iOS SQLCipher SQLite加密 详解

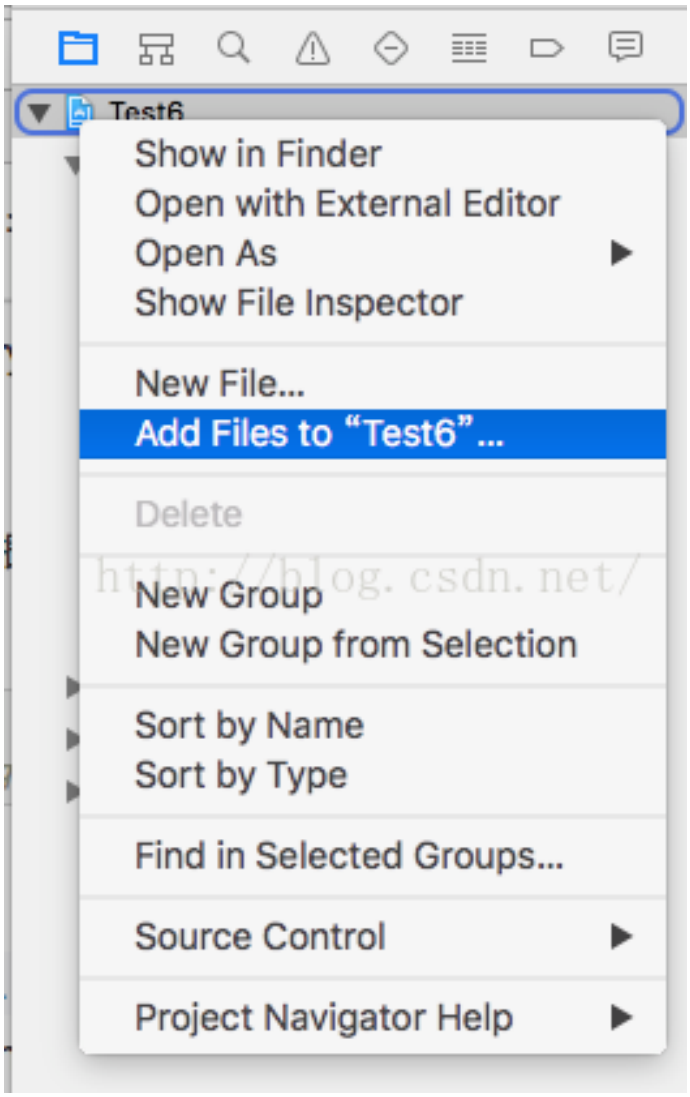
标签： IOSsqlite加密
2016-09-01 09:29 669人阅读 评论(0) 收藏 举报

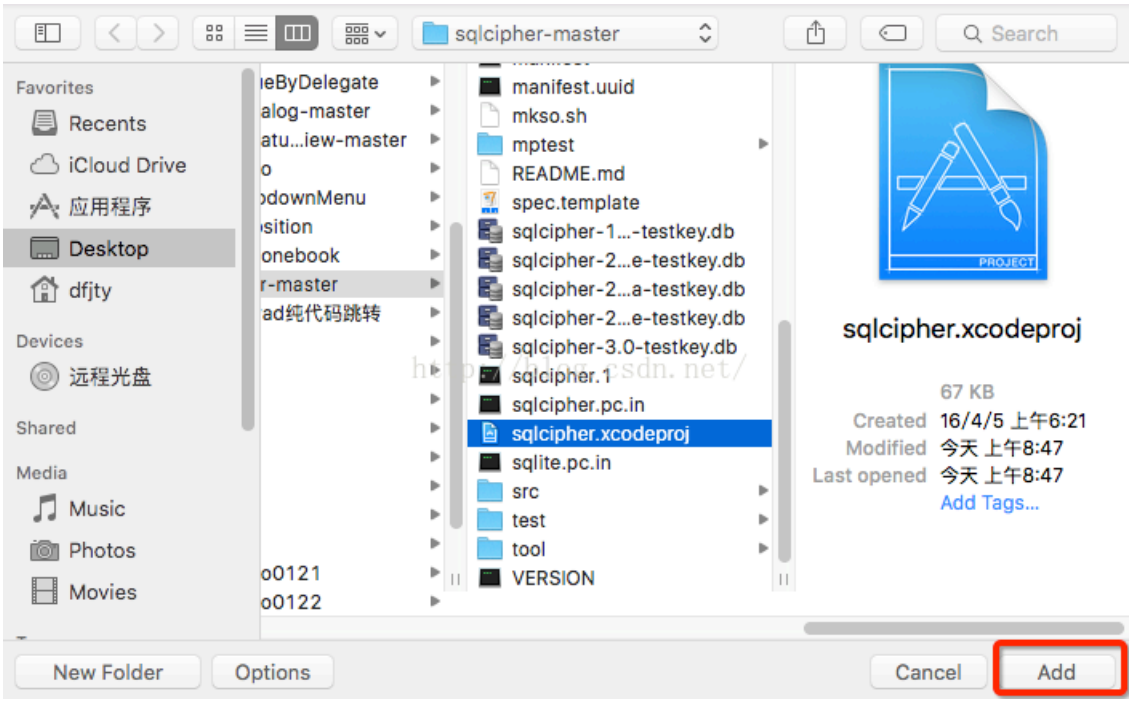
分类：
IOS（28）

官方集成文档：https://www.zetetic.net/sqlcipher/ios-tutorial/

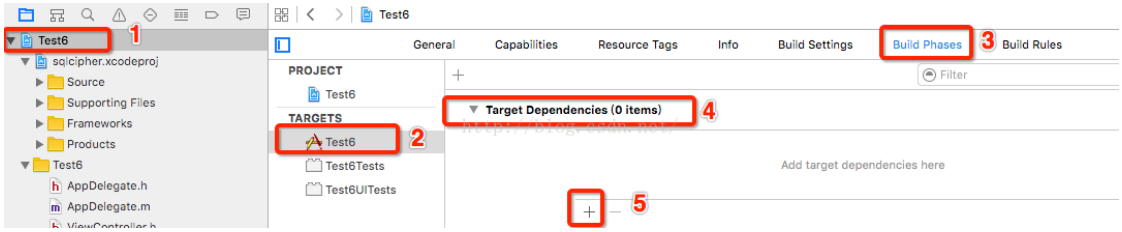
从GitHub下载 SQLCipher到本地：https://github.com/sqlcipher/sqlcipher

1> 选择你的项目，右键，选择 "Add Files to [你的工程]"；在弹出的选择窗口找到你刚才从git下载的sqlcipher路径，打开sqlcipher文件夹，选择sqlcipher.xcodeproj

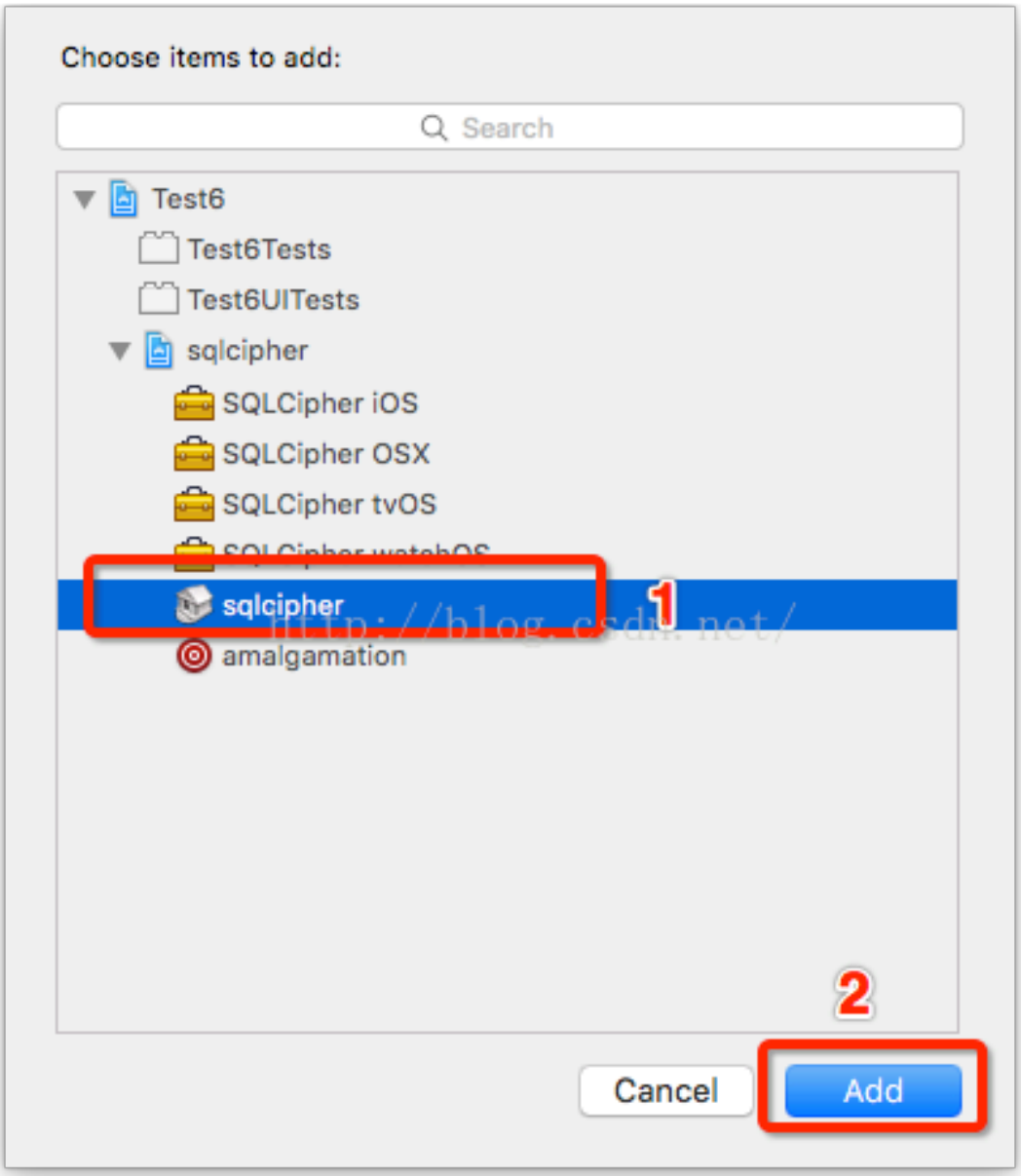

Test6
Show in Finder
Open with External Editor
Open As
Show File Inspector
New File...
Add Files to “Test6”...
Delete
New Group
New Group from Selection
Sort by Name
Sort by Type
Find in Selected Groups...
Source Control
Project Navigator Help



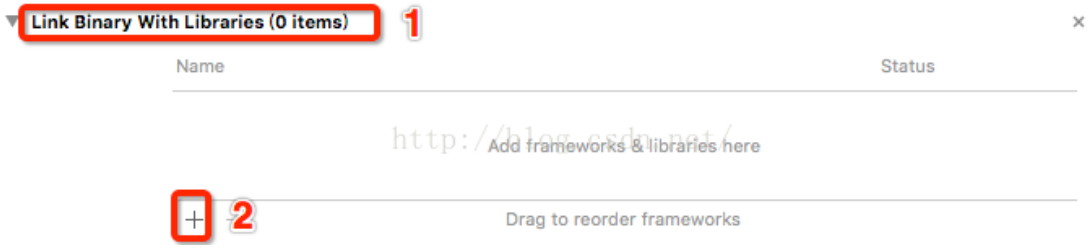
2> 点击工程，选择TARGETS中你的工程，点击 Build Phases Tab 栏，展开 Target Dependencies 点击 +



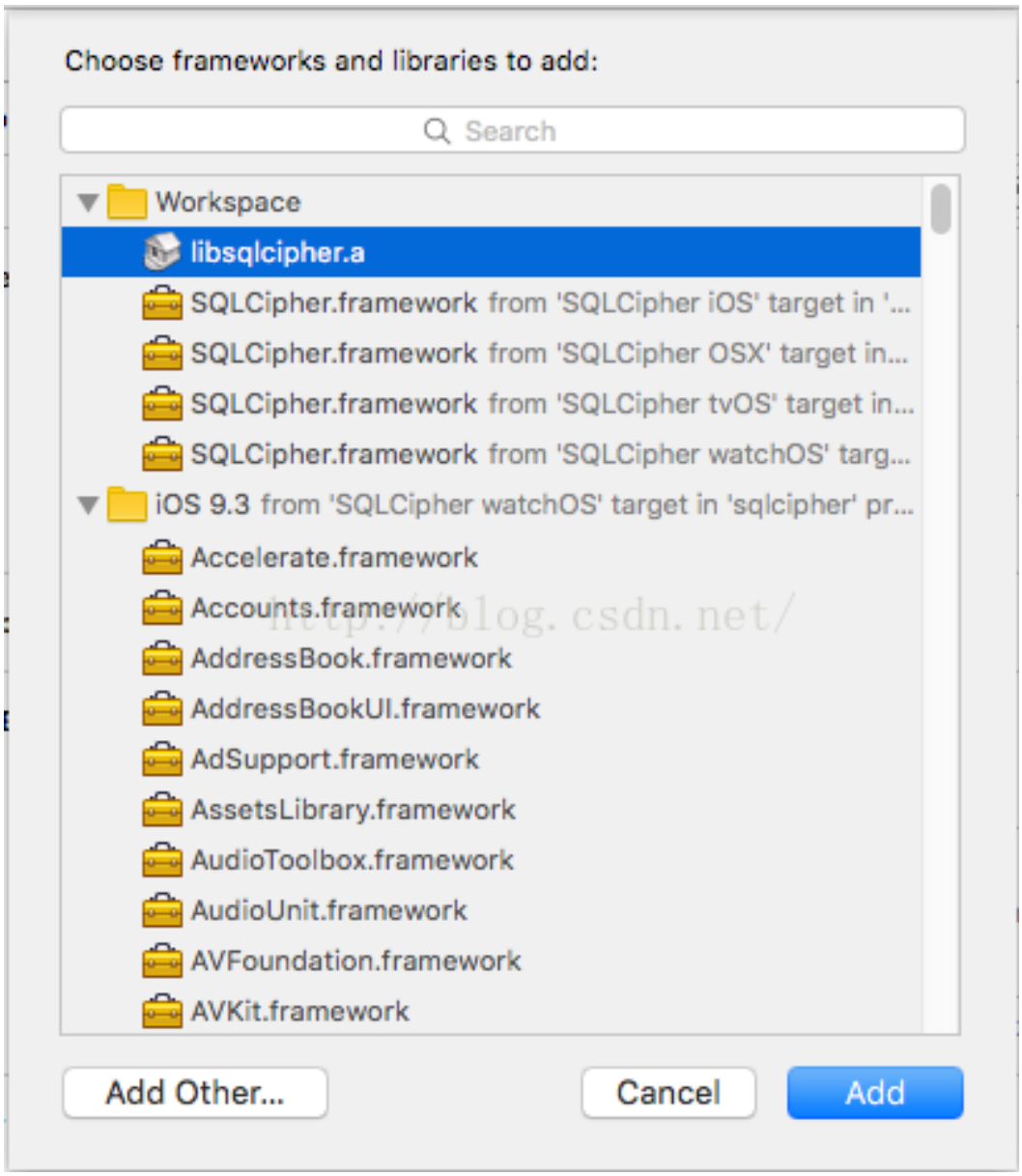
3> 添加 sqlcipher 静态库



4> 展开Link Binary With Libraries

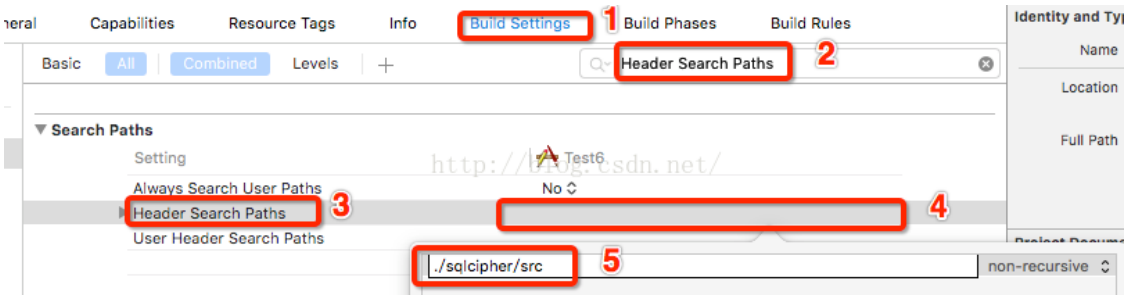


5> 添加+libsqlcipher.a库

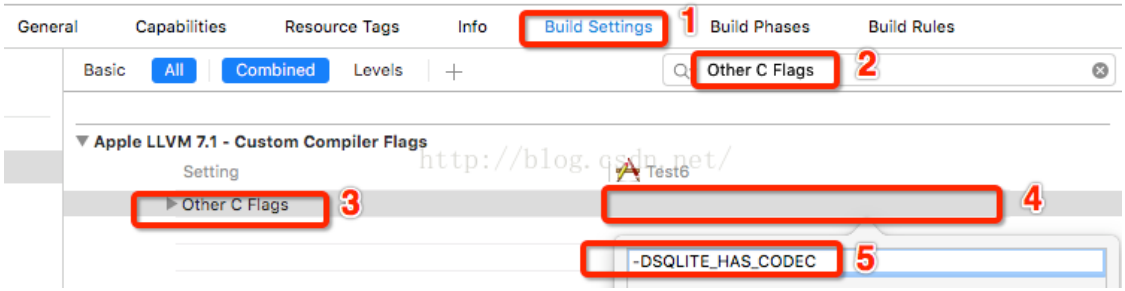


注：如果你的工程库中已经添加了 libsqlite3.dylib 或者其他的SQLite库，请Remove掉，否则可能会提示出现重复sqlite库

6> 回到你的工程编辑面板，选择工程，TARGETS 你的工程Target，Build Settings Tab栏，选择 Header Search Paths 项，双击键入新值： ./sqlcipher/src



7> 选择 Other C Flags， 双击 添加 -DSQLITE_HAS_CODEC



注：Release 和 Debug的配置值一样

现在就可以直接使用 sqlite3 加密数据库

如代码：

```
#import "AppDelegate.h"
#import <sqlite3.h>

@interface AppDelegate ()

@property (nonatomic) BOOL isLoginViewControllerDisplayed;
@property (readonly) NSURL *databaseURL;
@property (readonly) BOOL databaseExists;

@end

@implementation AppDelegate

@dynamic databaseURL;
@dynamic databaseExists;

- (BOOL)application:(UIApplication *)application
didFinishLaunchingWithOptions:(NSDictionary *)launchOptions
{
    // Override point for customization after application launch.
```

```
    // Set up a SQLCipher database connection:
    sqlite3 *db;
    if (sqlite3_open([[self.databaseURL path] UTF8String], &db) ==
SQLITE_OK)
    {
        const char* key = [@"StrongPassword" UTF8String];
        sqlite3_key(db, key, (int)strlen(key));
        if (sqlite3_exec(db, (const char*) "SELECT count(*) FROM
sqlite_master;", NULL, NULL, NULL) == SQLITE_OK)
        {
            NSLog(@"Password is correct, or a new database has been
initialized");
        }
        else
        {
            NSLog(@"Incorrect password!");
        }
        sqlite3_close(db);
    }
    return YES;
}

- (NSURL *)databaseURL
{
    NSArray *URLs = [[NSFileManager defaultManager]
URLsForDirectory:NSDocumentDirectory
inDomains:NSUserDomainMask];
    NSURL *directoryURL = [URLs firstObject];
    NSURL *databaseURL = [directoryURL
URLByAppendingPathComponent:@"secure.db"];
    return  databaseURL;
}

- (BOOL)databaseExists
{
    BOOL exists = NO;
    NSError *error = nil;
    exists = [[self databaseURL]
```

```
checkResourceIsReachableAndReturnError:&error];
    if (exists == NO && error != nil)
    {
        NSLog(@"Error checking availability of database file: %@",
error);
    }
    return exists;
}
@end
```

运行工程出现，如下日志表示运行成功

上一篇
GitHub 出现 POST git-receive-pack (chunked) 解决方案详解
下一篇
OpenSSL生成证书进行iOS加密，java解密的RSA非对称加密 详

解