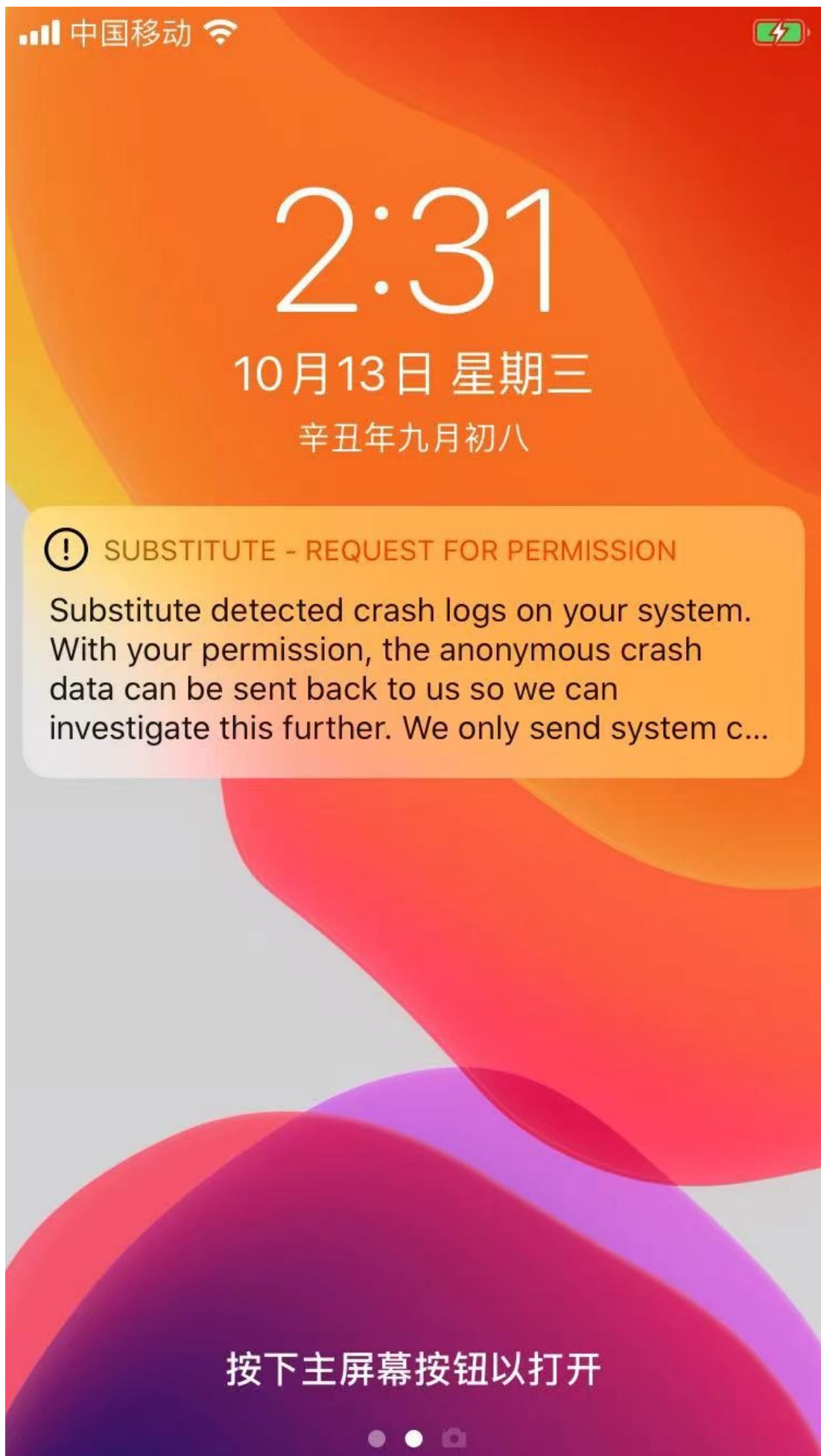 - 【整理】iOS逆向心得：越狱iPhone异常时的现象：Filza安装ipa卡死

unc0ver越狱后

用unc0ver给iPhone越狱后，重启后，即可完成越狱。

【首次】初始化Substitute

iPhone重启后，往往会看到：

锁屏界面显示：

- `Substitute - request for permission`

  。

。

解锁后，点击：Always Allow

-

注：有时候是，此弹框，会出现unc0ver越狱期间：

-

注：有时候是，此弹框，会出现unc0ver越狱期间：

-

无SIM卡 🛜 10:48 69% 🔋

⚙️ 　　　　　　　Secure iOS

u0

unc0ver jailbreak
for iOS 11.0 - 14.8
by @p
UI by

29
Boot

over
runCo
file_
runCo
(5.35
runCo
findu
runCo
(4.6.
runCo
gzip_
runCo
(1.9-1) ...
runCommandv(984): Preparing to unpack .../
libplist3_2.2.1-2_iphoneos-arm.deb ...
runCommandv(984): Unpacking libplist3

Substitute - Request for Permission

Substitute detected crash logs on your system. With your permission, the anonymous crash data can be sent back to us so we can investigate this further. We only send system crash logs. No trackable or other personal information will be sent.

Allow Once

Never Allow

Always Allow

Jailbreaking

Version: 8.0.2

然后点击 `Substitute` 进入界面，查看到相关设置：

-

然后点击 `Substitute` 进入界面，查看到相关设置：

-

Substitute

Enable Tweak Injection

Temporarily disable system-wide injection of dynamic libraries with matching filters at /Library/ MobileSubstrate/DynamicLibraries

Enable Log File

Temporarily enable logging messages from tweak loader to /var/log/extensionloader.log for tweak injection and memory usage diagnosis.

Jetsam Operation Mode   Default >

Desired Jetsam mode

Share Crash Data   Always >

Share anonymous OS crash logs with us so we can investigate bugs further. We only send process crash logs. No trackable or other personal information will be sent.

Clean Crash Data

Delete OS crash logs after sharing with us to free up space.

-

unc0ver越狱后

Substitute

Desired Jetsam mode

Share Crash Data   Always >

Share anonymous OS crash logs with us so we can investigate bugs further. We only send process crash logs. No trackable or other personal information will be sent.

Clean Crash Data   ⬤

Delete OS crash logs after sharing with us to free up space.

CREDITS:

@sbingner (Injection/Loader)

@pwn20wnd (Injection/Loader)

@comex (Hooking Library)

@Surenix (App Icon)

Version 2.1.0
© 2018-2020 sbingner & pwn20wnd

152
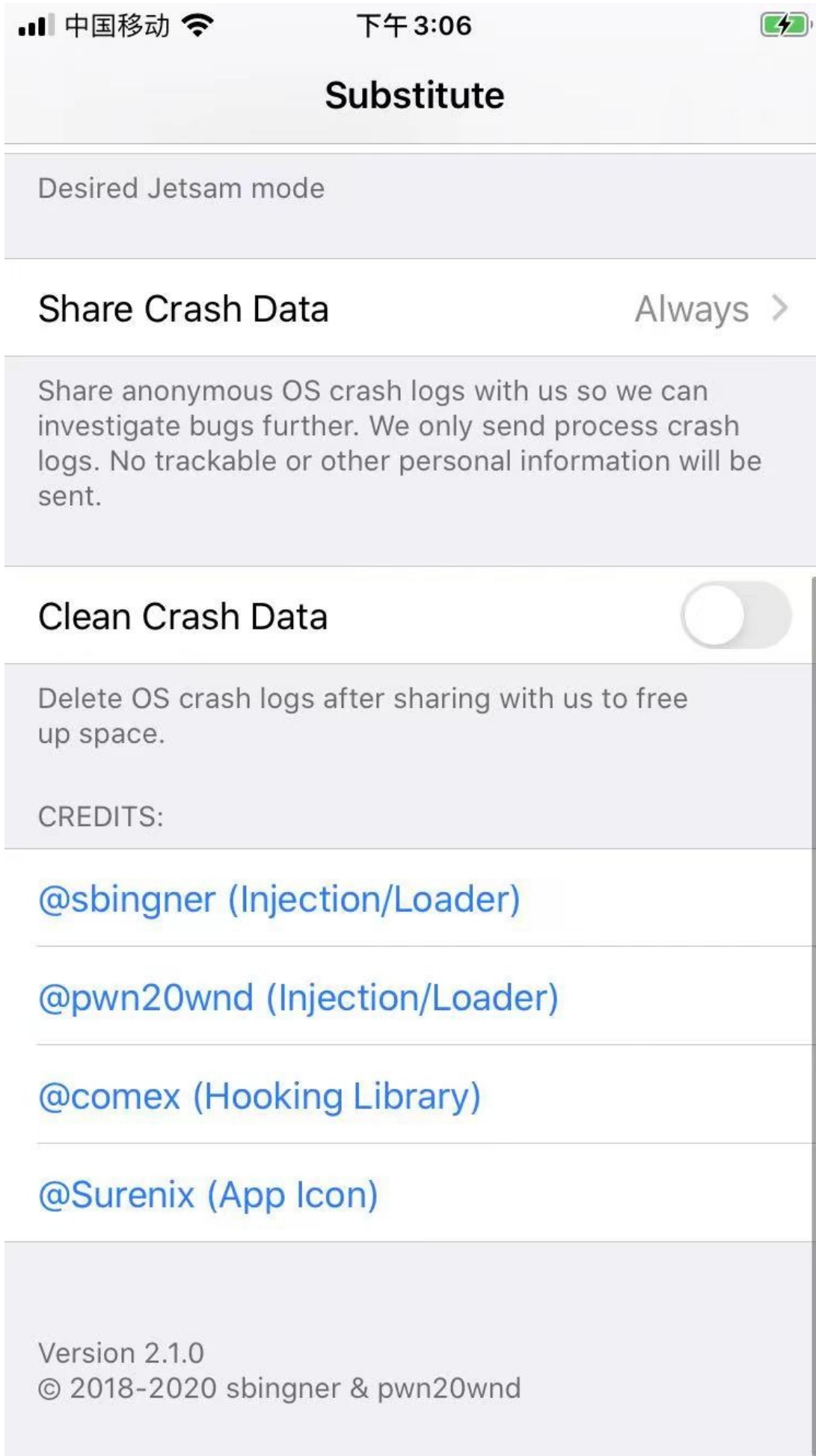
unc0ver成功越狱后的效果

- 用unc0ver越狱成功后
  - 越狱成功后的桌面：有了 `unc0ver` 和 `Substitute`
    -

- 打开unc0ver后会显示：已越狱
  - 旧版unc0ver显示：`Re-Jailbreak`

- 新版unc0ver显示：`Jailbroken`

- iOS 14.3的iPhone8，用unc0ver 8.0.2越狱后

无服务 📶　　　　22:28　　　　100% 🔋

⚙️　　　　　　　　　　　　　Secure iOS

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unc0ver jailbreak
for iOS 11.0 - 14.8
by @pwn20wnd & @sbingner
UI by @iOS_App_Dev & @HiMyNameIsUbik

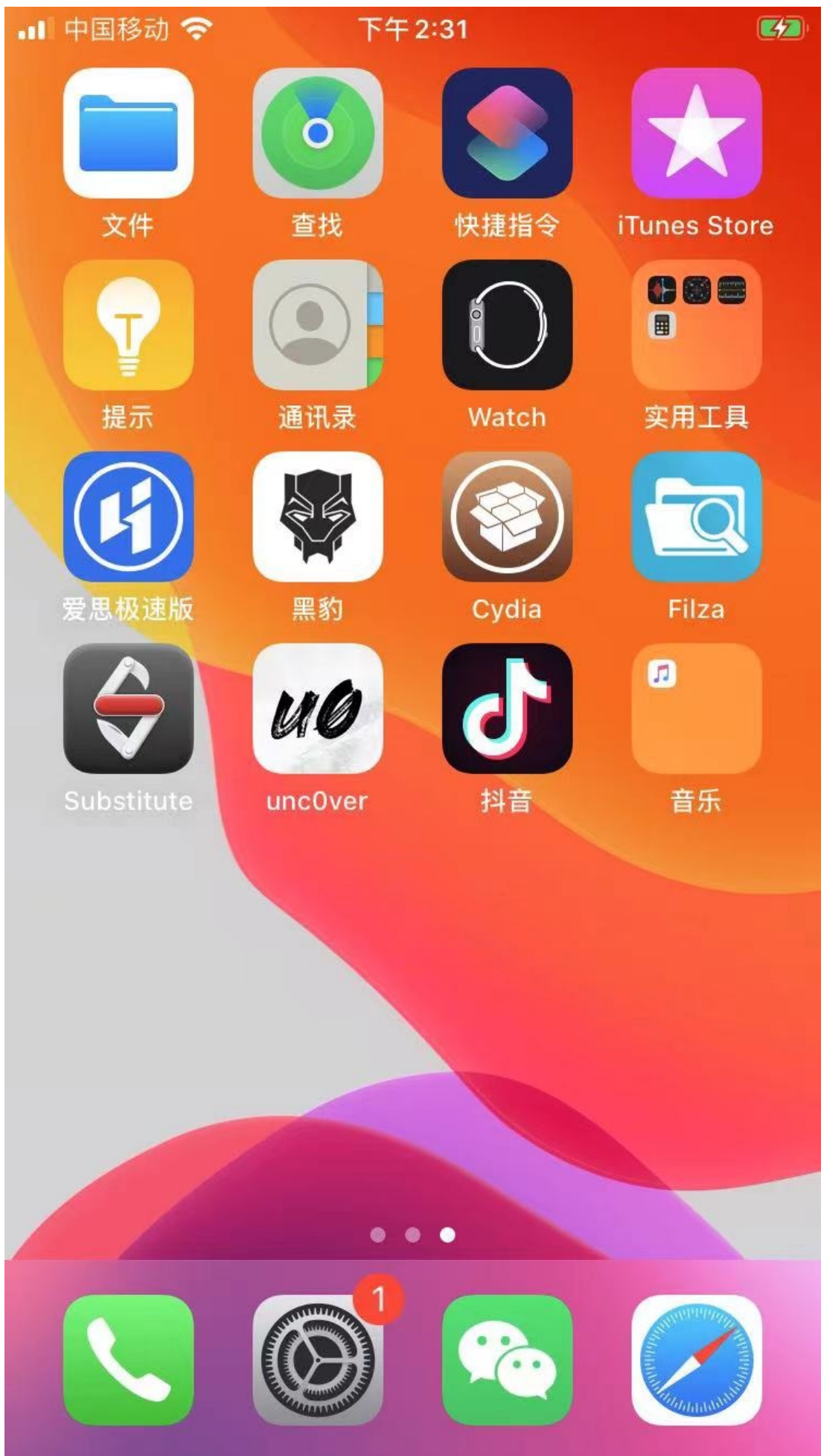**0/32**
Already jailbroken

the seller
[*] Get unc0ver for free at https://
unc0ver.dev
[*] Configured to share anonymous OS crash
logs
[*] Machine Name: iPhone10,1
[*] Model Name: D20AP
[*] Kernel Version: Darwin Kernel Version
20.2.0: Fri Nov 13 01:00:15 PST 2020;
root:xnu-7195.62.1~4/RELEASE_ARM64_T8015
[*] Processor Version: A11
[*] Kernel Page Size: 0x4000
[*] System Version: iOS 14.3 (Stable) (Build:
18C66)

Jailbroken

Version: 8.0.2

- 爱思助手检测到iPhone是：已越狱
  - iPhone8
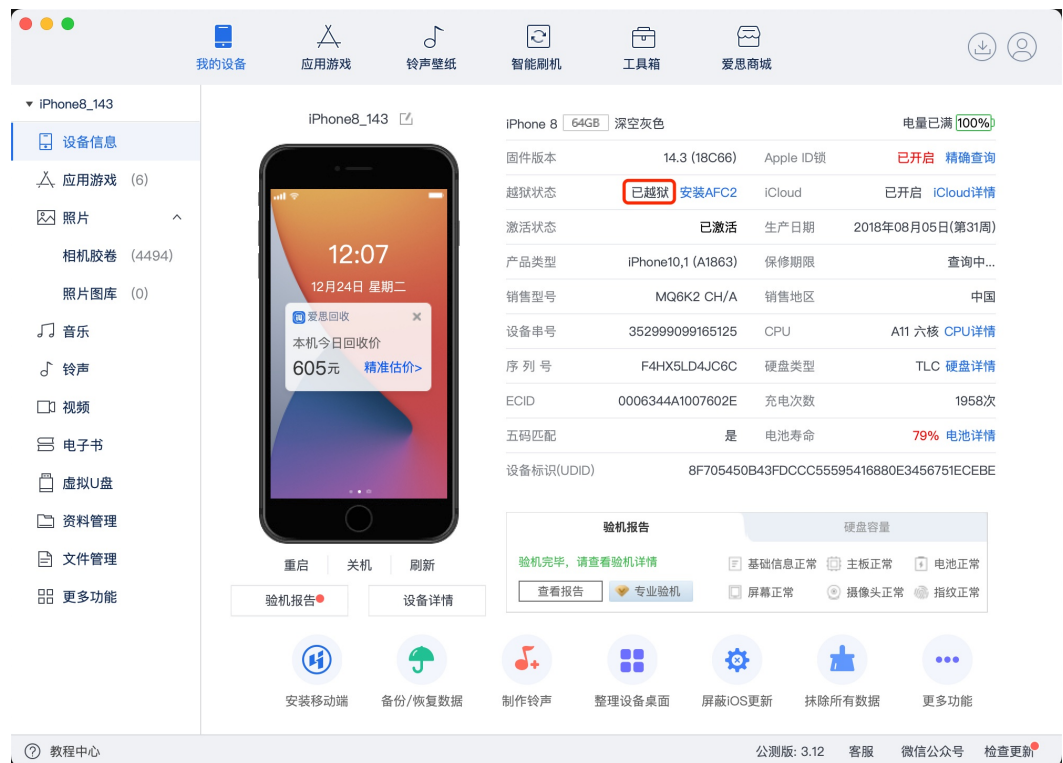
- 其他越狱工具能正常打开
  - 对比：如果越狱失败，则打开对应工具会闪退崩溃
  - Cydia

关于　　　　　**主页**　　　　　**重新加载**

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常见问题　　　　　　　　　　　　　>

设备文件拷贝　　　　　　　　　　　>

OpenSSH 访问教程　　　　　　　　>

Root 密码教程　　　　　　　　　　>

存储详情　　　　　　　　　　　　　>

开发者专区

开发者常用资源　　　　　　　　　　>

致谢 / 感谢　　　　　　　　　　　>

隐私政策　　　　　　　　　　　　　>

iPhone9,1, iOS 13.6.1, Cydia64_1.1.36 (zh-cn)
0386297ed6094bb20d6da3dbf1519fa9f93f23ee

★　　　　　　　　5
Cydia　　软件源　　变更　　已安装　　搜索

- iPhone9,1

- `iOS 13.6.1`
- `Cydia64_1.1.36(zh-cn)`

crifan.org，使用署名4.0国际(CC BY 4.0)协议发布 all right reserved，powered by Gitbook最后更新：
2024-12-24 14:40:17
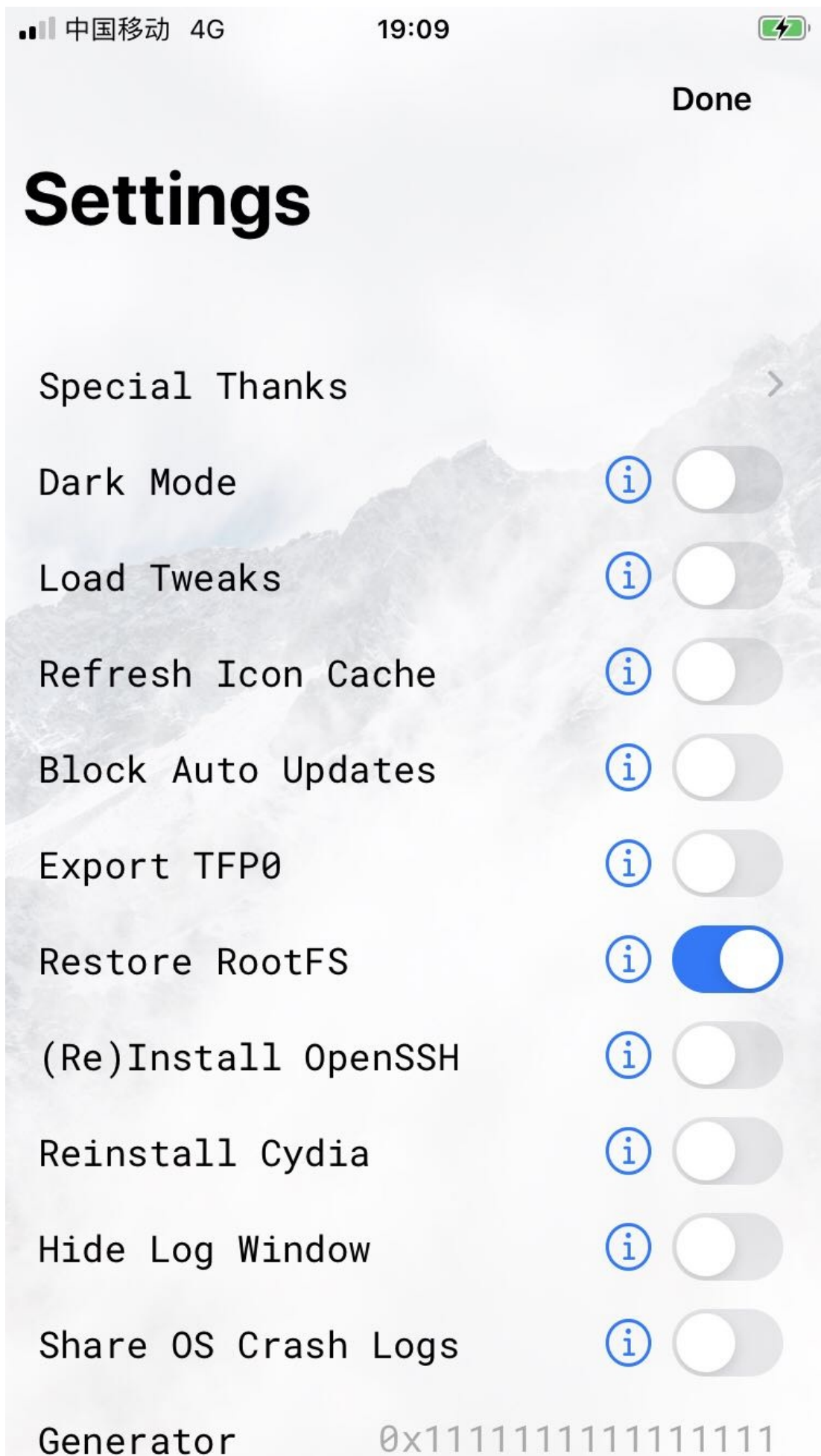
unc0ver卸载还原越狱

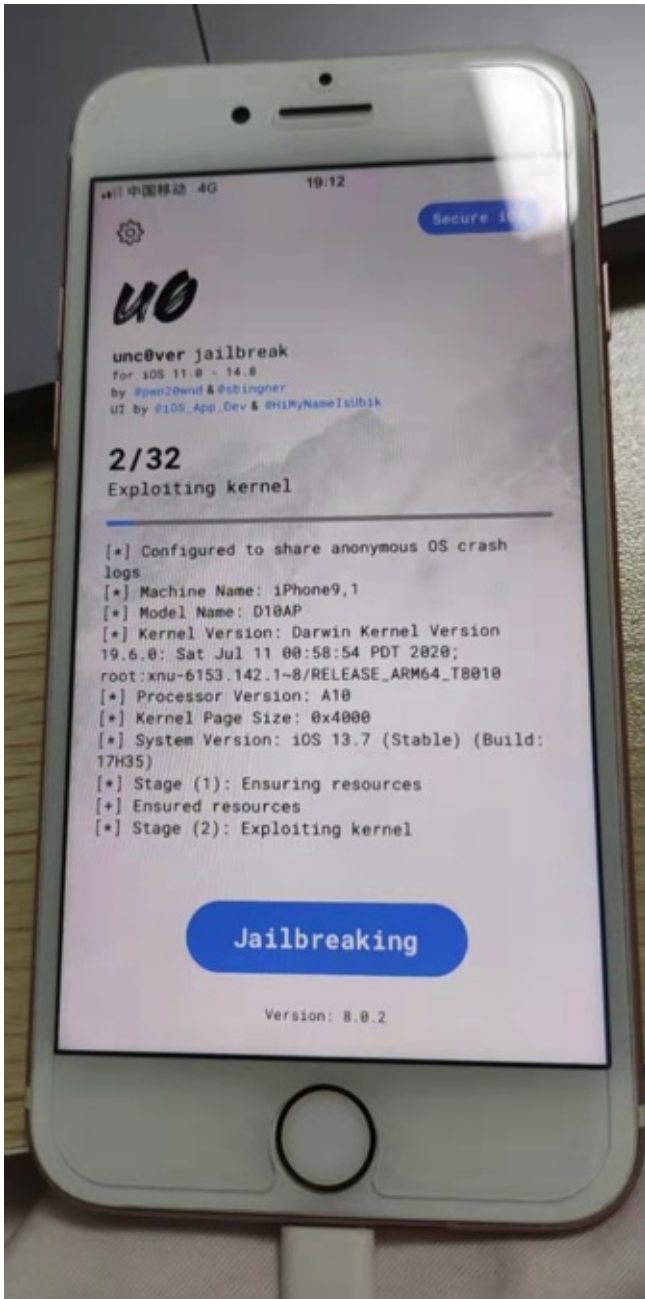安装了unc0ver后=用unc0ver越狱后，想要：卸载越狱=还原越狱=还原系统

则可以去：

重新用unc0ver去：卸载越狱，还原越狱

▪▫▫ 中国移动 4G · · · · · · · · · · · 19:05 · · · · · · · · · · · · · · ⚡

⚙

Secure iOS

uO

unc0ver jailbreak
for iOS 11.0 - 14.8
by @pwn20wnd & @sbingner
UI by @iOS_App_Dev & @HiMyNameIsUbik

0/32
Ready to re-jailbreak

the seller
[*] Get unc0ver for free at https://unc0ver.dev
[*] Configured to share anonymous OS crash logs
[*] Machine Name: iPhone9,1
[*] Model Name: D10AP
[*] Kernel Version: Darwin Kernel Version 19.6.0: Sat Jul 11 00:58:54 PDT 2020; root:xnu-6153.142.1~8/RELEASE_ARM64_T8010
[*] Processor Version: A10
[*] Kernel Page Size: 0x4000
[*] System Version: iOS 13.7 (Stable) (Build: 17H35)

Re-Jailbreak

Version: 8.0.2

具体方式=核心思路：

- 进入左上角的设置界面，去勾选：`Restore RootFS`
  。

Done

Settings

Special Thanks   >

Dark Mode   ⓘ

Load Tweaks   ⓘ

Refresh Icon Cache   ⓘ

Block Auto Updates   ⓘ

Export TFP0   ⓘ

Restore RootFS   ⓘ

(Re)Install OpenSSH   ⓘ

Reinstall Cydia   ⓘ

Hide Log Window   ⓘ

Share OS Crash Logs   ⓘ

Generator   0x1111111111111111

继续：

继续：

中国移动 4G 19:06

Secure iOS

uc0ver jailbreak

for iOS 11.0 - 14.8
by @pwn20wnd & @sbingner
UI by @iOS_App_Dev & @HiMyNameIsUbik

0/32

Ready to restore RootFS

the seller
[*] Get unc0ver for free at https://unc0ver.dev
[*] Configured to share anonymous OS crash logs
[*] Machine Name: iPhone9,1
[*] Model Name: D10AP
[*] Kernel Version: Darwin Kernel Version 19.6.0: Sat Jul 11 00:58:54 PDT 2020; root:xnu-6153.142.1~8/RELEASE_ARM64_T8010
[*] Processor Version: A10
[*] Kernel Page Size: 0x4000
[*] System Version: iOS 13.7 (Stable) (Build: 17H35)
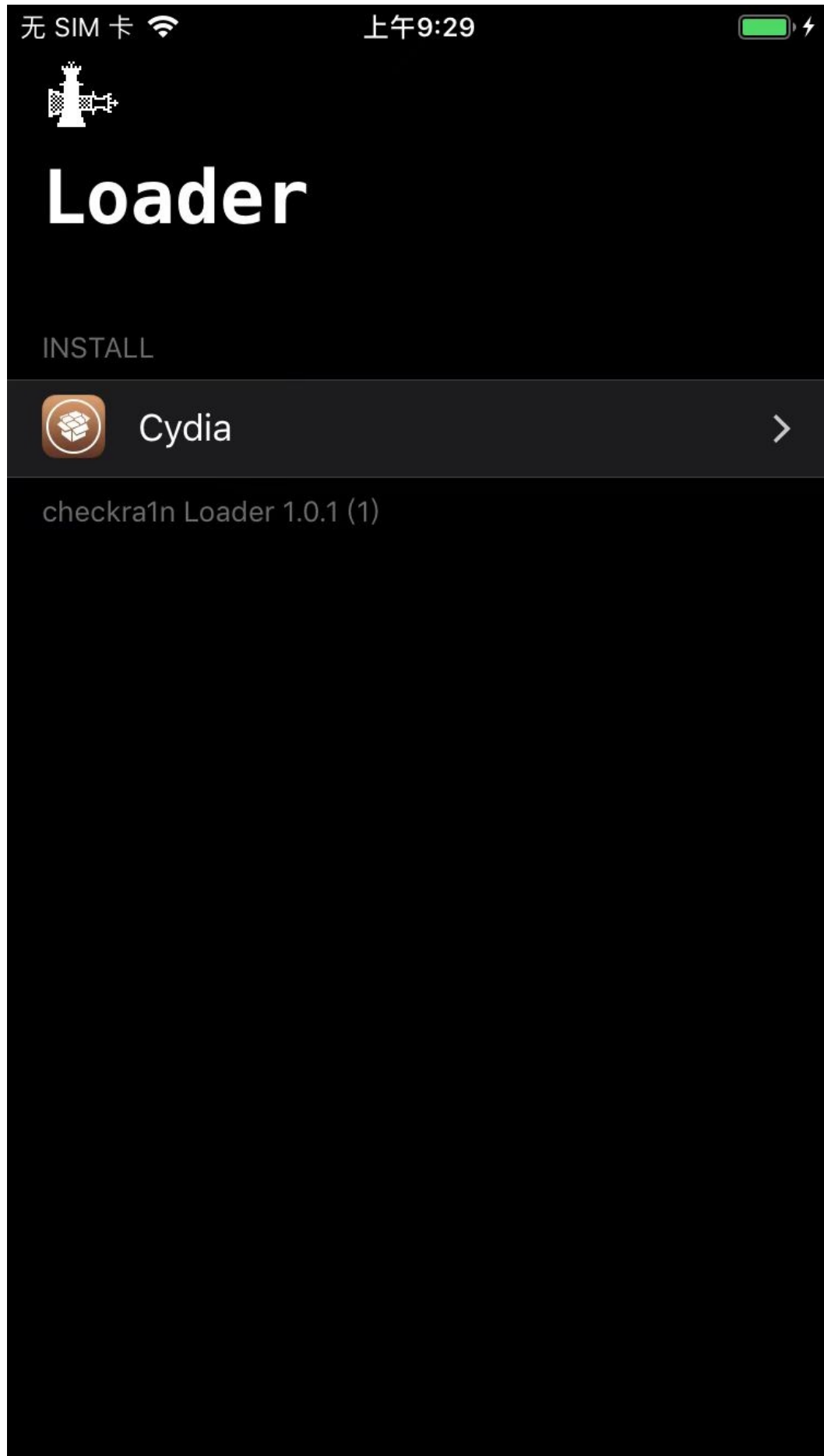
Restore RootFS

Version: 8.0.2

即可。

checkra1n越狱后

- 安装Cydia
  - 原因：越狱后的iPhone，要安装和管理各种常见Tweak=插件，往往最常用的（也是最老的工具之一）是： `Cydia` ，所以要先去checkra1n中安装 `Cydia`

心得

### 如何判断是否已正常安装Cydia

- 打开checkra1n后，checkra1n的app内部：
  - 如果是
    - 没有显示： `Restore System`

无 SIM 卡 🌐　　　　　上午9:29

Loader

INSTALL

Cydia ＞

checkra1n Loader 1.0.1 (1)

- 则说明是:没有正常越狱 == 此时还没有安装Cydia == 还没有彻底的真正的完整的越狱

- 此时需要去：重新安装Cydia
  - 概述：`checkra1n -》 Cydia -》 Install Cydia -》`继续安装即可
  - 详见：安装Cydia
- 与之对比：正常安装完毕Cydia后 = checkra越狱正常后
  - checkra1n中是能看到 `Restore System` 的

无 SIM 卡 🛜   上午9:33   🔋⚡

Loader

INSTALL

Cydia   >

TROUBLESHOOT

Restore System   >

checkra1n Loader 1.0.1 (1)
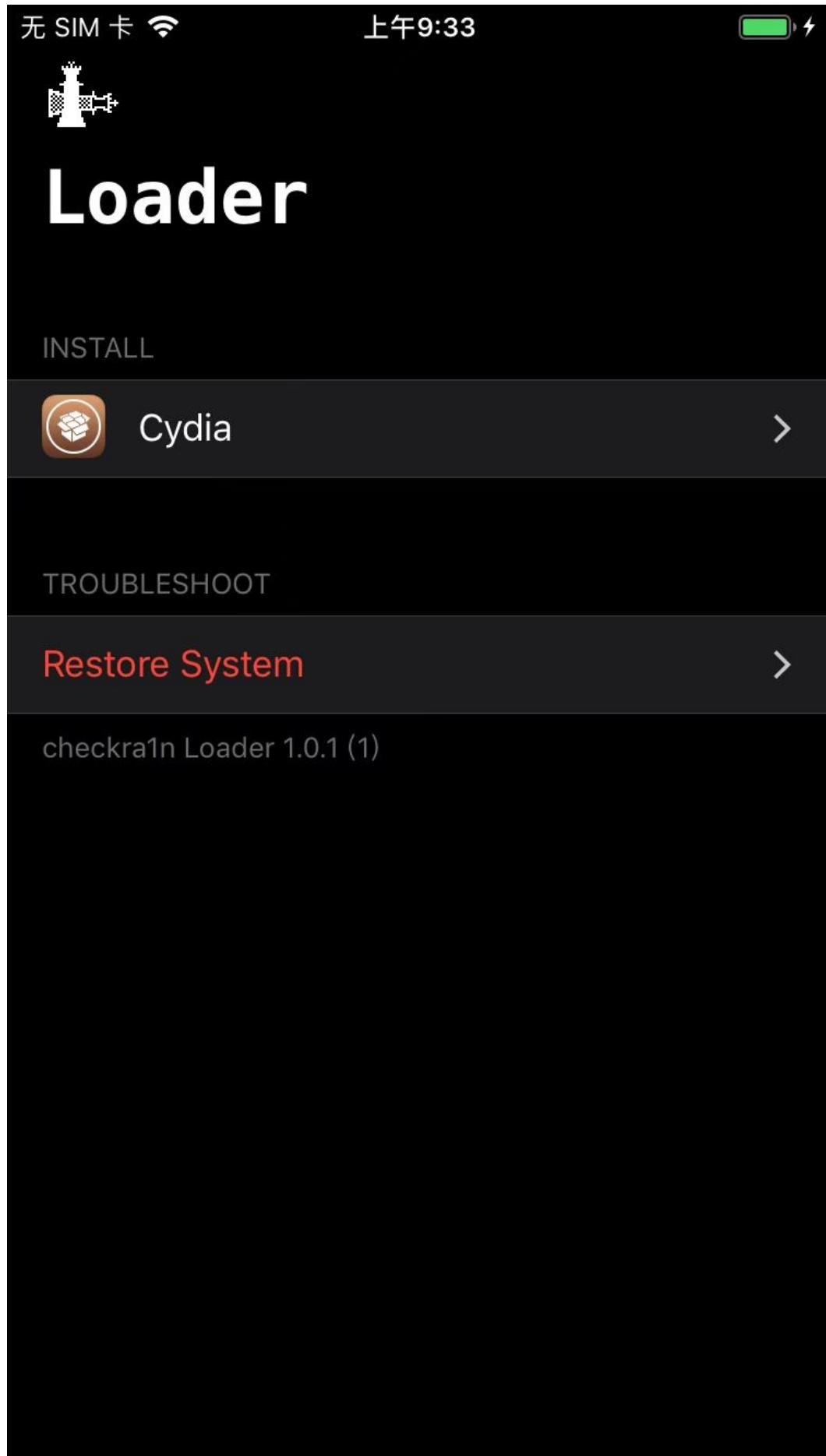
- 关于：Cydia

- 桌面上，正常也会出现Cydia的图标的

- 也是可以正常打开Cydia的

无 SIM 卡 🛜 ☀ 上午9:53

关于　　　　**Home**　　　重新加载

Find Extensions for Applications ⟩ 新

更多软件源 ⟩

用户指南

常见问题 ⟩

设备文件拷贝 ⟩

OpenSSH 访问教程 ⟩

Root 密码教程 ⟩

存储详情 ⟩

开发者专区

开发者常用资源 ⟩

致谢／感谢 ⟩

隐私政策 ⟩

iPhone7,2, iOS 12.5.7, Cydia64_1.1.38 (zh-cn)
9bad8d3c9530bd2fc62072c30ee3accf3cdc45d6

★ Cydia　　🗂 软件源　　🕐 变更　　⬇ 已安装　　🔍 搜索

安装Cydia

- checkra1n的app中安装Cydia
  - 概述
    - `checkra1n` -> `INSTALL` -> `cydia` -> `Install Cydia` ->iPhone桌面中出现安装好的 `Cydia`

详解：

checkra1n的app中安装Cydia

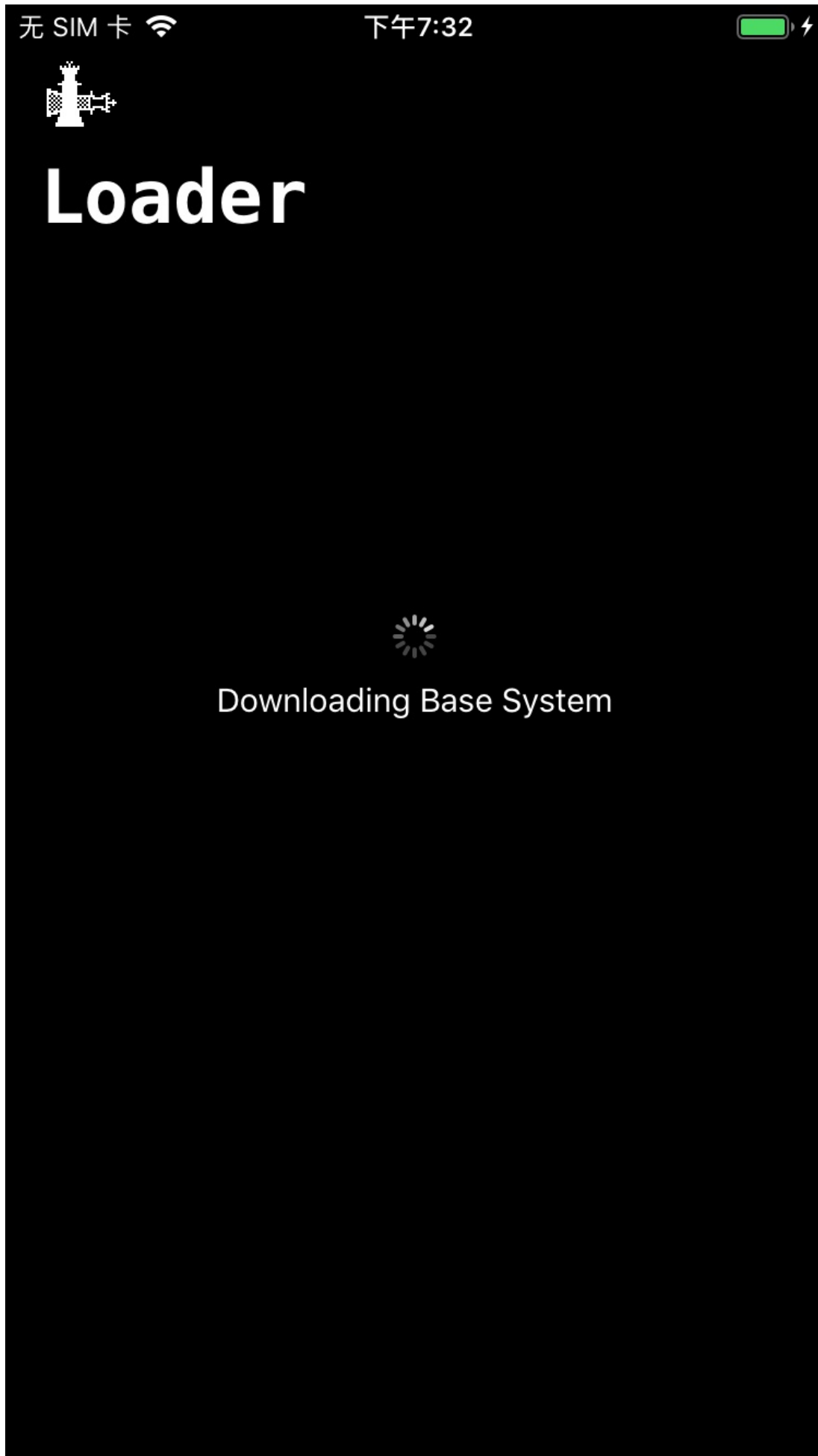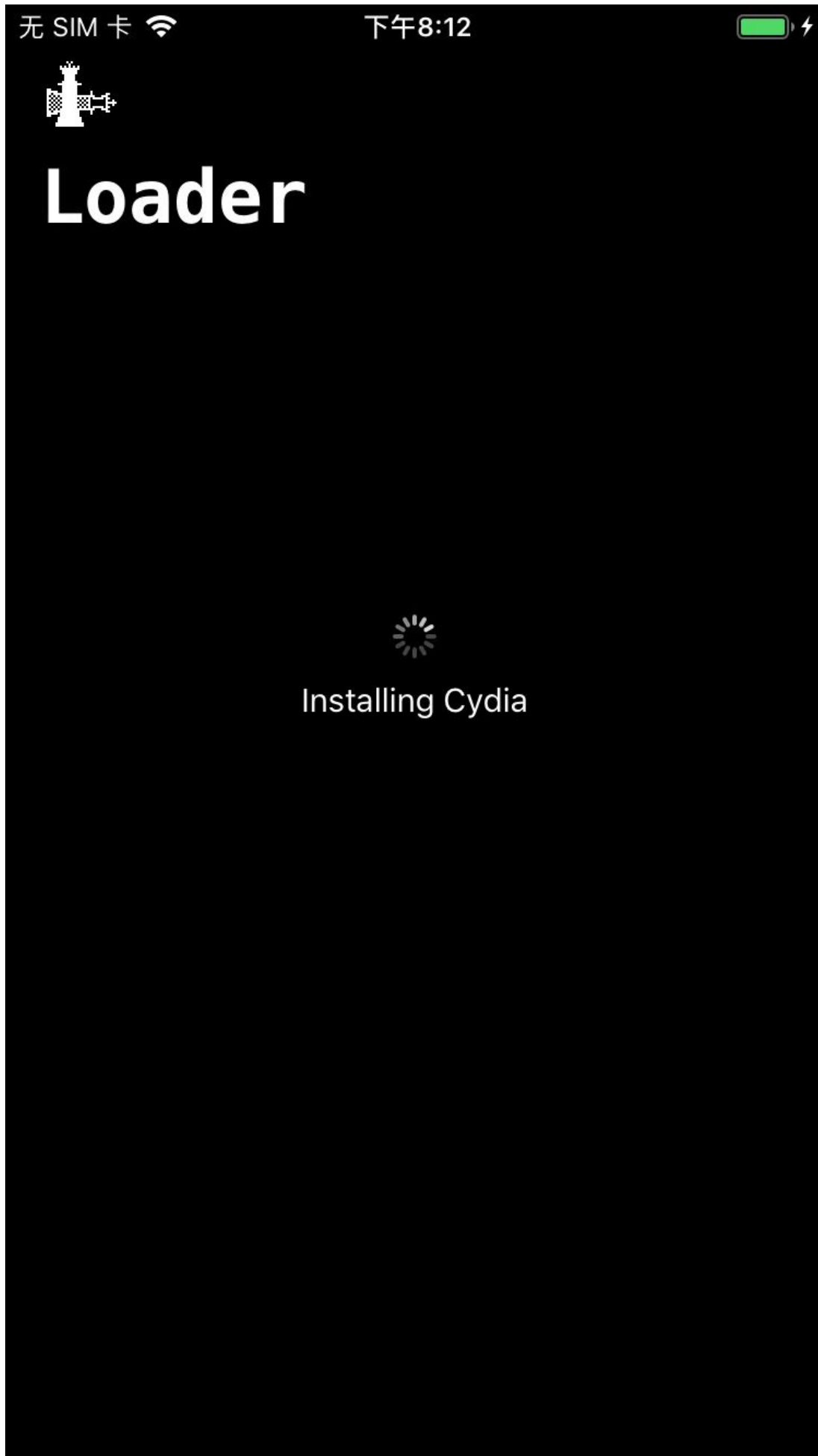用checkra1n越狱后，iPhone中打开checkra1n后，会看到：

Loader

INSTALL

Cydia ›

checkra1n Loader 1.0.1 (1)

点击 `INSTALL` -> `Cydia` ，弹框：

无 SIM 卡 下午7:32

Loader

INSTALL

Cydia 〉

checkra1n Loader 1.0.1 (1)

Install Cydia

Cancel
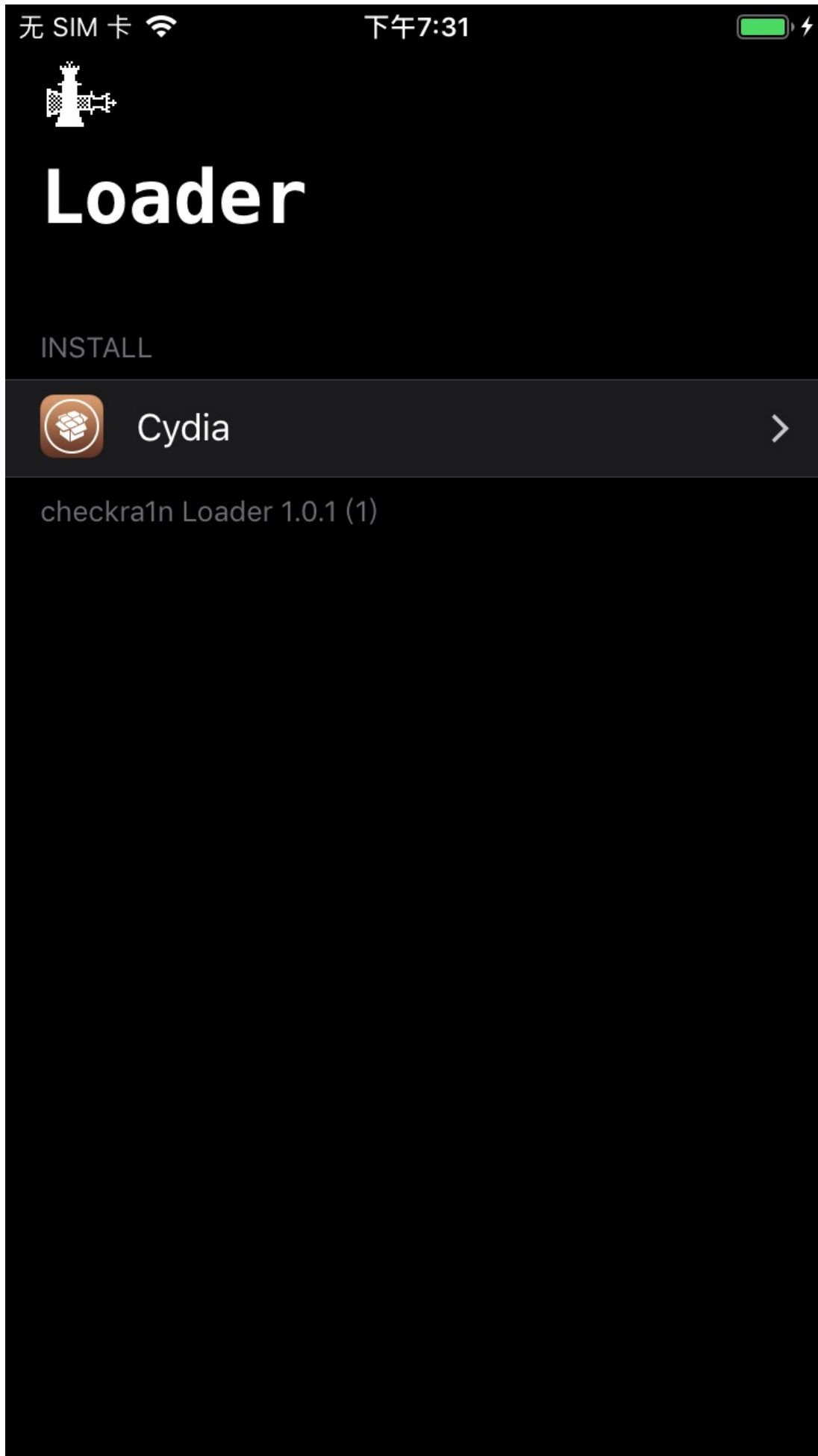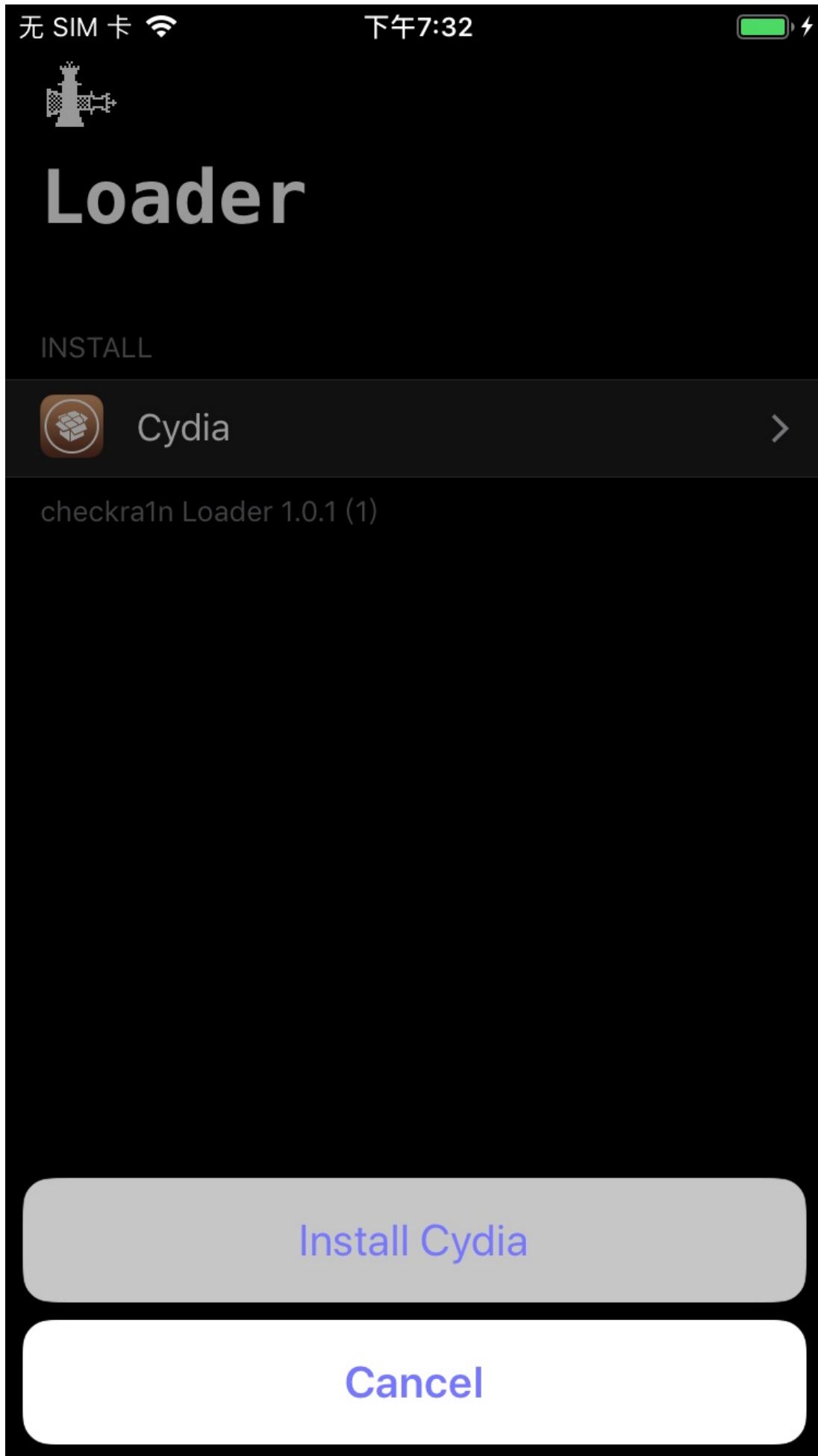
点击 `Install Cydia` ，开始安装:

```
Downloading Base System
```

无 SIM 卡 下午7:32

Loader

Downloading Base System

正常的话，即可继续顺利安装

```
Installing Cydia
```

无 SIM 卡 📶 下午8:12

Loader

Installing Cydia

最终安装好Cydia

然后桌面上即可看到Cydia的logo图标：

最终安装好Cydia

然后桌面上即可看到Cydia的logo图标：

打开即可正常看到Cydia的主页：

无 SIM 卡 📶 ⌇ 　　下午8:14　　 🔋⚡

关于　　　　　**主页**　　　　重新加载

欢迎使用 Cydia™
开发者：**Jay Freeman (saurik)**

| 🇫 Cydia ❯ | 🐦 saurik ❯ |
| 🌟 精选 ❯ | 🖥 主题 ❯ |

👤 管理帐户　　　　　　　　　❯

升级和越狱帮助　　　　　　　❯

Find Extensions for Applications　❯ 新

更多软件源　　　　　　　　　❯

用户指南

常见问题　　　　　　　　　　❯

设备文件拷贝　　　　　　　　❯

OpenSSH 访问教程　　　　　　❯

Root 密码教程　　　　　　　　❯

⭐ **Cydia**　　📦🔴 软件源　　🕐 7 变更　　📥 已安装　　🔍 搜索

无 SIM 卡 📶 ☀️　　　下午8:14　　　🔋⚡

关于　　　　　　主页　　　　重新加载

Find Extensions for Applications　　＞ 新

更多软件源　　　　　　　　　　＞

用户指南

常见问题　　　　　　　　　　＞

设备文件拷贝　　　　　　　　＞

OpenSSH 访问教程　　　　　　＞

Root 密码教程　　　　　　　　＞

存储详情　　　　　　　　　　＞

开发者专区

开发者常用资源　　　　　　　＞

致谢 / 感谢　　　　　　　　　＞

隐私政策　　　　　　　　　　＞

iPhone7,2, iOS 12.5.7, Cydia64_1.1.36 (zh-cn)
9bad8d3c9530bd2fc62072c30ee3accf3cdc45d6

⭐　　📦🔴　　🕐7　　📥　　🔍
Cydia　　软件源　　变更　　已安装　　搜索
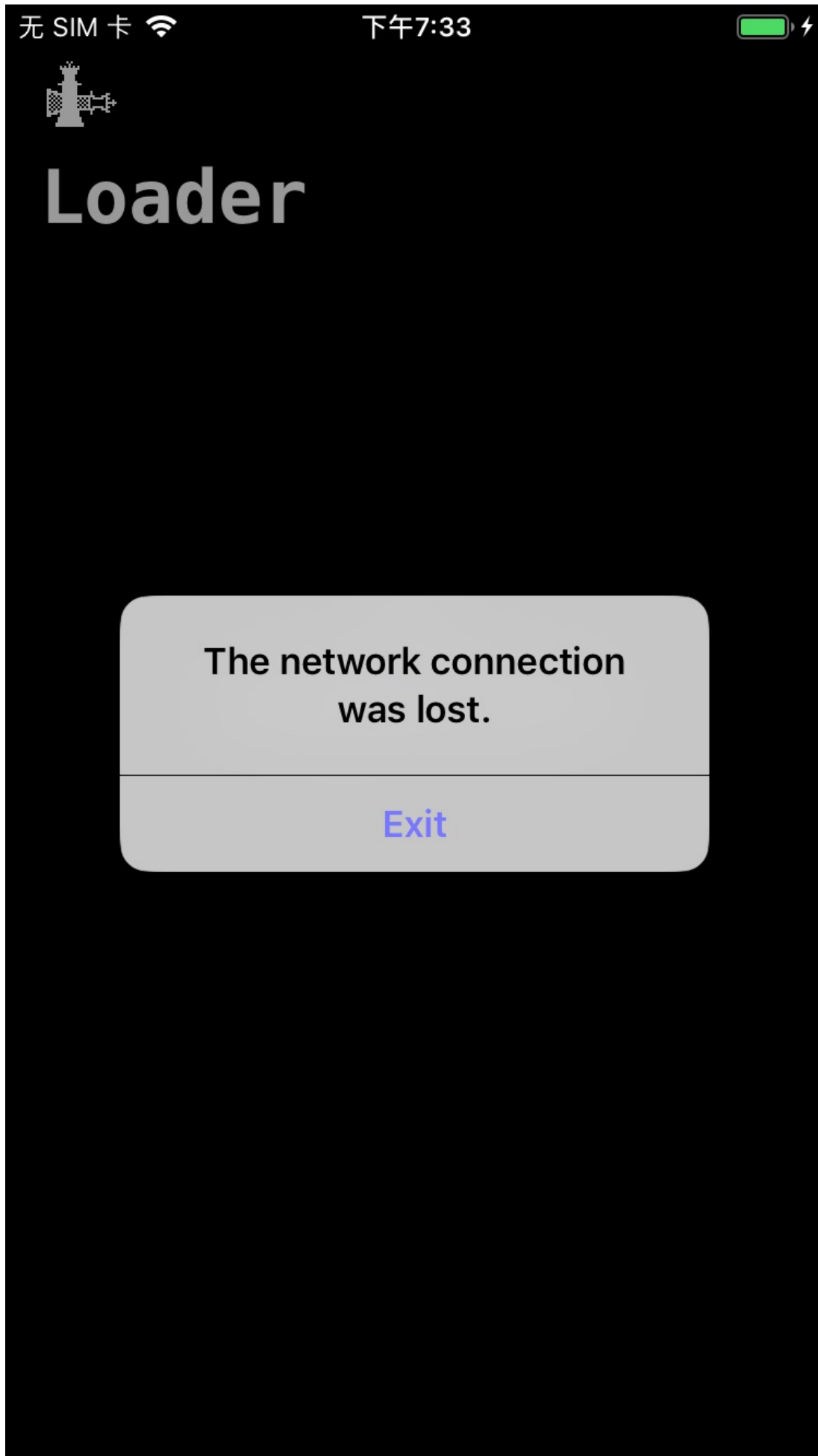
另外，再回来打开checkra1n，才会额外出现：`Restore System`

无 SIM 卡 下午3:13

Loader

INSTALL

Cydia >

TROUBLESHOOT

Restore System >

checkra1n Loader 1.0.1 (1)
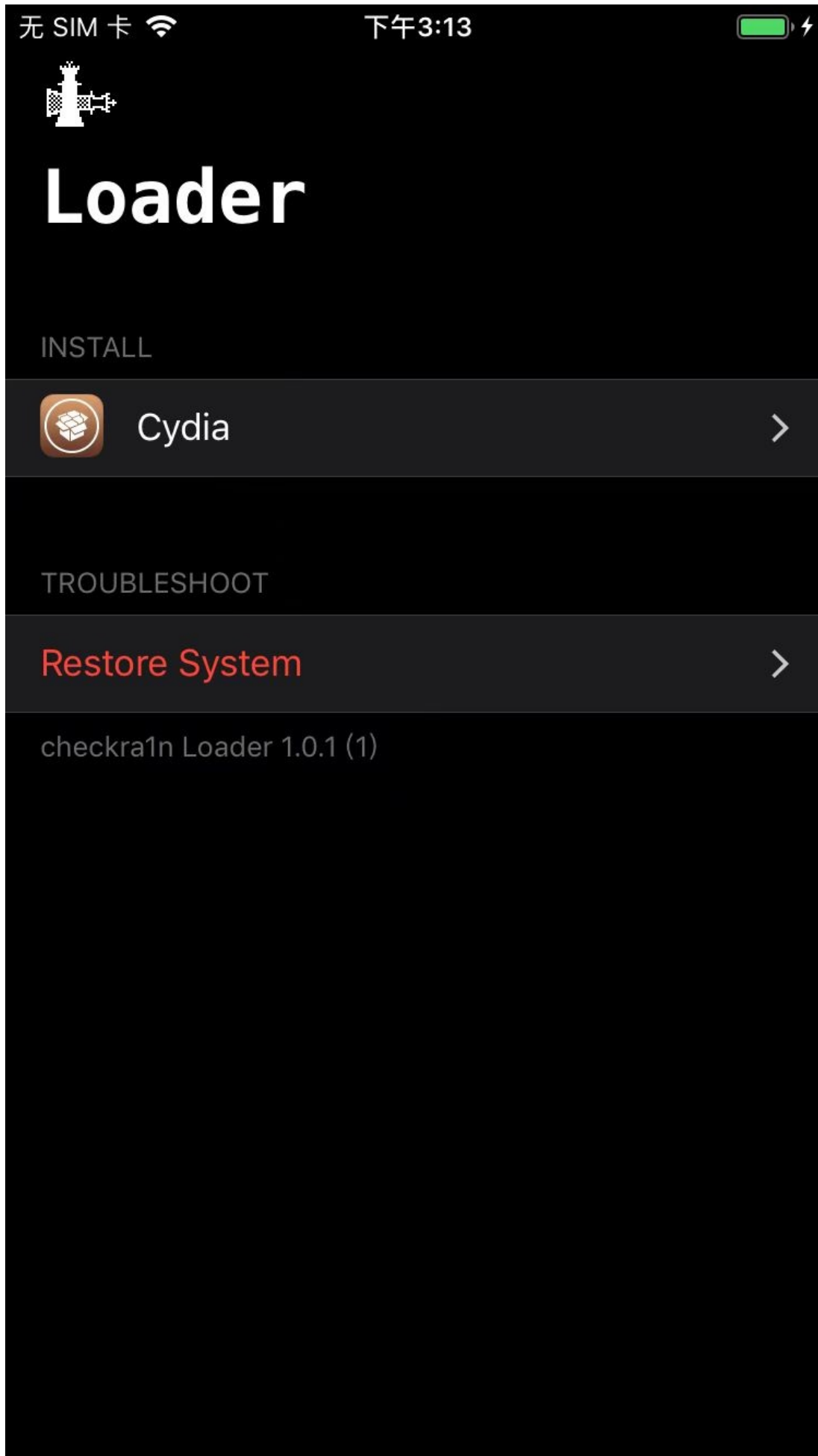
常见问题

checkra1n中安装cydia报错：The network connection was lost

- 现象

有时候会遇到，checkra1n安装Cydia期间，弹框报错：

```
The network connection was lost
Exit
```

无 SIM 卡 🛜　　　下午7:33　　　🔋 ⚡

Loader

The network connection was lost.

Exit

或其他类似的错误:

```
The operation couldn't be completed. Software caused connection abort
Exit
```

或其他类似的错误:

```
The operation couldn't be completed. Software caused connection abort
Exit
```

无 SIM 卡   下午7:54

Loader

The operation couldn't be completed. Software caused connection abort
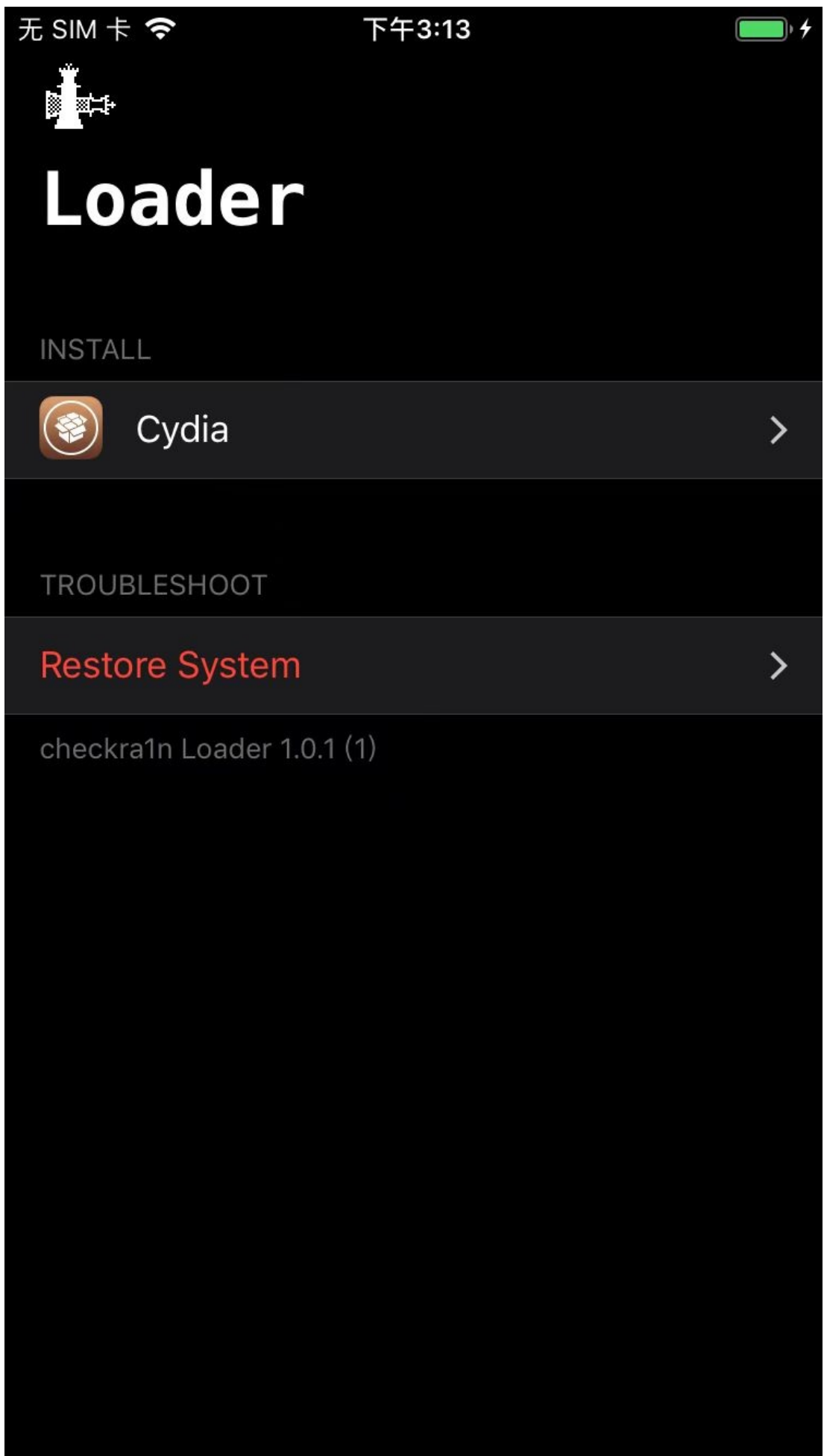
Exit
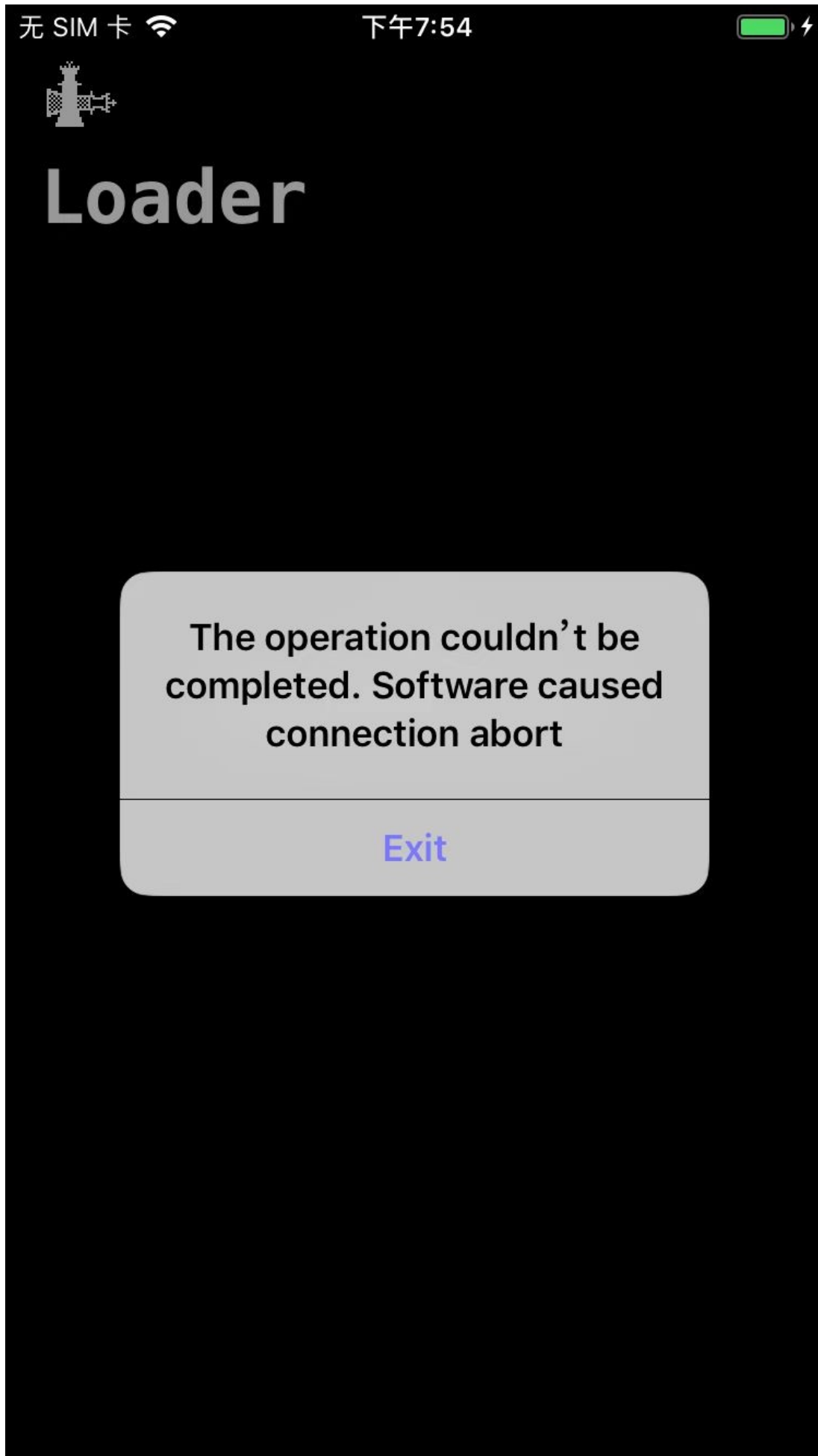
- 原因：网络偶尔异常
- 解决办法：多试几次
  - 万一不行，想办法翻墙试试

checkra1n的app使用

Restore System

checkra1n中有个功能：

- `Restore System`
  - 作用
   - `还原系统` ==卸载checkra1n的越狱（和之前相关的内容，比如之前已安装的Cydia等）
  - 界面
    -

无 SIM 卡 📶 　　　下午3:13　　　🔋 ⚡

Loader

INSTALL

| 🟫 Cydia | > |

TROUBLESHOOT

Restore System >

checkra1n Loader 1.0.1 (1)

点击 `Restore System` ，会出现弹框：
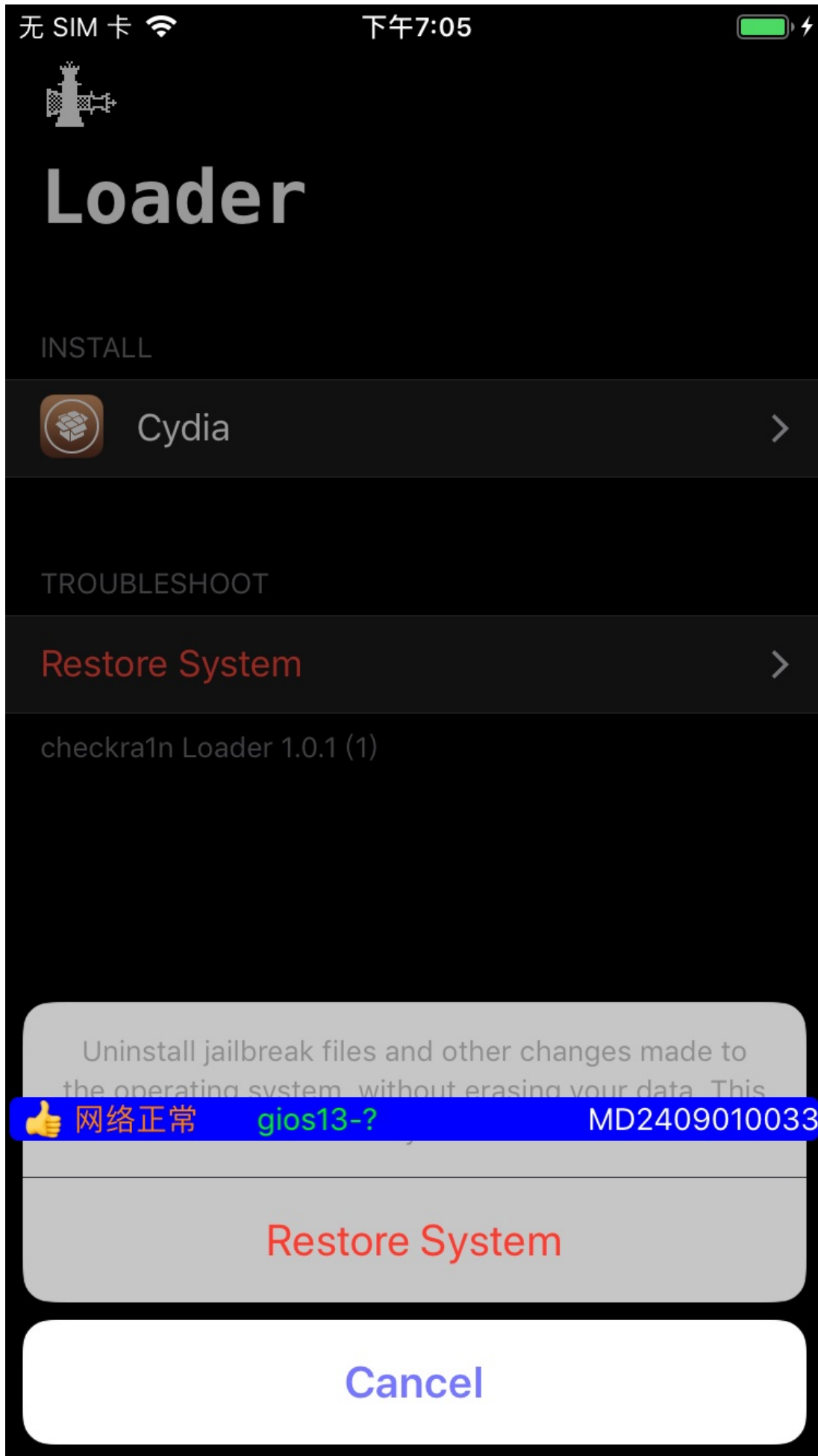
无 SIM 卡 📶　　　下午7:05　　　🔋⚡

Loader

INSTALL

🗃 Cydia ＞

TROUBLESHOOT

Restore System ＞

checkra1n Loader 1.0.1 (1)

Uninstall jailbreak files and other changes made to
the operating system, without erasing your data. This

👍 网络正常　　gios13-?　　MD2409010033

Restore System

Cancel

继续点击弹框中的 `Restore System`

最后可以还原iPhone内容：此处至少是，卸载了checkra1n和之前已安装的Cydia：

继续点击弹框中的 `Restore System`

最后可以还原iPhone内容：此处至少是，卸载了checkra1n和之前已安装的Cydia：

无 SIM 卡

下午7:08

提示　　播客　　查找 iPhone　　查找朋友

通讯录　　文件　　Watch　　工具

爱思极速版
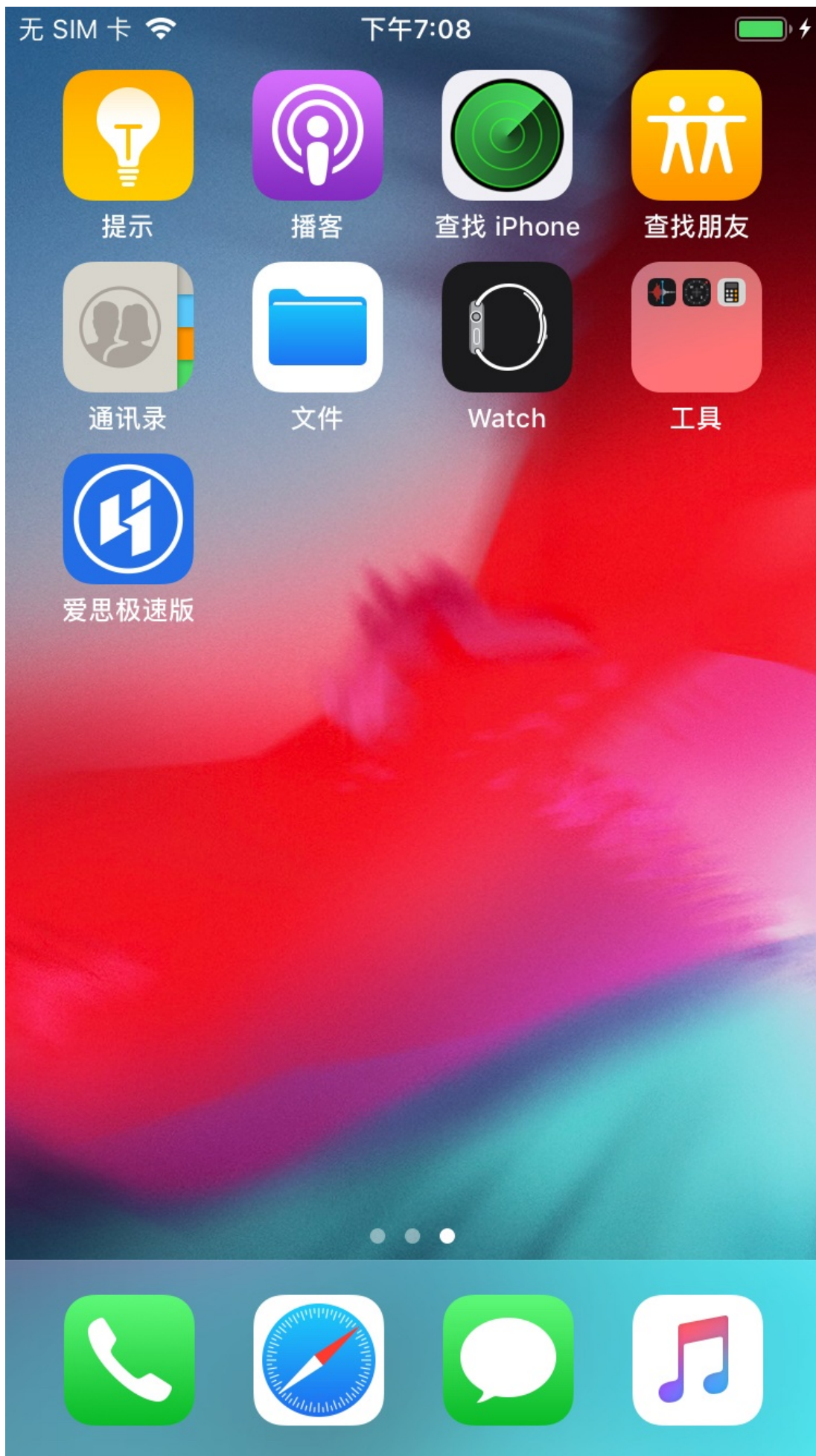
子教程

当前教程主要介绍，普通的iPhone越狱的内容，关于更新版的 `iOS 15+` 的越狱，详见：

- 子教程
  - iOS逆向：iOS15越狱

附录

下面列出相关参考资料。

参考资料

- 【已解决】iOS的半越狱和全越狱
- 【记录】给丢失越狱的iPhone6去用checkra1n恢复越狱
- 【未解决】Mac中用checkra1n给iPhone6越狱失败：始终报错retry
- 【记录】试试另外一个编号122的iPhone6的还原和重新越狱
- 【记录】iPhone6越狱后checkra1n中去安装Cydia
- 【已解决】iPhone6中checkra1n中安装cydia报错：The network connection was lost
- 【未解决】Mac中用checkra1n给iOS12.5.7的iPhone6越狱
- 【记录】给丢失越狱的iPhone6去用checkra1n恢复越狱
- 【记录】旧Mac中用checkra1n给编号121的iPhone6去越狱
- 【已解决】Mac中给iOS 12.4.5的iPhone6中安装checkra1n
- 【研究】用unc0ver越狱iOS 13的iPhone
- 【已解决】Mac中用checkra1n越狱iOS 12.4.5的iPhone6
- 【已解决】iPhone6中用checkra1n安装Cydia
- 【记录】iPhone6越狱后用checkra1n去restore还原系统
- 【已解决】iPhone中用unc0ver去给iOS越狱
- 【记录】unc0ver越狱iPhone7的完整log日志
- 【已解决】用Mac版爱思助手给iOS13的iPhone7越狱
- 【未解决】Mac M2 Max中用爱思助手中unc0ver给iOS12.5.7的iPhone6越狱：一键越狱窗口突然消失 越狱失败
- 【已解决】iOS14.3的iPhone8：用unc0ver重新恢复越狱
- 【已解决】Mac中用Sideloadly去给iPhone6安装unc0ver
- 【记录】iOS12.5.7的iPhone6中用unc0ver去恢复越狱
- 【记录】用unc0ver重新恢复越狱后的iPhone中的效果
- 【记录】用unc0ver越狱后的iPhone8中的app情况
- 【已解决】给用unc0ver越狱的iPhone7恢复越狱状态
- 【记录】用unc0ver还原卸载越狱环境
- 【已解决】iOS14.3的iPhone8：运行unc0ver执行越狱过程
- 【整理】用checkra1n给iPhone6越狱心得
-
- Help ! USB Error (Error code: -10) : r/checkra1n
- [Question] Can't install Cydia on Chinese iPhone 8 Plus after jailbreaking with Checkra1n. I'm getting "The network connection was lost" error when I try to install Cydia using the checkra1n app. : r/jailbreak (reddit.com)
- 使用checkra1n越狱后cydia无法安装解决办法_哔哩哔哩_bilibili
- Checkra1n 快速安装 cydia（应网友要求制作）_哔哩哔哩_bilibili
- 苹果新越狱工具Checkra1n详细安装教程-CSDN博客
- {TUTORIAL} How To Fix No CheckRa1n App After Jailbreak · Issue #1830 · checkra1n/BugTracker (github.com)
- [Question]Checkra1n not installing cydia : r/jailbreak (reddit.com)
- [Question] Cydia Install Fails with Checkra1n : r/jailbreak (reddit.com)
- Checkra1n Loader Crashing When Installing Cydia After Jailbreak? Here's How To Fix It | Redmond Pie

- Cydia Download iOS 18.1, 17.7.1, 16.7.10, 15.8.3 and 12.5.7 Versions [Cydia Free]
- Cydia Download for Any iOS Version (cydiafree.com)
- Here's how to easily fix common Checkra1n jailbreak tool issues (valuewalk.com)
- [Help/Support] Cydia Problem With Checkra1n - Help & Support - iOSGods
- 通过 checkra1n 安装 cydia 报错 check_snapshot_error_code:General_check snapshot error code-CSDN博客
- 由Cydia转换至Sileo过程记录. iPad Pro 2 使用 checkra1n 越狱后安装了… | by iOS Jailbreak Notes | Medium
- https://github.com/raspberryenvoie/odysseyn1x/tree/master
- https://www.cydiafree.com/unsupported.htm
- Cydia 2 – Install Cydia for All iOS Versions
- How to Install Cydia (with Pictures) - wikiHow
- Cydia Cloud | Cydia Download on all iOS version (No Jailbreak Needed)
- [Help] Every version of Unc0ver is 'Unsupported'? : r/jailbreak
- unc0ver 5 and iOS 12.4.7 | MacRumors Forums
-