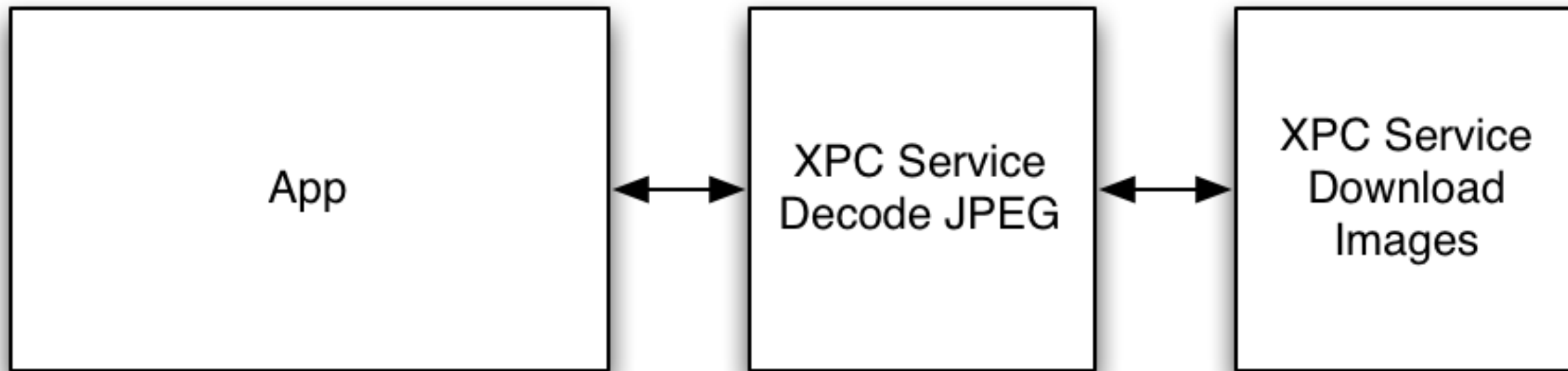# Back to the Mac
XPC Introduction
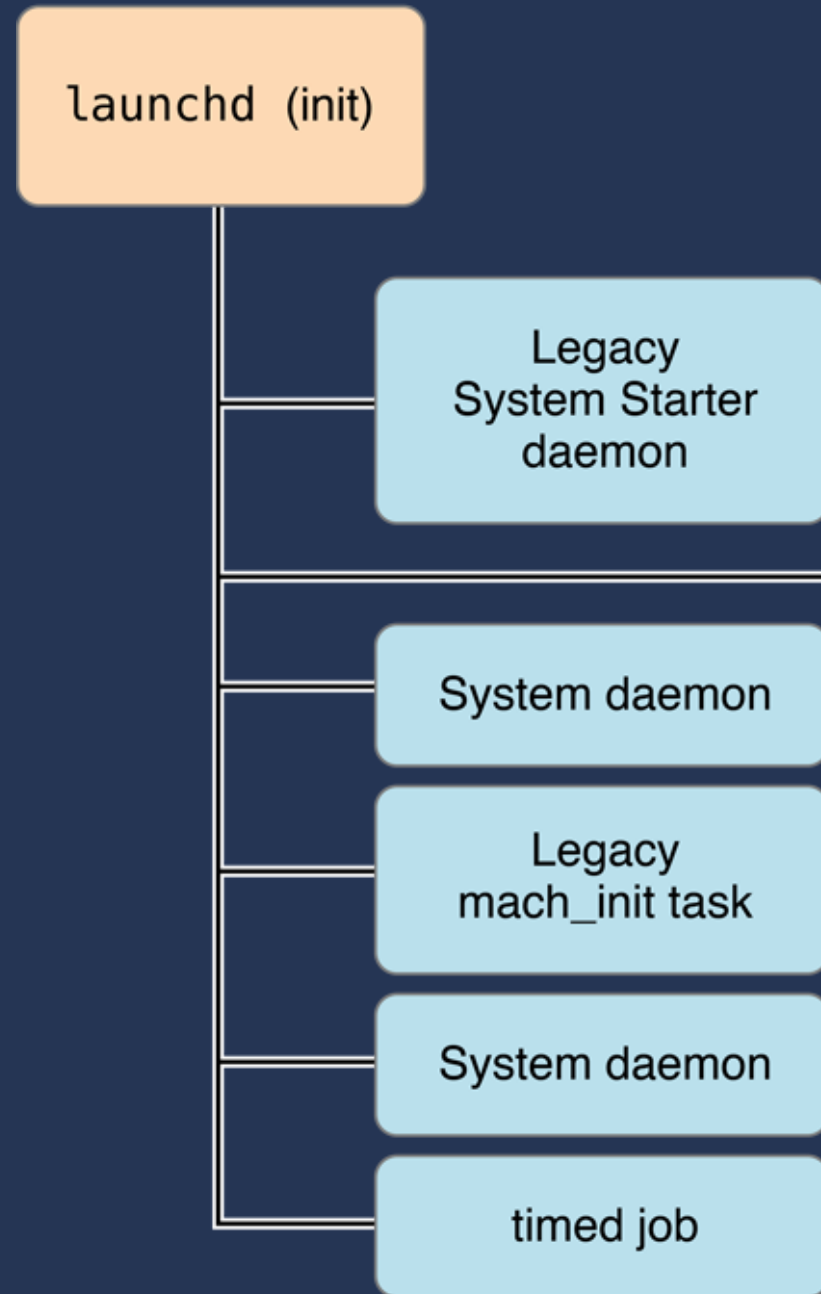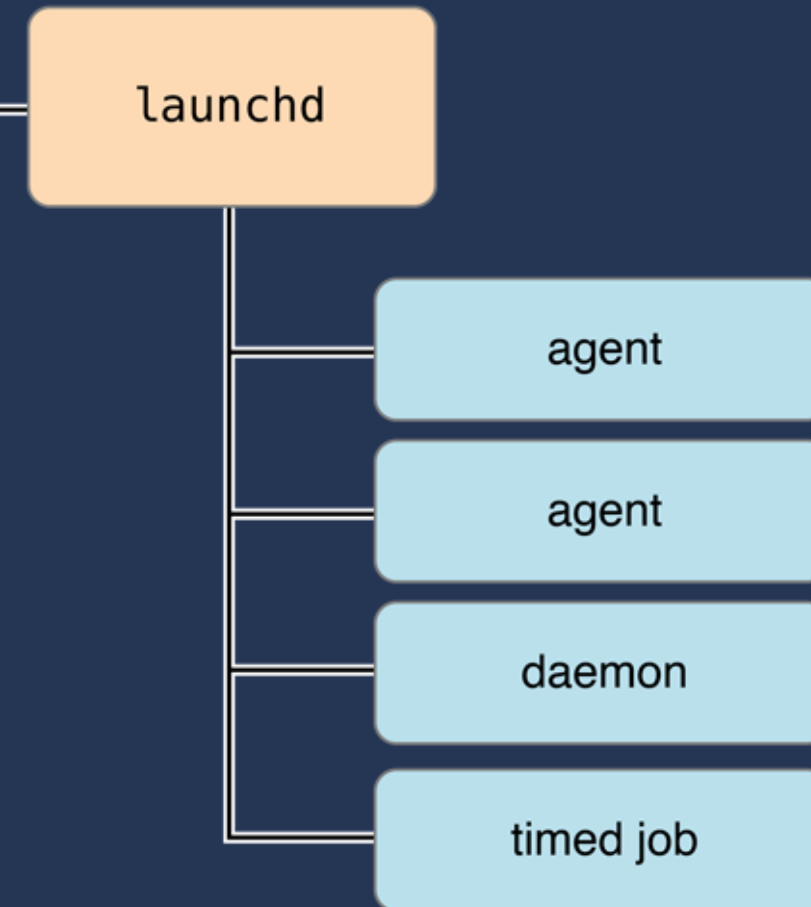
WeBuild Day 2020

Phuc Le **@dwarvesf**

XPC Services

Startup Session

Login Session
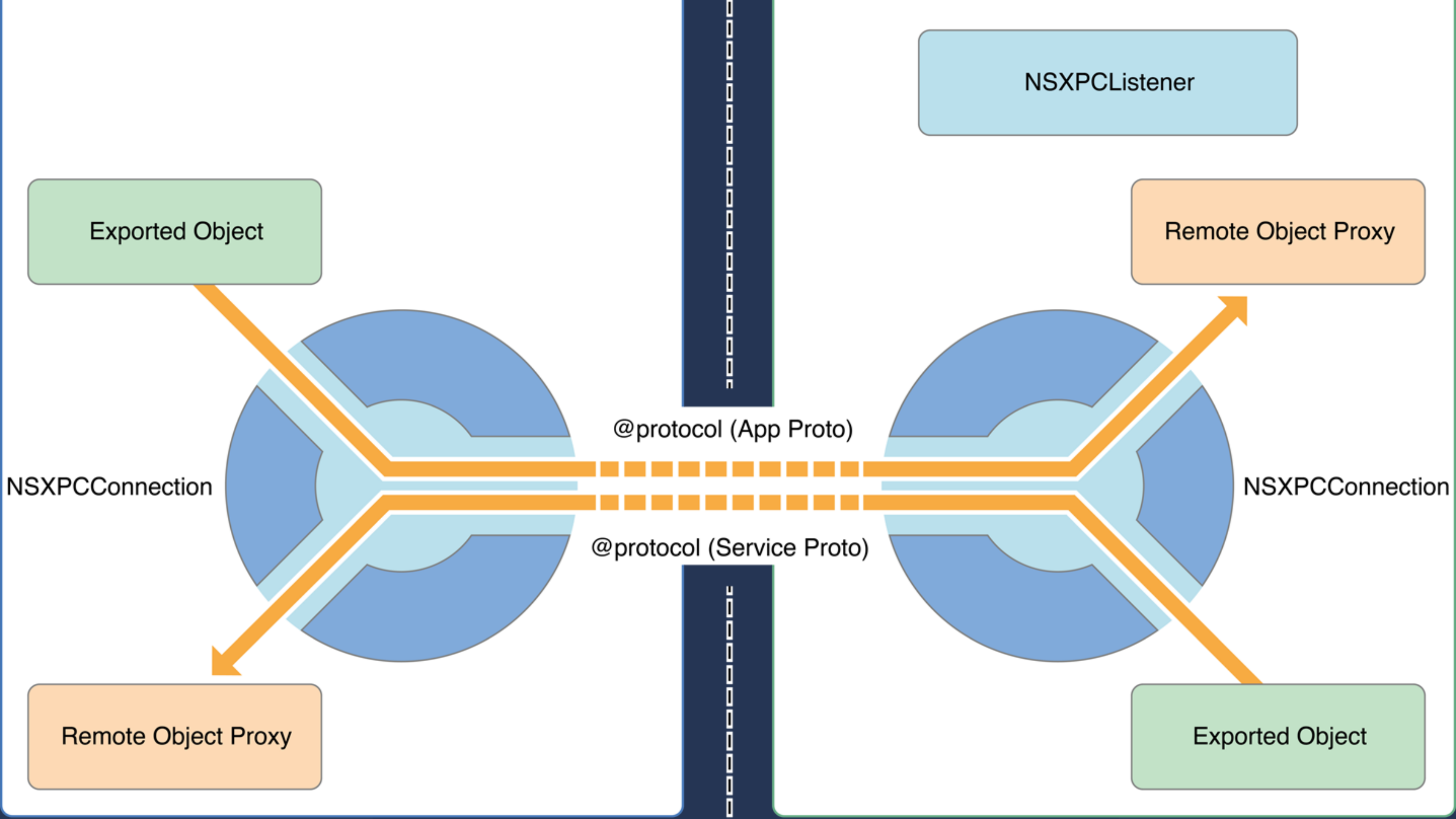(one session per logged-in user)

launchd (init)

Legacy
System Starter
daemon

System daemon

Legacy
mach_init task

System daemon

timed job

launchd

agent

agent

daemon

timed job

Type	Managed by launchd	Run in which context	Can present UI	App Store
Login Item	No*	User	Yes	Yes
XPC service	Yes	User	No (Very limited)	Yes
Launch Daemon	Yes	System	No	No
Launch Agent	Yes	User	Not recommend	No

Login items are started by the per-user instance of launchd, but it does not take any actions to manage them.

General   About

🔍 A | 📶 › 73% 🔋 Wed Dec 18 8 38 34 PM ☰

↑

Hidden   Shown

In your Mac's menu bar, hold ⌘ and drag icons
between sections to configure Hidden Bar.

Settings

☑ Start Hidden Bar when I log in

☐ Show preferences on launch

☑ Automatically hide icon after: 15 seconds ⇅

Global Shortcut

Set Shortcut   ⌫

New To-Do

Notes

📅 🏷 ☰ ⚑

📥 Inbox   Cancel   **Save**
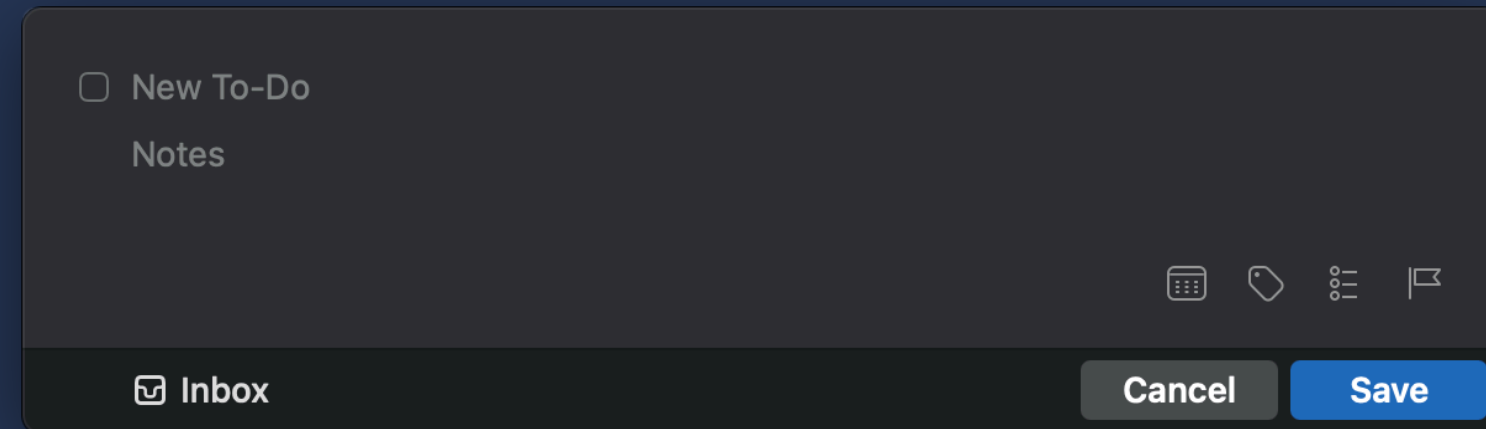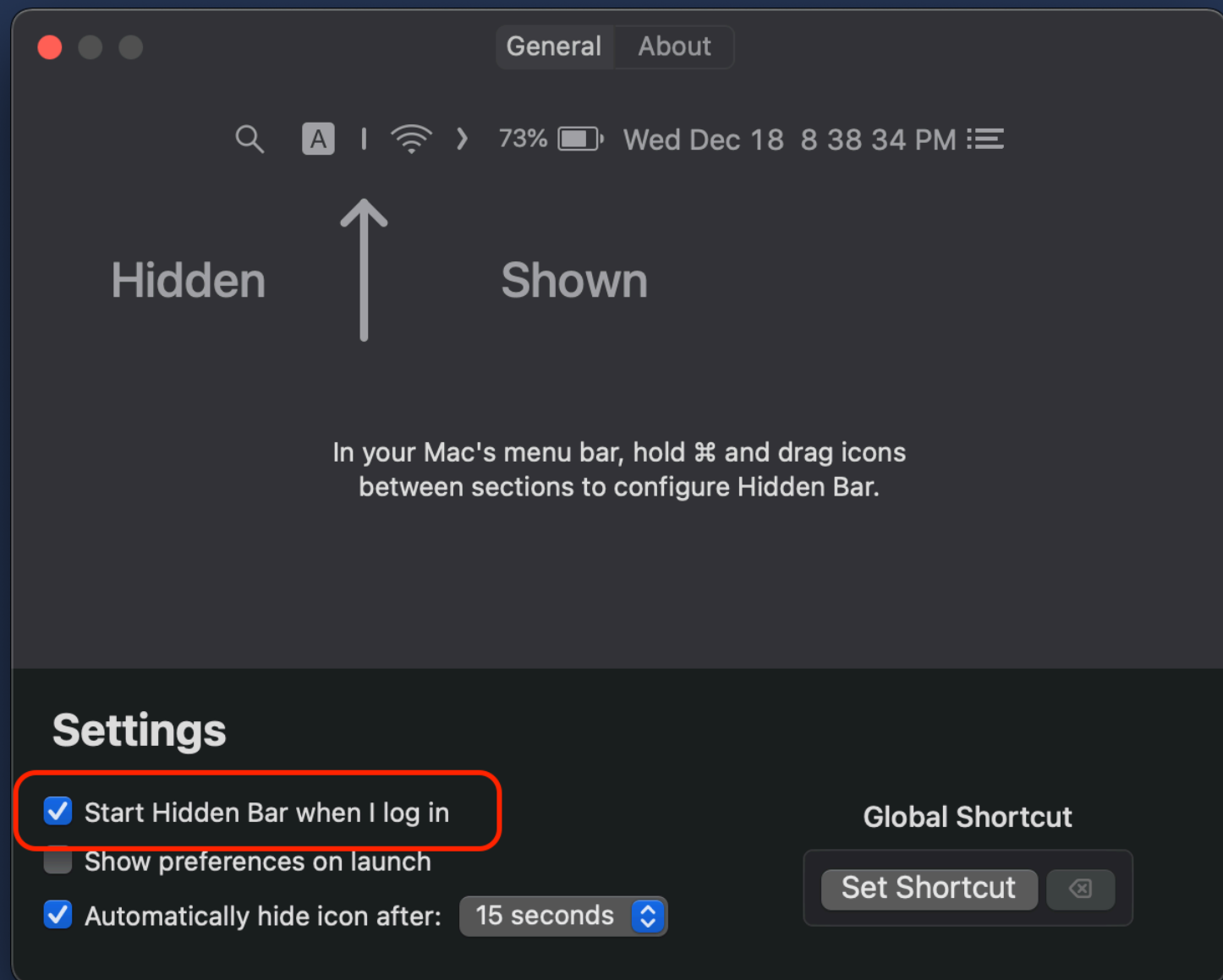
XPC

- Modern, recommended way to communicate between processes in macOS.

- Before, there are some other ways like Socket, Mach Ports.

- Great benefits.

- Must apply.

NSXPCListener

Exported Object

Remote Object Proxy

NSXPCConnection

@protocol (App Proto)

@protocol (Service Proto)

NSXPCConnection

Remote Object Proxy

Exported Object

What's the point 🤔

- Smaller memory footprint

- Realiability

What's the point 🤔

- Safer

DEMO 👷

A warning on privilege helper tool 🥶

Q/A
Thank you for listening

@phucld