On-Demand Resources

On Demand Resource Tags

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			View Controller - A controller that manages a view.
			Storyboard Reference - Provides a placeholder for a view controller in an external storyboard.
			Navigation Controller - A controller that manages navigation through a hierarchy of views.
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App Bundle

Executable	
Frameworks	
Resources	

App Bundle





App Bundle

Executable

Frameworks



Questions

- Are On-Demand resources useful for my app?
- What do I need to do for setup?
- What are the advantages/disadvantages over hosting resources on my own server?

What are On-Demand Resources?

- Store resources on the App Store (custom URL for enterprise apps)
- Store anything except executable code
- Load using e.g. Ullmage(named: "image") or literal
- Enabled by default
- Can only be changed with an app update

Integrating On-Demand resources

- Add tags to your resources
 - Tags are strings, but autocompletion works here
- Optionally: Add tags to your Prefetch/Initial Install list
 - Prefetch: The resources start downloading after the app is installed.
 - Initial Install: The resources are downloaded at the same time as the app.
- Use NSBundleResourceRequest(tags:).beginAccessingResources(completionHandler:)

Integrating On-Demand resources



beginAccessingResources

conditionallyBeginAccessingResources

endAccessingResources



Purging

- Resources that are not retained can be purged at any time.
- Only purged when the system is running out of disk space (NSBundleResourceRequestLowDiskSpace).
 - "Registration for the notification is usually done by the app delegate or master view." (http://apple.co/2ALT6t4) 🦻
- Prevent overpurging by using smaller tags.

Bundle.main.setPreservationPriority(priority:, forTags:)

Are On-Demand resources useful for my app?

- Yes, if ...
- ... you have resources your rarely use.
- ... you have a lot of resources.
- ... you have resources you only need once.
- ... you can predict which resources are needed next.

• Like initial data for your database. On-Demand resources can be purged after import.



What do I need to do for setup?

- Add tags to your resources.
- No setup on iTunes Connect.
- Begin accessing resources.

What are the advantages/disadvantages over hosting resources on my own server?

- Initial install tags
- Free
- Reliable
- Downloading, caching, purging handled by iOS
- Resources do not count towards app size

- You can not update resources separately
 - Except for enterprise apps
- Resources are not downloaded to a permanent location
- On 16GB iPhones you're resources are probably gone after every restart •••





