

Profiles

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State Farm



Agenda

- What are profiles?
- Examples
- Delivery
- New in iOS8 / Yosemite
- Apple configurator walkthrough
- Questions



What are profiles?

Settings similar to Windows
Group Policy restrictions/
configurations

Simple text files saved as
*.mobileconfig in XML
formatting just like Plist files

Configures iOS and OS X

Can contain multiple payloads

Evolution from MCX
(Managed Preferences)



Examples

- Wifi settings
- Restrictions of device features
- Exchange accounts
- iChat settings
- Single sign-on configuration
- Certificates (SCEP and RPC)



Examples

- Wallpaper
- Webclips
- VPN settings
- Credentials and keys
- Loginwindow settings
- Passcode requirements



Supervised mode

- Block Airdrop
- Filter web content
- Disable iMessage
- Prevent modifying AppleID accounts

Device Enrollment Program (DEP)



- Zero-touch MDM enrollment
- Wireless supervision
- Streamlined setup assistant
- Must be institution-owned devices

Delivery

- Apple Configurator
- **Apple Profile Manager (or other 3rd party MDM)**
- Manually distribute

Apple Configurator

- Prepare
- Supervise
- Assign



MDM

- Many MDM providers
- All have access to the same API
- Extra features set them apart

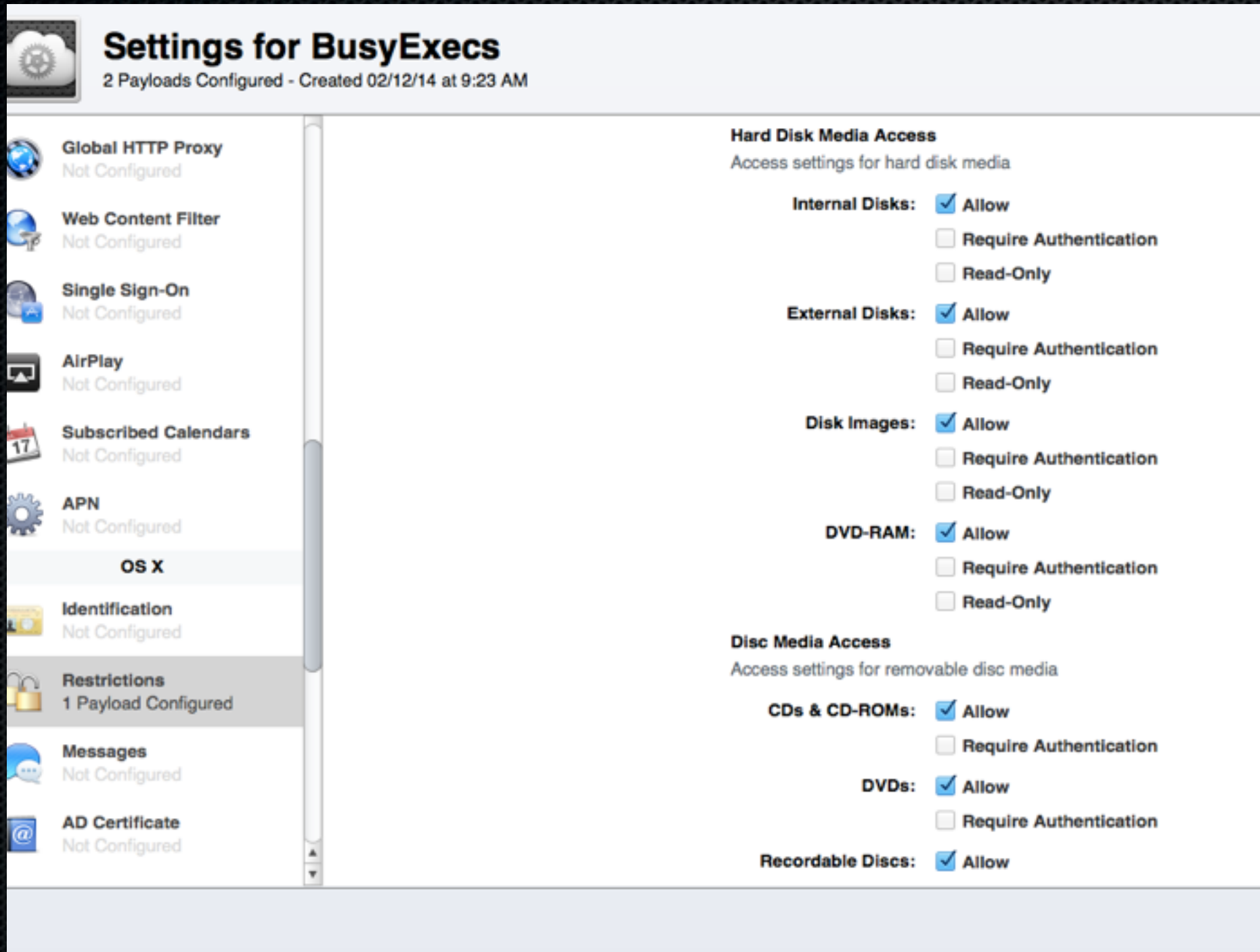
3rd Party MDM Providers

- Airwatch
- Meraki
- Absolute
- Apple Profile Manager
- BoxTone
- Centrify
- Filewave
- JAMF Casper Suite
- MobileIron
- SOTI

Apple's Profile Manager:

- Components of Profile Manager
 - Administration portal
 - Self-service user portal
 - MDM service
 - App and book distribution
- User and Device groups
- Distribute configuration profiles
 - Manual distribution
 - User self-service
 - Remote device management

Apple Profile Manager



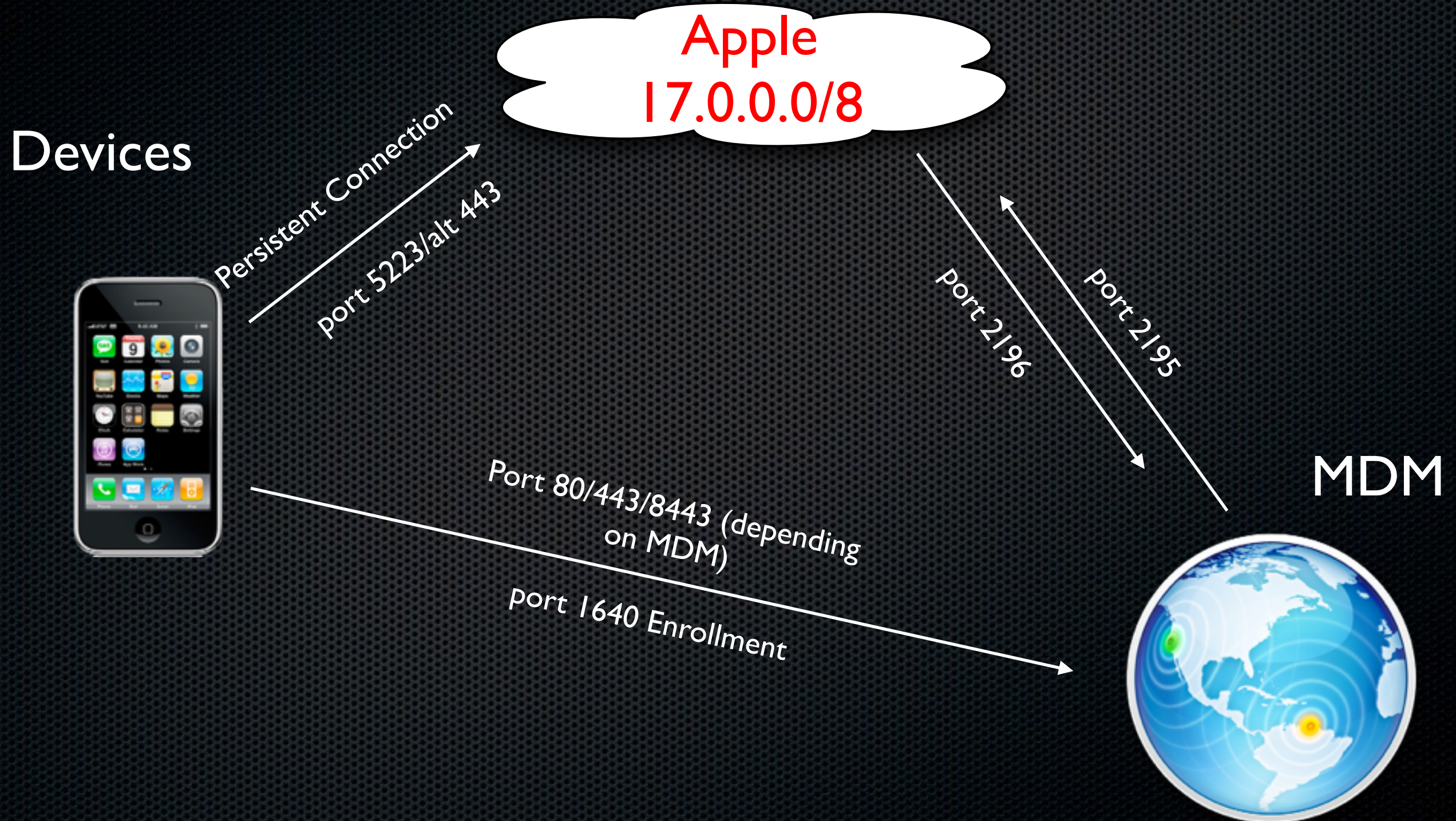
APNs: Load Balancing

- Different IP addresses and different hostnames used to connect
- Apple recommends opening the whole 17.0.0.0/8 address block
- That's 16,177,214 IP addresses
- Proxies “not supported”

APNS

- OutBound
 - TCP port 5223 (used by devices to communicate to the APNs Servers)
 - TCP port 2195 (used to send notifications to the APNs)
 - TCP port 443 (used as a fallback on Wi-Fi only, when devices are unable to communicate to APNs on port 5223)
- InBound
 - TCP port 1640 for enrollment (Apple PM)
 - TCP port 2196 (used by the APNs feedback service)
- More information at: <http://support.apple.com/kb/TS4264>

APNS



APNS

MDM

Cert server

Access Point

Apple
17.0.0.0/8

2. Send push

3. Tell workstation
to check MDM

1. Check into
Apple

4. Hi!



6. Here are my
creds

7.

8.

Manually distribute

- iOS
 - E-mail or host on web server
- OS X
 - E-mail or host on web server
 - Install with LaunchAgents (user) or LaunchDaemons (system)

New in iOS 8



- Reset activation lock
- Hides all profiles installed via MDM
- Categorizes profiles by type
- Users can not remove individual profiles installed via MDM
- Query date of last iCloud backup
- Query which iTunes account is configured

New in OS X 10.10



- Deploy flat packages
- Deploy managed apps
- Managed Domains
- MDM command to begin AirPlay
- Query which iTunes account is configured



Apple Configurator



Prepare



Supervise



Assign

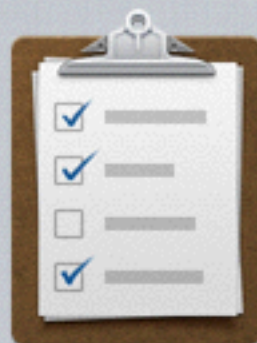


Prepare Devices

Prep your iOS devices for mass deployment.

Configure your organization's devices. Quickly update them to the latest iOS version, install profiles, install free and volume purchased apps, or restore a device backup.

[Learn more](#)



Supervise Devices

Enforce a standard configuration on your iOS devices.

Maintain control over groups of devices that share common apps, settings, and profiles. Automatically restore devices to the specified configuration when reconnected.

[Learn more](#)



Assign Devices

Assign iOS devices to users in your organization.

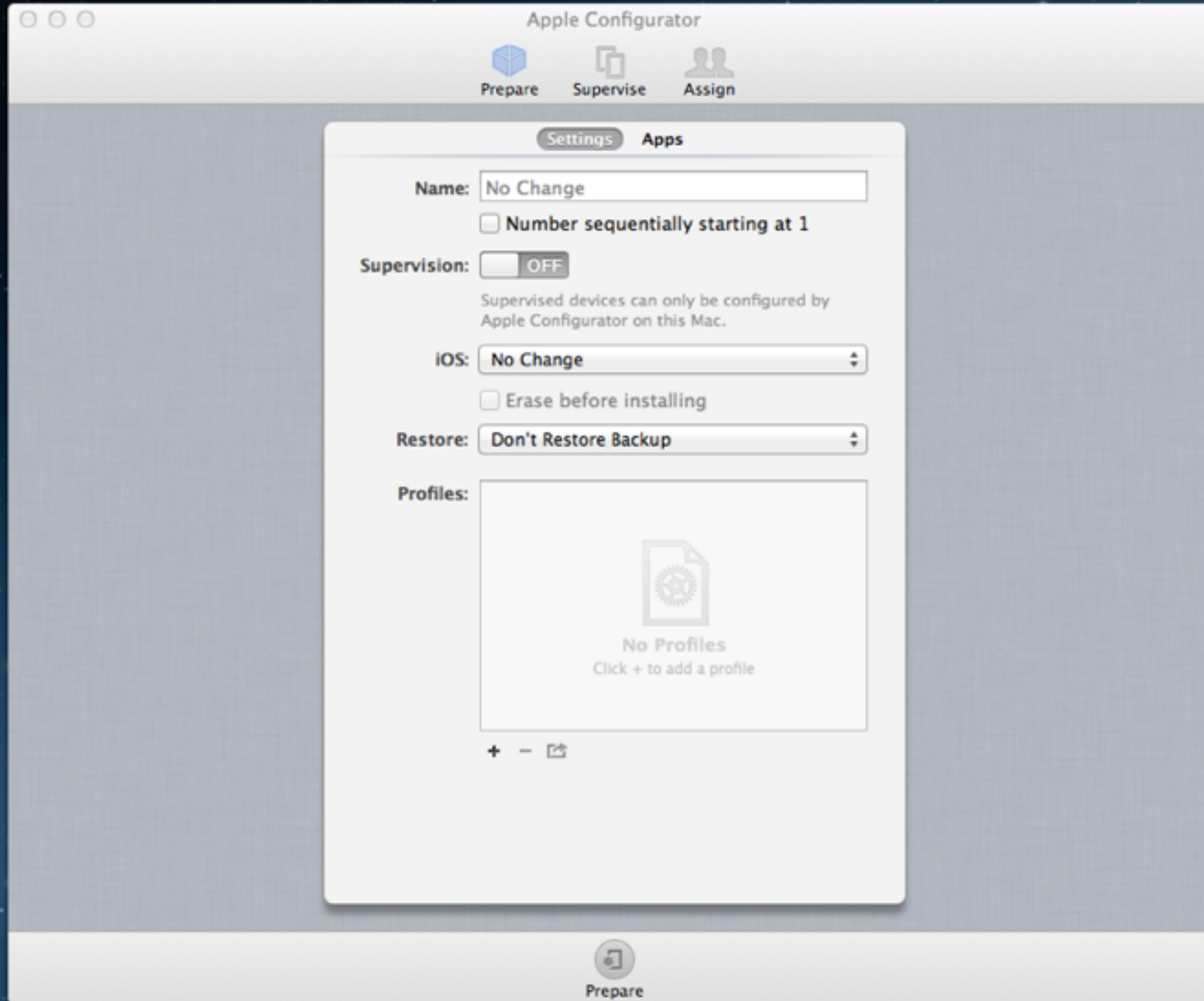
Create and manage users and groups. Assign supervised devices to individual users, back up and restore users' content and settings, and distribute and retrieve users' documents. [Learn more](#)

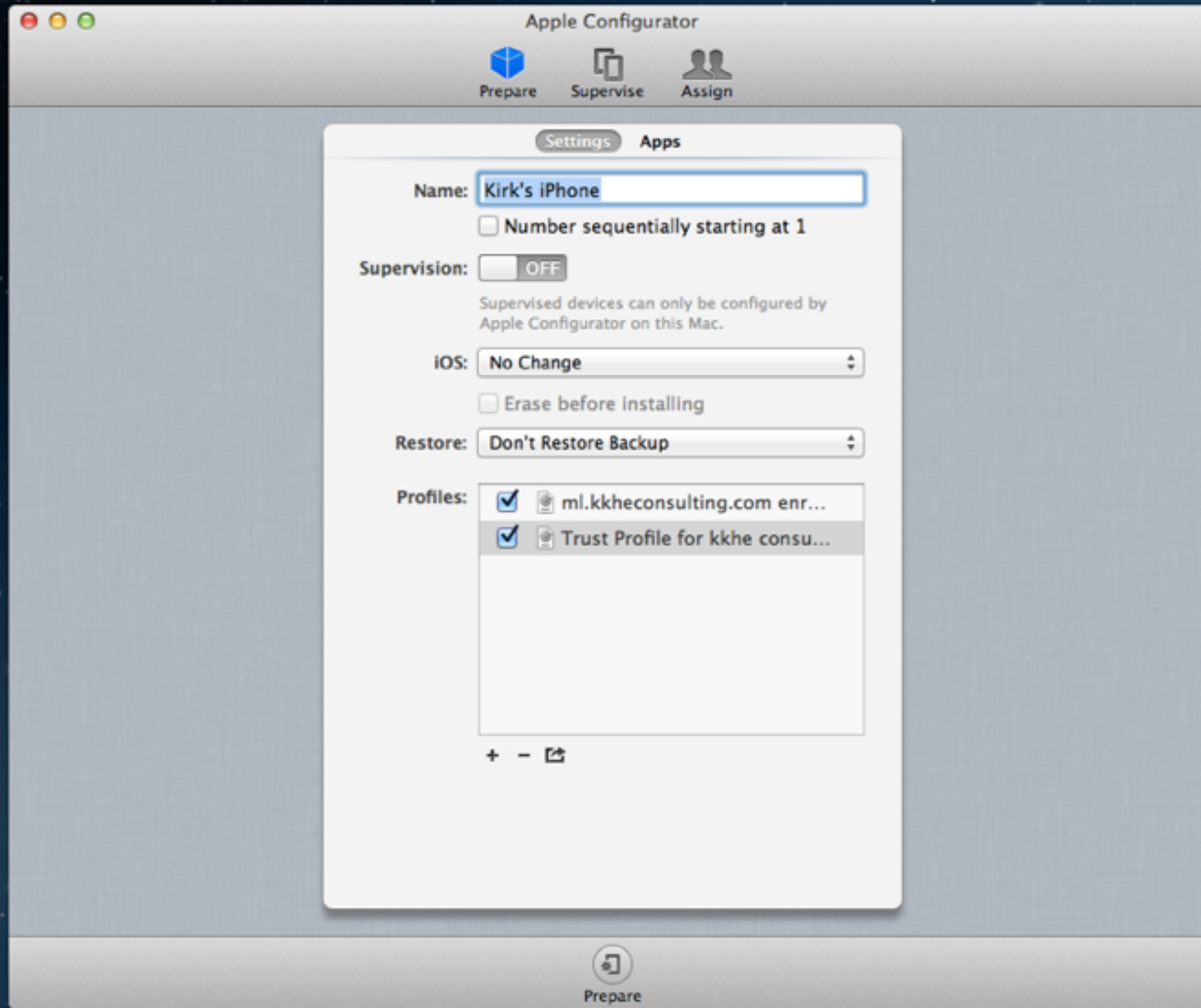
Welcome to Apple Configurator

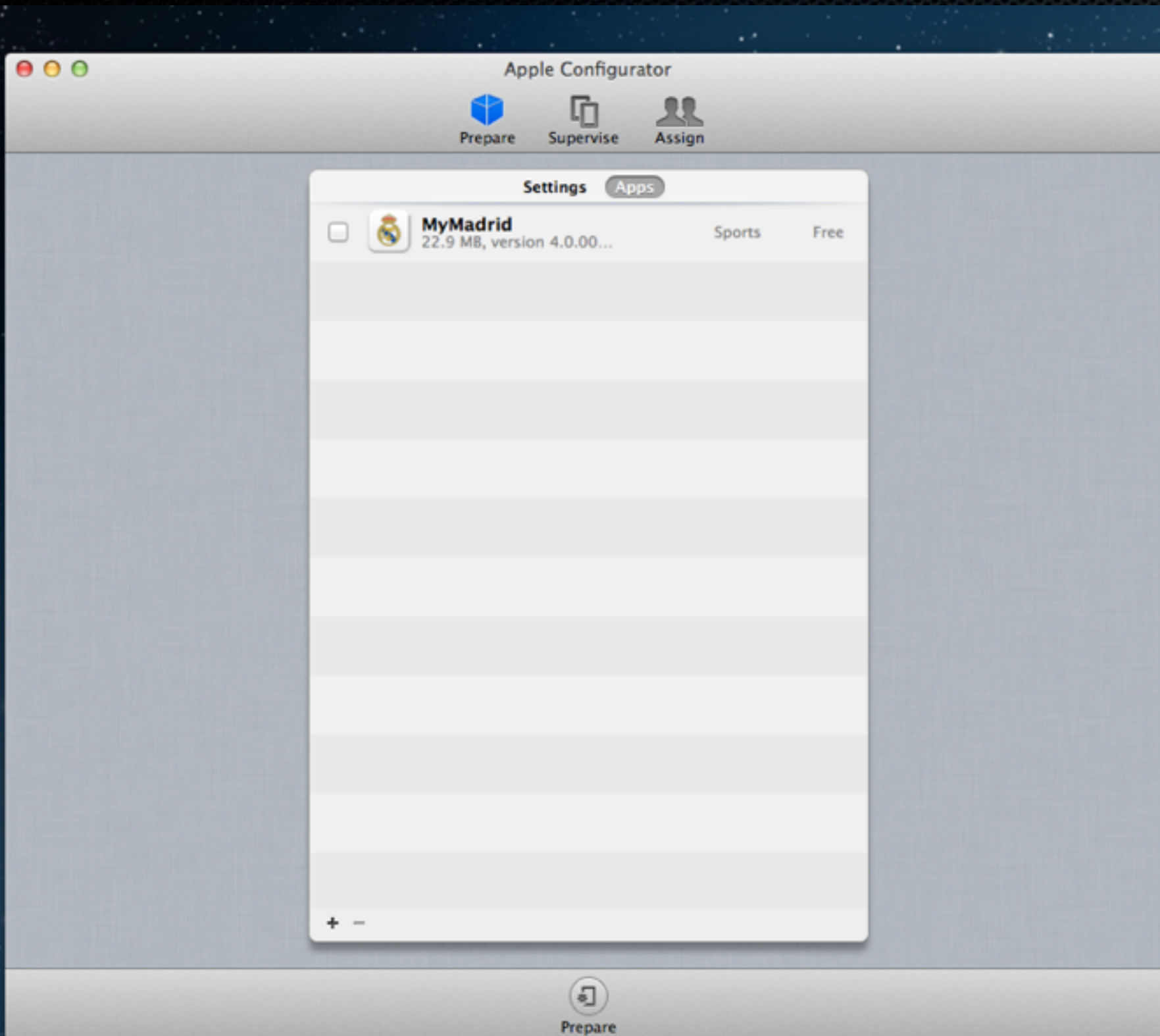
iOS device configuration, supervision and assignment made easy.

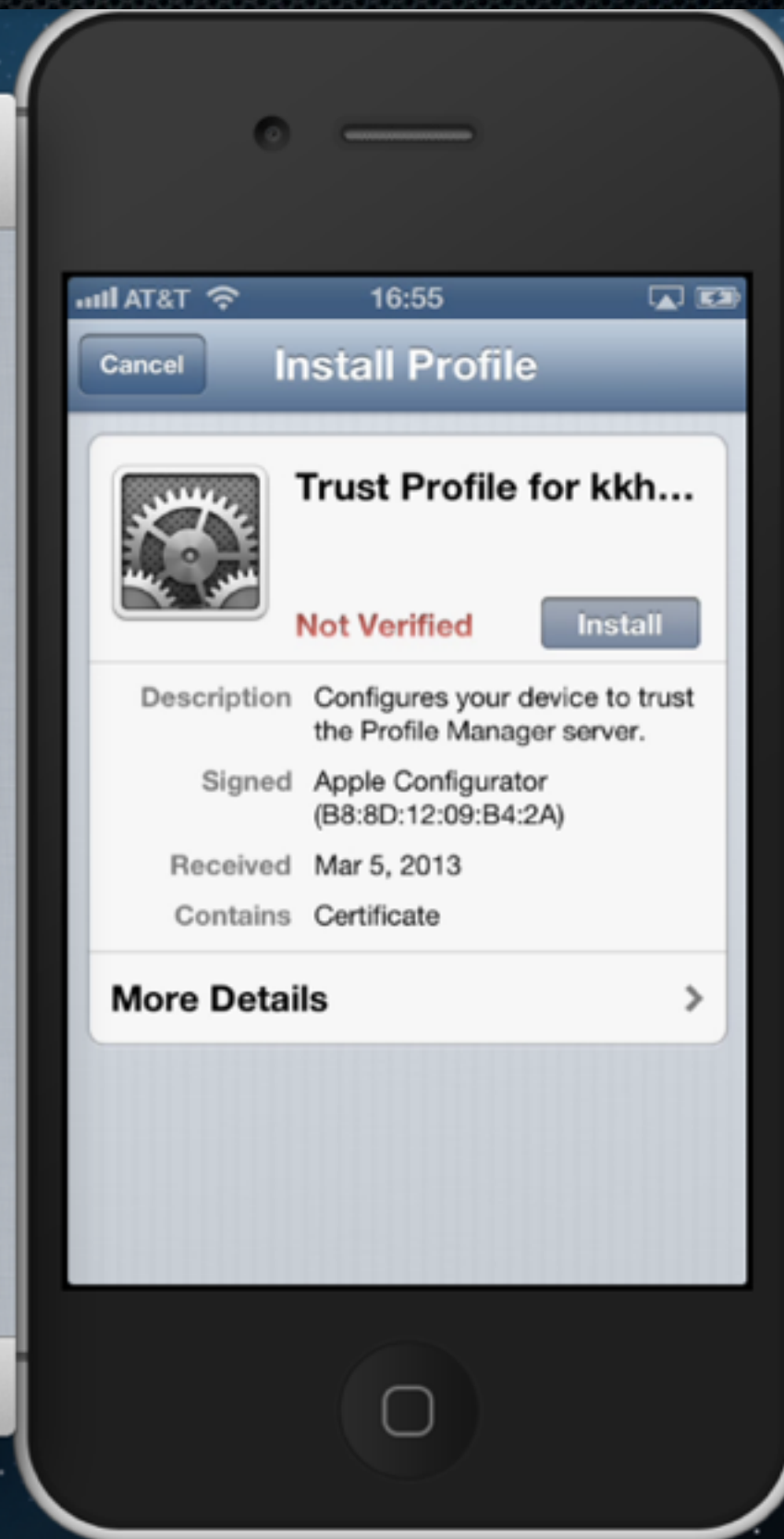
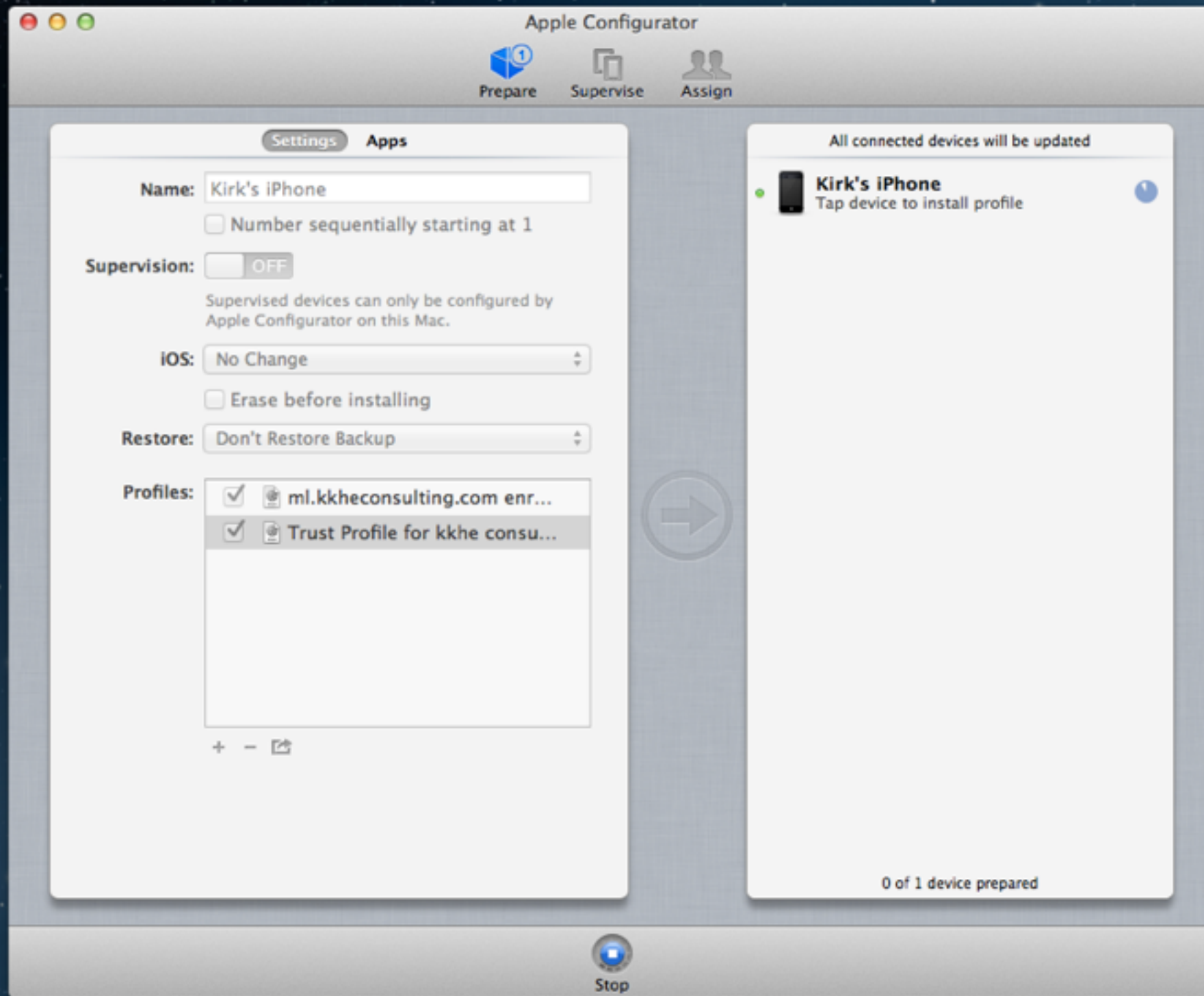


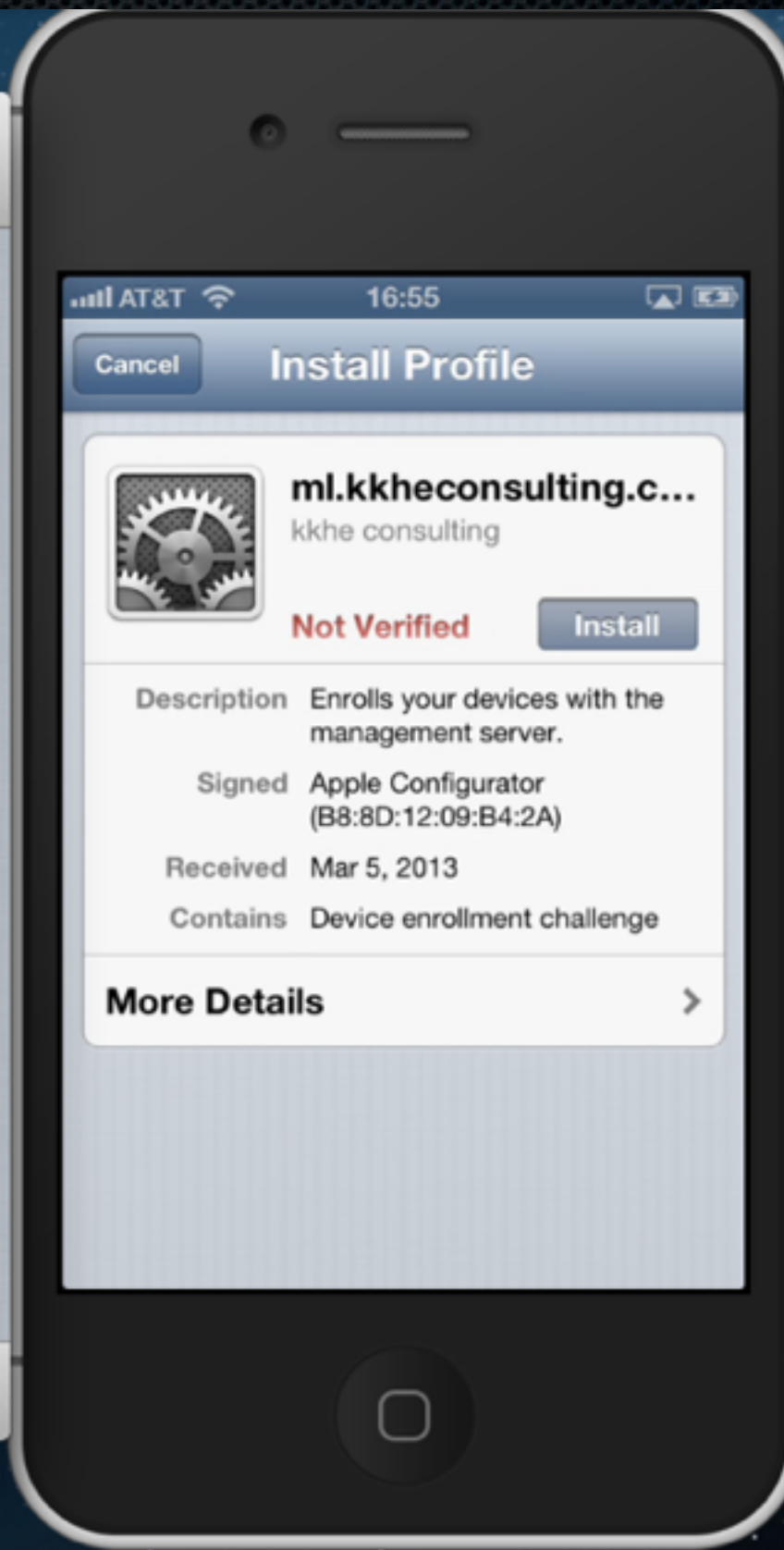
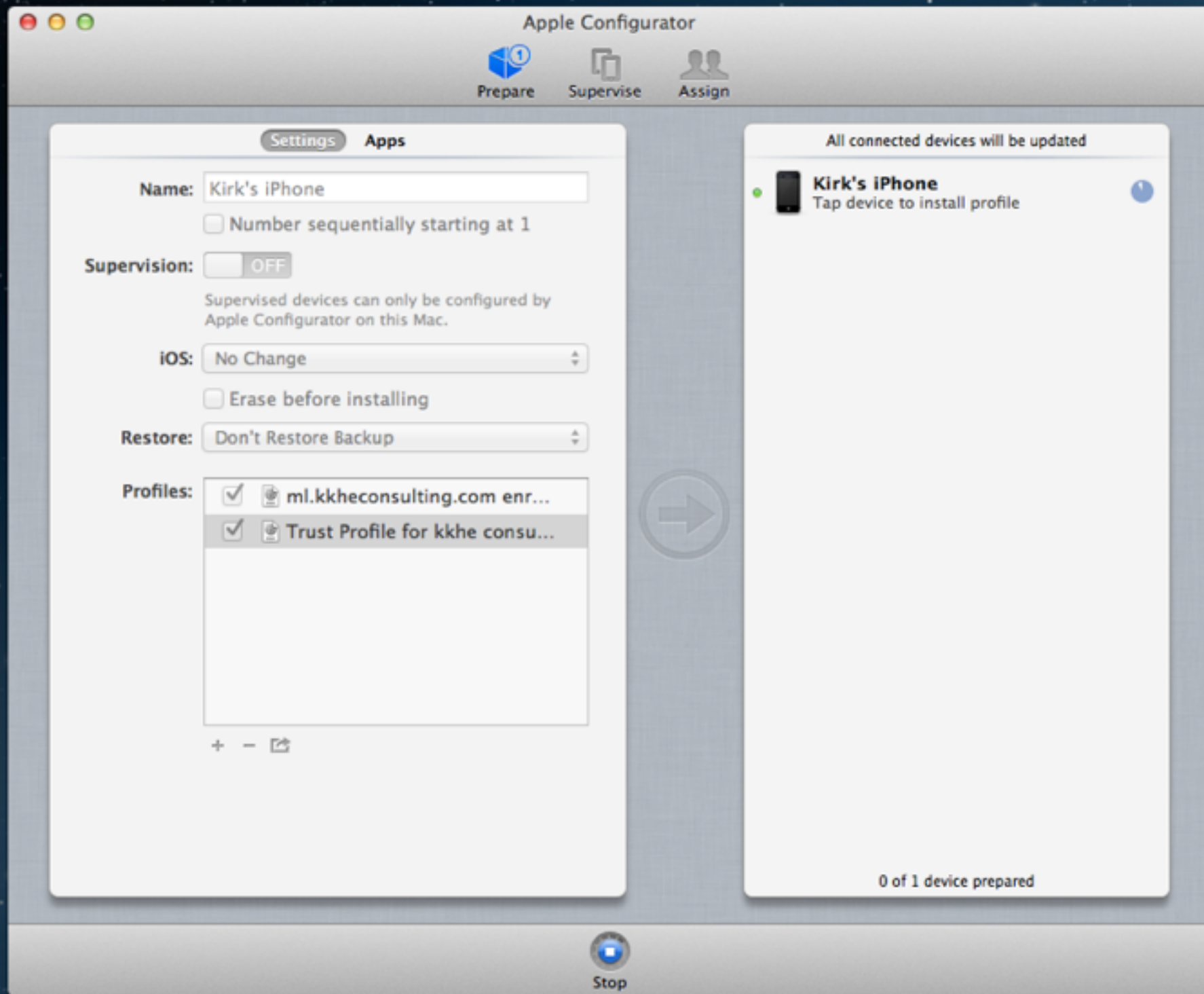
Start Preparing Devices

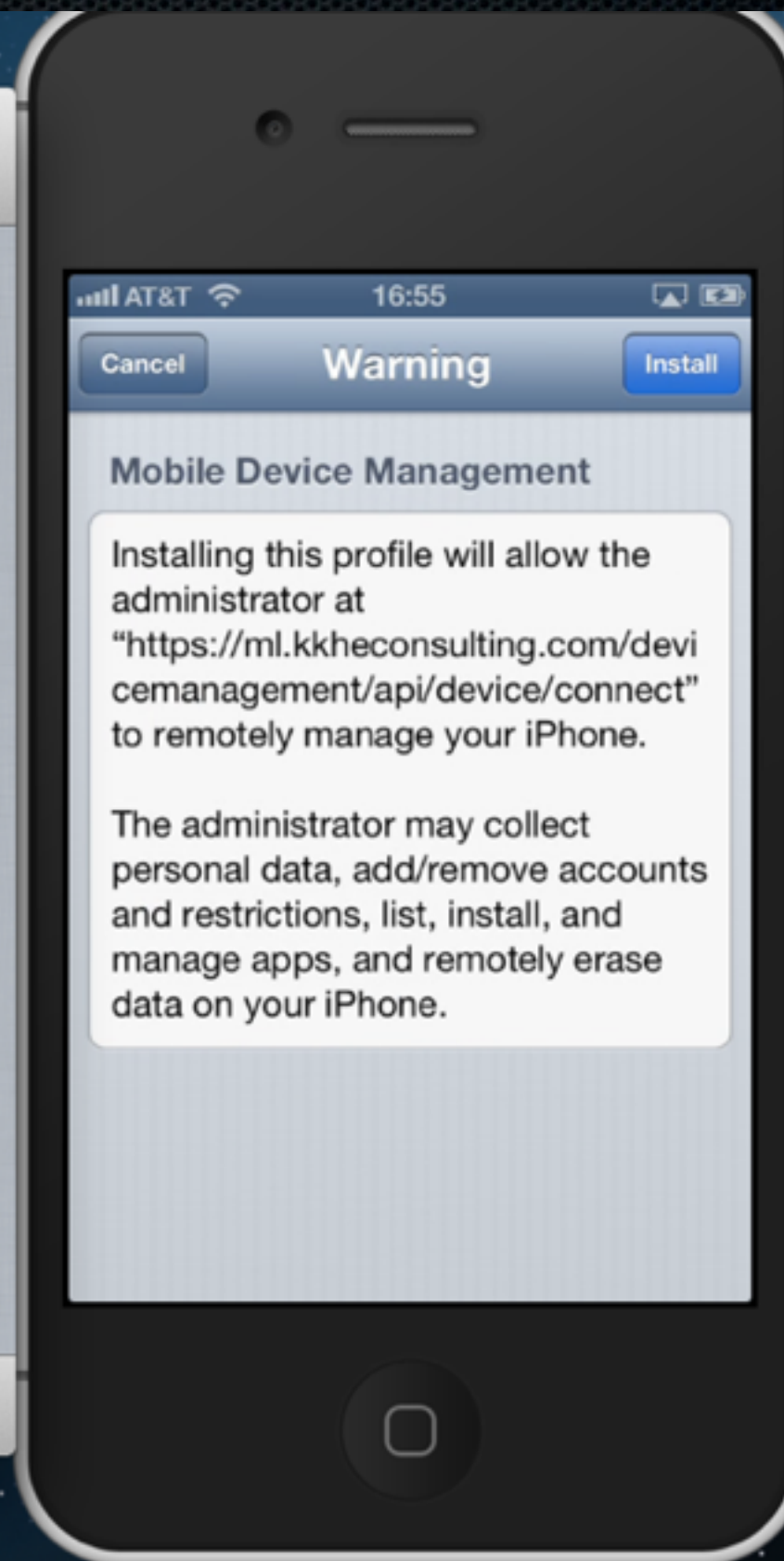
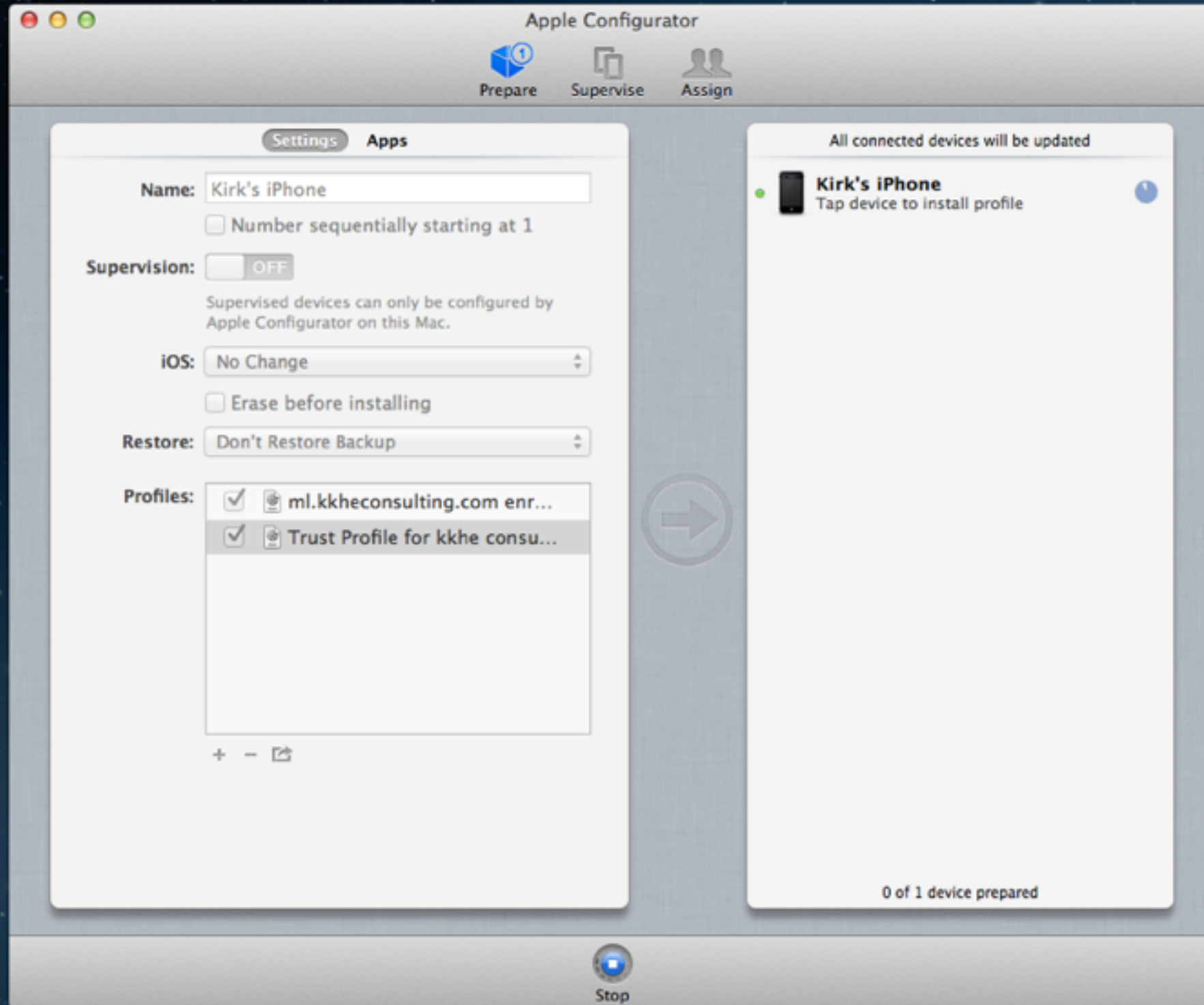


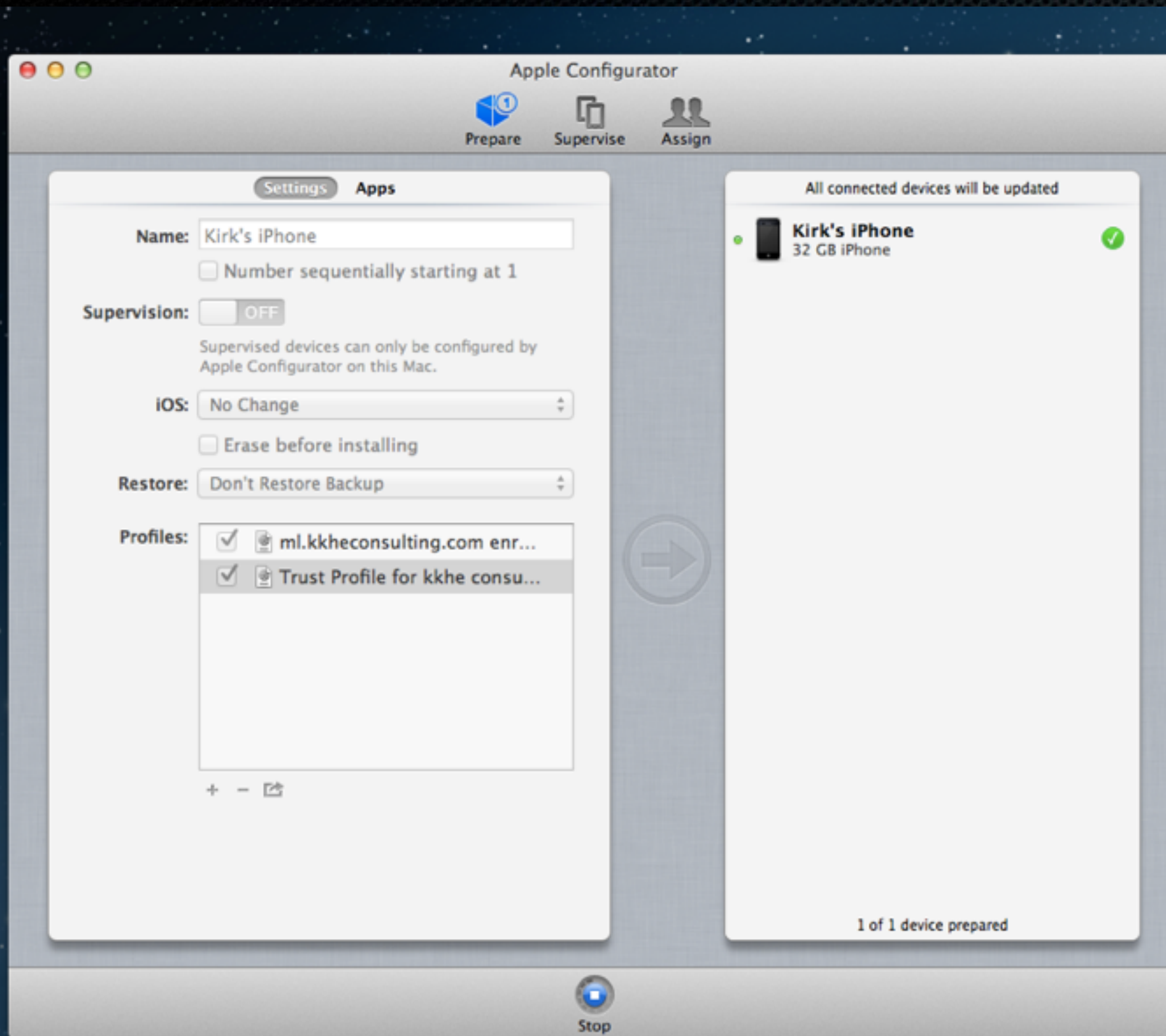


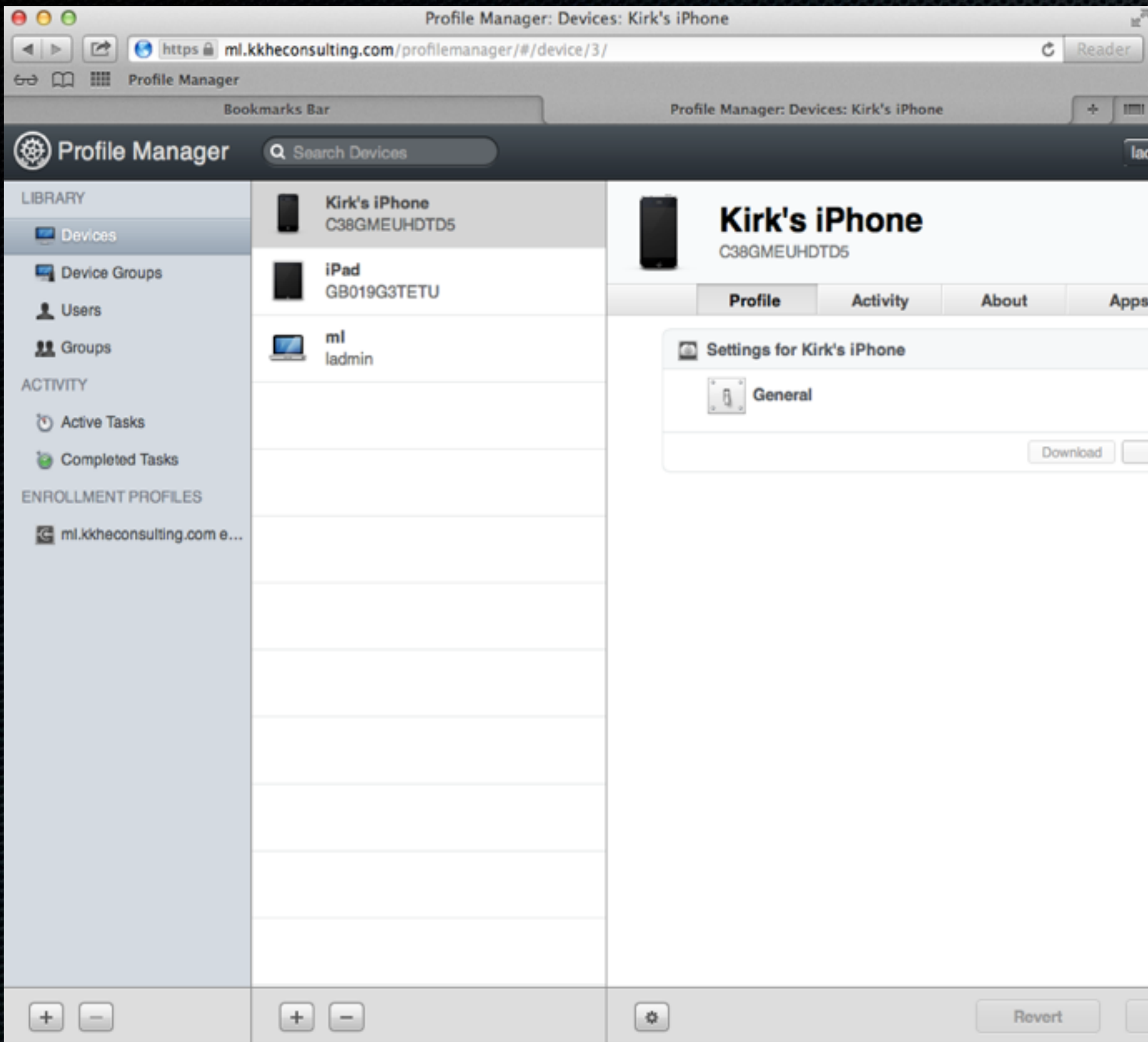













 **Profile Manager**

Search Device Groups

admin

LIBRARY

 Devices

 Device Groups

 Users

 Groups

ACTIVITY

 Active Tasks

 Completed Tasks

ENROLLMENT PROFILES

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 **All iPads**
1 Member

 **iPhones**
No Members

 **iPhones**
No Members

ProfileMembersActivityAboutApps

 Kirk's iPhone





Settings for iPhones

2 Payloads Configured – Updated 03/05/13 at 4:41 PM

OS X and iOS



General

1 Payload Configured



Passcode

1 Payload Configured



Network

Not Configured



VPN

Not Configured



Certificate

Not Configured



SCEP

Not Configured



Security & Privacy

Not Configured

iOS



Restrictions

Not Configured



Accessibility

Not Configured



Global HTTP Proxy

☒ Allow simple value

Permit the use of repeating, ascending, and descending character sequences

☐ Require alphanumeric value

Requires passcode to contain at least one letter

4

Minimum passcode length

Minimum number of passcode characters allowed

--

Minimum number of complex characters

Minimum number of non-alphanumeric characters allowed

730

Maximum passcode age

Days (1-730) after which the passcode must be changed

--

Maximum Auto-Lock

Device automatically locks when minutes elapse

Passcode history (iOS only)

Number (1-50) of unique passcodes before reuse

--

Maximum grace period for device lock (iOS only)

Maximum amount of time the device can be locked without prompting for passcode on unlock

--

Maximum number of failed attempts

Number of passcode entry attempts allowed before all data on device will be erased

Cancel

OK

LIBRARY

- Devices
- Device Groups
- Users
- Groups

ACTIVITY

- Active Tasks
- Completed Tasks

ENROLLMENT PROFILES

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All iPads
1 Member

iPhones
No Members



iPhones

No Members

Profile

Members

Activity

About

Apps

Settings for iPhones

General

Barcode

Download

Edit



Save Changes?

This might cause settings to be pushed to devices.

Cancel

Save



Revert

Save...

Profile Manager
Search Completed Tasks
ladmin

LIBRARY

- Devices
- Device Groups
- Users
- Groups

ACTIVITY

- Active Tasks
- Completed Tasks

ENROLLMENT PROFILES

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Update Info
1 succeeded

Push Settings: Settings for iP...
1 succeeded

Update Info: Kirk's iPhone
Succeeded

Update Info: Kirk's iPhone
Succeeded

Update Info: Kirk's iPhone
Succeeded

Update Info: Kirk's iPhone
Succeeded

Push Settings: Settings for iP...
1 succeeded

Update Info
1 succeeded

Push Settings
1 succeeded

Push Settings
1 succeeded

Push Settings
1 succeeded

Push Settings
1 succeeded

Update Info
1 succeeded

Devices

Kirk's iPhone	Succeeded	03/05/13 at 4:59 PM
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17:00

General
Profiles

Configuration Profiles

- TestFlight WebClip**
testflightapp.com
- Trust Profile for kkhe co...**
- Remote Management**
kkhe consulting
- Settings for iPhones**
kkhe consulting

Provisioning Profiles

- Team Provisioning Profile**
Expires on Feb 27, 2014

Profile Manager

Search Completed Tasks

ladmin

LIBRARY

Devices

Device Groups

Users

Groups

ACTIVITY

Active Tasks

Completed Tasks

ENROLLMENT PROFILES

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Update Info

1 succeeded

Push Settings: Settings for iP...

1 succeeded

Update Info: Kirk's iPhone

Succeeded

Update Info: Kirk's iPhone

Succeeded

Update Info: Kirk's iPhone

Succeeded

Update Info: Kirk's iPhone

Succeeded

Push Settings: Settings for iP...

1 succeeded

Update Info

1 succeeded

Push Settings

1 succeeded

Push Settings

1 succeeded

Push Settings

1 succeeded

Push Settings

1 succeeded

Update Info

1 succeeded

Devices

Kirk's iPhone

Succeeded

03/05/13 at 4:59 PM



Resources

- JAMF Nation
- MacBrained
- Apple enterprise Google group
- <https://www.apple.com/iphone/business/it/management.html>
- <https://developer.apple.com/videos/wwdc/2014>
(Managing Apple Devices)
- <http://support.apple.com/kb/TS4264> (MDM)

Questions?



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