Steps to create an .ipa file from Xcode
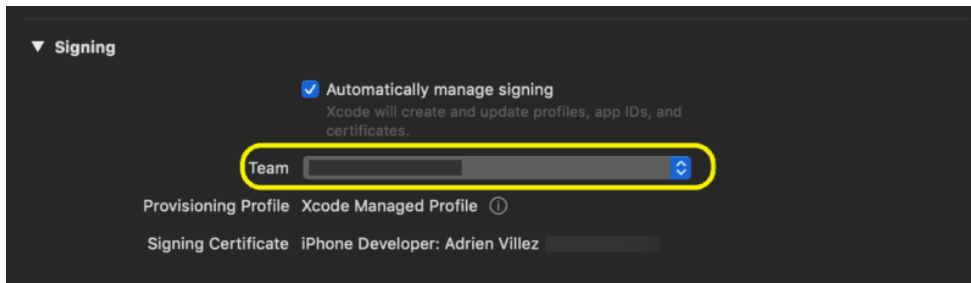
[Ref:
https://stackoverflow.com/questions/5499125/how-to-create-ipa-file-using-xcode &&
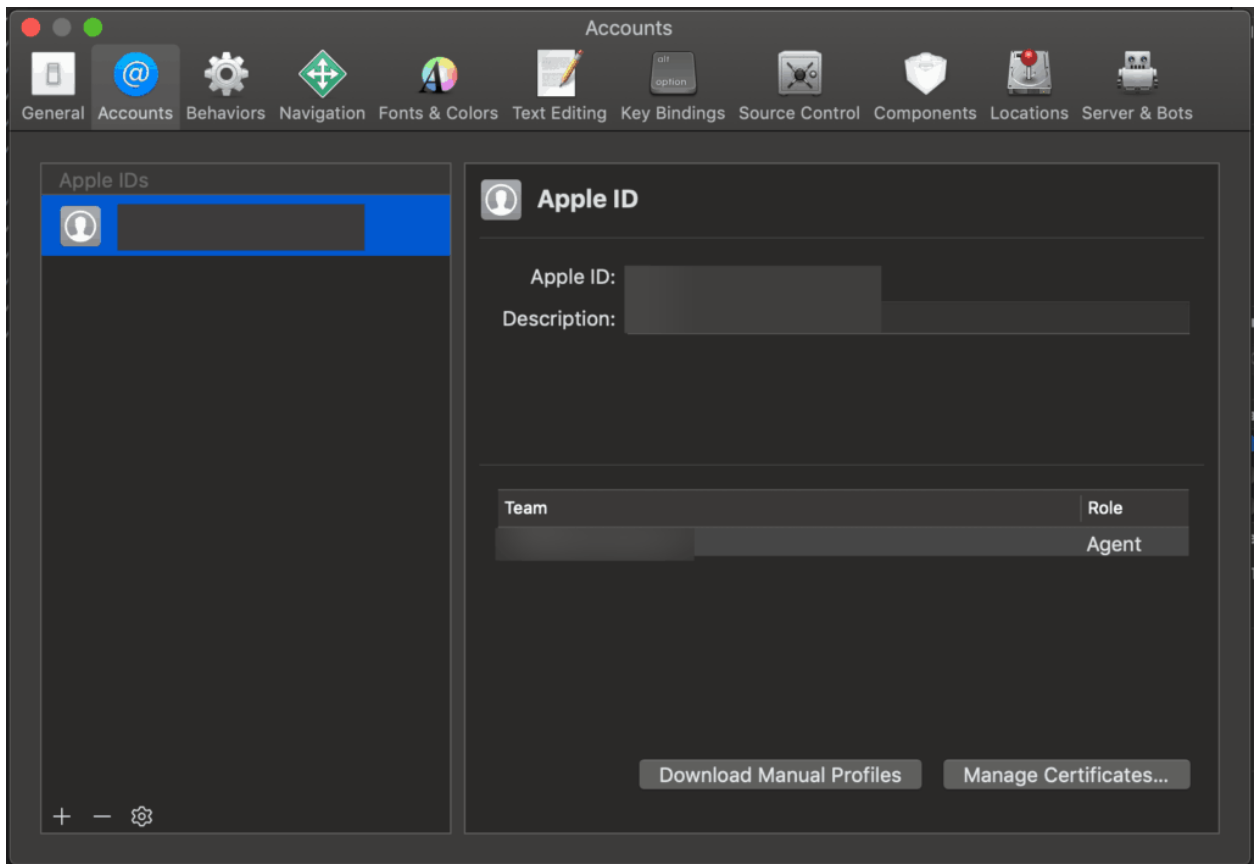https://codewithchris.com/deploy-your-app-on-an-iphone/]

1. Connect your iphone/ipad/ios device to your Macbook

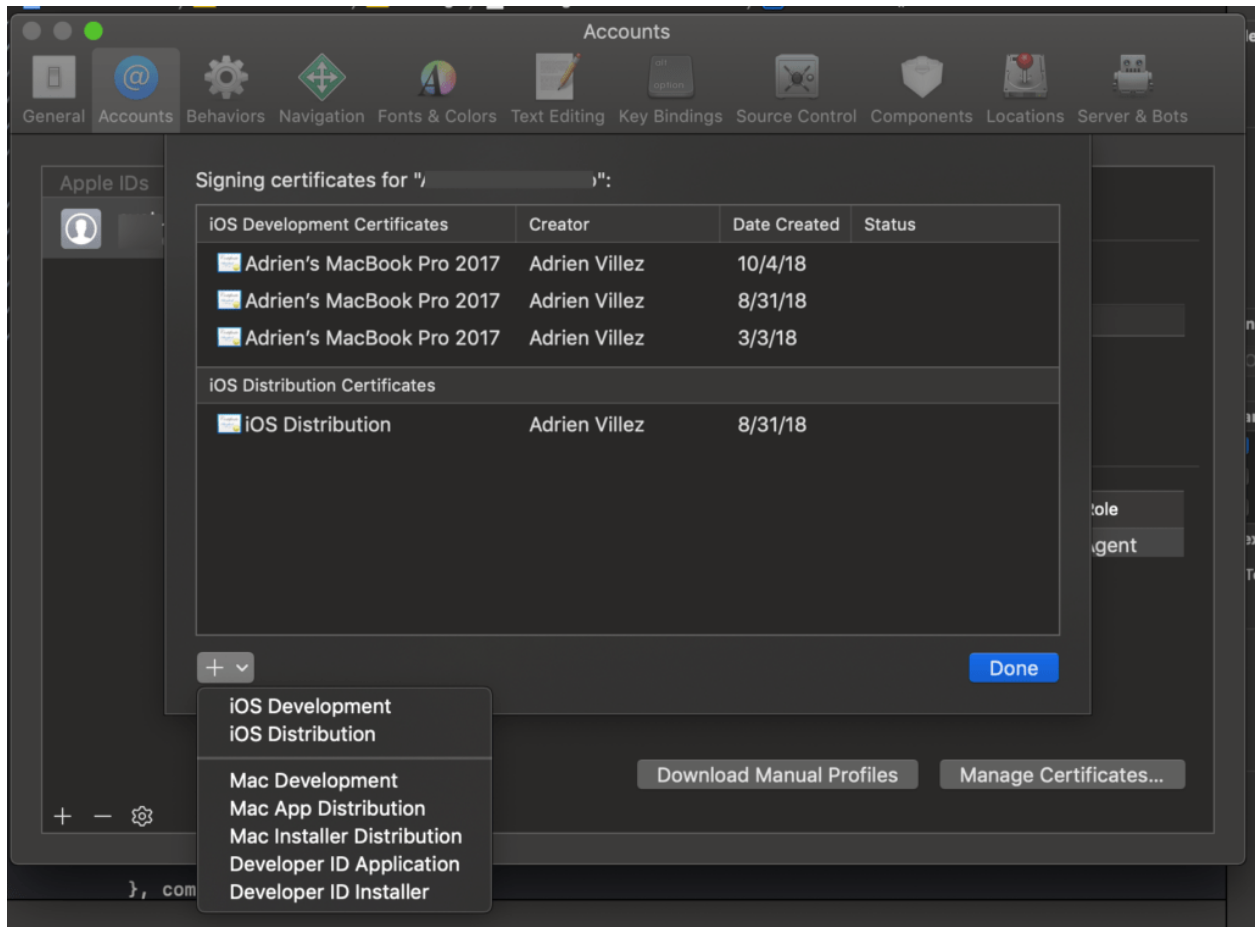2. Add the apple id in the **Preference -> Signing & Capabilities**

3. Click on **Add an Account** in **Team**
4. Then go to the "Accounts" tab. Fill in your Apple iOS developer account details here
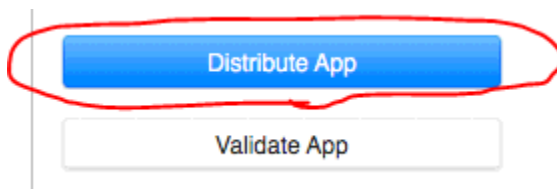

5. Once you're signed in, click "Manage Certificate" and you'll get to this panel where you can see your existing certificates and provisioning profiles

6. If you click the "+" icon below the certificates pane, you can request a new iOS Development Certificate

7. Go to **Product -> Archive**
8. Once the archive is finished, Go to **Window -> Organizer**
9. Then select your app archive from archives
10. Then click the "Distribute App" button on right panel

5. Then follow the below steps

For designated device

Select a method of distribution:

○ App Store Connect
Distribute on TestFlight and the App Store.

● Ad Hoc
Install on designated devices.

○ Enterprise
Distribute to your organization.

○ Development
Distribute to members of your team.

?

Cancel   Previous   Next

Distribution manifest information:

Users can download your app over the web by opening your distribution manifest file in a web browser.

Name: App
App URL: https://www.google.com
Display Image URL: https://www.google.com
Full Size Image URL: https://www.google.com

A 512-by-512-pixel PNG image that represents the app in iTunes.

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Cancel   Previous   Next

For App store:

Select a method of distribution:

○ iOS App Store
  Distribute through the App Store.

○ Ad Hoc
  Install on designated devices.

○ Enterprise
  Distribute to your organization.

○ Development
  Distribute to members of your team.

?

Cancel   Previous   Next

Select a destination:

○ Upload
  Send app to App Store Connect.

○ Export
  Sign and export without uploading.

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Cancel   Previous   Next

App Store distribution options:

☑ **Upload your app's symbols to receive symbolicated reports from Apple**
Crash logs and other diagnostic information from your customers will be
symbolicated and viewable within Xcode.

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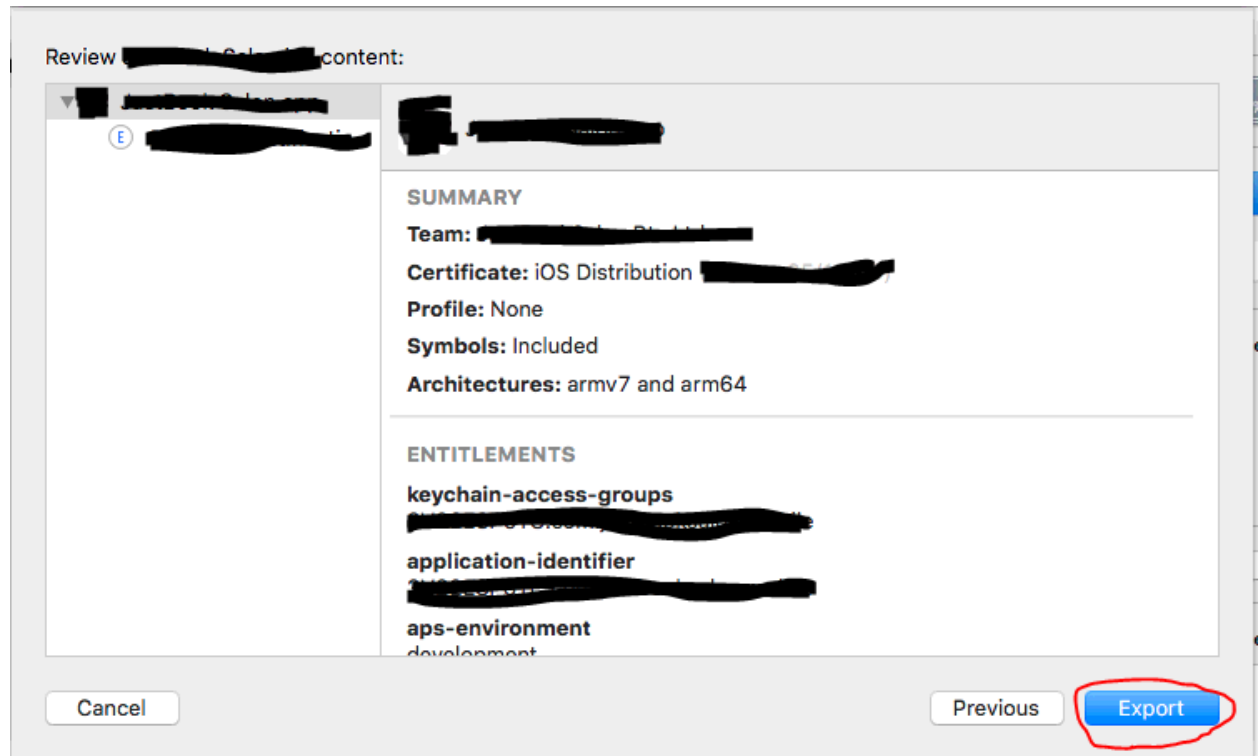Cancel   Previous   **Next**

Re-sign '▇▇▇▇▇▇▇▇':

"▇▇▇▇▇▇▇" needs to be re-signed for App Store distribution. Select one of the following signing options
to continue.

🔵 **Automatically manage signing**
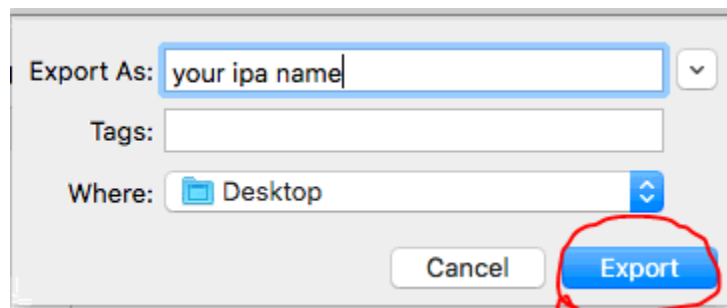Xcode will create and update profiles, app IDs, and certificates.

⚪ **Manually manage signing**
Select certificates and profiles from your team.

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Cancel   Previous   **Next**
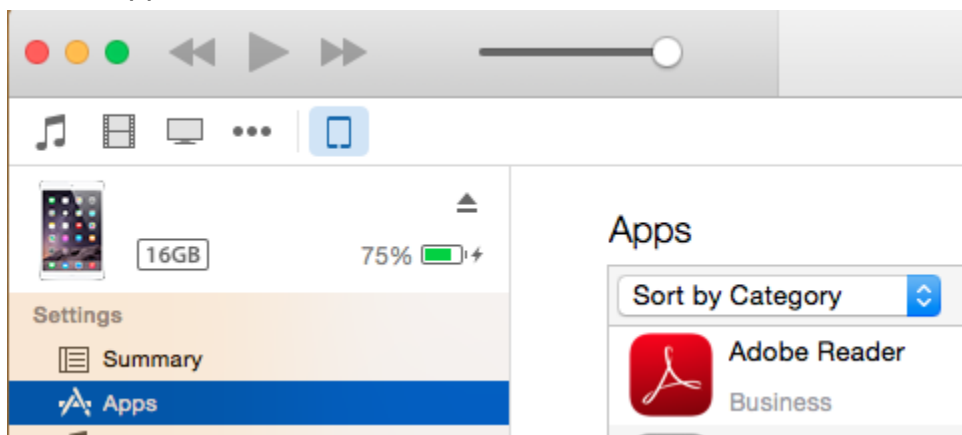
Review [ ] content:

SUMMARY

Team: [ ]
Certificate: iOS Distribution [ ]
Profile: None
Symbols: Included
Architectures: armv7 and arm64

ENTITLEMENTS

keychain-access-groups
[ ]
application-identifier
[ ]
aps-environment
development

Cancel   Previous   Export

Finally export the file as <app-name>.ipa file

Export As: your ipa name
Tags:
Where: Desktop

Cancel   Export

Installing .ipa file from iTunes on Windows

[Ref:
https://stackoverflow.com/questions/26720764/install-ipa-with-itunes-12/46539113 &&
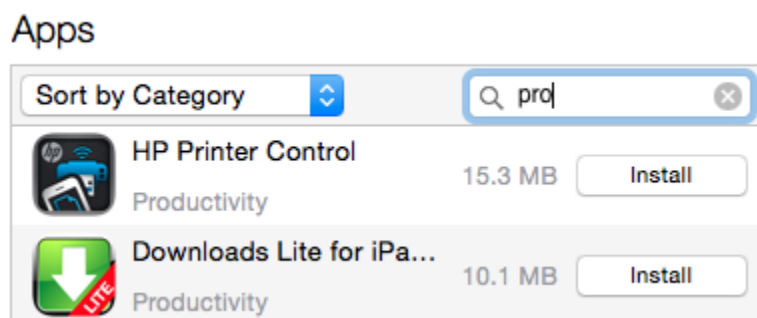https://docs.monaca.io/en/products_guide/monaca_ide/deploy/non_market_deploy/]

For iTunes 12.7 and below

1. Download & Install **iTunes** on Windows machine from Microsoft Store or internet
2. Drag-and-drop IPA file into 'Apps' tab of iTunes **BEFORE** you connect the device
3. Connect your device
4. Select your device on iTunes
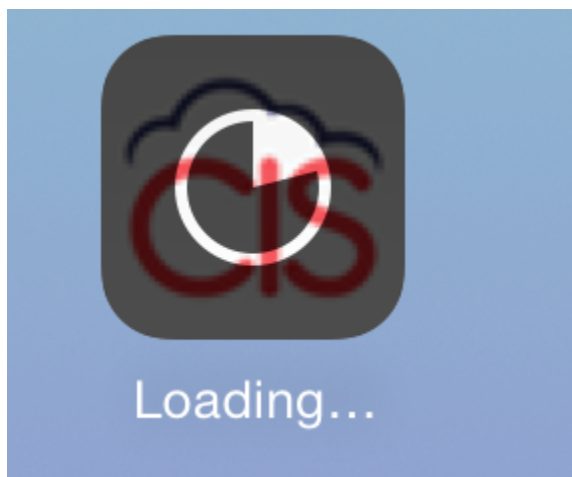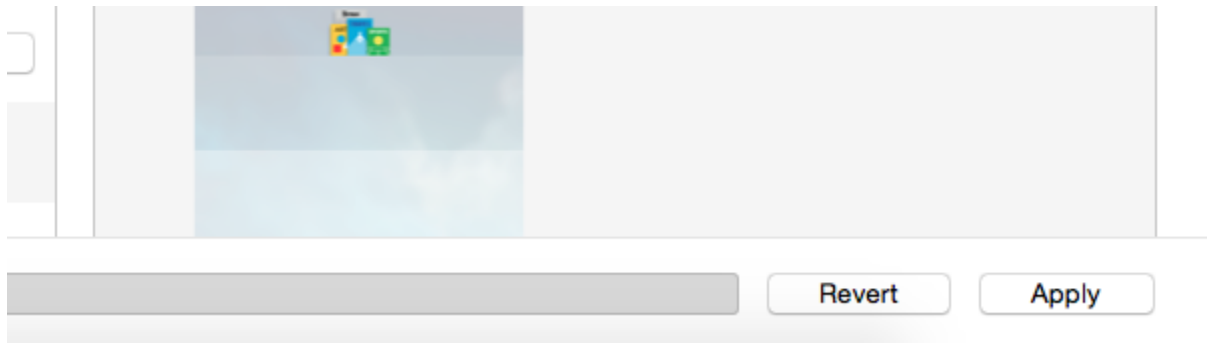5. Select 'Apps' tab

6. Search app that you want to install

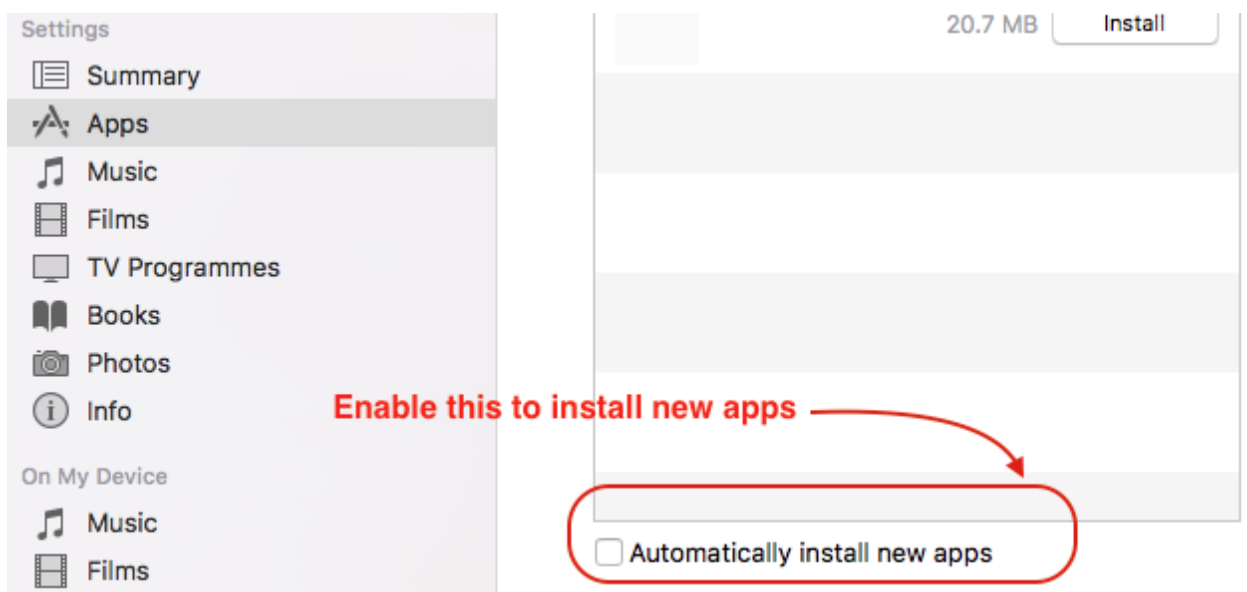7. Click on 'Install' button. This will change to 'Will Install'

8. Click on 'Apply' button on right corner. This will initiate process of app installation. You can see status on top of iTunes as well as app on device
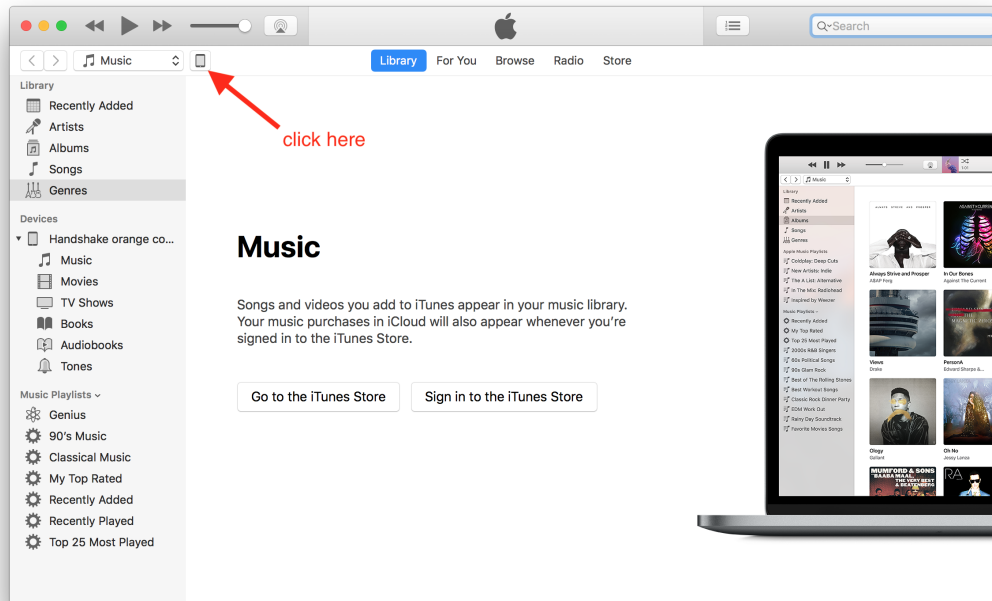
Revert   Apply

9.

Loading…

10. You can allow new apps to install automatically by enabling checkmark present at bottom

Settings
- Summary
- Apps
- Music
- Films
- TV Programmes
- Books
- Photos
- Info

On My Device
- Music
- Films

20.7 MB   Install

Enable this to install new apps
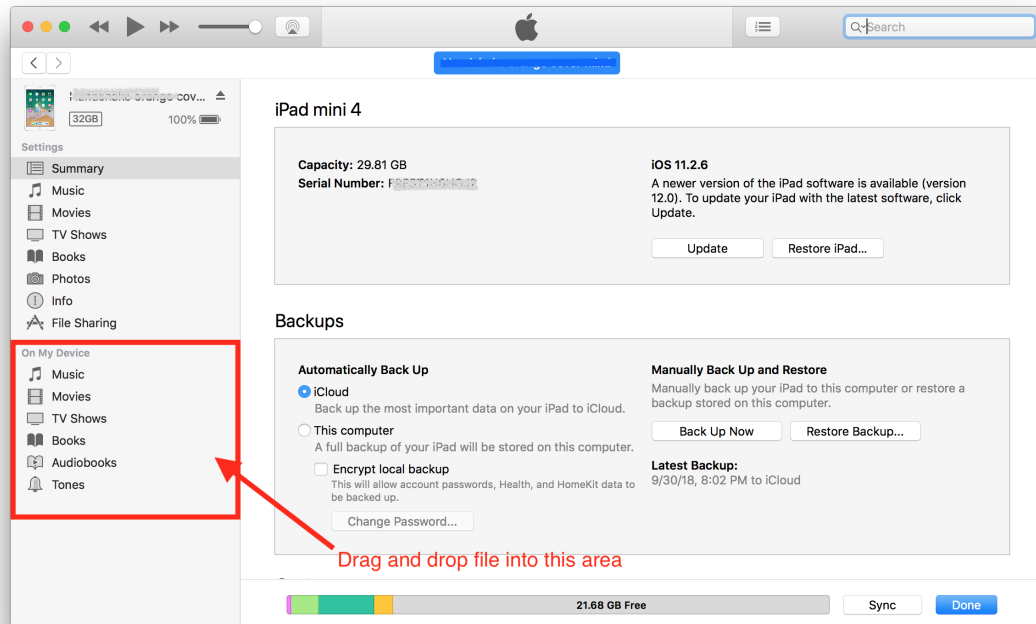
☐ Automatically install new apps

For iTunes 12.8 and above

1. While your device is connected to your laptop/desktop click the device icon on iTunes

2. Drag your .ipa file from Finder or Desktop and drop it into the "On My Device" area

Installing .ipa file using Xcode

1. Connect your device to your PC
2. Open Xcode, go to **Window** → **Devices**
3. Then, the Devices screen will appear. Choose the device you want to install the app on

4. Drag and drop your .ipa file into the Installed Apps as shown below: