



# **iOS Reverse Engineering**

GovTech Brownbag

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# Side-loading Modified Application

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Explore how it is possible to side-load a modified application binary from the AppStore.

DIFFICULTY



ESTIMATED TIME

**10 Minutes**

## Exercise Summary

- Install apps outside of Apple app store
- Side loading is possible in iOS devices

## Background

In this example, we will be showing how re-signed applications can be sideloaded into the phone. This technique allows anyone to modify an original application's binary and sideload it onto any device. One of the main reasons for sideloading is because in iOS security, installation of non-official apps is a critical step for security research. The aim of this exercise is to allow you to be less dependent on automated tools like Cydia Impactor/ReProvision. We will be using the following material in this exercise:

- [frida-ios-dump](#)
- Xcode
- iOS-deploy

An example of a sideloaded (re-signed) app that has been modified

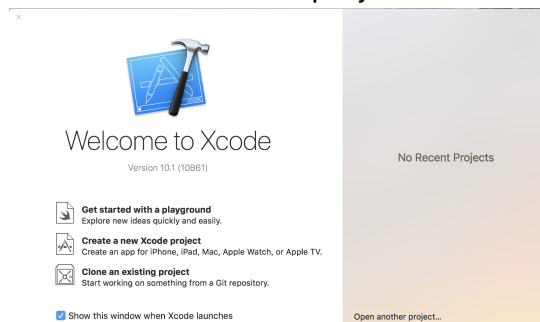
# Sideloaded Exercise

In this exercise, we will be referencing an application named Helix, this detailed step-by-step instruction guide is by courtesy of our friendly colleague from GovTech Eileen Tay.

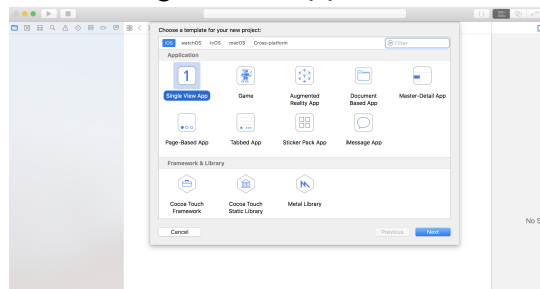
## Setting Up & Deploying Blank App

1. Create an empty base app with a free apple developer account.

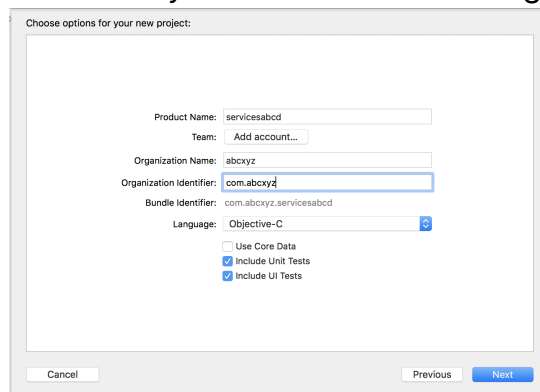
1. Create a new Xcode project



2. Select Single View App for iOS



3. Add dummy names like the following



4. Add Developer account

