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| pdfs | main Added App-Groups-macOS-vs-iOS-Fight post. | 5 months ago |
| CHANGELOG.md | main Added App-Groups-macOS-vs-iOS-Fight post. | 5 months ago |
| CODE_OF_CONDUCT.md | Create CODE_OF_CONDUCT.md | 2 years ago |
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README.md

# The Wisdom of Quinn

Informative DevForum posts from everyone's favorite DTS member. Share and Enjoy®

## Resource Pages

Lists and links of Apple resources that The Eskimo finds useful.

- App Sandbox Resources | (PDF)
- Background Tasks Resources | (PDF)
- Code Signing Resources | (PDF)
- Debugging Resources | (PDF)
- Files and Storage Resources | (PDF)
- Network Extension Resources | (PDF)
- Networking Resources | (PDF)
- Networking Resources (Old) | (PDF)
- Notarisation Resources | (PDF)
- Security Resources | (PDF)
- Service Management Resources | (PDF)
- Trusted Execution Resources | (PDF)
- XPC Resources | (PDF)

## Code Signing

Everybody loves code signing!

- A Peek Behind the Code Signing Curtain | (PDF)
- Certificate Signing Requests Explained | (PDF)
- Creating Distribution-Signed Code for Mac | (PDF)
- `---deep` Considered Harmful | (PDF)
- Fixing an untrusted code signing certificate | (PDF)
- KEXT Code Signing Problems | (PDF)
- Manual Code Signing Example | (PDF)
- Resolving Code Signing Crashes on Launch | (PDF)
- Resolving errSecInternalComponent errors during code signing | (PDF)
- Signing a Mac Product For Distribution | (PDF)
- Signing code for older versions of macOS on Apple Silicon | (PDF)

## Distribution

App Store, Provisioning Profiles, Developer ID, and Notarization.

- Don't Run App Store Distribution-Signed Code | (PDF)
- Embedding a Command-Line Tool in a Sandboxed App | (PDF)
- Error 1048 When Notarising | (PDF)
- Finding a Capability's Distribution Restrictions | (PDF)
- Notarisation Fundamentals | (PDF)
- Notarisation and the macOS 10.9 SDK | (PDF)
- Notarising an Installer Package Containing a KEXT | (PDF)
- Packaging a Daemon with a Provisioning Profile | (PDF)
- Packaging Mac Software for Distribution | (PDF)
- The Pros and Cons of Stapling | (PDF)
- Resolving Gatekeeper Problems | (PDF)
- Resolving Gatekeeper Problems Caused by Dangling Load Command Paths | (PDF)
- Sandboxed Helper Tool Crashing in `libsystem_secinit` | (PDF)
- Testing a Notarised Product | (PDF)
- What exactly is a provisioning profile? | (PDF)

## Filesystems

Bits on disk.

- Create a Zip Archive With This One Weird Trick | (PDF)
- Extended Attributes and Zip Archive | (PDF)
- On Filesystem Permissions | (PDF)
- Unpacking Apple Archives | (PDF)
- Whither FileHandle? | (PDF)

## iOS Background Activities

Y U KILL MAH PROCESS?

- iOS Background Execution Limits | (PDF)
- Testing Background Session Code | (PDF)
- UIApplication Background Task Notes | (PDF)

## Security

Shhh... it's a secret.

- App Groups: macOS vs iOS: Fight! | (PDF)
- BSD Privilege Escalation on macOS | (PDF)
- Calling Security Framework from Swift | (PDF)
- Data Vault Info | (PDF)
- Defining An App Group Shared Between macOS and iOS | (PDF)
- Error -34018 errSecMissingEntitlement | (PDF)
- Importing Cryptographic Keys | (PDF)
- Intermittent -34018 errors from users in the field | (PDF)
- On Cryptographic Key Formats | (PDF)
- Remote Debugging for Authorization Plugins | (PDF)
- Resolving App Sandbox Inheritance Problems | (PDF)
- Resolving Hardened Runtime Incompatibilities | (PDF)

### Keychains

- App ID Prefix Change and Keychain Access | (PDF)
- Keychain sharing | (PDF)
- On Mac Keychains | (PDF)
- SecItem attributes for keys | (PDF)
- Troubleshooting -34018 Keychain Errors | (PDF)

## Logging

Tell me about what happened.

- Implementing Your Own Crash Reporter | (PDF)
- Fetching the Notary Log | (PDF)
- On Log Noise | (PDF)
- Parsing Dates Without Times | (PDF)
- Recording Private Data in the System Log | (PDF)
- Unified Logging from the Kernel | (PDF)
- Viewing Sandbox Violation Reports | (PDF)
- Your Friend the System Log | (PDF)

## Low-Level Fiddly Bits

Get down in the guts.

- Avoid Dispatch Global Concurrent Queues | (PDF)
- Running a Child Process with Standard Input and Output | (PDF)
- Swift 3 and BSD Sockets | (PDF)
- WWDC 2010 Session 207 Run Loops Section | (PDF)

### Libraries and Frameworks

- An Apple Library Primer | (PDF)
- Async Signal Safe Functions vs Dyld Lazy Binding | (PDF)
- Resolving Library Loading Problems | (PDF)

### Memory

- Handling `shouldFreeInfo` Parameters | (PDF)
- Objective-C Memory Management for Swift Programmers | (PDF)
- On Free Memory | (PDF)
- Standard Memory Debugging Tools | (PDF)
- The Peril of the Ampersand | (PDF)

### XPC

- Testing and Debugging XPC Code With an Anonymous Listener | (PDF)
- XPC and App-to-App Communication | (PDF)

## Networking

Making this talk to that.

### Debugging

- Debugging HTTP Server-Side Errors | (PDF)
- Investigating Network Latency Problems | (PDF)
- Network Debugging articles | (PDF)
- Network Debugging in the Field | (PDF)
- Using mitmproxy to Analyse HTTP[S] Requests | (PDF)

### Extensions

- NEHotspotHelper pseudo API | (PDF)
- Network Extension Framework Entitlements | (PDF)
- Network Extension Provider Memory Strategy | (PDF)
- Networking in a Short-Lived Extension | (PDF)

### General

- Five Reasons Why Synchronous Networking Is Bad | (PDF)
- iOS Network Signal Strength | (PDF)
- Maintaining a TCP Connection in the Background | (PDF)
- Moving to Fewer, Larger Transfers | (PDF)
- NSURLCache and Byte Ranges | (PDF)
- On FTP | (PDF)
- Using the Multicast Networking Additional Capability | (PDF)
- Wi-Fi Fundamentals | (PDF)

### IPv6

- IPv6 and App Review | (PDF)
- IPv6 Address Synthesis on Older Systems | (PDF)
- Supporting IPv6-only Networks | (PDF)

### Local Network

- Triggering the Local Network Privacy Alert | (PDF)
- Local Network Privacy FAQ | (PDF)
  - FAQ-1: What is a local network? | (PDF)
  - FAQ-2: What operations require local network access? | (PDF)
  - FAQ-3: What operations require the multicast entitlement? | (PDF)
  - FAQ-4: Do I need the multicast entitlement? | (PDF)
  - FAQ-5: I've been granted the multicast entitlement; how do I enable it? | (PDF)
  - FAQ-6: Can App Clips access the local network? | (PDF)
  - FAQ-7: How does local network privacy work with app extensions? | (PDF)
  - FAQ-8: How do I explicitly trigger the local network privacy alert? | (PDF)
  - FAQ-9: How do I tell whether I've been granted local network access? | (PDF)
  - FAQ-10: How do I use the unsatisfied reason property? | (PDF)
  - FAQ-11: Do I need a local network usage description property? | (PDF)
  - FAQ-12: Can I test on the simulator? | (PDF)
  - FAQ-13: Once my app has displayed the local network privacy alert, how can I reset its state so that it shows again? | (PDF)
  - FAQ-14: How do I map my Multipeer Connectivity service type to an entry in the Bonjour services property? | (PDF)
  - FAQ-15: My app presents the local network privacy alert unexpectedly. Is there a way to track down the cause? | (PDF)

### Security

- App Transport Security | (PDF)
- Customising TLS Server Trust Evaluation Considered Harmful | (PDF)
- Implementing Secure Transport I/O Functions | (PDF)- TLS for App Developers | (PDF)
- TLS For Accessory Developers | (PDF)

## Odds and Ends

General info and some puzzles.

- Bug Reporting: How and Why? | (PDF)
- KWN & ESK's Puzzle Page: Mutation Madness | (PDF)
- Posting a Crash Report | (PDF)
- What is an exception? | (PDF)
- Quinn's Top Ten DevForums Tips | (PDF)

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