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EPISCOPAL SCHOOL

1-to-1 with 1 Man



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Designing a 1-to-1 Program

- End dependency on laptop carts
- Allow everyone to exist on the same platform
- Fit our school culture





What is our 1-to-1 Program?

13" Apple MacBook Air

- 3 Year Rotation to match AppleCare
- Case & Sleeve provided
- Microsoft Office 365, Adobe CC Suite, other software licenses
- CrashPlan ProE, OpenDNS Filtering, Dyknow
- Google Apps for Education w/Backupify



Why this VS other Models

- 1-to-1 Provided by the School
- 1-to-1 Purchased by the Family, sudo-BYOD
- BYOD





What things to consider?

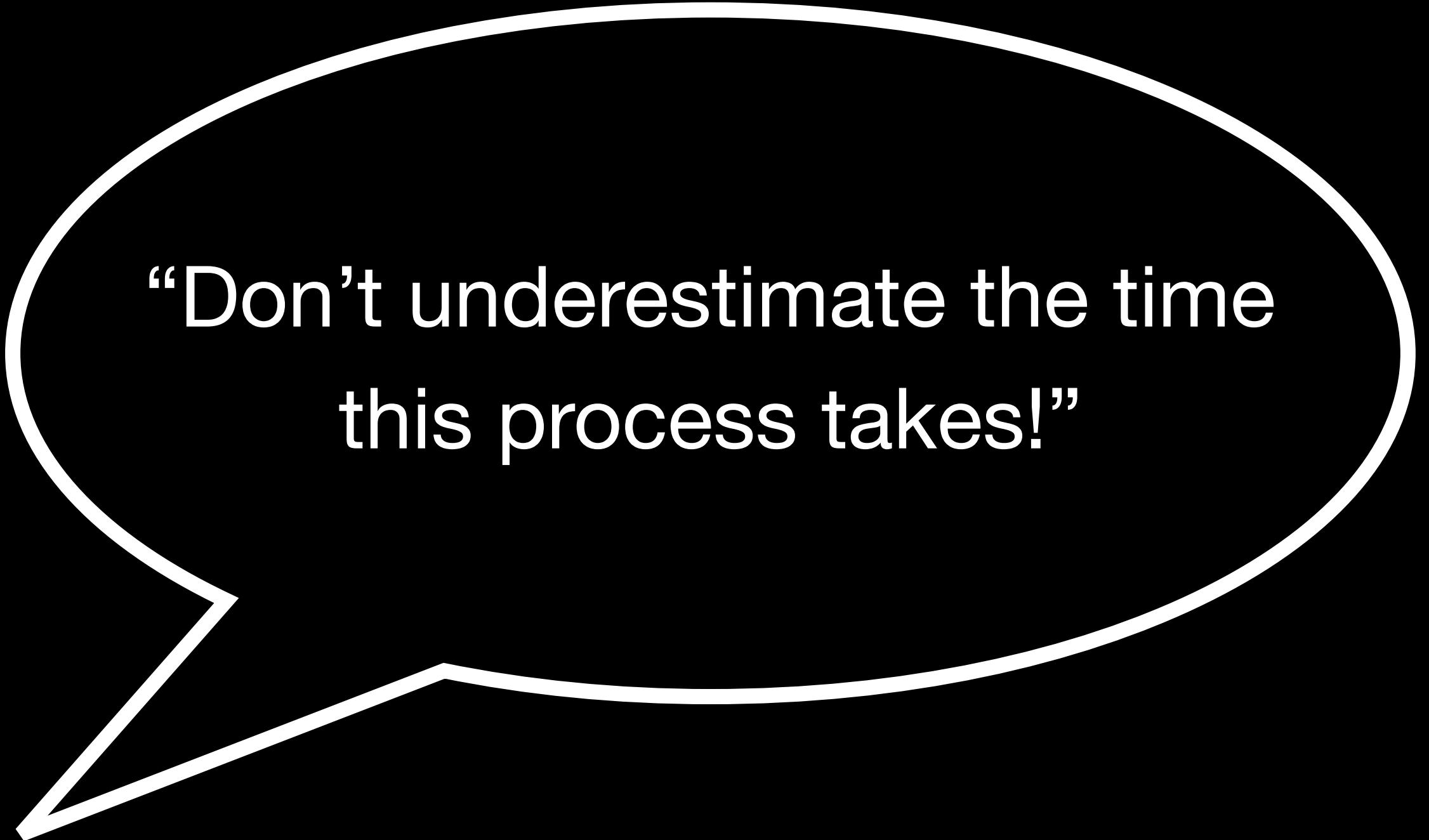
- Power
- ISP Bandwidth
- Backbone Systems
- Wireless System
- Damage and Repairs
- Parental Concerns and Communications



Where do we begin?

Manual Labor

- Unboxing
- Labeling
- Shelling
- Sleeving

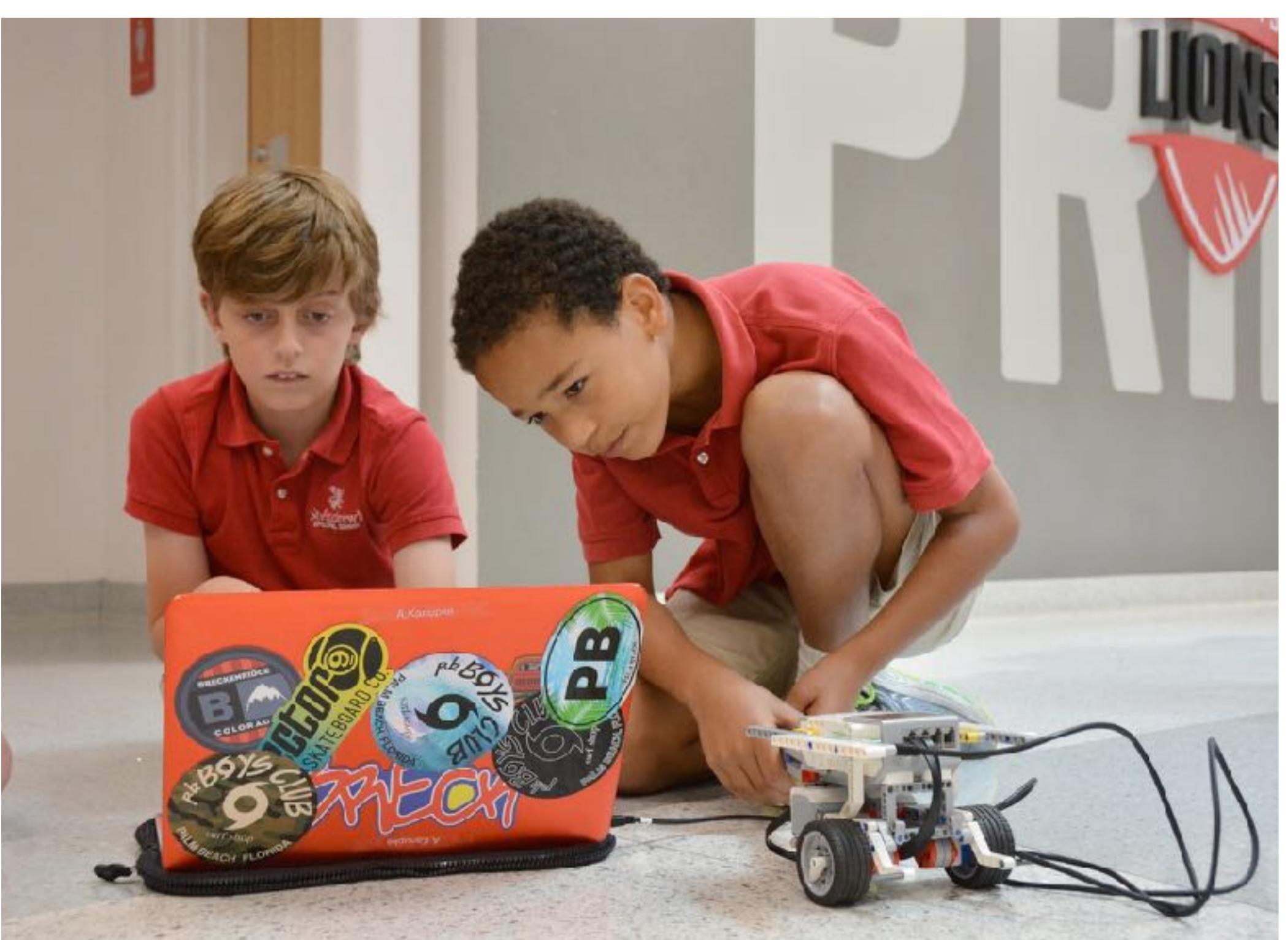


“Don’t underestimate the time
this process takes!”











How do we image?

"Multiply this by hundreds and you are talking hours of difference!"

Full Image vs Thin Image

- Full - 4.5 minutes, roughly
- Thin - 3 minutes, roughly



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The Imaging Shelf





Imagine: Year One



Netbooting over USB to Ethernet Adapter

- USB Ethernet is painfully slow!
- Full OS with Microsoft Office and Adobe Photoshop baked into image
- Lots of PKGs and DMGs to install
- Mix Monolithic/Modular





Imaging: Year Two



Netbooting over Thunderbolt Adapters

- Faster Pipes but same basic install
- Full OS with Microsoft Office 2011 & Adobe Photoshop baked into the image
- Lots of PKGs and DMGs to install
- Mix Monolithic/Modular



Imaging: Year Three & Four



Target Disk Mode

- 4 MacMini Stations with SSDs
- Full OS with Microsoft Office and Adobe Photoshop
- Less PKGs and DMGs, more scripts, policies, download, install, configure
- Mix Monolithic and Modular still



Imaging: Year Five



Target Disk Mode

- Things got REALLY fast!
- 5 MacMini Stations with SSDs
- Thin Image
- Less PKGs and DMGs, more scripts, policies, download, install, configure

What do we install?

- Education Apps
- Settings
- AD Binding
- Printer Drivers
- Scripts

Casper Imaging 9.96

Search

Installation - Target Mode Imaging

Target Drive: Target Mode Imaging

Erase drives connected to this computer

Computer Names: Prompt for Each Computer

Configuration: Thin 10.11 Student (2016-2017)

Distribution Point: /Casper Distribution Point

Target Mode Imaging Options

Computers Will Check In with JSS: Within 4 Hours

Prompt before imaging each drive

Show Custom

Next Connected Drive

- Audacity 2.1.0.0
- mas.dmg
- SAM Animation 1.5.9
- Skype.dmg
- El Cap Settings.dmg
- Comic Life 3
- Fix ByHost Files
- Prepare FirstRun Script
- Set Name
- Feb-2013 saes.org
- Add Library BW
- SetLocationServiceTimeZone.pkg
- bizhub PRO 951PS 10.6-10.11.pkg
- bizhub_423_109.pkg
- bizhub_751_109_1010.pkg
- bizhub_754_109.pkg
- bizhub_C554_C364_109.pkg
- bizhub_C754_109.pkg
- CanonLaserPrinterDrivers.pkg
- CanonPrinterDrivers.pkg
- EPSONPrinterDrivers.pkg
- FujiXeroxPrinterDrivers.pkg
- GestetnerPrinterDrivers 20121012
- HewlettPackardPrinterDrivers.pkg
- InfotecPrinterDrivers 20121012
- Lame Library v3.98.2 for Audacity.pkg.zip
- LanierPrinterDrivers 20121012
- LexmarkPrinterDrivers.pkg
- MonitorInstall.pkg
- NRGPrinterDrivers 20121012
- RicohPrinterDrivers
- SamsungPrinterDrivers 20121012
- SavinPrinterDrivers 20121012
- byebyeCloud.sh
- Detect Network
- disableSetupAss.sh
- Give permission – 10.9 and 10.10
- student mark.sh
- Update Software at Image
- Update Inventory

Start



What login scripts do we use?

Populate CasperJAMF Pro Information



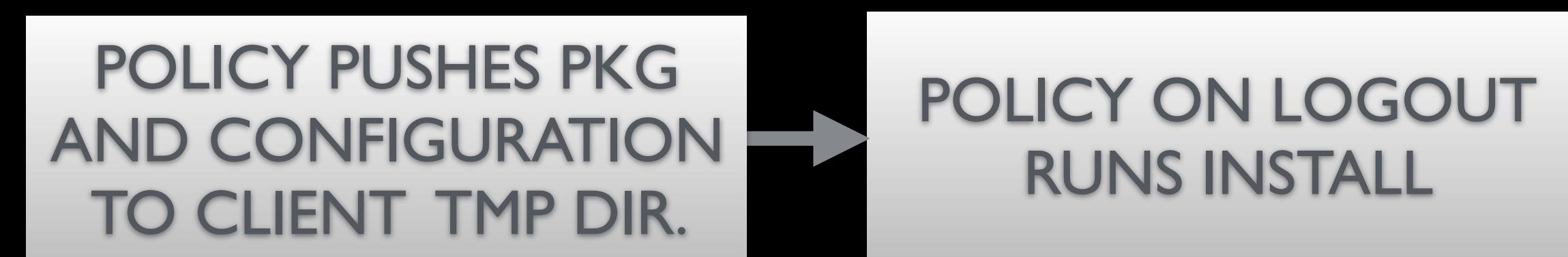
Install Crashplan Client



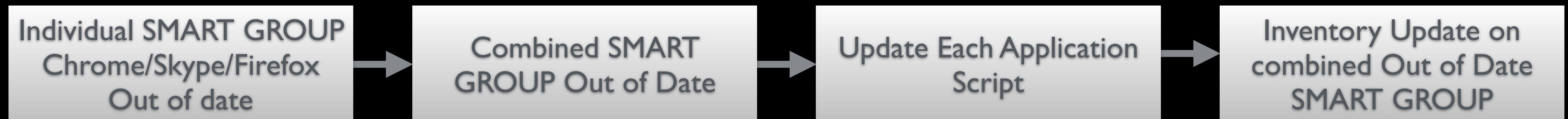


What logout scripts do we use?

Install OpenDNS Umbrella and Dyknow



Update Out of Date Applications





OnGoing Scripts

- Make the Student a “Power” user
- Install/Update specific applications
- Remove Guest Wifi Network
- “Fix” CrashPlan’s forgetfulness



What about Configuration Profiles?

- Printing Profile
- Chrome Custom Settings
- Login Window
- Custom Safari Preferences
- Wifi 802.1x Profile
- Microsoft Office





Self Service Items

- Adobe CC Suite - By Individual Application
- Microsoft Office
- iMovie
- FULL Garageband
- Educational Software

*Scientific Software (LoggerPro, Mindstorms), Interactive Projector Drivers, Garage Band, Google Drive, Audacity, etc

- Digital Textbooks
- Printers
- Major Operating System Upgrades





SAES Self Service

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Log In ▾

Categories

- Featured
- Creativity
- Drivers
- Educational
- Printers
- Productivity
- Uninstallers
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- Web & Communication
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SAES Self Service casper.saes.org

St. Andrew's Email Google Apps

Student Help Center Your One Stop Shop for Student A

Schoology Online Class Pages

Featured

Library Color Copier

Microsoft Office 2016

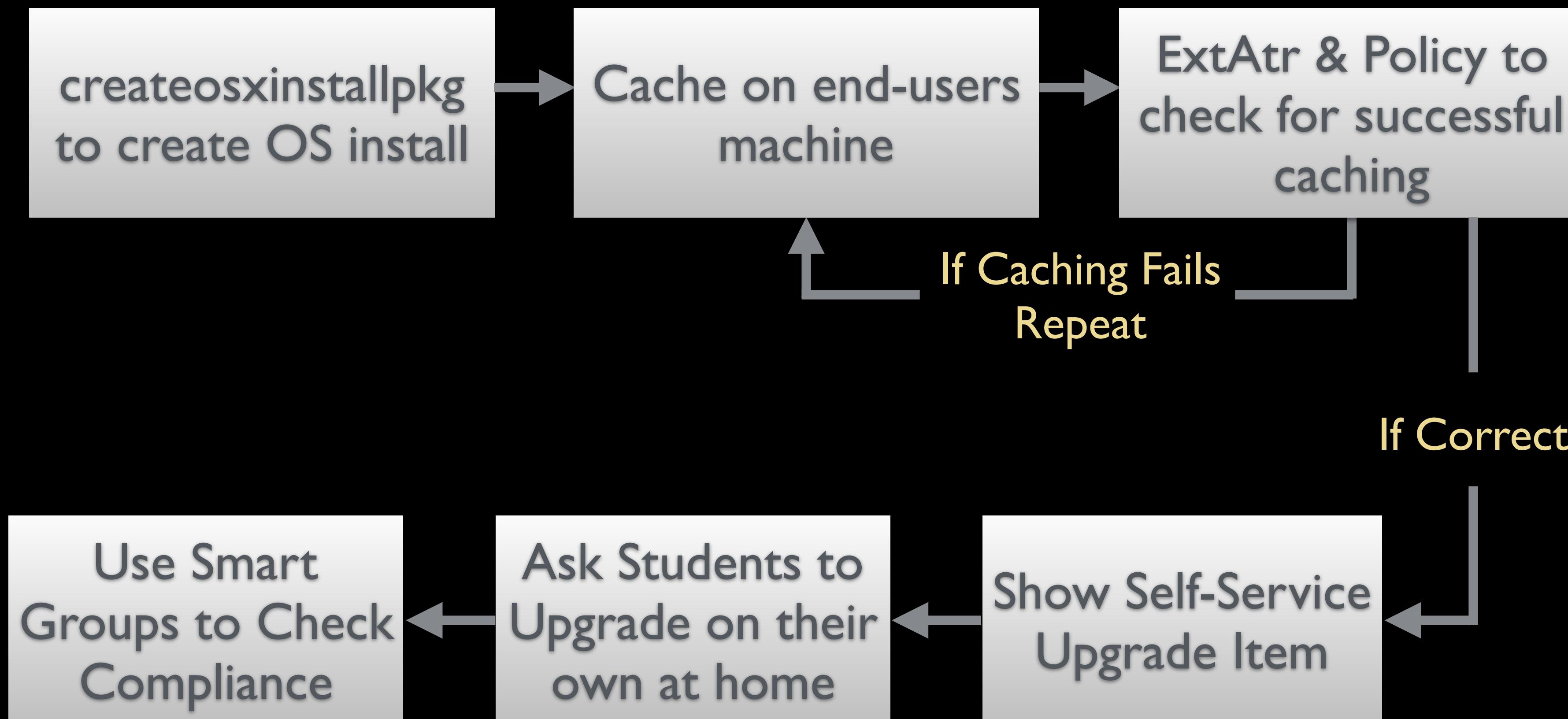
INSTALL i

INSTALL i



Major System Upgrades

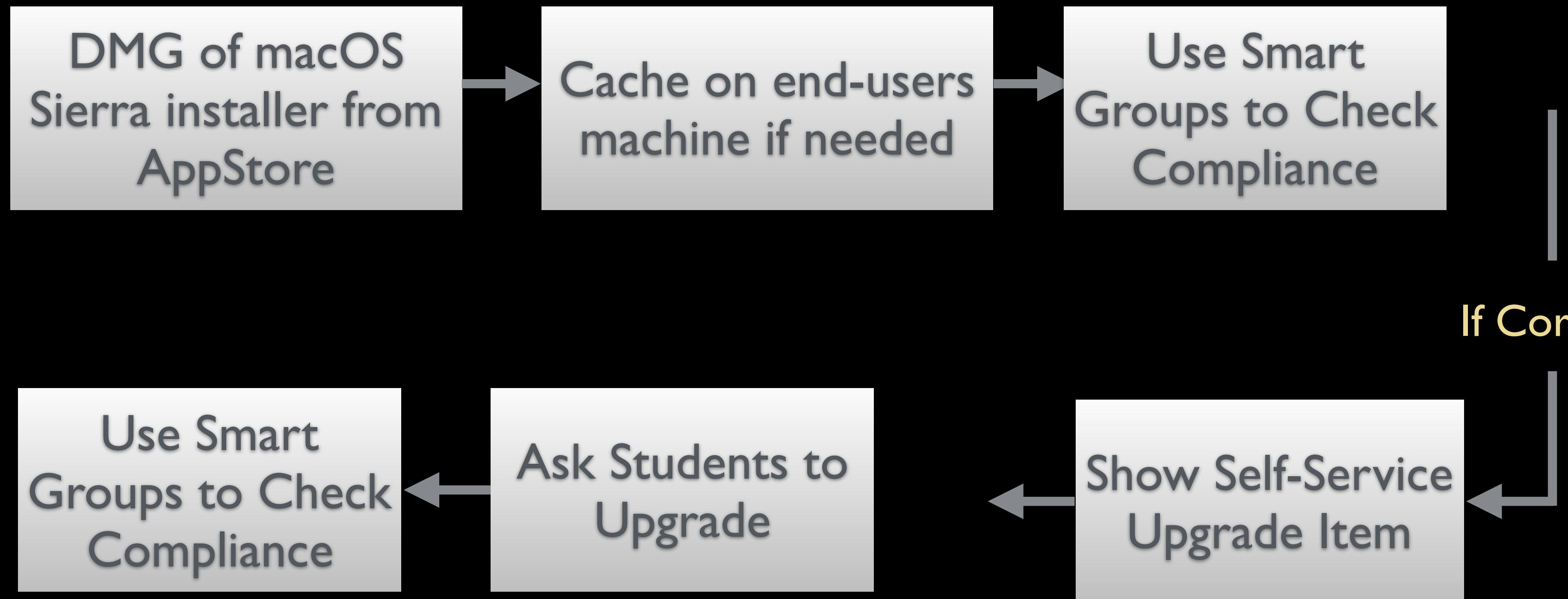
The old way we did it....





Major System Upgrades

The NEW way we do it



Game Changer!

“startosinstall” command now inside the Installer Application Bundle Package



Install macOS Sierra

Your computer is overdue for a major system upgrade.



Installation time could exceed one hour, and your computer will NOT be usable during the process. Please connect your power cord, and do not close the lid of the laptop.

You may postpone installation and upgrade later through Self Service.

[Postpone](#)

[Install Now](#)



Other uses for GasperJAMF Pro

- De-St Andrews-ize Computers
- Secure test taking
- Finding missing laptops
- Solving crimes!



Github

<https://github.com/boberito>

- JAMF Scripted Extension Attributes
- JAMF API Scripts
- JAMF Scripts
- Non-JAMF Specific Scripts



Resources I use

- JAMF Nation Board - <http://jamfnation.jamfsoftware.com>
- MacMule - Ben Toms - <https://macmule.com>
- Managing OS X - Greg Neagle -
<https://managingosx.wordpress.com>
- Der Flounder - Rich Trouton - <https://derflounder.wordpress.com>
- Krypted - Charles Edge - <http://krypted.com>
- Shea Craig's GitHub - <https://github.com/sheagcraig>
- Homebysix - Elliot Jordan - <https://github.com/homebysix/>
- MacEnterprise ListServe - MACENTERPRISE@lists.psu.edu
- MacAdmin Slack Channel



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2017 MACADMINS CONFERENCE

AT PENN STATE®

Thank you!

Feedback URL:

<https://bit.ly/psumac2017-177>

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