Kiosk Applications and Apple Mobile Device Management

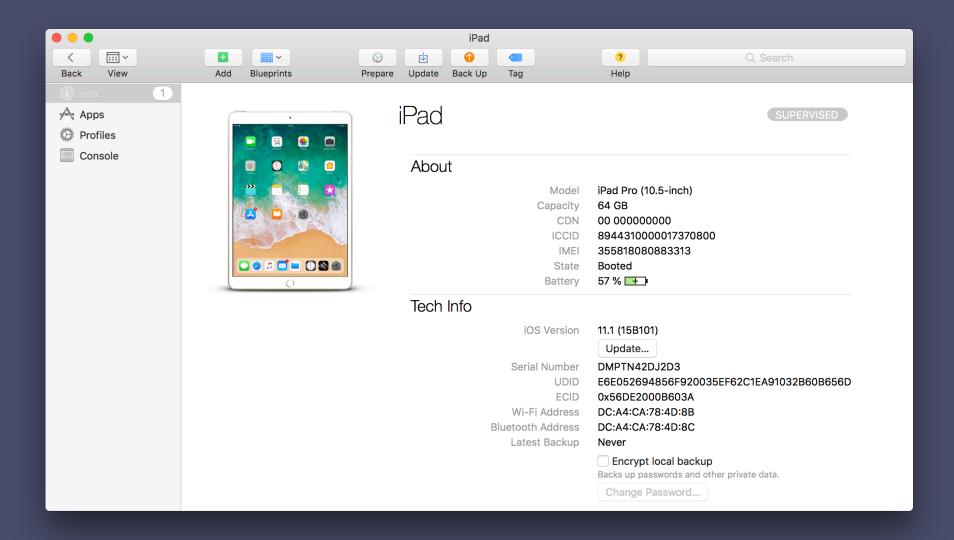
Florent Pillet

AppBuilders 2018 - Lugano 🛂

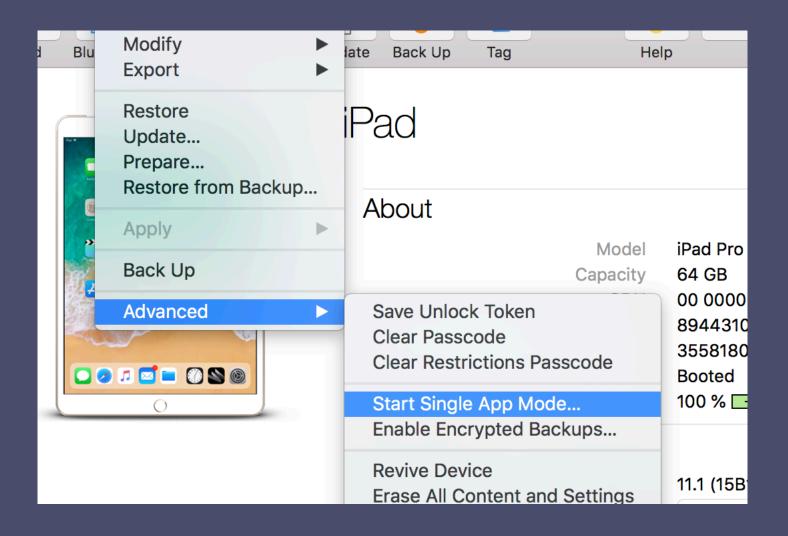
Kiosk Applications

- Single-purpose devices
- Home automation
- Hospitality
- Public displays

• Apple Configurator 2



- Apple Configurator 2
- Single-App mode



- Apple Configurator 2
- Single-App mode
- Locked WiFi, certs, VPN...



General Mandatory



Restrictions

Not configured



Domains

Not configured



Global HTTP Proxy Not configured



DNS Proxy

Not configured



Content Filter

Not configured



Certificates

Not configured



Passcode

Not configured



Wi-Fi

Not configured



Not configured



AirPlay

Not configured



AirPlay Security

Not configured



AirPrint

Not configured

- Apple Configurator 2
- Single-App mode
- Locked WiFi, certs, VPN...



Calendar

Not configured



Subscribed Calendars

Not configured



Not configured



Exchange ActiveSync Not configured

Not configured



Google Account

Not configured



LDAP

Not configured



Not configured



macOS Server Account

Not configured



SCEP



Cellular

Not configured



Fonts

Not configured



Notifications

Not configured



Conference Room Display Conference Room Not configured



TV Remote

Not configured



Lock Screen Message

Not configured



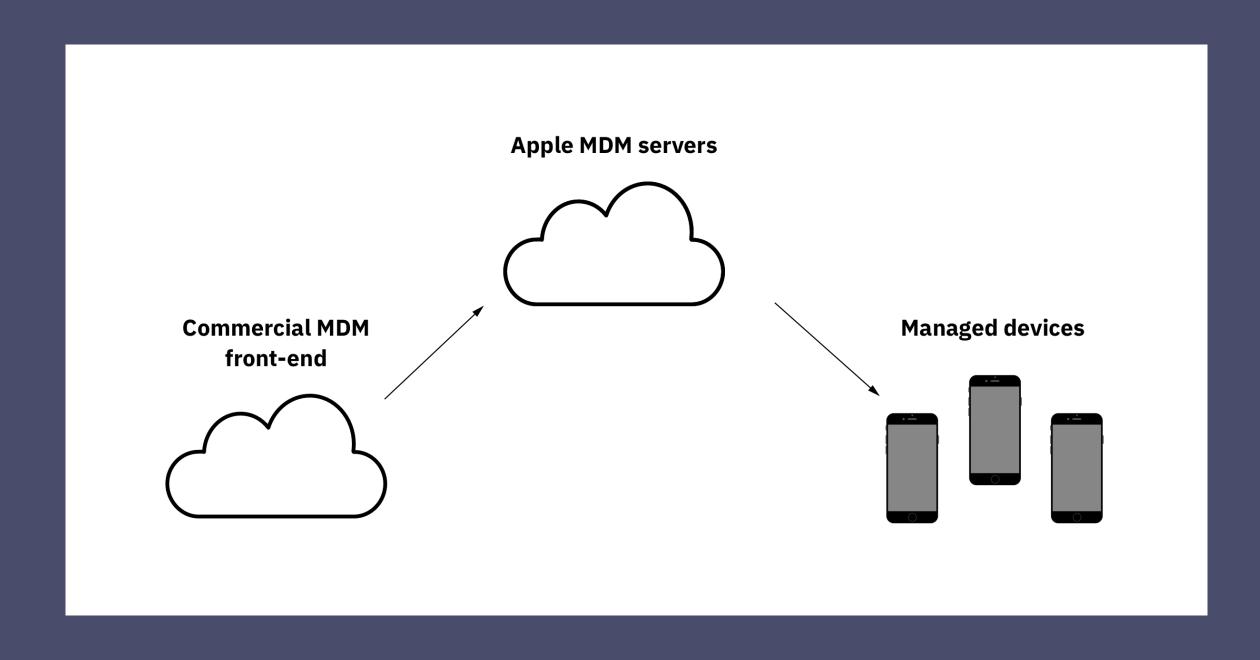
Web Clips

Not configured

- Apple Configurator 2
- Single-App mode
- Locked WiFi
- Ad-Hoc provisioning profile

Mobile Device Management (MDM)

For iOS, tvOS and macOS



Mobile Device Management (MDM)

For iOS, tvOS and macOS

- Enterprise fleets
- School devices
- Kiosk applications

Enroll

- Must be a company
- Enroll on <u>deploy.apple.com</u>

MDM servers

- Commercial products (SimpleMDM, AirWatch, JAMF...)
- Roll your own (microMDM open-source)

Customizing app settings

Use managed user defaults to configure each device

```
let MANAGED_KEY = "com.apple.configuration.managed"
extension UserDefaults {
    func managedConfiguration() -> [String:Any]? {
        return object(forKey: MANAGED KEY)
            as? [String:Any]
```

• Sign apps with Enterprise or Ad-Hoc cert (new)

- Sign apps with Enterprise or Ad-Hoc cert (new)
- iPad WiFi unreliable: use celullar or Ethernet (here: Redpark PoE adapter)



- Sign apps with Enterprise or Ad-Hoc cert (new)
- iPad WiFi unreliable: use celullar or Ethernet
- Remote update: switch away from your app first

- Sign apps with Enterprise or Ad-Hoc cert (new)
- iPad WiFi unreliable: use celullar or Ethernet
- Remote update: switch away from your app first
- Wake from sleep requires button press

Thank you

- Deployment reference: <u>help.apple.com/deployment/ios/</u>
- Enroll into MDM: <u>deploy.apple.com</u>
- MDM protocol reference
- Some commercial MDM solutions: SimpleMDM, VMWare Airwatch, JAMF
- Power over Ethernet (PoE adaptors): Apple, Redpark, others

Florent Pillet