

# Mass iOS Deployments

Charles Edge  
Chief Technology Officer, 318  
[krypted.com](http://krypted.com)

# What We'll Cover

- Volume Purchasing
- “Imaging”
- Management
- Data
- Use Cases
- Q&A

# What We'll Cover

- Volume Purchasing
- “Imaging”
- Management
- Data
- Use Cases
- Q&A

# Apps



VPP = Groupons

# AppleIDs

# Toner



Volume Purchase Codes									
Order Number		JURG2DD669							
Product		Keynote, v1.6.1							
Purchaser		Charles Edge <krypted@me.com>							
Codes Purchased		9481							
Codes Redeemed		0							
Codes Remaining		9481							
Code		Redemption Link							
7PKT6YNTJABC		<a href="https://buy.itunes.apple.com/WebObjects/MZFinance.woa/wa/freeProductCodeWizard?code=7PKT6YNTJABC">https://buy.itunes.apple.com/WebObjects/MZFinance.woa/wa/freeProductCodeWizard?code=7PKT6YNTJABC</a>							
7PKT6YNTJABC		<a href="https://buy.itunes.apple.com/WebObjects/MZFinance.woa/wa/freeProductCodeWizard?code=XAPYAFPWYABC">https://buy.itunes.apple.com/WebObjects/MZFinance.woa/wa/freeProductCodeWizard?code=XAPYAFPWYABC</a>							
LH7K9RX6MABC		<a href="https://buy.itunes.apple.com/WebObjects/MZFinance.woa/wa/freeProductCodeWizard?code=LH7K9RX6MABC">https://buy.itunes.apple.com/WebObjects/MZFinance.woa/wa/freeProductCodeWizard?code=LH7K9RX6MABC</a>							
JAFFRAFEWABC		<a href="https://buy.itunes.apple.com/WebObjects/MZFinance.woa/wa/freeProductCodeWizard?code=JAFFRAFEWABC">https://buy.itunes.apple.com/WebObjects/MZFinance.woa/wa/freeProductCodeWizard?code=JAFFRAFEWABC</a>							
R3M7JP99AABC		<a href="https://buy.itunes.apple.com/WebObjects/MZFinance.woa/wa/freeProductCodeWizard?code=R3M7JP99AABC">https://buy.itunes.apple.com/WebObjects/MZFinance.woa/wa/freeProductCodeWizard?code=R3M7JP99AABC</a>							
FKTKNTJM6ABC		<a href="https://buy.itunes.apple.com/WebObjects/MZFinance.woa/wa/freeProductCodeWizard?code=FKTKNTJM6ABC">https://buy.itunes.apple.com/WebObjects/MZFinance.woa/wa/freeProductCodeWizard?code=FKTKNTJM6ABC</a>							
9HX4KNX9XABC		<a href="https://buy.itunes.apple.com/WebObjects/MZFinance.woa/wa/freeProductCodeWizard?code=9HX4KNX9XABC">https://buy.itunes.apple.com/WebObjects/MZFinance.woa/wa/freeProductCodeWizard?code=9HX4KNX9XABC</a>							

# VPP Code Distribution



Gift This App  
Add to Wish List  
Tell a Friend  
Copy Link  
Share On Facebook  
Share On Twitter

# iTunes Gift Codes

You Have  
 Received a Gift!

Charles

My new fav song... funny they don't play it on the radio (they play most of the rest of his album)... but this one is SOOO good.

PSTEEN



**Song: Tailgate Blues**  
Luke Bryan

Release Date: August 5, 2011  
Genre: Country  
© © 2011 Capitol Records Nashville. All rights reserved.  
Unauthorized reproduction is a violation of applicable laws.  
Manufactured by Capitol Records Nashville, 3322 West End  
Avenue, 11th Floor, Nashville, TN 37203

REDEEM NOW

# iTunes Gift Codes

# iTunes Gift Codes



<https://buy.itunes.apple.com/WebObjects/MZFinance.woa/wa/com.apple.jingle.app.finance.DirectAction/freeProductCodeWizard?code=LYVWW6JTXJWWK&mt=8>

# iTunes Gift Codes



<https://buy.itunes.apple.com/WebObjects/MZFinance.woa/wa/com.apple.jingle.app.finance.DirectAction/freeProductCodeWizard?code=LYVWV6JTXJWWK&mt=8>

# iTunes Gift Codes

LYWW6JTXJWWK

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7PKT6YNTJABC	<a href="https://buy.itunes.apple.com/WebObjects/MZFinance.woa/wa/freeProductCodeWizard?code=XAPYAFPWYABC">https://buy.itunes.apple.com/WebObjects/MZFinance.woa/wa/freeProductCodeWizard?code=XAPYAFPWYABC</a>
LH7K9RX6MABC	<a href="https://buy.itunes.apple.com/WebObjects/MZFinance.woa/wa/freeProductCodeWizard?code=LH7K9RX6MABC">https://buy.itunes.apple.com/WebObjects/MZFinance.woa/wa/freeProductCodeWizard?code=LH7K9RX6MABC</a>
JAFFRAFEWABC	<a href="https://buy.itunes.apple.com/WebObjects/MZFinance.woa/wa/freeProductCodeWizard?code=JAFFRAFEWABC">https://buy.itunes.apple.com/WebObjects/MZFinance.woa/wa/freeProductCodeWizard?code=JAFFRAFEWABC</a>
R3M7JP99AABC	<a href="https://buy.itunes.apple.com/WebObjects/MZFinance.woa/wa/freeProductCodeWizard?code=R3M7JP99AABC">https://buy.itunes.apple.com/WebObjects/MZFinance.woa/wa/freeProductCodeWizard?code=R3M7JP99AABC</a>
FKTKNTJM6ABC	<a href="https://buy.itunes.apple.com/WebObjects/MZFinance.woa/wa/freeProductCodeWizard?code=FKTKNTJM6ABC">https://buy.itunes.apple.com/WebObjects/MZFinance.woa/wa/freeProductCodeWizard?code=FKTKNTJM6ABC</a>
9HX4KNX9XABC	<a href="https://buy.itunes.apple.com/WebObjects/MZFinance.woa/wa/freeProductCodeWizard?code=9HX4KNX9XABC">https://buy.itunes.apple.com/WebObjects/MZFinance.woa/wa/freeProductCodeWizard?code=9HX4KNX9XABC</a>

iTunes Gift Codes



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7PKT6YNTJABC	<a href="https://buy.itunes.apple.com/WebObjects/MZFinance.woa/wa/freeProductCodeWizard?code=XAPYAFPWYABC">https://buy.itunes.apple.com/WebObjects/MZFinance.woa/wa/freeProductCodeWizard?code=XAPYAFPWYABC</a>
LH7K9RX6MABC	<a href="https://buy.itunes.apple.com/WebObjects/MZFinance.woa/wa/freeProductCodeWizard?code=LH7K9RX6MABC">https://buy.itunes.apple.com/WebObjects/MZFinance.woa/wa/freeProductCodeWizard?code=LH7K9RX6MABC</a>
JAFFRAFEWABC	<a href="https://buy.itunes.apple.com/WebObjects/MZFinance.woa/wa/freeProductCodeWizard?code=JAFFRAFEWABC">https://buy.itunes.apple.com/WebObjects/MZFinance.woa/wa/freeProductCodeWizard?code=JAFFRAFEWABC</a>
R3M7JP99AABC	<a href="https://buy.itunes.apple.com/WebObjects/MZFinance.woa/wa/freeProductCodeWizard?code=R3M7JP99AABC">https://buy.itunes.apple.com/WebObjects/MZFinance.woa/wa/freeProductCodeWizard?code=R3M7JP99AABC</a>
FKTKNTJM6ABC	<a href="https://buy.itunes.apple.com/WebObjects/MZFinance.woa/wa/freeProductCodeWizard?code=FKTKNTJM6ABC">https://buy.itunes.apple.com/WebObjects/MZFinance.woa/wa/freeProductCodeWizard?code=FKTKNTJM6ABC</a>
9HX4KNX9XABC	<a href="https://buy.itunes.apple.com/WebObjects/MZFinance.woa/wa/freeProductCodeWizard?code=9HX4KNX9XABC">https://buy.itunes.apple.com/WebObjects/MZFinance.woa/wa/freeProductCodeWizard?code=9HX4KNX9XABC</a>

VPP Codes

### Download Instructions – Mac App Store

Before you attempt to redeem your codes and download the software, please verify that:

- You have an Apple ID that has purchased Mac App Store Apps or iTunes purchases. If not, you will need to create a new Apple ID (go to <http://appleid.apple.com>)
- You have enough free space on your HD for the download – 5GB
- You have a dependable network connection (wired is preferable)
- Your Mac App Store is set to the Country associated with your Apple ID

Click here to start the OS X Mountain Lion seed download:

[macappstores://buy.itunes.apple.com/WebObjects/MZFinance.woa/wa/redeemLandingPage?code=9MYJYB](http://macappstores://buy.itunes.apple.com/WebObjects/MZFinance.woa/wa/redeemLandingPage?code=9MYJYB)

# Developer Connection





**Sign In to download from the iTunes Store**

If you have an Apple ID and password, enter them here. If you've used the iTunes Store or iCloud, for example, you have an Apple ID.

Apple ID

Password  [Forgot?](#)

☐ Remember password



# Redeem With AppleID



# Or Apple Configurator

# Prepare



# Or Apple Configurator



# Prepare

# Supervise



# Or Apple Configurator



# MDM

# MDM



# No In-App Purchasing Support



# No Newsstand

# What We'll Cover

# What We'll Cover

- Management
- Data
- Use Cases
- Q&A



# The Tools







# iTunes Tasks

The iTunes logo, which is a blue circle containing a white musical note, is positioned in the background of the slide.

- Make Backups
- Restore Backups
- Buy/Install Apps
- Sync Data to Apps
- Configure Device

# Gotchas

- One Device At A Time
- Labor Intensive
- AppleIDs
- Apps Must Be In iTunes







# Apple Configurator

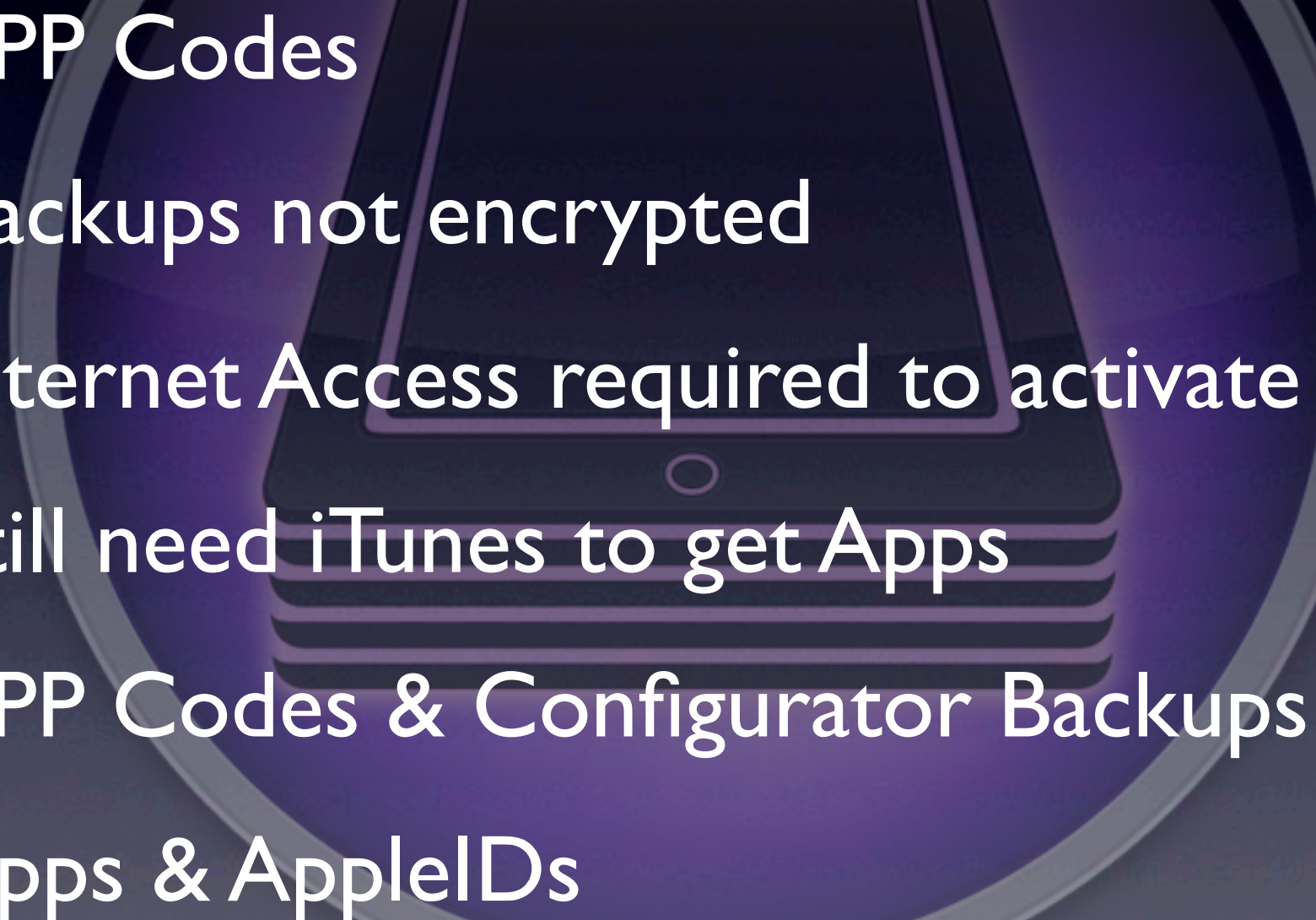


# Apple Configurator



- Backup
- Restore Configuration
- Deploy Apps
- Sync Data to Apps (Manage)
- Configure Non-Encrypted Settings
- Install Profiles (e.g. Casper Enrollment)



- 
- VPP Codes
  - Backups not encrypted
  - Internet Access required to activate
  - Still need iTunes to get Apps
  - VPP Codes & Configurator Backups
  - Apps & AppleIDs



# Gotchas



- VPP Codes
- Backups not encrypted
- Internet Access required to activate
- Still need iTunes to get Apps
- VPP Codes & Configurator Backups
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# Announcement







# iPhone Configuration Utility

# What We'll Cover





# What We'll Cover

- **Management**  JAMF software
- Data
- Use Cases
- Q&A

# Exchange ActiveSync

# Exchange ActiveSync Conflicts



Not Restoring  
(e.g. Backgrounds)

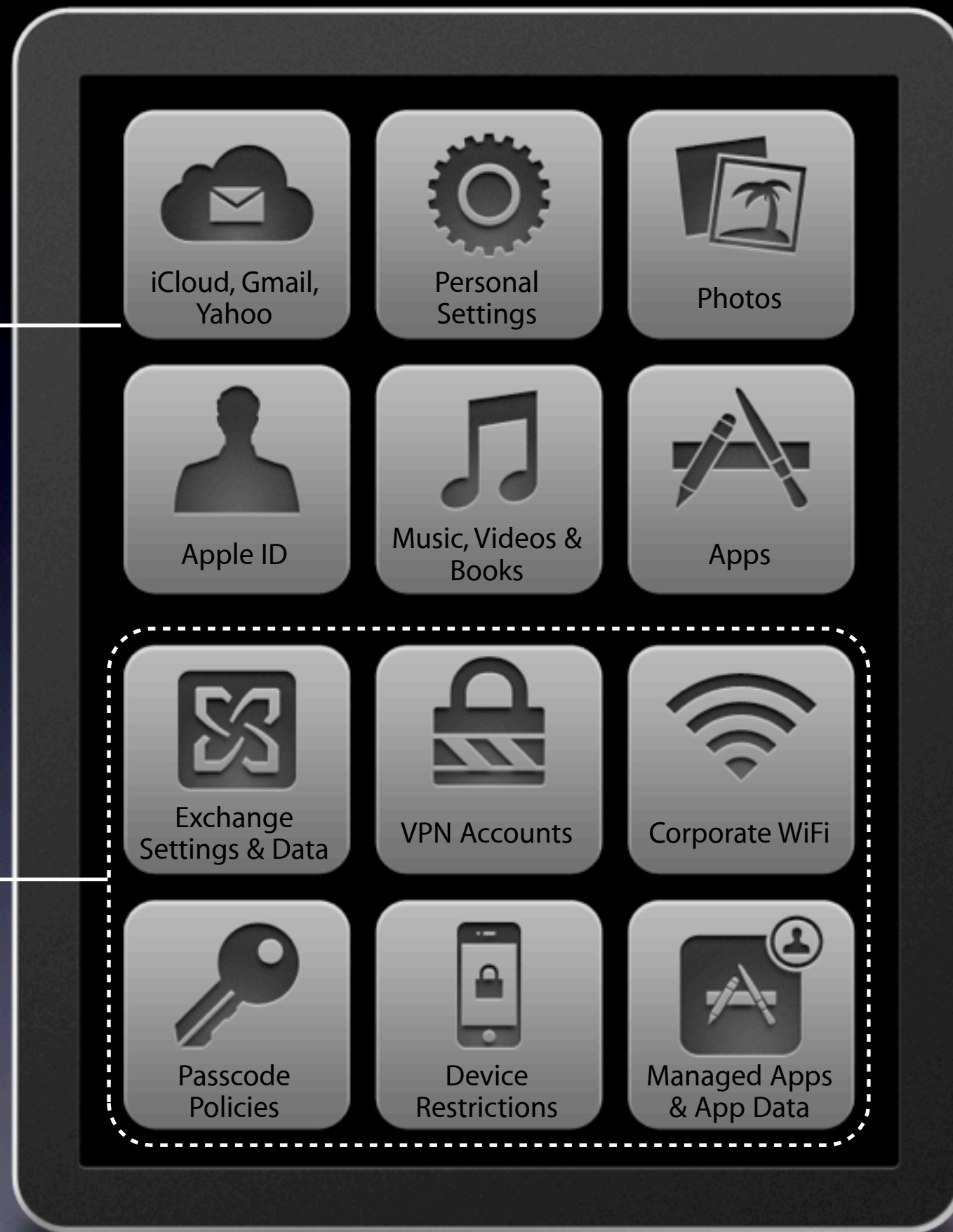
# Think Profiles & Apps

# Users Must Accept Apps

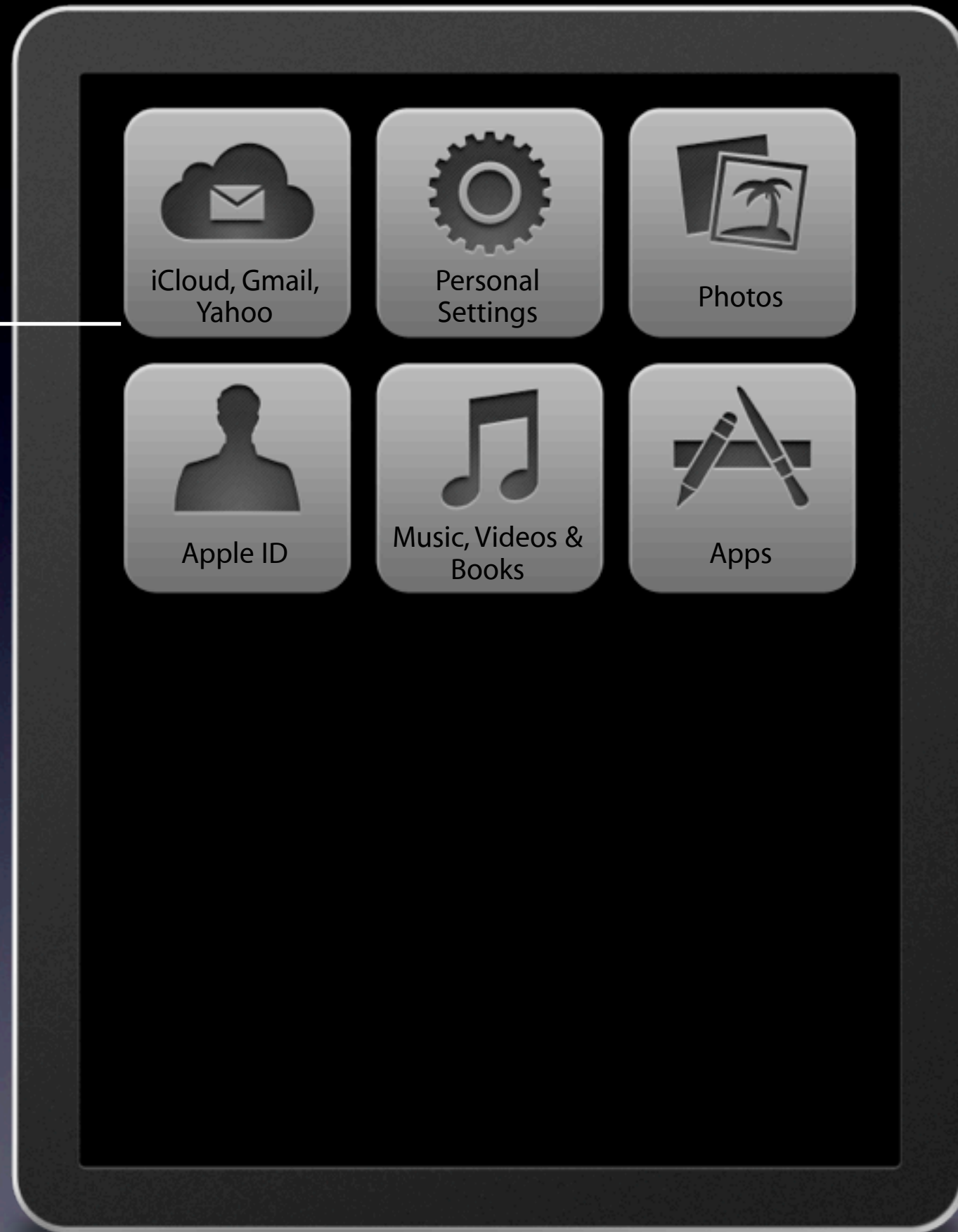


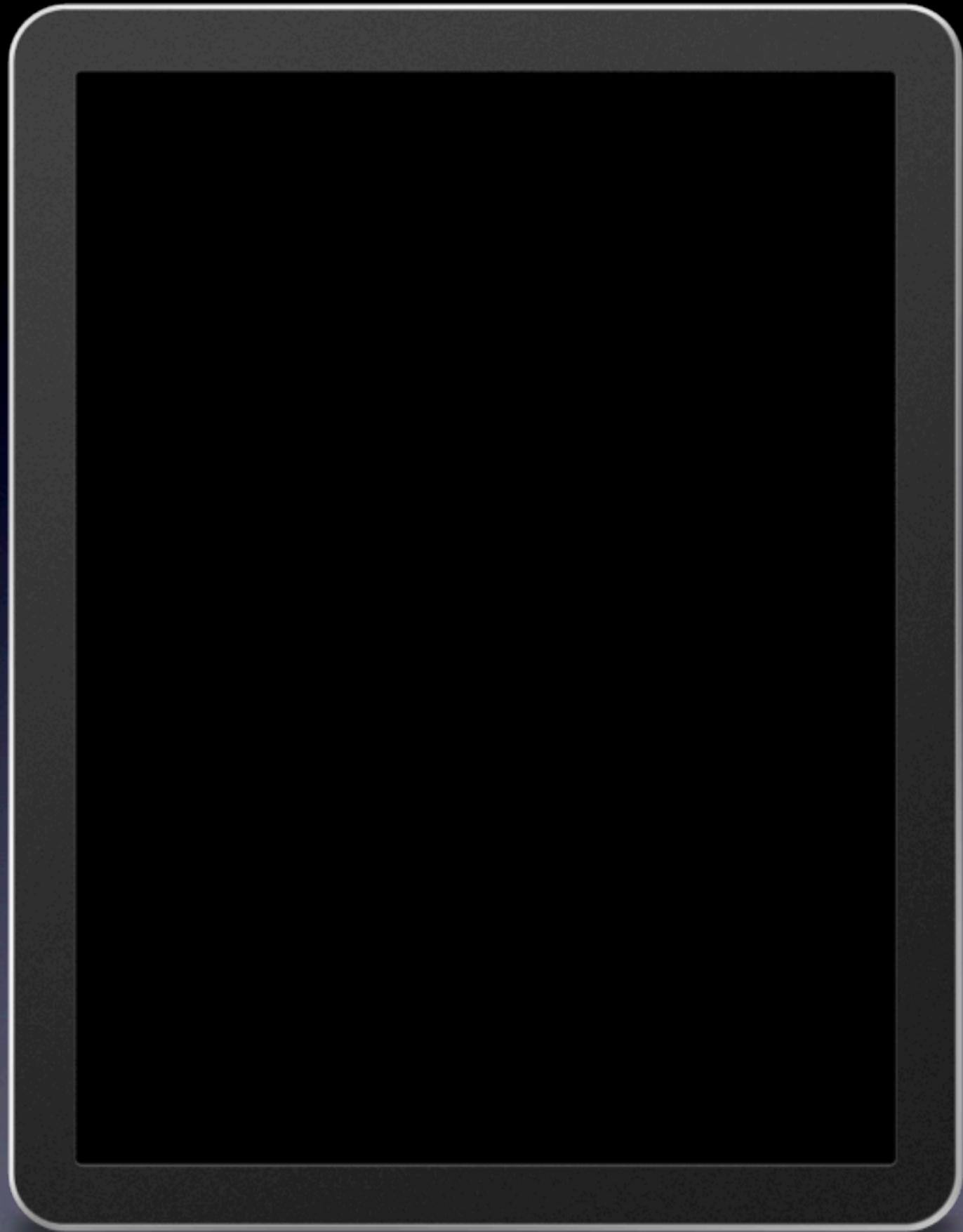
Image

MDM

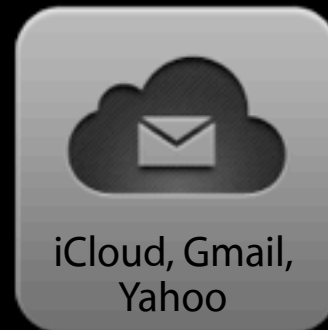


Image



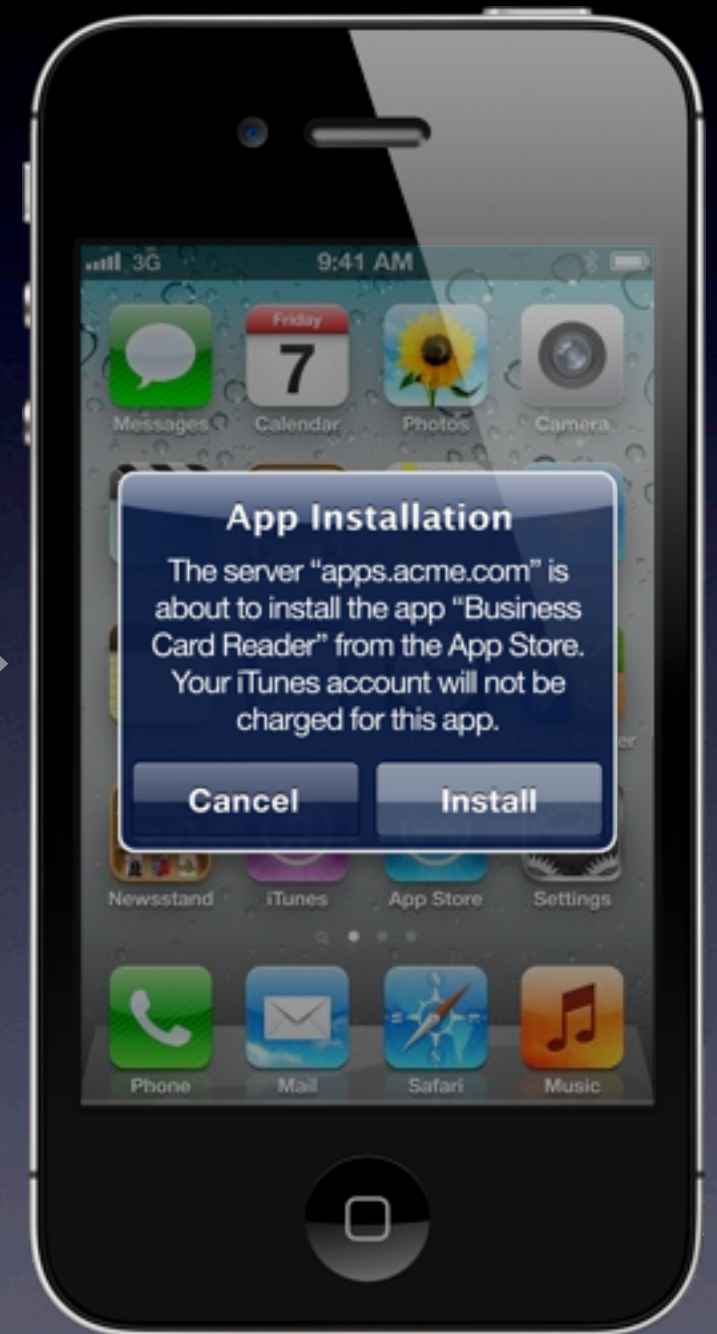






# App Deployment

# App Deployment





# App Deployment



# App Deployment




Does data persist on  
reinstall of app?



# Easy Automated Enrollment


# Export Profiles


InventoryManagementLogsSettings


Search JSS Topics


Logout jssadmin


Mobile Device Enrollment Invitations

Send OTA Invitations

Create Enrollment Profile


OTA Invitations

Enrollment by URL

Enrollment Profiles

### Enrollment Profiles

Create an enrollment profile by clicking the **Create Enrollment Profile** button in the toolbar, and then apply it to a device using iPhone Configuration Utility or Apple Configurator.

	Display Name				
	MDM-iOS5	<a href="#">Download</a>	<a href="#">Edit...</a>	No devices enrolled	<a href="#">Delete...</a>



# Import Profiles To Configurator




# Accept on iPads



Cancel

Install Profile

next image



MDM-iOS5

WSD

Not Verified

Install

Description

Signed

Apple Configurator  
(B8:8D:12:00:CA:2E)

Received

Aug 7, 2012

Contains

Certificate  
SCEP enrollment request  
Mobile Device Management

More Details

>

# Supervision + MDM

# What We'll Cover



# What We'll Cover

- Data
- Use Cases
- Q&A

# Different For Everyone

# iCloud



# Disable iCloud?

# iTunes

# Apple Configurator





A stylized globe centered on the Atlantic Ocean, showing the continents of North and South America. The globe is overlaid with a grid of concentric circles, suggesting signal propagation or network reach. Two specific locations are highlighted: one in the North Atlantic with a green and blue circular glow, and another in the South Atlantic with a yellow and orange circular glow. The text "File Servers" is centered over the globe in a large, white, sans-serif font.

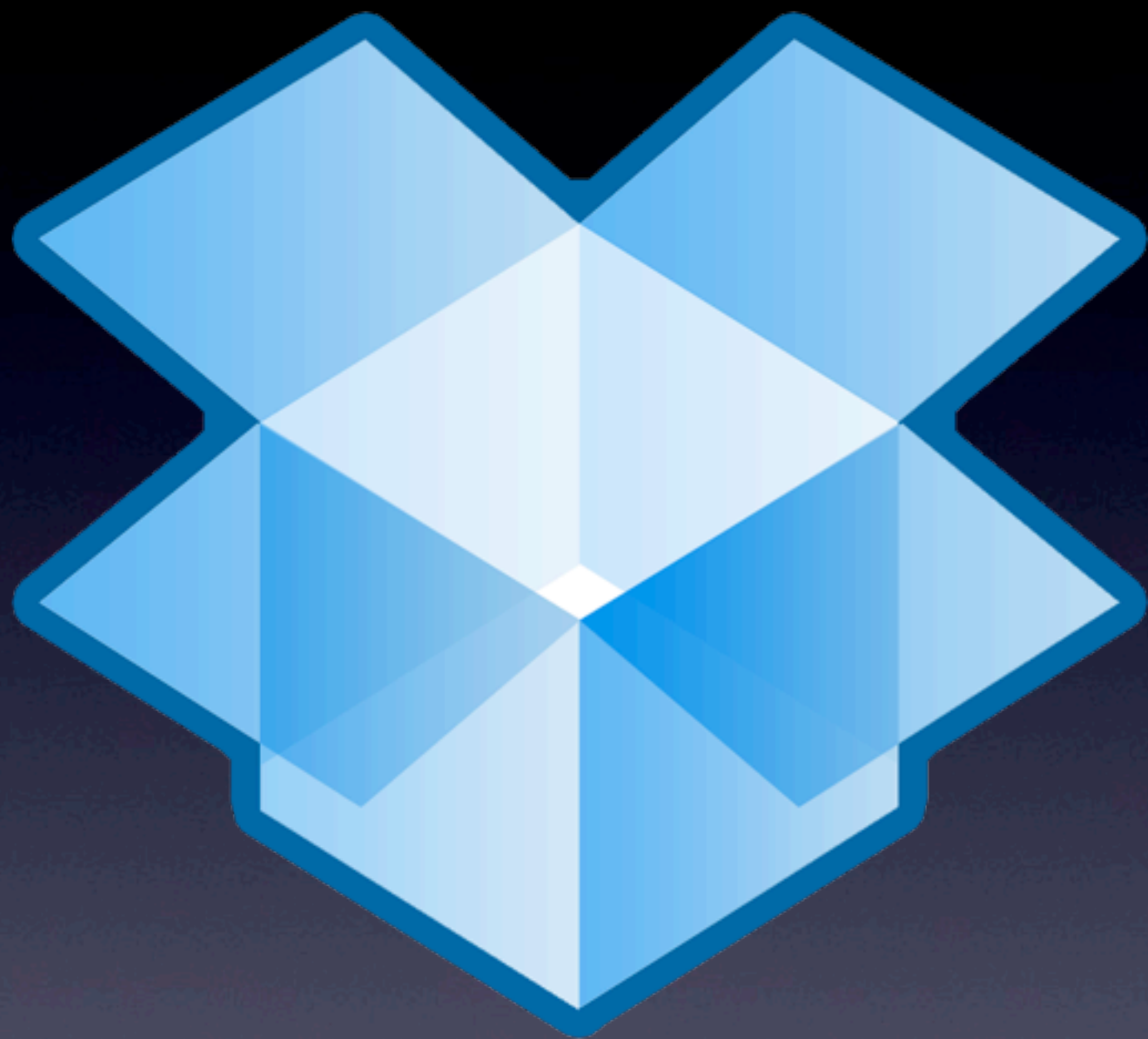
# File Servers





# Apple's Wiki





The Dropbox logo, which is a stylized blue hexagon composed of three overlapping diamond shapes, is centered in the background. Overlaid on this logo is the word "Dropbox" in a white, sans-serif font.

# Dropbox

# Box.net







Sharepoint





The Google Drive logo is centered on a dark blue background. It consists of a large hexagon divided into three overlapping triangles: a teal triangle on the left, a gold triangle on the top right, and a blue triangle on the bottom right. The text "Google Drive" is overlaid on these triangles. "Google" is in white, and "Drive" is in gold.











Google Drive

## Mobile Device App Catalog









Add App

### In-house Apps

	App Name	Version		
	 Chart Visualizer	3.4	<a href="#">Edit</a>	<a href="#">Delete</a>
	 Focus on Health	1.0	<a href="#">Edit</a>	<a href="#">Delete</a>
	 Personnel Records	1.0	<a href="#">Edit</a>	<a href="#">Delete</a>
	 Prescription Tracker	1.0	<a href="#">Edit</a>	<a href="#">Delete</a>
	 Track Your Time	1.1	<a href="#">Edit</a>	<a href="#">Delete</a>

### App Store Apps

	App Name	Version		
	 Apple Store	1.0.2	<a href="#">Edit</a>	<a href="#">Delete</a>
	 JSS Mobile	7.3	<a href="#">Edit</a>	<a href="#">Delete</a>
	 JSS Mobile for iPad	7.3	<a href="#">Edit</a>	<a href="#">Delete</a>

# What We'll Cover



# What We'll Cover

- Use Cases
- Q&A

# Corporate

# Corporate

- Apple Configurator



# Corporate

- Apple Configurator
- Prepare Mode

# Corporate

- Apple Configurator
- Prepare Mode
- MDM

# Corporate

- Apple Configurator
- Prepare Mode
- MDM
- Apps from VPP via MDM



# Corporate

- Apple Configurator
- Prepare Mode
- MDM
- Apps from VPP via MDM
- Data on File Servers

# Corporate

- Apple Configurator
- Prepare Mode
- MDM
- Apps from VPP via MDM
- Data on File Servers
- Automatic MDM Enrollment?

# Lab



# Lab

- Apple Configurator

# Lab

- Apple Configurator
- Supervise Mode

# Lab

- Apple Configurator
- Supervise Mode
- MDM Optional



# Lab

- Apple Configurator
- Supervise Mode
- MDM Optional
- Apps from VPP via Apple Configurator

# Lab

- Apple Configurator
- Supervise Mode
- MDM Optional
- Apps from VPP via Apple Configurator
- Institutional AppleIDs

I to I



# I to I

- Apple Configurator
- Supervise Mode?
- Apps from VPP if using Supervise Mode
- MDM

# I to I Elementary School

# I to I Elementary School

- Apple Configurator
- Supervise Mode?
- MDM
- OR iTunes + MDM



# 3rd Party Imaging Center

# 3rd Party Imaging Center

- Apple Configurator
- Or iTunes?
- MDM?
- No VPP?
- No AppleID?

# BYOD



# BYOD

- End Users Use iTunes

# BYOD

- End Users Use iTunes
- MDM

# BYOD

- End Users Use iTunes
- MDM
- VPP?



# BYOD

- End Users Use iTunes
- MDM
- VPP?
- AppleID?

# Nothing Works!!!

# Nothing Works!!!

- ???



# Nothing Works!!!

- ???
- Logs

# Nothing Works!!!

- ???
- Logs
- iPhone Configuration Utility

# Scripting



# Location Services In Retail

# 802.1x Cert Revocation

# App Versions



# Restricting Apps

# Application Data

# activeEcho



# The Future

# VPP In More Countries

# Regression Testing

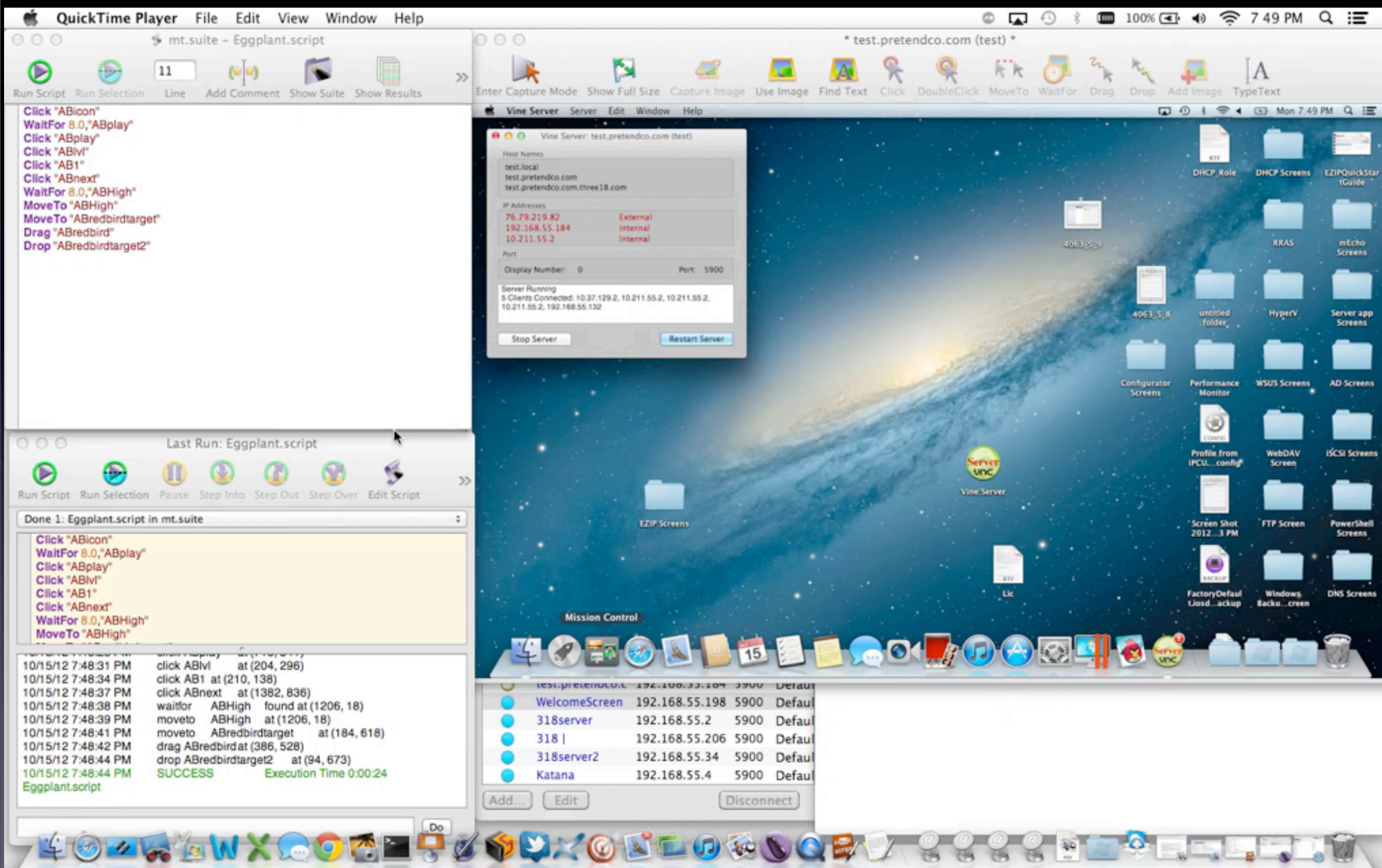


# Simulator

# Eggplant







# Jailbreak



# Needed?



# Bulk Creation From Directory Services

# Bulk Association Of Apps

# App Store Update Server



# What We Covered

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# Q&A