

### Wireless

transferred 105.5 MB in the last

### Client details

Refresh details | Edit details

Name: AOP-Student 20  
 Model: iPad 2  
 Serial: DMPHWMM7DKPH  
 Warranty: [Apple](#)  
 Notes: Nicolel  
 Tags: [Student-IOS recently-added](#)  
 Charge:  5%

### Approximate location

Refresh location

913 Alewa Drive, Honolulu, HI, 96817, United States (via GPS)

### clients per access point

Mouse over or click for more information

### Welcome to Apple Configurator

iOS device configuration, supervision and assignment made easy.

**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](#)

33%

### Edit Mobile Device App

App Info | Scope | VPP Codes

Make this app available to these Mobile Devices

Assign to All Mobile Devices

Assign to Specific Mobile Devices

[Add Mobile Device Groups](#) | [Add Individual Mobile Devices](#) | [Add Departments](#) | [Add Buildings](#)

**Mobile Device Groups** | [Back to top](#)

Mobile Device Group	Remove
Students2014	<a href="#">Remove</a>
Staff	<a href="#">Remove</a>
iPad Cart 20	<a href="#">Remove</a>

**Individual Mobile Devices** | [Back to top](#)

Mobile Device Name	User	Remove
99jcrum	Jim Crum (jcrum)	<a href="#">Remove</a>

WiFi MAC: 84:29:99:21:08:9b  
 Bluetooth MAC: 84:29:99:21:08:9c

Online status | [Check-in now](#)

Last check-in: 09:14 Jun 16 2013

**MDM commands**

Mobile security	Device security
<a href="#">Send notification</a>	<a href="#">Clear passcode</a> <a href="#">Lock device</a> <a href="#">Selective wipe</a> <a href="#">Erase device</a>

iPad setup and Mobile Device Management (MDM) in Education

# Who I am & why you should believe what I say?

- Tech Director & Teacher at Academy of the Pacific (1:1 iPad rollout in 9 months)
- Director of ITS at Iolani School (1:1 iPad rollout program driven by students)
- Owner of Geeks for Good (tech for schools and other nonprofits)

"Computer Guy" since 1990's

# Agenda

- Why you are here and what you want to talk about
- MDM tools from Apple
- MDM options from JAMF, Meraki, etc. and how to pick the right one
- The "dirty dozen" things we've learned in iPad 1:1 Deployments
- Your specific concerns & questions

# How many here are...



• Teacher?

• Tech?

• Both?

# How many use:

IPads?



• Cart?

• Take-home?

## MDM Solution?

• Apple?

• Others? (Which ones?)



# How many here like:

IPads?

• Cart?

• Take-home?



## MDM Solution?

• Apple?

• Others? Which?

What do you care  
about most

Related to this session today?



iPads are here to stay (for now)

They are changing the classroom

- Record sales to education
- Massive rollouts (\$30 Million iPad Deal From LA Unified School District)



They are great tools

- Lightning rods for creativity



# Challenges for IT Managers:



They are consumer-grade devices

- No Administrator ID and lockdown
- No directory to authenticate to that we can manage

They are not very efficient

- Device imaging process is cumbersome and time consuming
- Puts a load on Network traffic (bonjour especially)



So... How do we keep this  
800 pound gorilla happy?

# Mobile Device Management

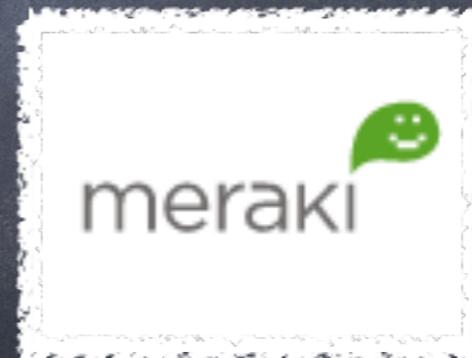


Apple's own

- ◉ Configurator (limited)
- ◉ Apple Server (going away)

## Others

- ◉ Meraki/Cisco
- ◉ JAMF/Casper
- ◉ Many Others



# Apple Configurator

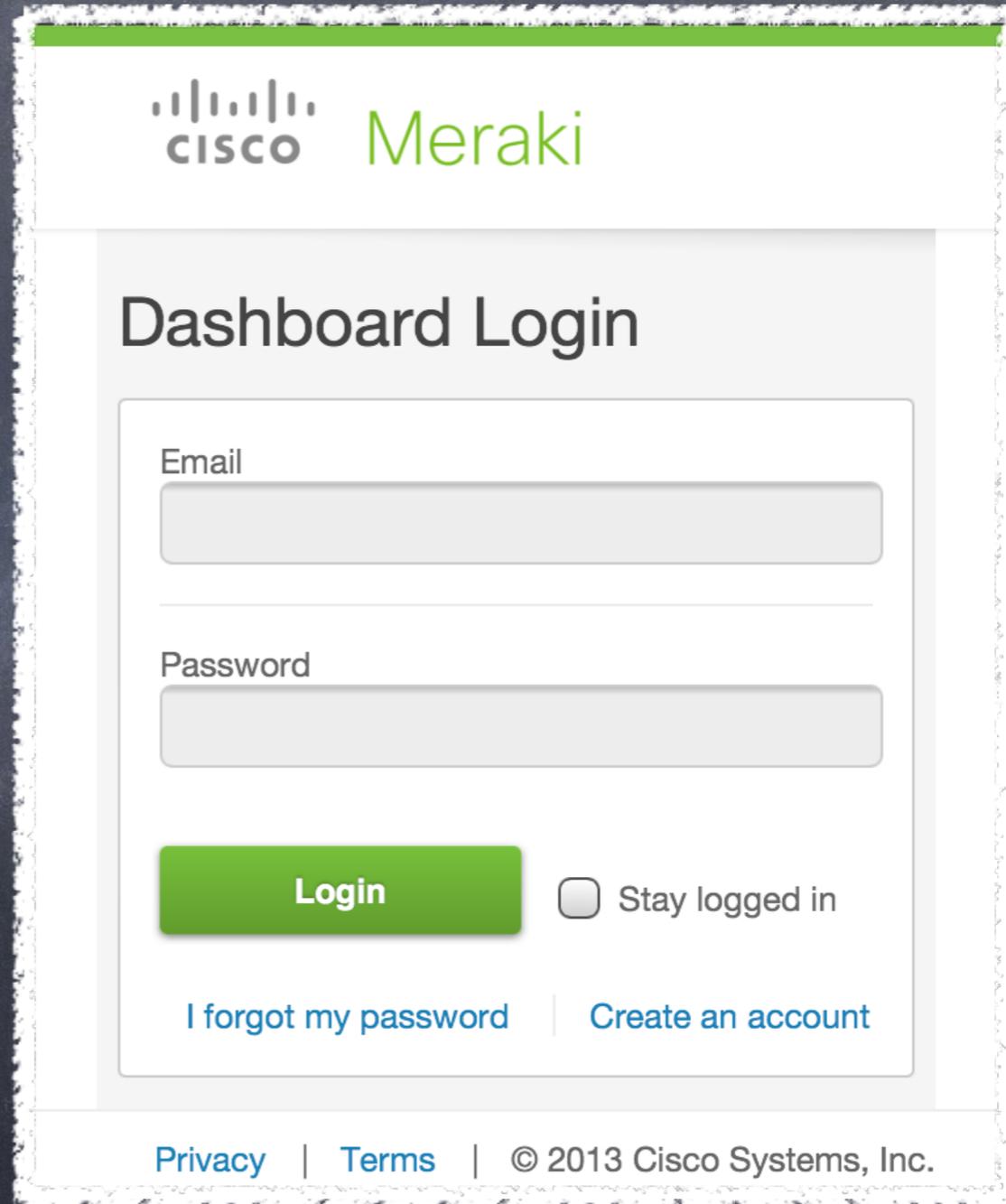
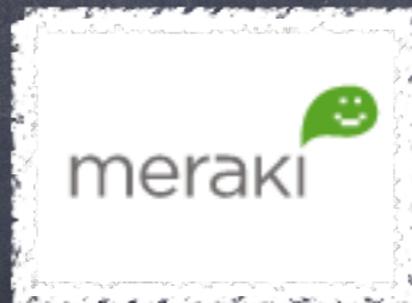


The screenshot shows the Apple Configurator application window. At the top, the title bar reads "Apple Configurator" and contains three icons: "Prepare" (a box with a question mark), "Supervise" (two overlapping rectangles), and "Assign" (two people icons). Below the title bar are three main sections, each with an icon and a description:

- Prepare Devices**: Represented by an icon of three stacked white boxes. The text below reads: "Prep your iOS devices for mass deployment." and "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**: Represented by an icon of a clipboard with a checklist. The text below reads: "Enforce a standard configuration on your iOS devices." and "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**: Represented by an icon of three stylized human figures, with the central one in green holding a tablet. The text below reads: "Assign iOS devices to users in your organization." and "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](#)"

At the bottom of the window, there is a "Start Preparing Devices" button with a small icon of a device and a plus sign.

# Meraki (now Cisco)



# Casper from JAMF



Username:

Password:

Login

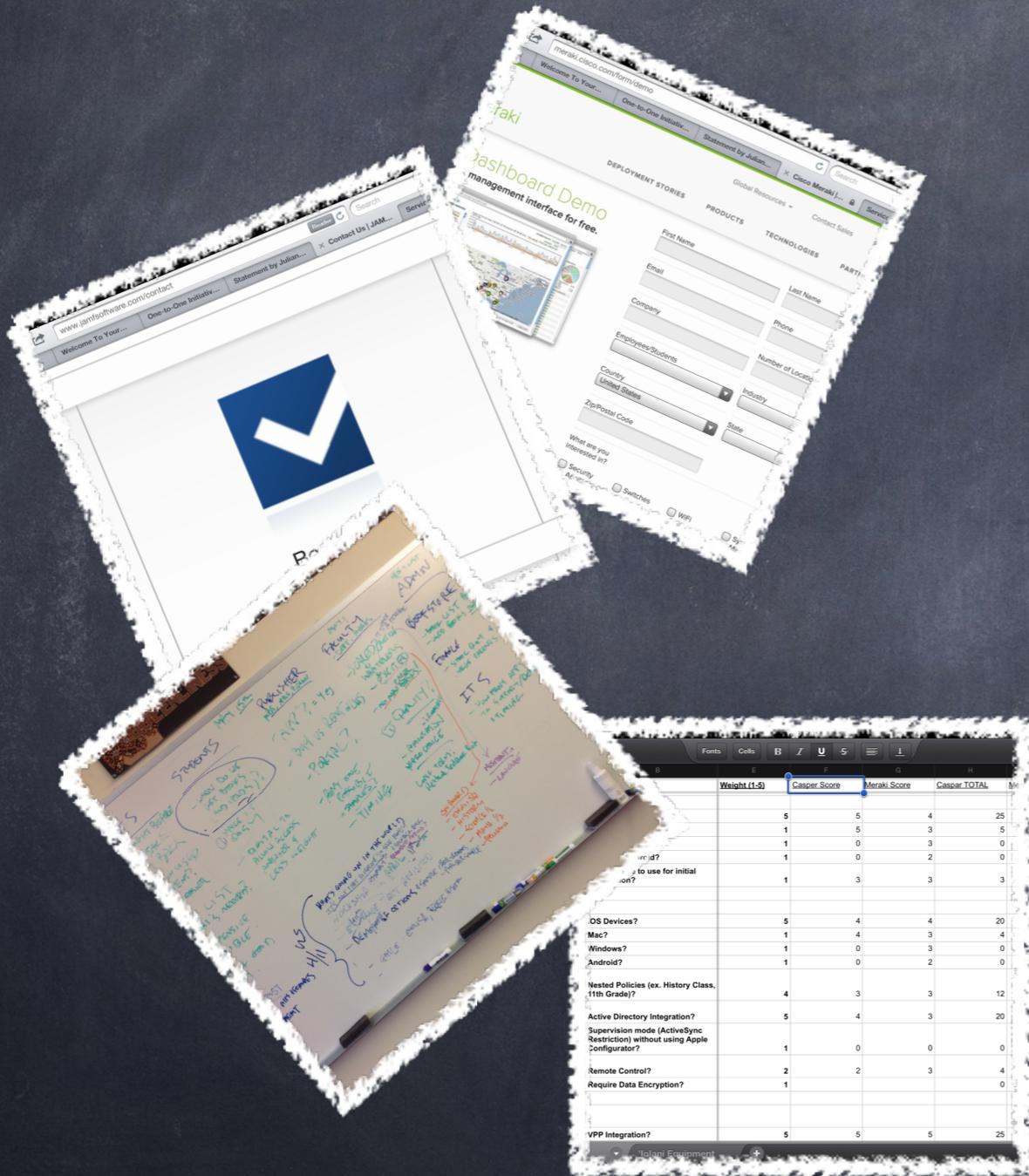
  
Copyright 2012 JAMF Software LLC.

The login form is contained within a rounded rectangular frame with a white border. The background of the form is a solid green color. The text and input fields are white. The "Login" button is a small, rounded rectangle with a white border and a light green fill. The logo and copyright information are located in the bottom right corner of the form.

# How to choose?

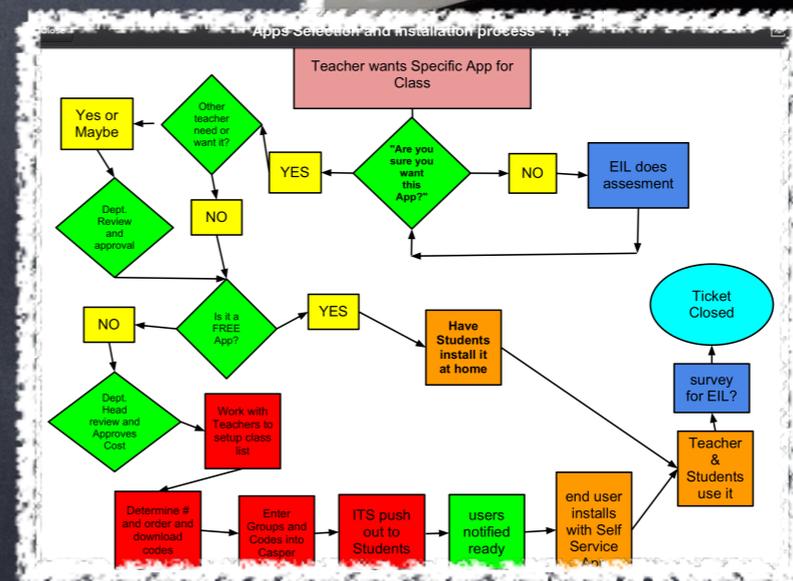
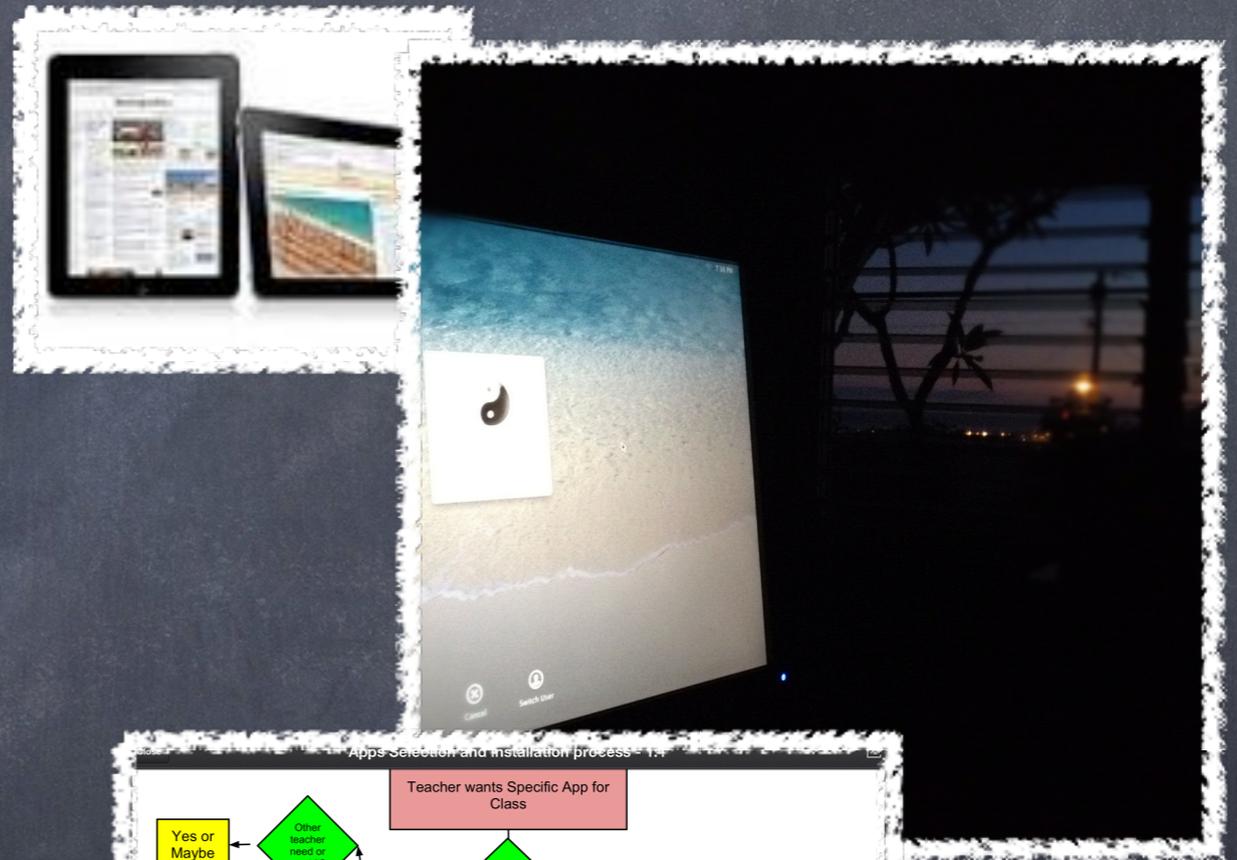
- Demos
- Trial versions
- Define policy
- Weighted analysis

• Involve faculty & admin teams



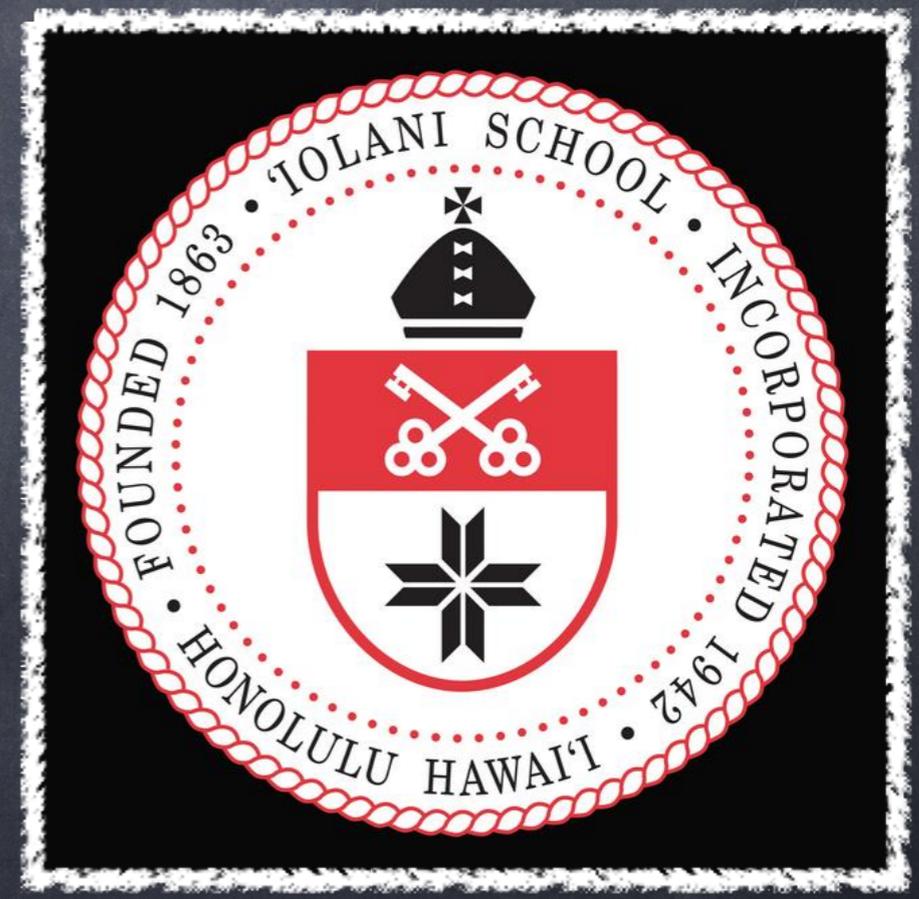
# Other important decisions

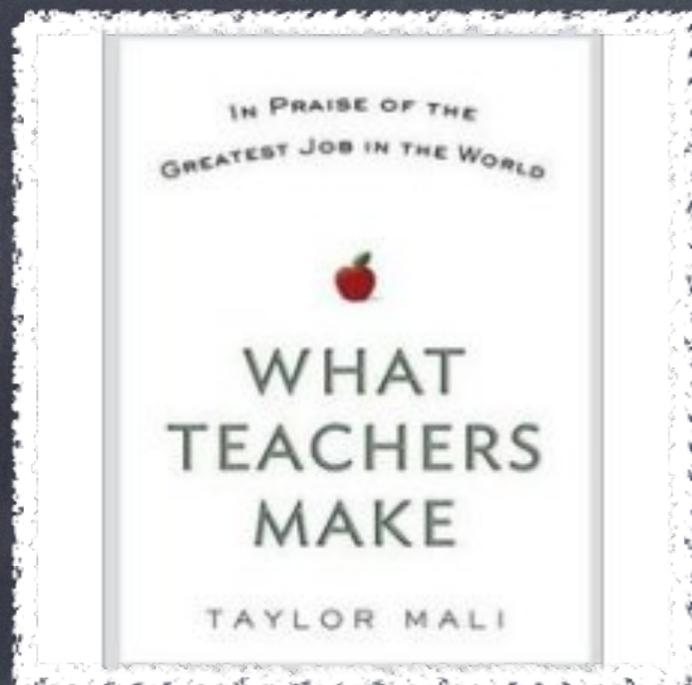
- Apple IDs (Institutional vs. Personal)
- Supervision mode (setup time)
- Apps purchasing policies (School wide, Department, R&D)



A quick review of things  
that help ensure an effective  
one to one deployment..

# Q&A and "Talk Story"





## "What Teachers Make" by Taylor Mali

- The process of learning is more like a series of minor and major lightning bolts that strike the brain
- Teachers make lightning strike over and over again