OS State of the Union

MacSysAdmin 2017
Arek Dreyer
arek@arekdreyer.com

OS State of the Union

- Community continues to grow

- Use the community and Apple resources

- Share your knowledge and experience

- Apple continues to innovate

- You need to continue to learn

My perspective
shaped by my experience

I found Arek through the Apple Consultants Network website and right after the first phone interview I was sure I had found the right guy to support and guide me to accomplish all I wanted with my Mac Server.

— FELIPE CHALUPPE, GELNEX

Working with Arek, I don't feel like I'm doing Mac OS X Server alone anymore.

— MATT FEDEROFF, VAIL SCHOOL DISTRICT, VAIL, AZ

Arek is a great resource, and I highly recommend him. Beyond his excellent technical skills, and just as important, Arek has a compassion for his customers and the issues they're facing, and a desire to serve.

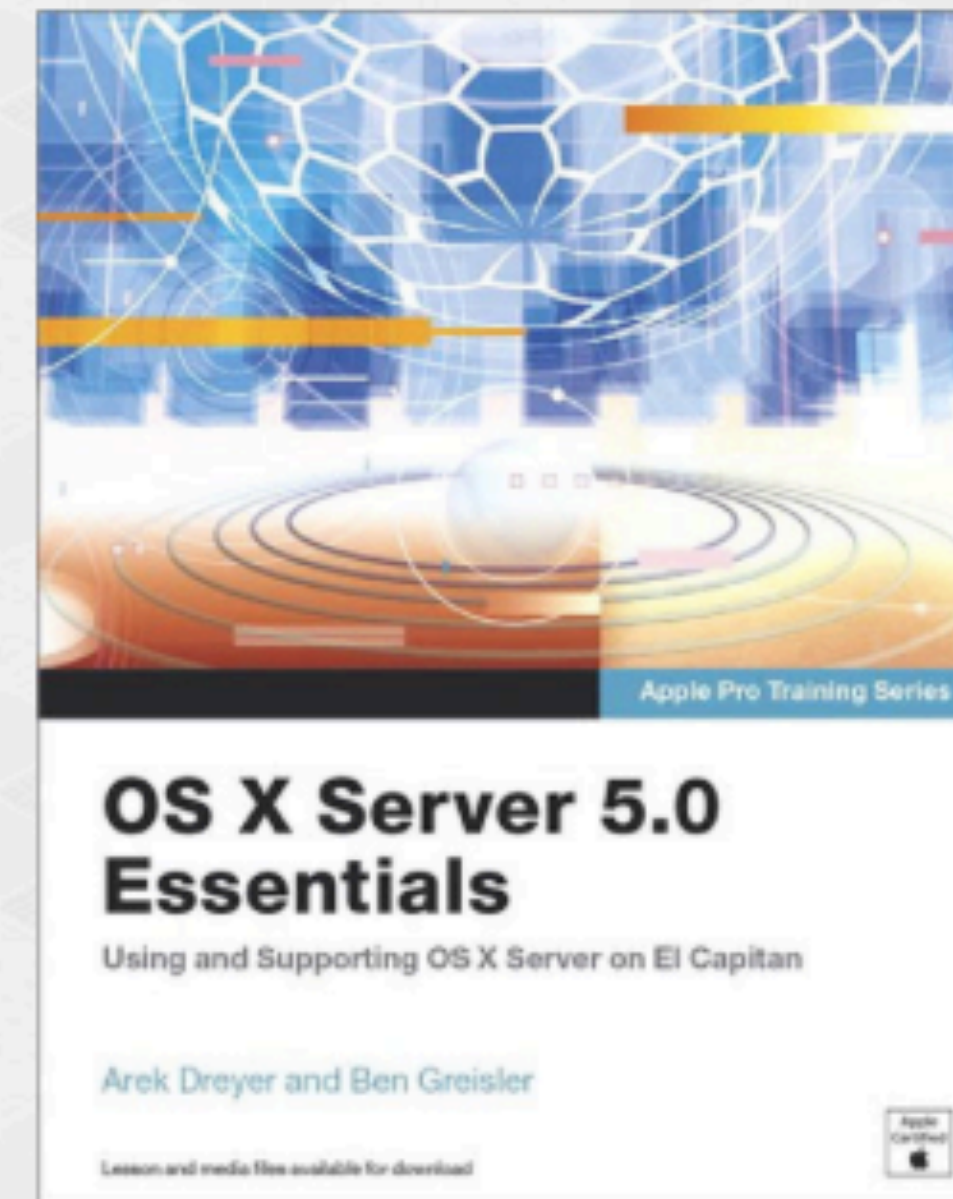— ANDREW MACKENZIE, CAPSTAN NETWORKS LLC
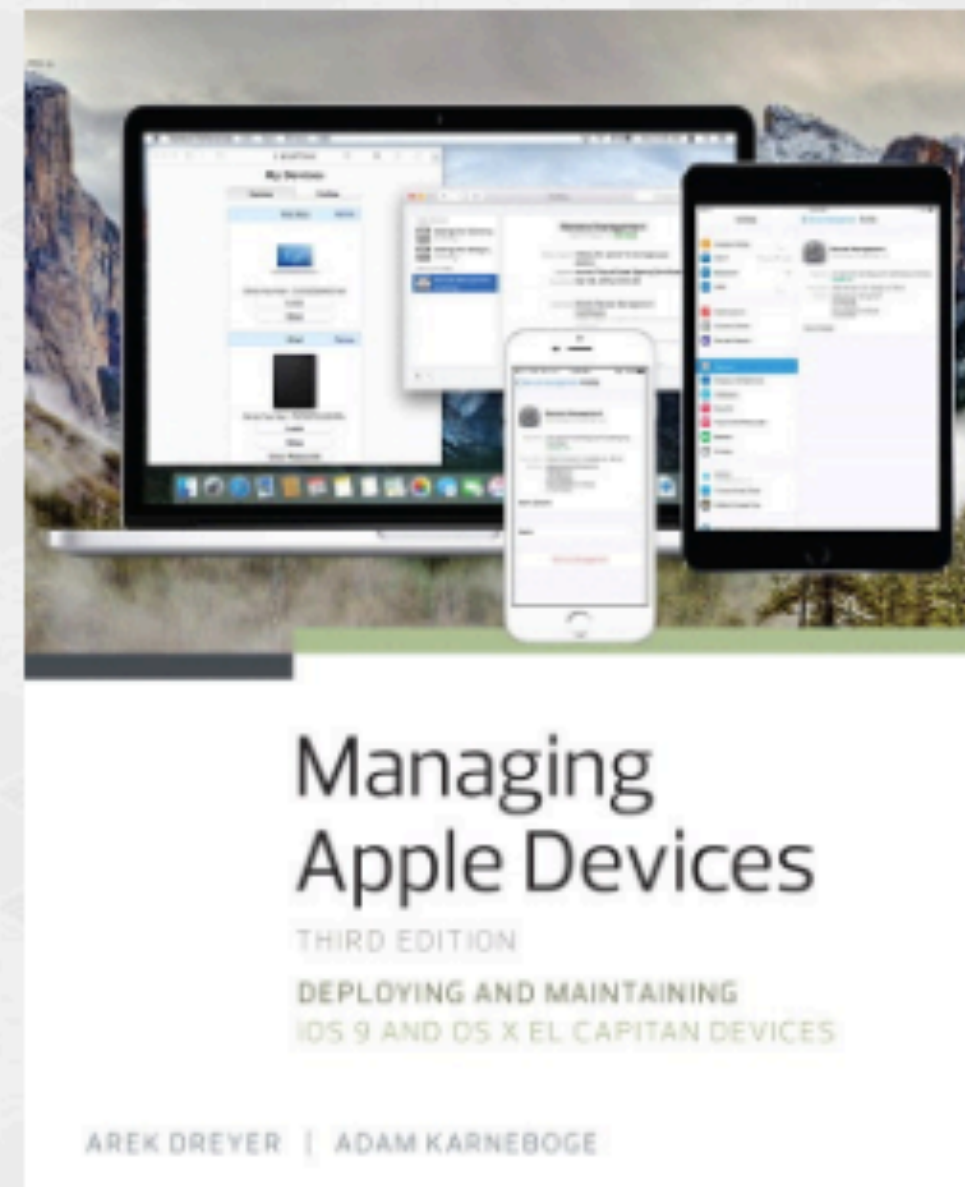
RECENT BOOKS

Managing Apple Devices: Deploying and Maintaining iOS 9 and OS X El Capitan Devices, 3rd Edition

WRITTEN WITH ADAM KARNEBOGE

Enables you to create an effective plan for deploying and maintaining groups of Apple devices using iOS 9 and OS X El Capitan in your organization

PURCHASE:
Amazon | Peachpit | iBooks

OS X Server 5.0 Essentials

WRITTEN WITH BEN GREISLER

Provides comprehensive coverage of OS X Server and is part of the Apple Pro Training series—the only Apple-certified books on the market

PURCHASE:
Amazon | Peachpit | iBooks

 Consultants Network

www.jamf.com/services/implementation/

jamf

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What to expect from your JumpStart.

4 hour remote

iOS / tvOS | Cloud or existing Jamf Pro instance.

- One 4-hour remote engagement
- iOS / tvOS training for the primary Jamf Pro administrator(s) in your organization
- Existing customers do not require a tvOS implementation

4+4 remote

iOS | On-premise.

- Two 4-hour remote engagements
- Setup and configure Jamf Pro for iOS management
- iOS training for the primary Jamf Pro administrator(s) in your organization

2 day onsite

macOS | On-premise or cloud.

- One 2-day onsite engagement
- macOS training for the primary Jamf Pro administrator(s) in your organization
- Set up and configure Jamf Pro for macOS management

3 day onsite

iOS & macOS | On-premise or cloud.

- One 3-day onsite engagement
- iOS and macOS training for the primary Jamf Pro administrator(s) in your organization
- Set up and configure Jamf Pro for macOS management

HCS TECHNOLOGY GROUP

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HCS Mobility: iOS 11 Ready

Strategy
• Choosing the Right Device
• Mobile Device Acquisition
• Define Mobile Policies
• Deployment & Logistics

Training & Support
• Apple Certified Trainers
• Branded Documentation
• Call Center Support
• Life Cycle Management

Infrastructure
• Hardware & Software Budget
• Wireless Bandwidth
• Internet Bandwidth
• Security & Privacy
• Cloud Solutions

Management
• Mobile Device Management

With the proliferation of mobile devices and the consumerization of IT, corporate networks are becoming more challenging to manage and more at-risk every day. The days of a static, one-size-fits-all policy applied to company-owned assets are over. Today, IT departments need to understand what devices are trying to connect to their networks, so they can provide convenient, secure access to those that are authorized, including personal iPads and smartphones.

For more information, visit www.hcsmobilty.com

Training and Certification

Learn   Get Certified   Schedule

macOS and iOS

Courses

Courses are available at Apple Authorized Training Providers worldwide.

Certification

The following certifications are now available:

- Apple Certified Support Professional 10.12
- Apple Certified Associate: Mac Integration Basics 10.12

Books and eBooks

macOS OS X Support Essentials 10.12 is available from Peachpit Press. Save 30% using coupon code PP-APL-DISC.

All Apple Pro Training series books are available in print and digitally, as well as on the iBookstore via the iBooks app.

Technical Guides

Mac Integration Basics Guide
Tools for integrating a Mac into an existing Windows or other standards-based network.
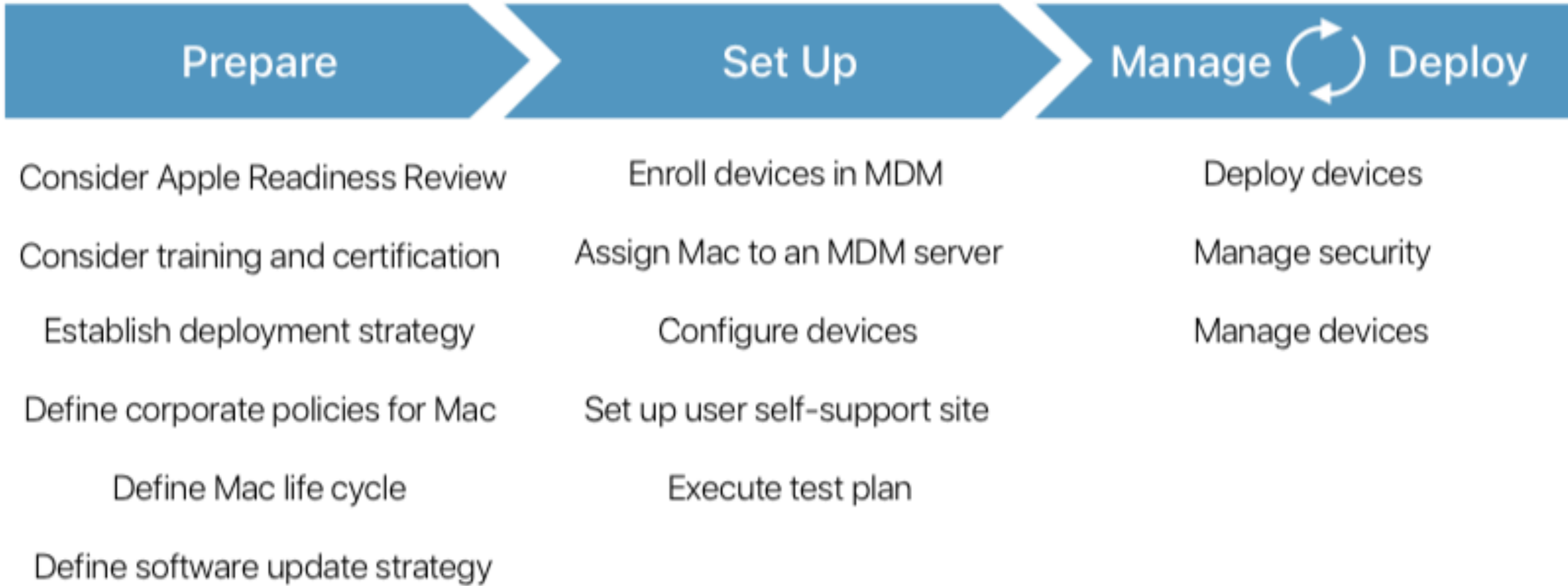macOS Sierra

macOS Technical Training Guide
This guide shows you how to integrate Mac computers into your company's existing network. By following the prepare, set up, deploy, and manage phases, you'll quickly get employees up and running on a Mac.
macOS Sierra

This guide shows you how to integrate Mac computers into your company's existing network. By following the prepare, set up, deploy, and manage phases, you'll quickly get employees up and running on a Mac. Each phase is covered in a section in this guide. Links to more resources are located in the Resources and Support appendix.

Prepare	Set Up	Manage ⟳ Deploy
Consider Apple Readiness Review	Enroll devices in MDM	Deploy devices
Consider training and certification	Assign Mac to an MDM server	Manage security
Establish deployment strategy	Configure devices	Manage devices
Define corporate policies for Mac	Set up user self-support site	
Define Mac life cycle	Execute test plan	
Define software update strategy		

Our community is growing

Welcome first-timers

And welcome back

And we wish you were here

Share your knowledge

blogs

Der Flounder

Seldom updated, occasionally insightful.

About | Contact

Using the macOS High Sierra OS installer's startosinstall tool to install additional packages as post-upgrade tasks

📅 September 26, 2017 👤 rtrouton 💬 1 comment

Starting with macOS 10.12.4, Apple locked down the macOS installer to make it impossible to add non-Apple installer packages directly to the macOS Install .app without using NetInstall. However, there is a way to configure the macOS High Sierra OS installer to install additional packages as a post-upgrade task. For more details, please see below the jump.

Read more...

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October 2017

M	T	W	T	F	S	
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9	10	11	12	13	14	
16	17	18	19	20	21	
23	24	25	26	27	28	
30	31					

« Sep

Recent Comments

Paulo on Using the macOS High S OS...

MANAGING OS X

HIGH SIERRA FV CONVERSION FAILURE

September 27, 2017 | GregN | 1 Comment

When you upgrade to High Sierra, not only are you getting a new OS, but if your Mac has all-SSD storage, you are getting an all-new filesystem: APFS. This means your startup disk gets converted from HFS+ to APFS during the High Sierra upgrade.

More changes means more chances for things to go wrong. A colleague walked into my office today: he'd just upgraded his Mac to High Sierra, and now it was sitting at the Filevault pre-boot authentication screen. But instead of an icon for his account, there was a hard drive icon and the label "Disk Password". His account password did not work to unlock this disk, and neither did the Personal Recovery Key.

Looked like the APFS conversion didn't do everything it needed...

Fortunately Nick McSpadden had seen this before and let me in on a fix:

AFP548 Wiki   Forums   iOS   Security   Deployment   Management   Conferences   Mactips   Archives   About

ARTICLES,OS X   💬 2 COMMENTS

UEFI, 10.13/APFS, and You(r Imaging)

Let's discuss the basic input/output system for IBM PC compatible computing devices, aka BIOS. Wait, that's not a good start, P.eople C.an't reM.ember C.omputer and I.nternet A.cronyms. Ok, EFI – that's a thing that's like BIOS, right? You can lock it, it makes sure all your most vital hardware components [...]

READ MORE ›

by Allister Banks   on August 31, 2017 at 2:53 pm

DEPLOYMENT,MANAGEMENT   💬 0 COMMENTS

Hook The Lintings

Friends don't let friends commit puppet code with obvious errors. Especially when you're working with a

Recent Forum Topics

krypted.com

Tiny Deathstars of Foulness

Guides ▾   Commands ▾   Reference ▾   Whoami ▾   Apple Community ▾   Minneapolis ▾

SIP-Protected Apps In macOS

The following is a list of application bundles that come pre-installed with macOS that are protected by SIP:
/Applications/App Store.app
/Applications/Automator.app
/Applications/Calculator.app
/Applications/Calendar.app
/Applications/Chess.app
/Applications/Contacts.app
/Applications/DVD Player.app
/Applications/Dashboard.app
/Applications/Dictionary.app
/Applications/FaceTime.app
/Applications/Font Book.app
/Applications/Game Center.app
/Applications/Image Capture.app
/Applications/Launchpad.app
/Applications/Mail.app
/Applications/Maps.app
/Applications/Messages.app
/Applications/Mission Control.app
/Applications/Notes.app
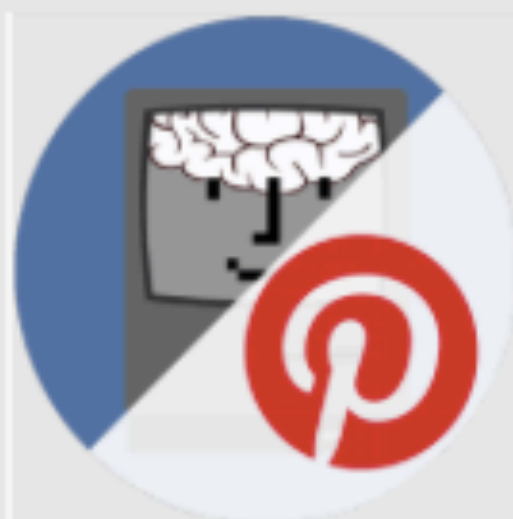/Applications/Photo Booth.app
/Applications/Photos.app

Search

🔨Support and HowTos

- Use Startup Profiles In macOS – Charles Edge
- APFS preparation and macOS High Sierra – Rich Trouton
- Enabling Kernel Extensions in High Sierra – Graham Gilbert
- Get Ready for macOS High Sierra – Hugo Costa
- All About APFS – Jamf
- Microsoft Office support for macOS 10.13 High Sierra –
- What macOS Version Did I Just Download? – Tim Sutton
- 5K Versions of Every Default macOS Wallpaper – 512 Pixels
- SplashBuddy is ready for High Sierra, but…
- Sierra's unified log evolves: more persistent, and a valuable log log – The Eclectic Light Company
- AutoCasperNBI & AutoImagrNBI 1.4.0, High Sierra Compatible & Sadness
- OWC's Aura SSDs Not Working With macOS High Sierra, Fix Coming Soon – Mac Rumors
- Krypted.com has a seemingly endless stream of new articles on High Sierra. Read this one first:
  Before You Upgrade to macOS Server 5.4 on High Sierra (macOS 10.13) then catch up with the rest. (amazing work, Charles!)
- Some stuff about Install macOS High Sierra.app – Greg Neagle
- Using the macOS High Sierra OS installer's startosinstall tool to avoid

Sidebar

#! is not a curse word

BOOKS

Packaging

PropertyLists, Preferences and Profiles

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macbrained.org

Events   Groups ⌄   News and Recaps   Hosting   Speaking   Slack Channel   YouTube Channel   Contact   🔍
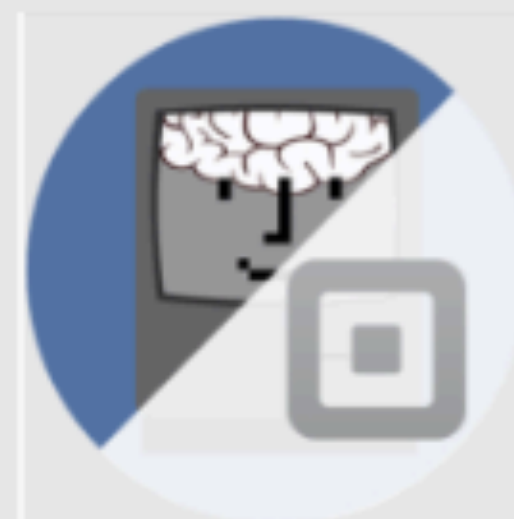
News and Recaps

Recap – Macbrained SF April Meet-up @ Pinterest

May 1, 2017,
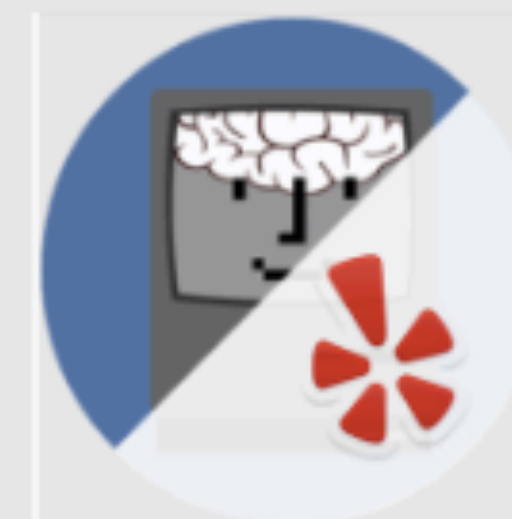Announcement, Meetups,
Presentations, Recap,
Streams, 1 💬

Our Macbrained SF April 2017 Meet-Up was hosted by Pinterest. Matt Thorne and Jesse Brooks spoke about Pinterest

Recap – September Meet-Up @ Square

September 28, 2015,
Announcement, Hackathon,
Meetups, Presentations,
Recap, Streams,
hackthemac, meet-up,
recorded stream, square,
video, 0 💬

We had a blast at Square! Thanks so much to Tom and his team for hosting, not to mention...

Recap – August Meet-Up @ Yelp

August 25, 2015,
Announcement, Hackathon,
Meetups, Presentations,
Recap, Streams,
hackthemac, meet-up,
OSXCollector, PSU
MacAdmins, recorded
stream, video, Yelp, 0 💬

We had a blast at Yelp! Thanks so much to Lillian and her team for hosting and not to

Recap – June Meet Up @ Atlassian

June 12, 2015,
Announcement, Meetups,
Recap, Streams, 0 💬

We had a blast at Atlassian! –Thanks to Coyote and his team for hosting and also for the tasty pizza...

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Groups

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Casper Admins
157 members

📄 Most popular topics

📄 Topics with no replies

Recent Topics

craigslist is hiring an IT Administrator – SF, CA by Laura
1 year ago

Sr. Engineer @ Target – Minneapolis, MN by Devin Kass

Conferences

Looking for MacADUK 2018 Speakers

We're looking for the most topical, engaging, interesting and well-presented conference sessions to really challenge, involve and excite the MacADUK delegates.

If you have something to offer and interest Mac techs, speaking at MacADUK is a hugely valuable opportunity. This year, we'll be asking all speakers to submit at least one guest blog on their specialist subject too and we'll be working to boost our speaker profiles before the show.

We'll consider just about any topic in any format so why not get creative? Streams to consider might be; best practice, worked through case studies, process and workflow, tools, innovative use of tools, futurology, macOS, iOS, Swift… please surprise us!

The most amazing event for…

Apple IT Pros, Enterprise, consultants, and techs.

Main Conference:
Wed-Fri, Nov 15-17, 2017
Pre-Conference Workshops:
Tue, November 14, 2017
Los Angeles, CA

Register now for biggest savings.
Early Bird Pricing Saves You $400!
Register now before the price goes up!

REGISTER ▶

MacTech Conference is a 3-day, immersive, technical conference specifically designed for Apple IT Pros, Enterprise, techs, and consultants.

"The whole idea of MacTech Conference is to allow members of the Apple community to meet and exchange ideas," says
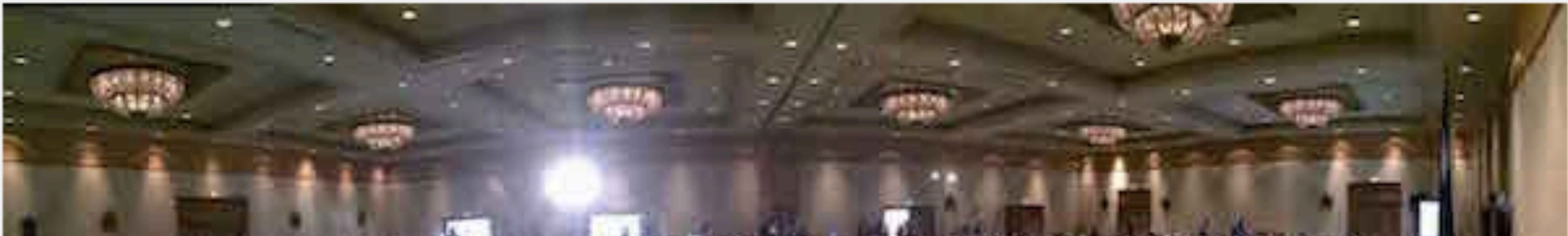
Advanced Chef

Mike Dodge from FaceBook tackles Advanced Chef

Watch the Video

Quick Talk: Developers' Docker

Hydraulx dev Chris Johnson discusses Docker

Watch the Video

Automation with Ansible

PSU's Gretchen Kuwahara discusses her journey with Ansible

Watch the Video

Django Web apps

Workshop: Build Django web apps with Andre Aulich from moosystems

Watch the Video

Read the step by step instructions

MacDevOps:YVR is hosted at SFU Harbour Centre, the heart of Simon Fraser University's Vancouver Campus.

Located on the scenic Vancouver Waterfront in downtown Vancouver, SFU Harbour Centre, 515 West Hastings Street, is minutes from historic Gastown and a staggering array of restaurants, shopping and many other amenities.

Map   Satellite

eamworks Brewing Co

ver Lookout

Map data ©2017 Google   Terms of Use
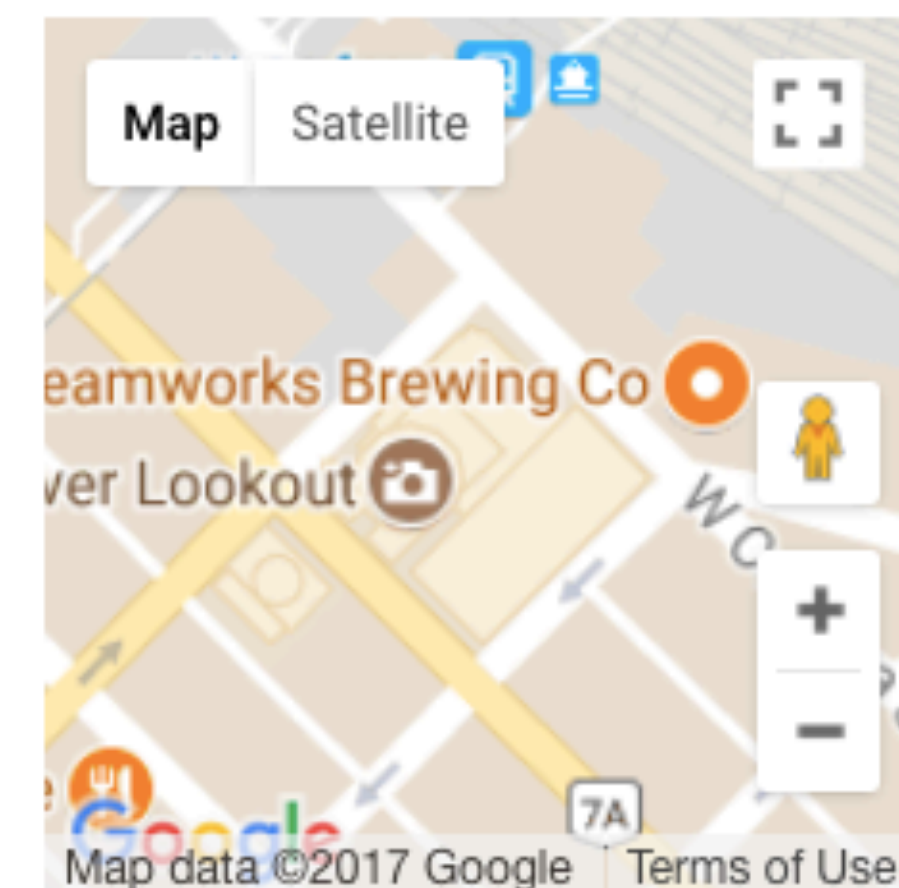
MacAdmins Conference at Penn State

Join us July 10 – 13

Search

MacAdmins is the premier East Coast conference for anyone who deploys and manages Macs and iOS devices. In 2017 we featured 60 sessions and five workshops with top notch speakers in the macOS and iOS deployment community. MacAdmins offers an incredible level of expertise, value, entertainment, and a great opportunity to network with your fellow admins!

2018's event will be held July 10 – 13 at the Penn Stater Hotel and Conference Center in

2017
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@eholtam

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What it looks like when you think it's off vs. when it's actually off.

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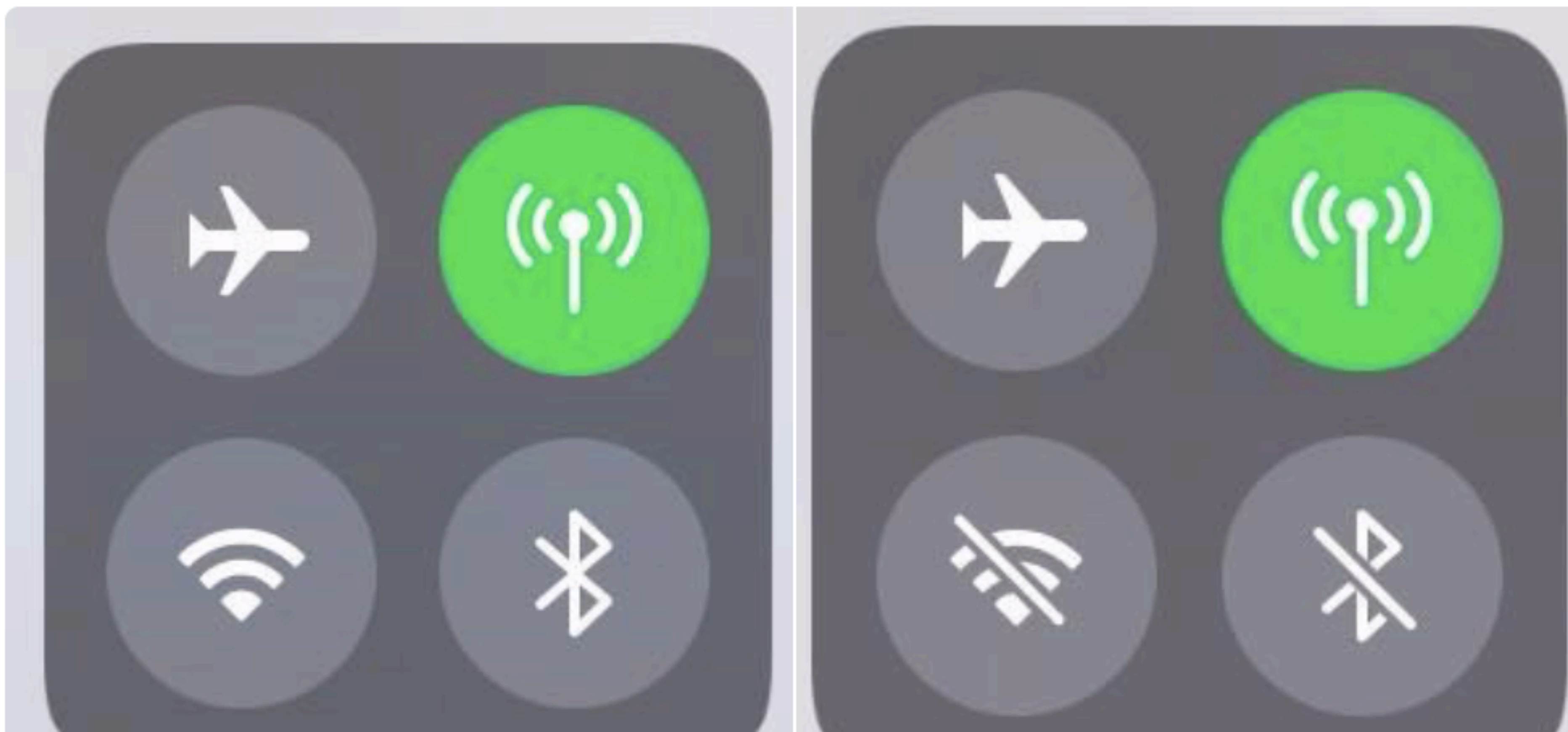
mikeymikey @mikeymikey · Sep 24
And this OS launches like ... tomorrow. Soooo ... yeah, anyone can confirm it's missing for them?

💬 2 🔁 1 ♡
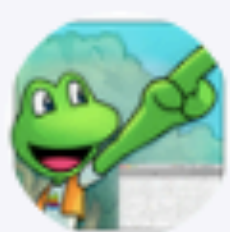
mikeymikey @mikeymikey · Sep 24
If you don't have it ... does running this Terminal command get you the same error?

you use AD +

```
$ open /System/Library/PreferencePanes/TouchID.prefPane
$
```

System Preferences 🔍 Sea

File New One

General Des Scree

You can't open the "Touch ID" preferences pane because it is not available to you at this time.

To see this preferences pane, you may need to connect a device to your computer.

OK

💬 6 🔁 2 ♡ 1

mikeymikey
@mikeymikey

Follow ▾

I figured out the bug with TouchID. It only kicks off on 10.13 if you use AD + mobile

fire: level is

Open Radar

Search

Community bug reports

TouchID preference pane does not load under High Sierra 10.13 with Active Directory mobile accounts

Originator:	alexander.kaltsas		
Number:	rdar://34617535	Date Originated:	28-Sep-2017 09:38 AM
Status:	Open	Resolved:	
Product:	macOS + SDK	Product Version:	10.13.0 17A365
Classification:	Serious Bug	Reproducible:	Always

```
Summary:
This is a duplicate of radar #34617535

The TouchID preference pane is unable to load on High Sierra GM (10.13.0 17A362a) on any TouchBar
MacBook Pro that is bound to ActiveDirectory and uses mobile accounts (which is a supported
configuration for Active Directory for macOS High Sierra - this is mobile accounts, not portable
home directories we're talking about).
```

TouchID is functional on the device. A local user account on the same machine, not connected to AD can log in as that account and the pane is present and opens.

The root cause of this bug is a change in the logic inside the binary located at /System/Library/PreferencePanes/TouchID.prefPane/Contents/Resources/AllowPasswordPref

The AllowPasswordPref pane executable is marked by the TouchID.prefpane as the executable to run for hardware compatibility for this preference pane, via this key in the Info.plist for the TouchID.prefpane:
  NSPrefPaneHardwareTest
  AllowPasswordPref

The AllowPasswordPref is executed and if the return result is 0, then the OS considers the preference pane compatible and will load/display it.

My guess as to what logic is _attempting_ to happen here is that you're attempting to look for users that might have their home directory stored on an external thumb drive, which I can understand may not be compatible with TouchID biometric storage.

2 things:

There is no reason that TouchID should be incompatible with mobile accounts locally stored on the device. This is definitely a bug.

2nd, if it's no longer compatible with accounts that are stored on external media, then that information needs to be publicly documented somewhere - and it is not.

Number of devices affected: 2000

Erik Gomez @Contains_ENG · Sep 27

Thank you @gregneagle @mikeymikey @MrNickMcSpadden @natewalck @chilcote @grahamgilbert @clburlison @bruienne @Jckwhet and others for their..

💬 1   ⟲ 2   ♡ 16

Erik Gomez @Contains_ENG · Sep 27

..hard work in making sure 10.13 worked across the various tools a significant amount of #macadmins use.

💬 1   ⟲ 3   ♡ 11

Erik Gomez
@Contains_ENG

Follow

Replying to @Contains_ENG @gregneagle and 8 others

just realized I forgot @MagerValp !

2:00 PM - 27 Sep 2017

Help Center
Ads info

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macadmins.org

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1308 users online now of **13027** registered.

you@yourdomain.com

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Podcasts

"This is a fertile time for open source projects."

-Pepijn Bruienne
MacAdmins Podcast

Episode 51: Ed Marczak

SYNOPSIS

Ed Marczak of Google joins us to talk about his story as a Mac Admin, as well as the many projects that Google has built, and also a lot of great history about MacTech Conference

YOUR HOSTS:

- Charles Edge, Director of Professional Services at JAMF Software, That Guy at Krypted.com [@cedge318]
- Pepijn Bruienne, R&D Engineer at Duo Security [@bruienne], Proprietor of EnterpriseMac.Bruienne.com
- James Smith, IT Administrator @ Culture Amp [@smithjw]
- Marcus Ransom, Professional Services Manager at Education Advantage [@marcusransom]

90,000 Mac computers!

Build or buy?

Google *Santa Tracker*

Santa Tracker
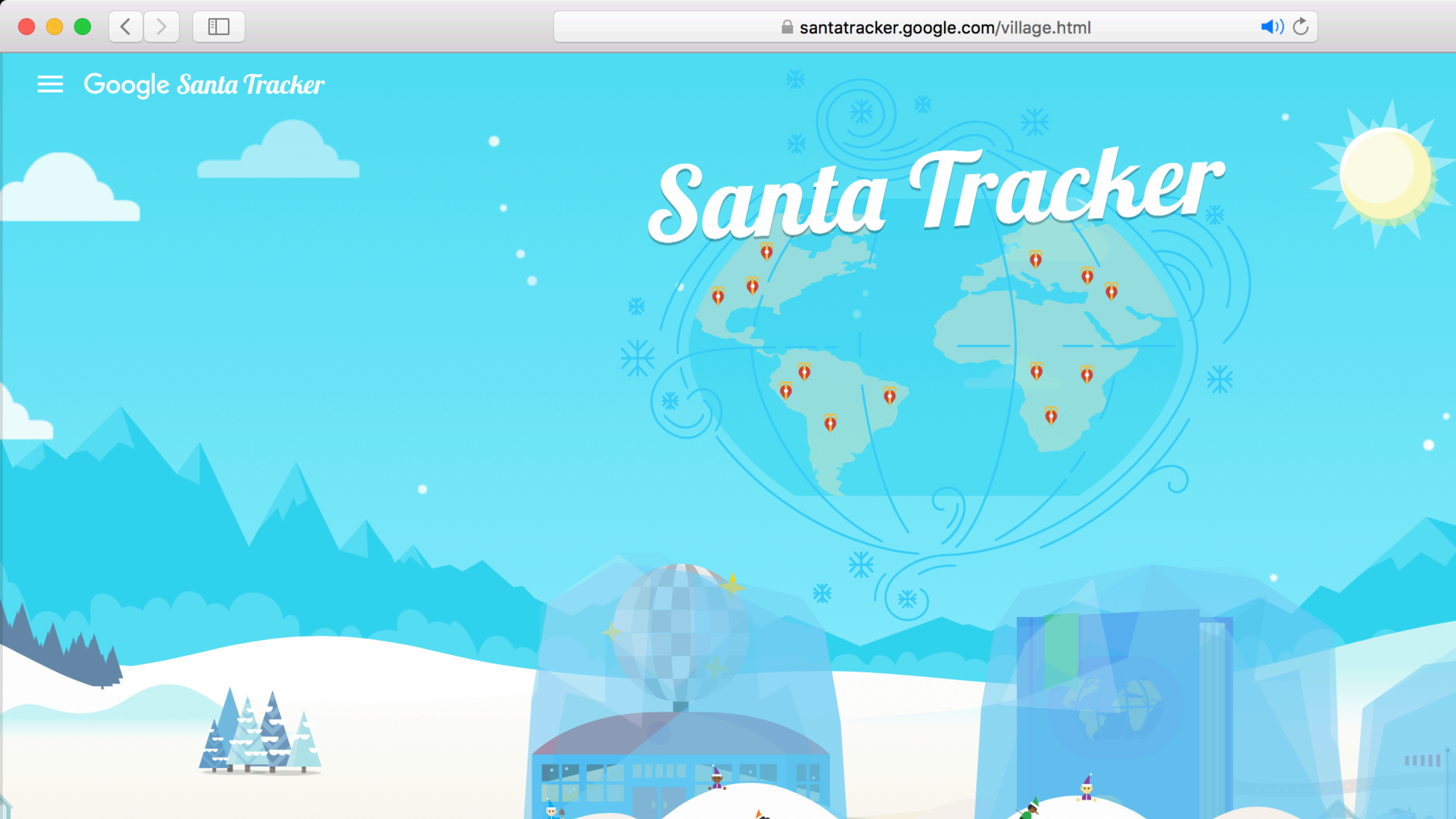
Santa is a binary whitelisting/blacklisting system for macOS. It consists of a kernel extension that monitors for executions, a userland daemon that makes execution decisions based on the contents of a SQLite database, a GUI agent that notifies the user in case of a block decision and a command-line utility for managing the system and synchronizing the database with a server.

Santa is not yet a 1.0. We're writing more tests, fixing bugs, working on TODOs and finishing up a security audit.

It is named Santa because it keeps track of binaries that are naughty or nice.

Santa is a project of Google's Macintosh Operations Team.

Docs

The Santa docs are stored in the Docs directory. A Read the Docs instance is available here: https://santa.readthedocs.io.

Admin-Related Features

- Multiple modes: In the default MONITOR mode, all binaries except those marked as blacklisted will be allowed to run, whilst

ZENTRAL

OPEN HUB FOR MONITORING

Zentral is a framework to gather, process, and monitor system events and link them to an inventory. It integrates Osquery's performant endpoint visibility and Google's Santa binary whitelisting/blacklisting system to your client management solution. Simply identify and react to changes on macOS and Linux clients.

osquery

Performant Endpoint Visibility

Deployable

Windows, macOS, CentOS, FreeBSD, and almost every Linux OS released since 2011 are supported with no dependencies. osquery powers some of the most demanding companies, including Facebook.

Downloads →

Flexible

Whether your goal is intrusion detection, infrastructure reliability, or compliance, osquery gives you the ability to empower and inform a broad set of organizations within your company.

Read community articles →

Fast and Tested

Our build infrastructure ensures that newly introduced code is benchmarked and tested. We perform continuous testing for memory leaks, thread safety, and binary reproducibility on all supported platforms.

Read the code →

Quick-start Instructions

$ osqueryi

Security" acknowledges that attacks against corporate users (e.g., phishing, malware) are the primary mechanism leading to security incidents and data breaches, and it's one of the core principles driving our approach to corporate information security. It's also reflective of our philosophy that tools are only effective when they consider the true context of people's work.

Stethoscope is a web application that collects information for a given user's devices and gives them clear and specific recommendations for securing their systems.

Stethoscope

Overview   Devices   Accounts   FAQ

You have **1** device that requires attention: SAMSUNG-SM-G925A

SAMSUNG-SM-G925A
0abcdef01234   ?

🚫 Up-to-date   ?

One of the most important things you can do to increase
Netflix security is to keep your own OS and software up to
date.

Android 5.1.1 is no longer supported. The recommended
version of Android is 6.0.1.

More info

✔ Jailed   ?

Last updated 18 hours ago

iPad6,4
DMPR000000000   ?

✔ Up-to-date   ?

Last updated 1 week ago

InstallApplications is an alternative to tools like PlanB where you can dynamically download packages for use with `InstallApplication`. This is useful for DEP bootstraps, allowing you to have a significantly reduced initial package that can easily be updated without repackaging your initial package.

MDM's that support Custom DEP

- AirWatch
- FileWave (please contact them for instructions)
- MicroMDM
- SimpleMDM

What if I have 19, not 90K?

📕 **MagerValp** / **AutoDMG**

👁 Watch ▾ 142   ★ Star 797   ⑂ Fork 79

<> Code   ⓘ Issues **1**   ⑁ Pull requests **0**   ▥ Projects **0**   ▤ Wiki   Insights ▾

Releases   Tags

Latest release

🏷 v1.8

⦿ ee71c97

AutoDMG 1.8

MagerValp released this 6 days ago · **4 commits** to master since this release

- Added 10.13 and APFS support.

- Added APFS/HFS+ selection to the Advanced Options window.

- Added `-F` / `--filesystem` option to CLI.

- Added `Filesystem` option to templates.

- Removed 10.9 support.

- Fixed crash when CLI build can't eject image.

- Fixed crash when unchecking updates without a source.

autopkg / **autopkg**

Watch 123   ★ Star 532

<> Code   ⓘ Issues 53   Pull requests 28   Projects 0   Wiki   Insights ▾

Releases   Tags

Latest release

🏷 v1.0.3

⦿ 5fd5c75

AutoPkg 1.0.3

👤 **gregneagle** released this 10 days ago · **1 commit** to master since this release

1.0.3 (September 22, 2017)

FIXES:

- Better handling of bundle items in MunkiImporter (GH-352)

- Prevent stack trace when parent recipe does not exist (GH-363)

IMPROVEMENTS:

Managed Software Center

Software Categories My Items Updates

Search

Managed Software Center
Your source for software for your Mac.

All items

1Password
Utilities - AgileBits Inc.
INSTALL

Acorn 4
INSTALL

Adium
Communication - The Adium Team
INSTALL

Adobe Acrobat Reader DC
Uncategorized
INSTALL

Adobe Flash Player
Internet - Adobe
Installed
REMOVE

Adobe Reader
Productivity - Adobe
INSTALL

Adware Medic
Utilities - Thomas Reed
INSTALL

Airfoil
Media - Rogue Amoeba
INSTALL

Alfred 2
Utilities - Running with Crayons Ltd
INSTALL

Alinof Timer
Productivity - Alinof Software Sàrl
INSTALL

Amadeus Lite
Uncategorized
INSTALL

Android Studio
Developer - Google
INSTALL

Apache OpenOffice
Productivity
INSTALL

AppCleaner Uninstaller Utility
OS Utilities - FreeMacSoft
INSTALL

AppCode
Uncategorized
INSTALL

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Development
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Editors
Email
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Internet
Mail Clients
Mathematics
Media
Media Players
Munki Tools
Network Utilities
OS Utilities
Organization
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Remote Access
SFTP Clients
Science
Security
Social Networking
System Administration

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Community   Forums   TechBlog   TechCenter   **TechVideos**   Ideas   Tech Alerts   Developer   Resource

COMMUNITY → TECHPORTAL → TECHNICAL VIDEO PORTAL → TAG: "MUNKI" IN "TECHNICAL VIDEO PORTAL" →

Tag Options ⚙ ▾

Currently Viewing: "Munki" in "Technical Video Portal" (View in: "TechPortal" | Community   )

3 posts | 1 tagger | First used: 04-24-2017

Top Taggers

Peter
3

» View All

» View Tagging Leaderboards for "Technical Video Portal"

Latest Tagged

Post	Reply	Author	Rating	Kudos	Latest Reply
Centrify Mac Application Management with Munki - (04-24-2017 02:26 PM) 🔗📹 Technical Video Portal	○	Peter		○	04-24-2017 02:26 PM by Peter
Mac App Management - Munki Managed Software Center... - (04-24-2017 02:24 PM) 🔗📹 Technical Video Portal	○	Peter		○	04-24-2017 02:24 PM by Peter
Mac App Management - Setting up Munki & Importing ... - (04-24-2017 02:23 PM) 🔗📹 Technical Video Portal	○	Peter		○	04-24-2017 02:23 PM by Peter

» View All

Yoann Gini
@ygini

Follow

Look like AirWatch is going to be the best MDM for Mac. VMworld announce a roadmap with munki as native agent for your Mac.

macOS Software Management

vmware

Simplified Admin UI | New Management Stack | Robust Client with Munki
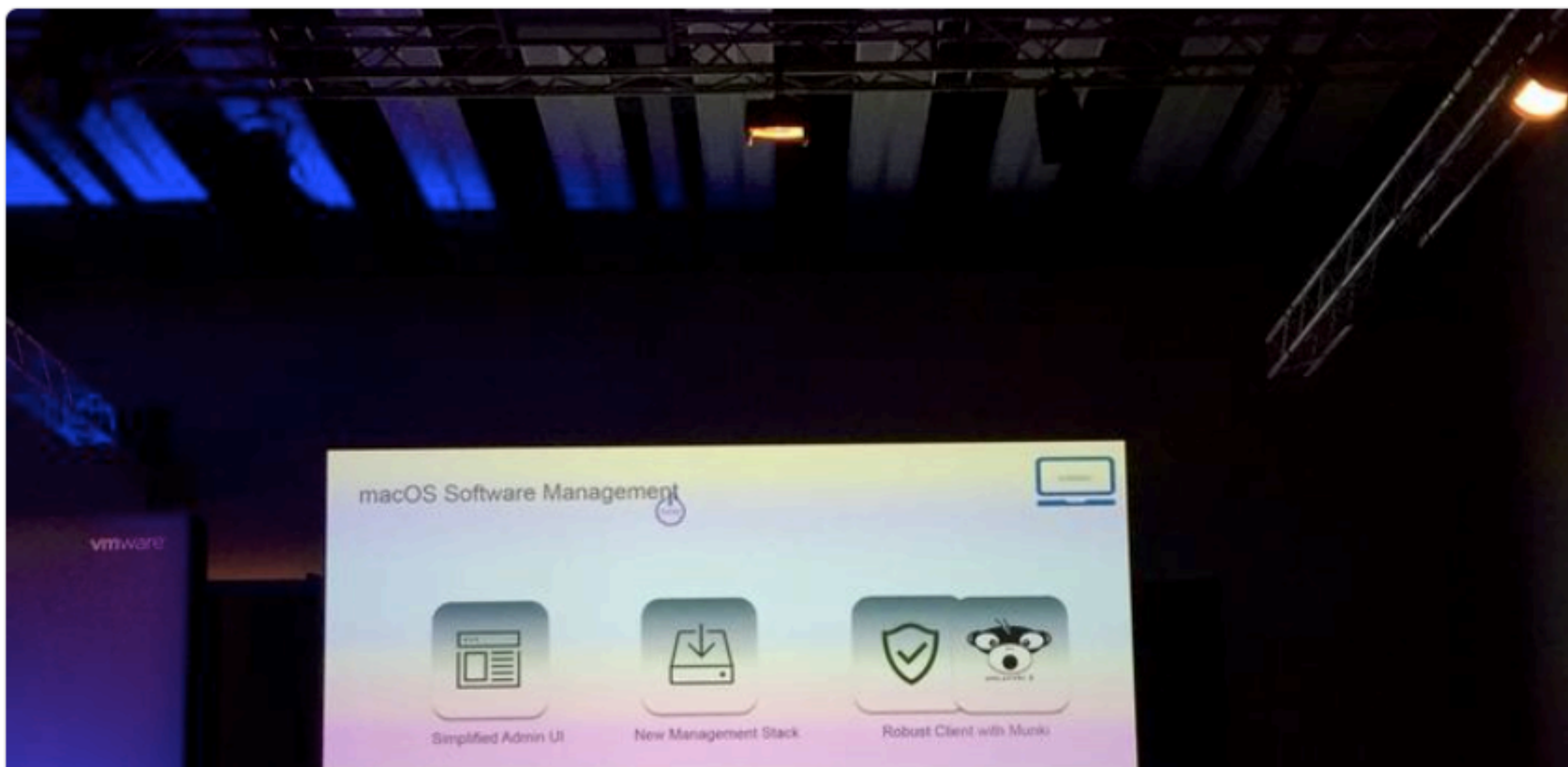
Imagr

Imagr is an application designed to be run from a NetInstall environment created with AutoNBI. It is able replace tools such as DeployStudio for many organisations without the requirement of needing to be run on OS X servers.

This is a Python application, so Python will need to be included in your NetInstall.

Development Mailing List: imagr-dev

Support Mailing List: imagr-discuss

Getting Started

The best place to get started with Imagr is the Getting Started page on the wiki.

Features

- Restore ASR Images (such as those created with AutoDMG)
- Install packages during Imagr run and at first boot
- Run scripts during Imagr run and at first boot
- Include other workflows in your workflow, specified statically or using a script

AUTOCASPERNBI

AutoCasperNBI is an app that automates the creation of NetBoot Images (read: NBI's) for use with Casper Imaging.

AutoCasperNBI is designed to cut down on the [faff](#) associated with creating NBI's, by not only by allowing you to create NBI's on a different OS version. But by also saving your settings for when you next run the tool.

This page is the help guide for AutoCasperNBI. To download the latest version of the app & to view the source, click the button below.

NoMAD

THE POWER OF AD – WITH NONE OF THE BIND!

NoMAD allows all the functionality you would want from a Mac bound to Active Directory, without having to actually bind to AD.

DOWNLOAD
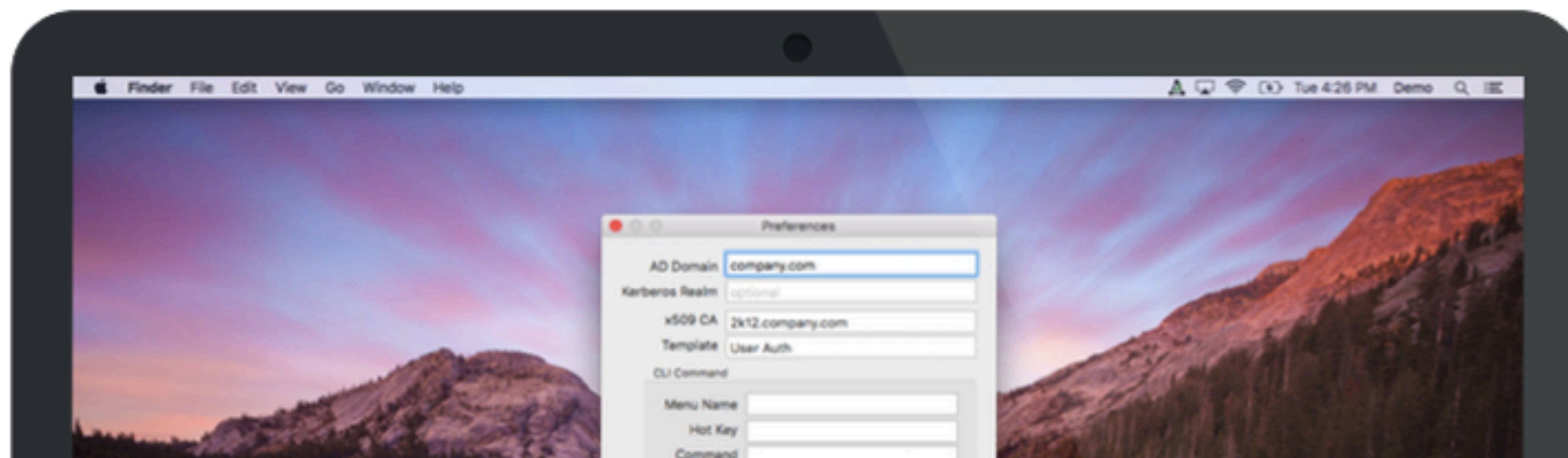
D DEPNotify

Overview

Details

Activity

Cycle Analytics

Repository

Registry

Issues   1

Merge Requests   1

CI / CD

Wiki

Snippets

Members

DEPNotify

DEPNotify is a small light weight notification app that was designed to let your users know what's going on during a DEP enrollment. The app is focused on being very simple to use and easy to deploy.

Looking for a new home

Features   Business   Explore   Marketplace   Pricing

This repository   Search

lindegroup / autopkgr

Watch

<> Code   ⊙ Issues **72**   ⑂ Pull requests **0**   ▥ Projects **0**   ▤ Wiki   Insights ▾

AutoPkgr past, present, and future

Josh Senick edited this page on Mar 10 · 1 revision

Hello AutoPkgr community!

We stand at a crossroads for AutoPkgr development, so I'd like to take this opportunity to review the past, present, and future of this fun little project that's filled an important niche for so many Mac administrators.

This project is no longer maintained

Please see the blog post. 10.13 doesn't appear to support SHA1 passwords anymore, and this project needs to create PBKDF2 passwords (see Security Notes below).

Download

Download CreateUserPkg from the project homepage at http://magervalp.github.com/CreateUserPkg/

Overview

This utility creates packages that create local user accounts when installed. The packages can create users compatible with all workflows that can install standard installer pkgs. For the details on how the packages work article in the May 2012 issue of MacTech.

Free but not open source

Image. Deploy. Configure.

Saving time is a daily concern for system administrators, especially with the increase of minor interventions requested by end-users: accidentally modified system preferences, unstable or misconfigured third-party applications, wrong access rights, viruses, etc... macOS is stable and robust but the capacity to (re)install completely a workstation or a server in a few minutes following a preset workflow that automatically restores the right disk image, configures and backs up what was planned by the administrator is a real benefit in terms of time and money. DeployStudio was designed this way, in order to manage flawlessly large deployments of workstations and servers.

info@deploystudio.com

It's OK to sell software too

Carbon Copy Cloner 5 is fully qualified on macOS High Sierra and APFS. **Learn more before you upgrade.**

CARBON COPY CLONER

FEATURES   ABOUT US   BLOG   HELP   **BUY NOW**   Site Search 🔍

Introducing Carbon Copy Cloner 5:

The smarter, easier CCC.

The first bootable backup solution for the Mac is better than ever.

⬇ **Download 30-Day Trial**

System Requirements & Downloads

▶ **See how CCC works**

Carbon Copy Cloner

Hide Sidebar | Preferences | New Task | Tips   History

TASKS ▼

- CCC Backup Task
  Manual: Macintosh HD → CC...
- Daily Tasks
  3 Tasks
  - Bootable Backup
    Manual: Macintosh HD → C...
  - Photos Backup
    Hourly: Photos → Photos B...
  - RAID Backup
    Weekly: RAID → RAID Backup
  - Work Files
    Manual: Documents → Docu...

VOLUMES

- Macintosh HD
  100 GB PCI Volume
- CCC Backup
  1,000 GB SATA Volume
- Home
  399 GB PCI Volume
- Photos
  750 GB USB Volume
- Photos Backup

Task Group "Daily Tasks"

Drag and drop tasks into this group on the left for easy task organization. **Option + drag** to place a task in more than one group. Tasks can run on their own schedule, sequentially via this group, or both. Reorder the tasks in the table below to specify the run order within the group. Click the Clone button to run the tasks immediately in the specified order.

Next Group Run: Tuesday, August 8, 2017 at 5:30 PM

SUMMARY

Number of tasks: 3

Most recent completed task: RAID Backup (Aug 8, 2017, 11:16 AM)

Tasks reporting a problem: None

GROUP SCHEDULE

Run daily
At 5:30 PM every day

UPCOMING GROUP AND TASK EVENTS

Order	Task Name	Tue 8 5:30 PM	Wed 9 5:30 PM	Thu 10 5:30 PM	Fri 11 5:30 PM	Sat 12 5:30 PM	Sun 13 5:30 PM	Mon 14 5:30 PM	Tue 15 5:30 PM	Wed 16 5:30 PM	Thu 17 5:30 PM
1	Bootable Backup									No upcoming events	
2	Photos Backup	6	12	12	12	12	12	12	12	12	12
3	RAID Backup										

twocanoes.com

twocanoes

MAC APPS

IOS APPS

Winclone

SSL Detective

Bleu JSS

Boot Runner

Guest Pass

Geohopper

SD Clone

Bleu Meetings

Bleu Setup

Push Diagnostics

Button Magic

MAC MANAGEMENT

TCM

LOCATION SERVICES

Bleu Meetings

Get Ready for High Sierra

DOWNLOAD   BUY NOW

BOOTCAMP
28.48 G

Complete Boot Camp Backup

Winclone 6 is the most complete solution for protecting your Boot Camp Windows system against data loss. Winclone is the most reliable cloning solution when migrating Boot Camp to a new Mac.

The **Winclone Backup** feature provides scheduled, incremental snapshots of the Windows User folder for retrieval of earlier versions or deleted data.

Education

Our Products   Teaching Code   IT and Deployment   Programs   How to Buy

Choosing your MDM solution.

MDM solutions are available from a wide range of vendors, whether your school is better suited for a cloud-hosted environment or an on-premise server. MDM solutions come with different features and pricing, so you have flexibility in deciding how to bring Apple devices into your school. These MDM solutions support education features in iOS 9.3 and beyond.

vmware airwatch   cisco Meraki   filewave

HEAT LANrev   ZULUDESK   jamf

MOSYLE manager   tabpilot   Lightspeed Systems

iPad 📶   100% 🔋

Township Elementary
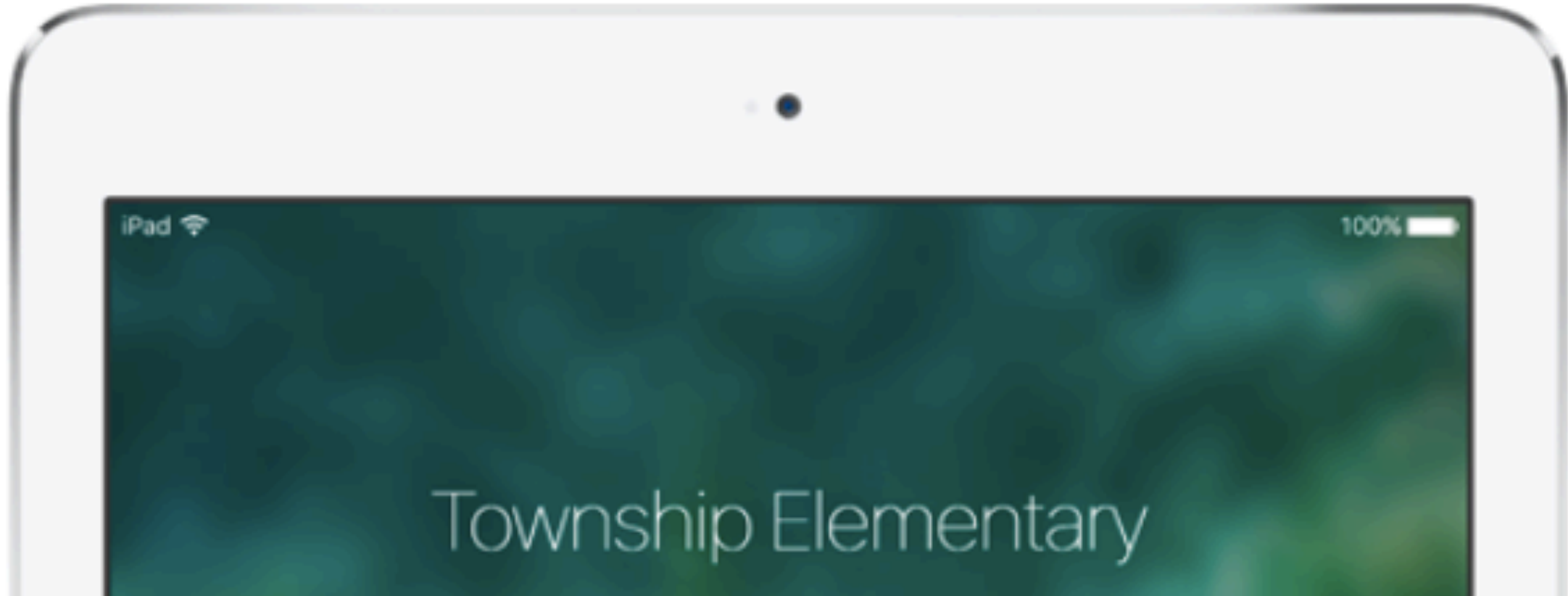
Shared iPad

Shared iPad* enables schools to share devices between students, while still

Dean Hager
@deanhager

Follow

Thank you @anderson for announcing at #Ignite2017 an exciting collaboration between @JAMFSoftware and @MSIntune for in-depth Mac management

DEVICE NAME	USER PRINCIPAL NAME	MANAGED BY	COMPLIANCE	OS	OS VERSION
823461b7-ea06-4620-...		MDM	Device not syn...	Windows	0.0.0.0
AimeePhone	Aimee@ignite2017a.on...	MDM	● Compliant	iOS	10.2
allenMacBook09-18-1		Jamf	● Compliant	macOS	10.12.6

Here's what I'm seeing in the field

No Ethernet

No Servers

No Directory

DEP, MDM, VPP

DEP to enroll in MDM

MDM to manage

VPP to distribute apps & books

DEP, MDM, VPP

Pre-release information

others at the end of the year. We got started with watchOS, more intuitive and intelligent than ever before, incredible new features to help us live a healthier life.

macOS High Sierra, great refinements in technology that will push the macOS experience forward. Updates to MacBook, MacBook Pro and iMac, faster and more capable than ever before. And iOS 11, a major update of the world's best and most advanced mobile operating system, absolutely jam-packed with new features including a completely new App Store, peer-to-peer payments in Apple Pay.

And with ARKit, iOS 11 becomes the world's largest augmented reality platform overnight.

iPad is taken to a whole new level with incredible iPad features in iOS 11.

It's the biggest release for iPad ever. And of course a new line up of iPad Pro with an all new perfect 10.5-inch size with advanced displays, powerful new features that enable people to do more with their iPads than ever before.

And we gave you two sneak peaks, iMac Pro, an entirely new workstation class of products that we design specifically for our Pro users. And the HomePod, a breakthrough home speaker with amazing sound and incredible intelligence. It will reinvent home audio.

WWDC 2017 Keynote Wrap-up

iOS 11	60 words
iPad	42 words
Mac	31 words
HomePod	18 words
watchOS	18 words
macOS High Sierra	14 words

Apple Support Articles

HT207828	Prepare your institution for iOS 11, macOS High Sierra, or macOS Server 5.4
HT208018	Prepare for APFS in macOS High Sierra
HT208019	Prepare for changes to kernel extensions in macOS High Sierra
HT208020	Upgrade macOS on a Mac at your institution
HT208025	Prepare for changes to Content Caching in macOS High Sierra
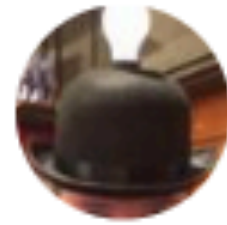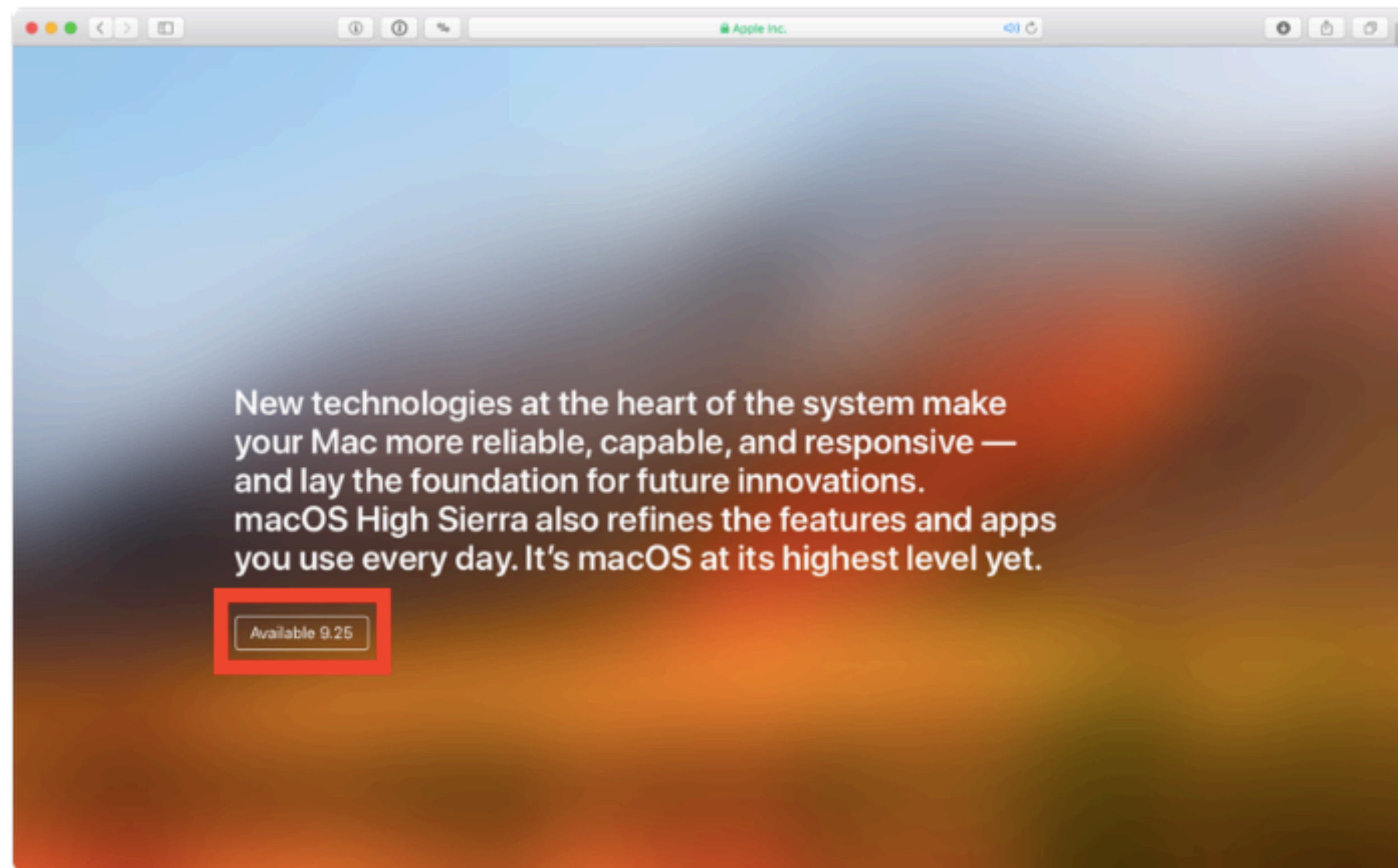
Documentation Updates

Deployment References

- https://help.apple.com/deployment/ios/

- https://help.apple.com/deployment/macos/

Deployment References

- Safari

- iBooks

iOS Deployment Reference

🌐 English (U.S.)

Introduction

What's new in iOS deployment

Deployment process

> Wi-Fi and network infrastructure

What's new in iOS deployment

The following features have been added in iOS 11:

Content caching

The content caching service is now built into macOS High Sierra and configured in the Sharing pane of System Preferences, offering the same settings from previous versions of macOS Server. In addition, a new feature, called Parents, lets you select a Mac that will serve all of its cached content to your Mac. For example, if you have a district office, you can make an iMac your "parent" for the caching service. Locations throughout the city can then use the district office as their parent caching service, allowing potential updates to flow from the district office to each location. Parents can also be children that are hosting other caching services, making tiered caching configuration possible. For more information, see Caching content overview.

What's new in iOS 11 deployment

- Content caching

- Tethered caching

- C

- N

- A

- N

- OAuth support for Exchange Active Sync accounts

- TLS Updates

- tvOS management

- MDM payloads and restrictions for tvOS 11

- MDM payloads and restrictions for iOS 11

Welcome to macOS High Sierra

Take a quick tour to see what's new.

Show

Later

"macOS High Sierra
great refinements in technology
that will push the macOS experience forward."

macOS

Deployment
Reference

macOS Deployment Reference

🌐 English (U.S.)

macOS Deplo

Introduction

What's new in macOS deployment

Deployment process

> Wi-Fi and network infrastructure

What's new in macOS deployment

- Content caching

- TLS updates

- APFS

- User Approved Kernel Extension Loading

- Changes to FileVault Recovery Key Escrow payload

- Active Directory Certificate payload update

- MDM macOS payloads and restrictions, tvOS management

Content Caching

Server 5.0:
no checkbox for iCloud data

Caching (Server 5.1) ON

Status: ● Available - Devices on your local network will automatically use this service
Learn about configuring this service ⊙

Permissions: All Networks
Edit Permissions...

iCloud Data: ☑ Cache personal iCloud data
Data is cached securely and privately ⊙

Cache Location: 📁 Server HD
Change Location...

Cache Size: 75 GB

25 GB   50 GB   75 GB   100 GB   Unlimited

Cache Used: 6.03 GB used of 75 GB

68.97 GB (35.37 GB Available)

Reset...

10.13: Sharing preferences

Sharing

Search

Computer Name: MSA2017

Computers on your local network can access your computer at:
MSA2017.local

Edit...

On	Service
☐	Screen Sharing
☐	File Sharing
☐	Printer Sharing
☐	Remote Login
☐	Remote Management
☐	Remote Apple Events
☐	Internet Sharing
☐	Bluetooth Sharing
☐	Content Caching

○ Content Caching: Off

Content Caching reduces bandwidth usage and speeds up installation on supported devices by storing software updates, apps, and other content on this computer.

☑ Cache iCloud content

Store iCloud data, such as photos and documents, on this computer.

☐ Share Internet connection

Share this computer's Internet connection and cached content with iOS devices connected using USB.

Options...

Q Search

Computer Name: MSA2017

Computers on your local network can access your computer at:
MSA2017.local

Edit...

On	Service
☐	Screen Sharing
☐	File Sharing
☐	Printer Sharing
☐	Remote Login
☐	Remote Management
☐	Remote Apple Events
☐	Internet Sharing
☐	Bluetooth Sharing
☐	**Content Caching**

○ Content Caching: Off

Content Caching reduces bandwidth usage and speeds up installation on supported devices by storing software updates, apps, and other content on this computer.

☑ Cache iCloud content

Store iCloud data, such as photos and documents, on this computer.

☐ Share Internet connection

Share this computer's Internet connection and cached content with iOS devices connected using USB.

Advanced Options...

Storage   Clients   Peers   **Parents**

Parent IP Addresses:

+ −

| First available |
| Random |
| ✓ Round robin |
| Sticky available |
| Hash |

Parent policy

?   Cancel   OK

Bluetooth Sharing   devices connected using USB.

Content Caching

Options...
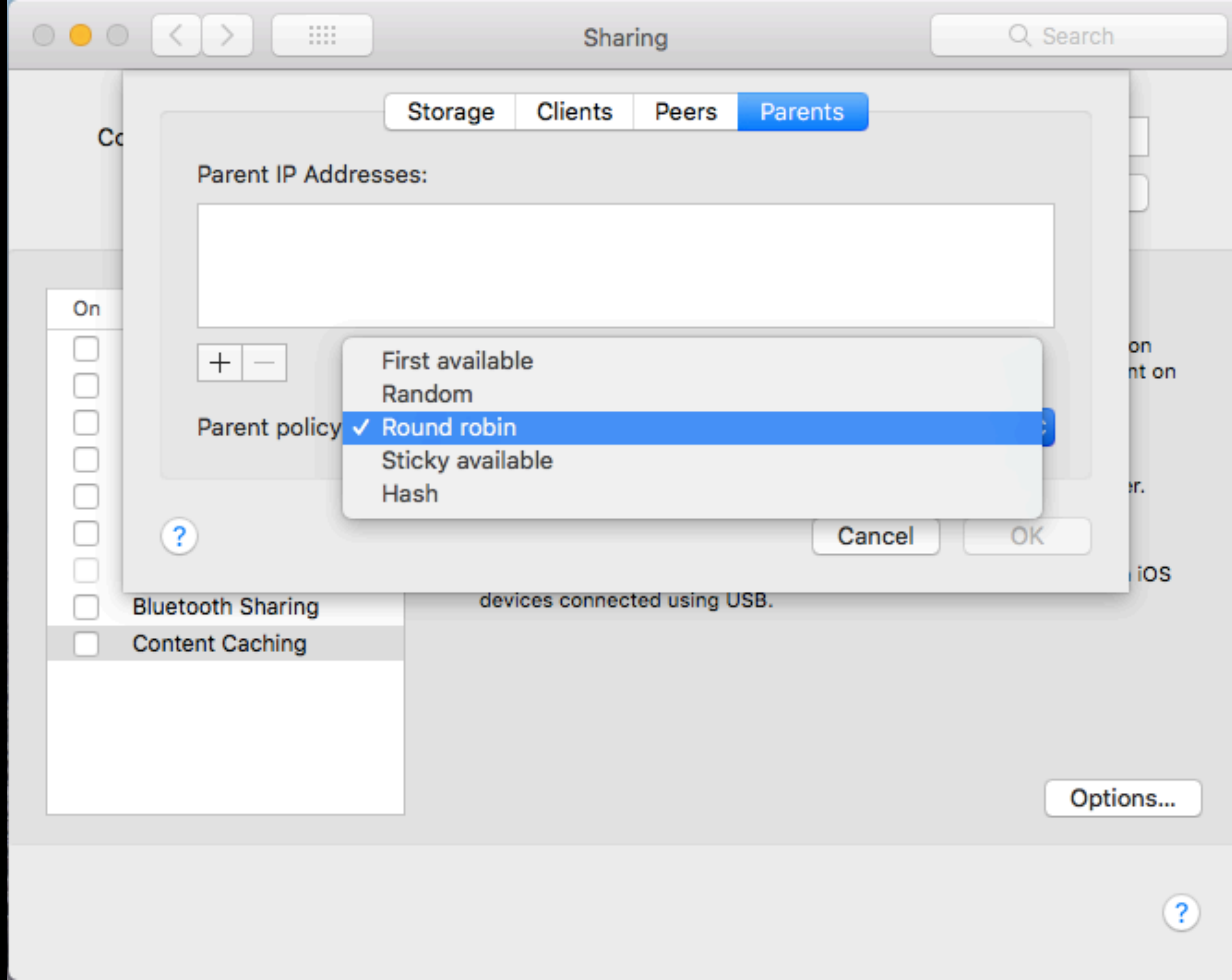
TLS 1.2

Hooray for APFS

APFS

- Flash

- Extensibility

- Security

- Data integrity

- iOS, tvOS, and watchOS

Developer   Discover   Design   Develop   Distribute   Support   Account

< More Videos

System Frameworks   #WWDC16

Introducing Apple File System

A snapshot of the next generation in storage

Session 701

Eric Tamura Manager, Local File Systems
Dominic Giampaolo Senior Software Engineer, Storage / File Systems

00:22   -35:58

Overview   Transcript   Related Videos

System Frameworks   #WWDC17

What's New in APFS

Session 715

Pavel Sokolov, File System Manager
Eric Tamura, File System Manager

Overview   Transcript

APFS | ap apfsVerb [...]

Apple APFS is a system of virtual volumes. APFS verbs can be
used to create, manipulate and destroy APFS Containers and
their APFS Volumes. Apple APFS defines these types of
objects:

    o   Container – An APFS Container imports one or more
        APFS Physical Store disks and exports zero or more
        APFS Volume disks. Zero or more APFS Containers can
        exist in (might be attached to) the system at any
        one time.

        While attached, the "handle" by which an APFS Con-
        tainer is identified is by its APFS **Container
        Reference** disk (device). You should treat this as an
        opaque reference token.

        The **Container Reference** disk is a synthesized whole-
        disk which is exported by APFS for identification
        purposes only; it has no storage. It is associated
        with the AppleAPFSContainerScheme node in the IO
        Registry. While APFS Volume device identifiers
        appear to be of a related form, you should never use

:

Use supported workflows

For a Mac that never ran 10.13:

Always use the Installer

nick.mcspadden 1:13 PM

If you want to ensure you can safely automate it, image them at 10.12.6 and upgrade to 10.13 as part of the bootstrap

Less ideal and more time consuming, but safely automatable at least

1st: Restore 10.12 dmg

2nd: Run 10.13 Installer

What about AutoDMG?

Advanced Options

Volume Name: | Macintosh HD |

Volume Size: | Auto | GB

Finalize Tasks: ☑ Scan for restore

Filesystem: ✓ APFS
             HFS+J
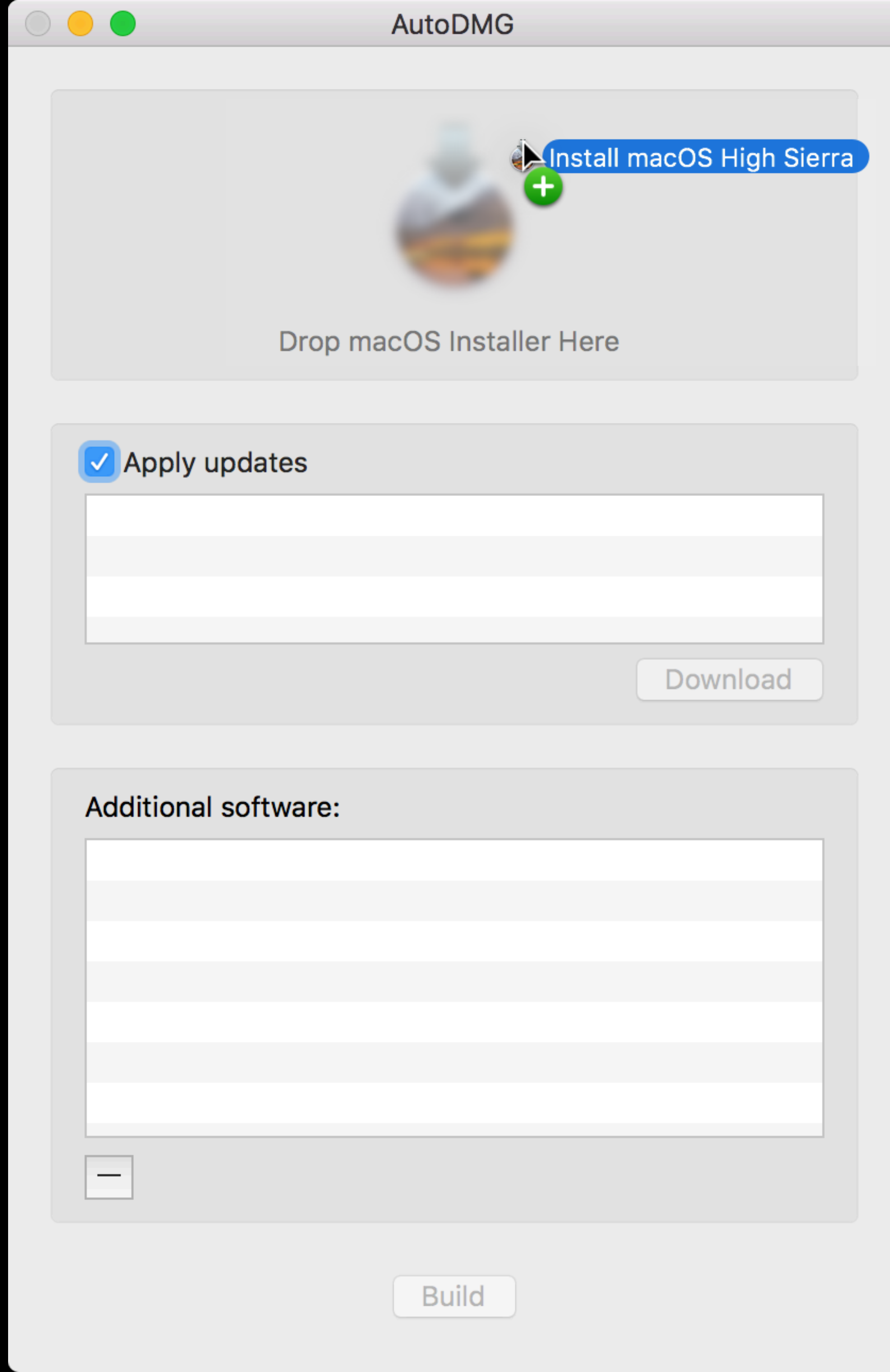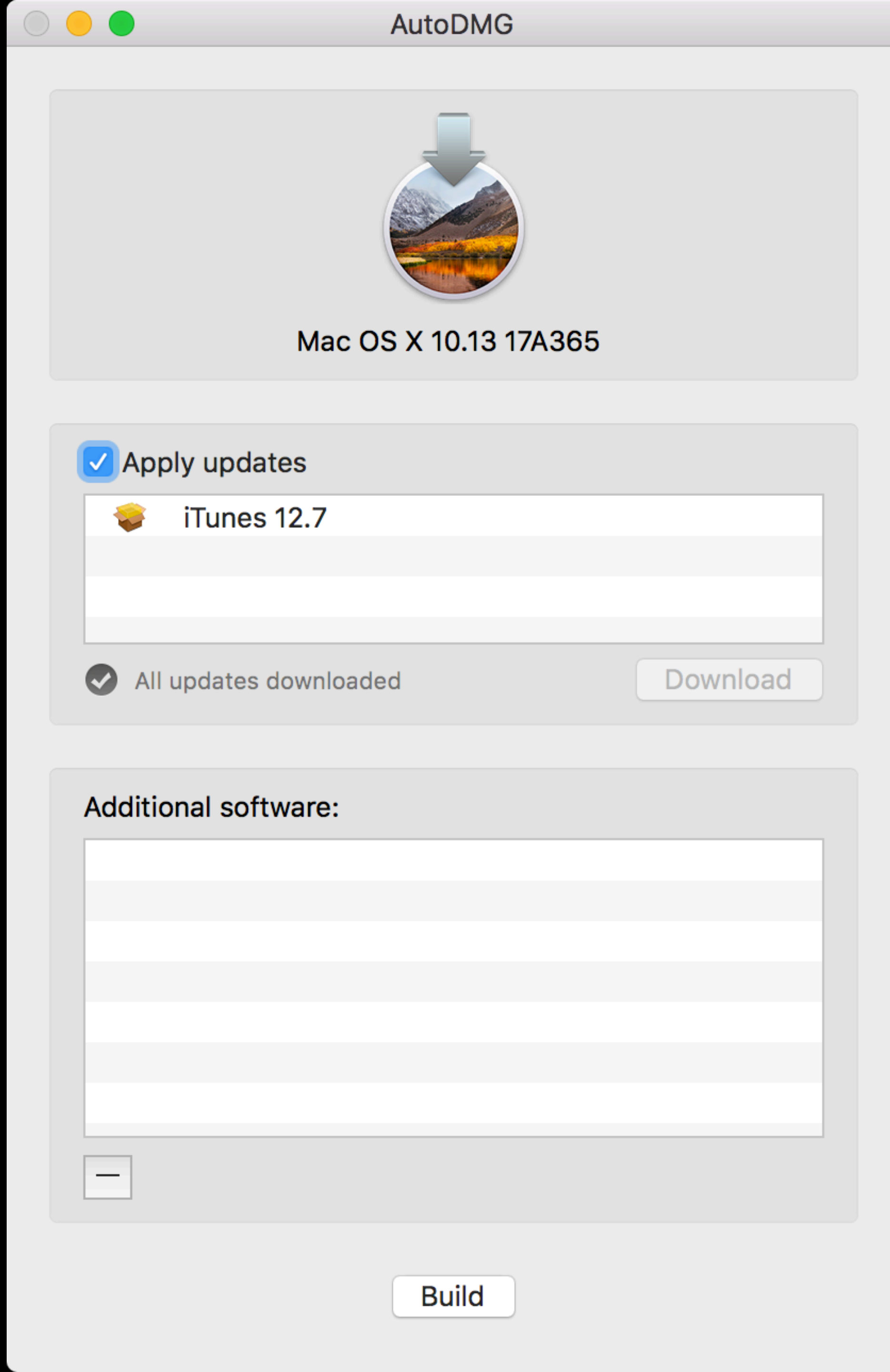
Build successful

Built osx_updated_170926-10.13-17A365.apfs.dmg

Reveal   OK

RESTORING WITH APFS FILESYSTEMS

Individual APFS volumes can not be restored directly, because their
device nodes don't allow I/O from a standard process. However, **asr** can
restore entire APFS containers, including all volumes. Or it can restore
valid system configurations, which can get the effect of restoring a sin-
gle system. This requires understanding what is meant by a **valid system**.

In order for an APFS volume to bootable, it must contain a properly
installed macOS system. It must also be part of an APFS container which
also has two special volumes in it: a Preboot volume and a Recovery vol-
ume. A container may have arbitrarily many system volumes in it, but it
must have only one Preboot volume and one Recovery volume, each with the
corresponding APFS volume role set (see diskutil(1) for information on
roles). The Preboot and Recovery volumes contain information which is
tied to each system volume in the container. So for a system volume to
be bootable, that information needs to be set up in the Preboot and
Recovery volumes. A system which is part of a container that has these
two special volumes, and for which the requisite information is set up in
those volumes, will be referred to here as a **valid system**.

If the source of a restore is an APFS image (i.e. an image which contains
an APFS container), then **asr** does different things depending on how
target was specified:

"Valid system"

- Preboot

- Recovery

- macOS System

- (also VM)

If the source of a restore is an APFS image (i.e. an image which contains
an APFS container), then **asr** does different things depending on how
target was specified:

Container Restore

> If target is an actual disk partition, either of type Apple_APFS or
> some other type, then **asr** will block restore the APFS container to
> the target partition, setting the partition type to Apple_APFS.
> The resulting container on the target will then contain all the
> same volumes as the container in the source.

Volume Restore

> If the target is an individual volume within an existing APFS con-
> tainer, then **asr** will block restore the APFS container to a file
> within that volume, after which it will invert the volume within
> the restored container, erasing the previous contents of the target

> defined above), then the relevant contents of both the Preboot and
> Recovery volumes will be copied from the source to the target, cre-
> ating those volumes on the target if necessary.

Volume Restore with Creation

> if the **--targetnewvolume** option is used in place of **--target**, and
> its argument is the synthesized APFS whole disk, then **asr** will cre-
> ate a new volume in the given container, after which it will do a

:

Disk Utility

View
Volume
First Aid | Partition | Erase | Restore | Unmount
Info

Internal
Macintosh HD

External
Macintosh HD

Macintosh HD
APFS Volume • APFS

121.12 GB
SHARED BY 4 VOLUMES

■ Used
26.63 GB

■ Other Volumes
2.28 GB

○ Free
92.21 GB

Mount Point:	/Volumes/Macintosh HD 1	Type:	APFS Volume
Capacity:	121.12 GB	Owners:	Disabled
Available:	92.21 GB (Zero KB purgeable)	Connection:	Thunderbolt
Used:	26.63 GB	Device:	disk3s1
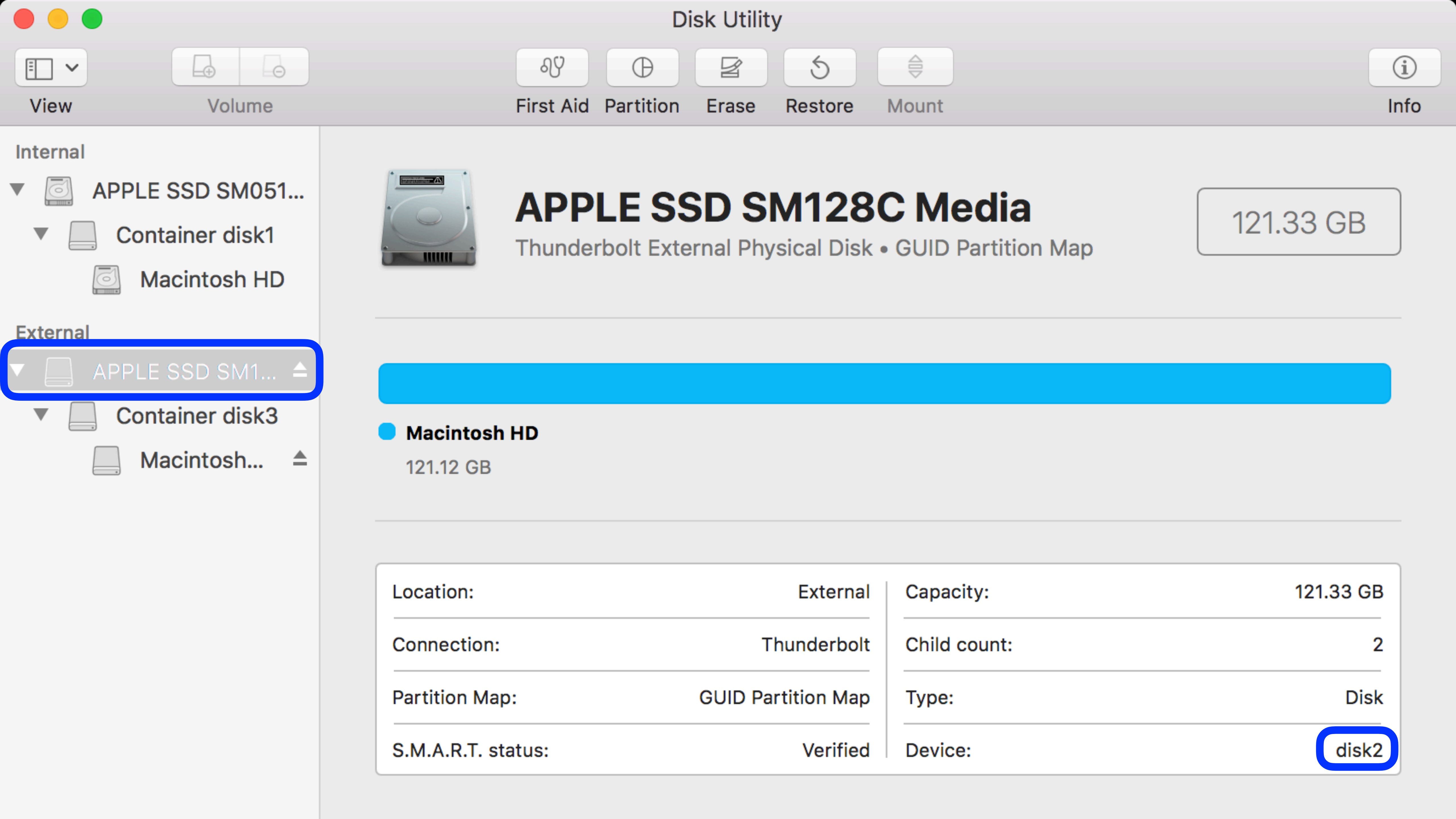
Disk Utility

View | Volume | First Aid | Partition | Erase | Restore | Mount | Info
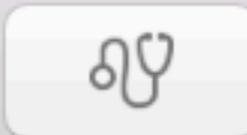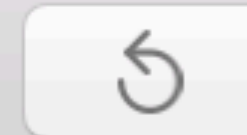
Internal

- APPLE SSD SM051...
  - Container disk1
    - Macintosh HD

External

- APPLE SSD SM1...
  - Container disk3
    - Macintosh...

APPLE SSD SM128C Media

Thunderbolt External Physical Disk • GUID Partition Map

121.33 GB

Macintosh HD
121.12 GB

Location:	External	Capacity:	121.33 GB
Connection:	Thunderbolt	Child count:	2
Partition Map:	GUID Partition Map	Type:	Disk
S.M.A.R.T. status:	Verified	Device:	disk2

View | Volume | First Aid | Partition | Erase | Restore | Mount | Info

Internal

- APPLE SSD SM051...
  - Container disk1
    - Macintosh HD

External

- APPLE SSD SM1...
  - Container disk3
    - Macintosh...

Container disk3
APFS Container

121.12 GB

SHARED BY 4 VOLUMES

■ **Macintosh HD**
26.63 GB

■ **3 Not Mounted**
2.28 GB
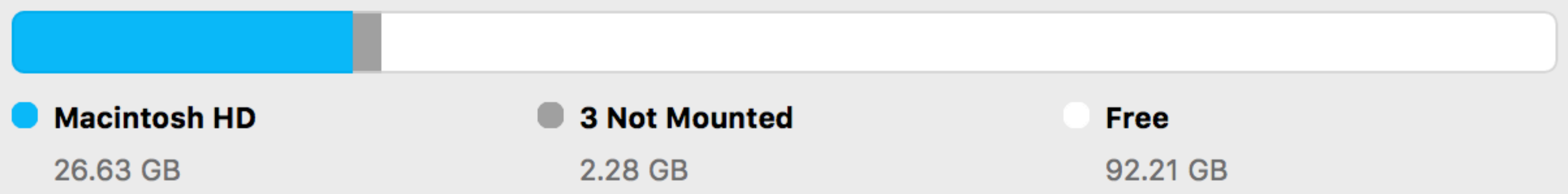
○ **Free**
92.21 GB

Volume count:	4	Type:	APFS Container
Capacity:	121.12 GB	Physical stores:	disk2s2
Free:	92.21 GB	Connection:	Thunderbolt
Used:	28.91 GB	Device:	disk3

```
arek:~ ladmin$ diskutil apfs list
APFS Containers (2 found)
|
+-- Container disk1 93CC3661-E568-49A6-8524-43A5512EC97A
|   ===================================================
|   APFS Container Reference:     disk1
|   Capacity Ceiling (Size):      500068036608 B (500.1 GB)
|   Capacity In Use By Volumes:   470823845888 B (470.8 GB) (94.2% used)
|   Capacity Available:           29244190720 B (29.2 GB) (5.8% free)
|   |
|   +-< Physical Store disk0s2 E872BF57-7C88-473B-89E9-8E667D2F1D0F
|   |   -------------------------------------------------------------
|   |   APFS Physical Store Disk:    disk0s2
|   |   Size:                        500068036608 B (500.1 GB)
|   |
|   +-> Volume disk1s1 D0669E67-2492-3F6C-B658-21AA511B7B8B
|   |   ---------------------------------------------------
|   |   APFS Volume Disk (Role):    disk1s1 (No specific role)
|   |   Name:                       Macintosh HD (Case-insensitive)
|   |   Mount Point:                /
|   |   Capacity Consumed:          467971854336 B (468.0 GB)
|   |   Encrypted:                  Yes (Unlocked)
|   |
|   +-> Volume disk1s2 0BF8249C-2BF4-4A1B-8AE8-2570C820B34E
```

```
+-- Container disk3 A01632DF-A5EF-4728-96F4-0332E16F1CBE
    ==========================================================
    APFS Container Reference:      disk3
    Capacity Ceiling (Size):       121123069952 B (121.1 GB)
    Capacity In Use By Volumes:    28909232128 B (28.9 GB) (23.9% used)
    Capacity Available:            92213837824 B (92.2 GB) (76.1% free)
    |
    +-< Physical Store disk2s2 B678817A-4640-4AA2-B404-534D9EF2244C
    |   -----------------------------------------------------------
    |   APFS Physical Store Disk:    disk2s2
    |   Size:                        121123069952 B (121.1 GB)
    |
    +-> Volume disk3s1 1F958C66-7E8D-48AC-920E-F2B6F8F6BB9C
    |   ---------------------------------------------------
    |   APFS Volume Disk (Role):    disk3s1 (No specific role)
    |   Name:                       Macintosh HD (Case-insensitive)
    |   Mount Point:                /Volumes/Macintosh HD 1
    |   Capacity Consumed:          26629513216 B (26.6 GB)
    |   Encrypted:                  No
    |
    +-> Volume disk3s2 9D88CC1A-2D00-4F13-8F2C-EE2FCEF977EB
    |   ---------------------------------------------------
    |   APFS Volume Disk (Role):    disk3s2 (Preboot)
```

If you target the volume traditionally

```
arek:~ ladmin$ sudo asr restore \
> -s /Users/ladmin/Desktop/osx_updated_170926-10.13-17A365.apfs.dmg \
> -t /dev/disk3s1 --erase
```

```
arek:~ ladmin$ sudo asr restore \
> -s /Users/ladmin/Desktop/osx_updated_170926-10.13-17A365.apfs.dmg \
> -t /dev/disk3s1 --erase
        Validating target...done
        Validating source...done
        Retrieving scan information...done
        Validating sizes...nx_kernel_mount:1364: checkpoint search: largest xid
89, best xid 89 @ 44
done
        Restoring  ....10....20....30....40....50....60....70....80....90....100
        Verifying  ....10....20....30....40....50....60....70....80....90....100
        Inverting target volume...
Could not fix UUIDs for APFS volumes in container /dev/disk3s1
arek:~ ladmin$
```

If you target the container

```
arek:~ ladmin$ sudo asr restore -s /Users/ladmin/Desktop/osx_updated_170926-10.1
3-17A365.apfs.dmg -target /dev/disk3 -erase
        Validating target...done
        Validating source...done
        Erase contents of /dev/disk2s2 ()? [ny]: y
        Retrieving scan information...done
        Validating sizes...nx_kernel_mount:1364: checkpoint search: largest xid
89, best xid 89 @ 44
done
        Restoring  ....10....20....30....40....50....60....70....80....90....100
        Verifying  ....10....20....30....40....50....60....70....80....90....100
arek:~ ladmin$
```

User Approved Kernel Extension Loading

(was SKEL)

System Extension Blocked

A program tried to load new system extension(s) signed by "Google, Inc.". If you want to enable these extensions, open Security & Privacy System Preferences.

OK

Q Search

General   FileVault   Firewall   Privacy

A login password has been set for this user   Change Password...

☑ Require password   5 minutes ⇅   after sleep or screen saver begins

☐ Show a message when the screen is locked   Set Lock Message...

☑ Disable automatic login

Allow apps downloaded from:

○ App Store

◉ App Store and identified developers

System software from developer "Google, Inc." was blocked from loading.   Allow

🔒 Click the lock to make changes.   Advanced...   ?
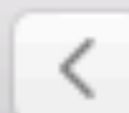
Q Search

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☑ Disable automatic login

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◯ App Store

◉ App Store and identified developers

🔒 Click the lock to make changes.   Advanced...   ?

MDM macOS payloads and restrictions

APPENDIXES

Automated MDM enrollment settings

Apple devices enrolled in your mobile device management (MDM) solution and managed by Apple School Manager (for education) or Apple Deployment Programs (for business) can have the following enrollment options configured:

MDM enrollment options

Option	Usage
Prompt user to enroll device	When this option is on, the device prompts the user to enroll the device in MDM, and you can specify the settings below. The default setting is off.
Do not allow user to skip enrollment step	When this option is on, the user must enroll the device in MDM before setting up the device. The default setting is off.
Prevent unenrollment	When this option is on, a supervised iOS device can't be unenrolled by the user

Setup screen	If it can be hidden from the user	Devices affected
Language (Apple Configurator 2-only)	The language matches the language of the connected Mac.	iPad, iPhone
Region (Apple Configurator 2-only)	The region matches the region of the connected Mac.	iPad, iPhone
Quick Start	The user can't use another iOS 11 device to automatically configure this device.	iPad, iPhone
FileVault	The user can't enable FileVault.	Mac
Terms and conditions	The terms and conditions aren't shown to the user. The device must be enrolled in Apple School Manager or Apple	iPad, iPhone Apple TV Mac

Duplicates

Some payloads allow for more than one to be delivered to a user or device. For example, you can add more than one Subscribed Calendars payload to a configuration profile. This allows you to subscribe the user to, in this case, more than one calendar.

Payload	OS	Supervised	Interaction	Duplicates
General settings	iOS tvOS macOS device macOS user	No	Exclusive	No
iOS Restrictions settings	iOS	Some	Combined	No
tvOS restrictions settings	tvOS	Some	Combined	No
macOS Restrictions settings	macOS device macOS user	No	Combined	No

RESTRICTIONS REFERENCE

Restriction categories

App installation restrictions   App usage restrictions

Device restrictions   Security and privacy restrictions

iCloud restrictions   Safari restrictions

Siri restrictions   AirPrint restrictions

Classroom app restrictions   tvOS-only restrictions

macOS sharing restrictions   macOS media restrictions

macOS Finder restrictions   Profile Manager user and user group restrictions

Was this help page useful? *Send feedback.*

Restrictions reference

Restrictions settings

Restriction categories

App installation restrictions

App usage restrictions

Device restrictions

Security and privacy restrictions

iCloud restrictions

Safari restrictions

Siri restrictions

RESTRICTIONS REFERENCE

App installation restrictions

Setting	When disabled	Supervised	OS
Allow installing apps using Apple Configurator 2 and iTunes	Users can't install apps using Apple Configurator 2 or iTunes.	No	iOS
Allow installing apps using App Store	App Store is disabled and its icon is removed from the Home screen. Users can't install or update apps from the App Store using iTunes or MDM. In-house enterprise apps can still be installed and updated.	Yes	iOS
Allow	The App Store won't automatically	Yes	iOS

macOS Deployment Reference

RESTRICTIONS REFERENCE

iCloud restrictions

Setting	When disabled	Supervised	OS
Allow use of iCloud password for local accounts	Users can't use their iCloud password for their local account password.	No	macOS
Allow iCloud Drive	iCloud Drive can't be used to store any data.	No	macOS
Allow iCloud Documents & Data	Documents and data aren't added to iCloud.	No	iOS macOS
Allow iCloud Keychain	iCloud Keychain can't be used.	No	iOS macOS
Allow iCloud	Mail isn't uploaded to iCloud.	No	macOS

APPENDIXES

Advanced Active Directory payload options

The following Active Directory configuration keys can be added to the Directory payload, of type com.apple.DirectoryService.managed. Note that some settings are set only if the associated flag key is set to "true." For example, ADPacketEncryptFlag must be set to "true" to set the ADPacketEncrypt key to "enable."

Here are supported methods for installing a profile with the advanced Active Directory configuration key:

- Double-click the .mobileconfig file using Finder

- Execute `/usr/bin/profiles` using Terminal

- Use System Image Utility to add the Add Configuration Profiles action to a NetRestore or NetInstall custom image creation workflow

Key	Type	Description
HostName	string	The Active Directory

More
Documentation Updates

Apps Documentation

- https://help.apple.com/configurator/mac/

- https://help.apple.com/classroom/ipad/

- https://help.apple.com/profilemanager/mac/

- https://help.apple.com/serverapp/mac/

Apple Configurator 2 Help

English (U.S.)

ABOUT APPLE CONFIGURATOR 2

What's new

You can now perform the following tasks with Apple Configurator 2.5.

Manually add iOS and tvOS devices to Apple School Manager or Apple Deployment Programs

You can choose to add iOS and tvOS devices to the Device Enrollment Program (part of Apple School Manager and Apple Deployment Programs) using Apple Configurator 2.5, even if the devices weren't purchased directly from Apple, an Apple Authorized Reseller or an authorized cellular carrier. When you set up a device that has been manually enrolled, it behaves like any other enrolled device, with mandatory supervision and mobile device management (MDM) enrollment. For devices that weren't purchased directly, the user has a 30-day provisional period to remove the device from enrollment, supervision, and MDM.

This feature requires iOS 11 and tvOS 11. For more information, see Prepare devices manually.

Erase device update

You now have the option to preserve your data plan when erasing a device.

Manually add to DEP or ASM

- Non-DEP iOS devices

- 30 day provisional status

- Mandatory supervision and enrollment

- iOS 11, tvOS 11

- Apple Configurator 2.5

to the cloud after the next user signs in to the iPad.

For optimal performance with Classroom, class sizes of 60 students or fewer are recommended. Classroom can't interact with more than 60 students in a single class. Classroom can also access up to 250 nearby iPad devices so that students on those devices can be assigned to use Shared iPad.

Classroom can be used for both admin-created and teacher-created classes.

Note: Student images are added on the MDM server for admin-created classes. The student is responsible for adding their image on their iPad for teacher-created classes.

Admin-created classes

Profile Manager Help

Configure devices and run a mobile device management service.

🌐 English (U.S.)
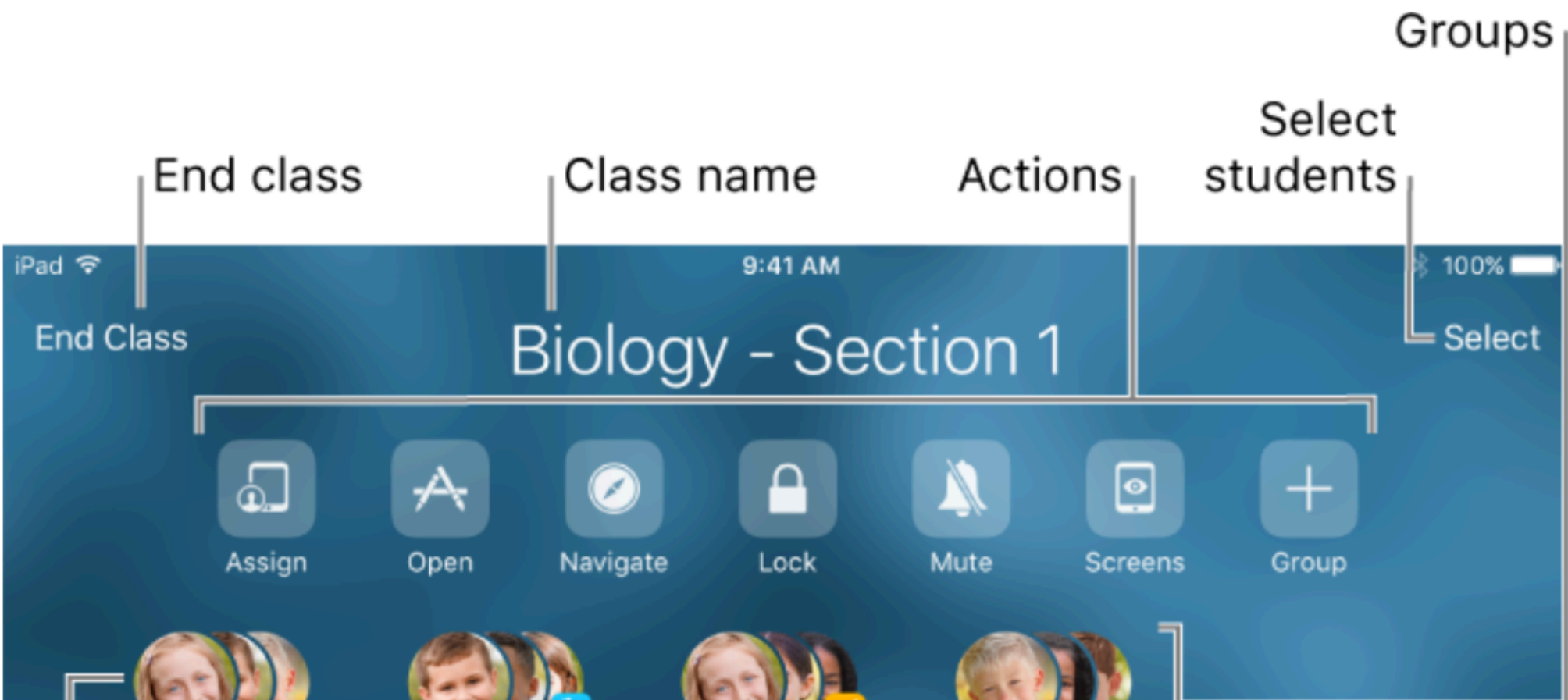
USE PROFILE MANAGER

What's new

You can now perform the following tasks with Profile Manager 5.4.

Erase device update

You now have the option to preserve your data plan when erasing a device.

Skip certain update screens

The following screens can be skipped in iOS 11 and tvOS 11:

- Quick Start (iOS 11)

- New feature highlights (iOS 11)

- Sign in to your TV provider (tvOS 11)

For more information, see Setup Assistant screens.

Supervise tvOS devices

Profile Manager
…without Open Directory

Server Field Guide

Search

Identify

Xserve Models

Serial Number

MAC Addresses

▶ Port Numbers

Install

Connect

Start Up

Access

Diagnose

Shut Down

Xserve Models

To identify an Xserve model, compare these distinguishing features:

Xserve Intel (3rd-Gen, Early 2009):

Mini DisplayPort

Xserve Intel (2nd-Gen, Early 2008):

Mini-DVI port

Xserve Intel (1st-Gen, Late 2006):

Server Help

English (U.S.)

Services of macOS High Sierra

macOS High Sierra contains the following services, which were previously part of macOS Server. If you were using these services in macOS Server 5.3, refer to the links below to continue managing these services in macOS High Sierra.

Caching service provides caching of software distributed by Apple through the Internet. For more information, see About content caching.

File sharing service lets users store and share folders and files on your Mac. For more information, see Use File Sharing to share files.

Time Machine service lets users back up their Mac computers on your Mac. For more information, see Use a shared folder with Time Machine.

Services of macOS Server

macOS Server can provide services to Mac, Windows, and UNIX computers, and to iOS devices such as iPhone, iPad, and iPod touch. You use the Server app to turn on the services you want to provide, customize service settings, and turn off

Set up a shared Time Machine backup folder

1. Choose Apple menu > System Preferences, then click Sharing.

2. Select the File Sharing checkbox.

3. Click the Add button + at the bottom of the Shared Folders list.

4. Navigate to and select the folder you want to use for sharing, then click Add.

5. Select the name of the shared folder, click Options, then make sure "Share files and folders using SMB" is selected and "Share files and folders using AFP" is not selected.

6. Control-click the name of the folder, then choose Advanced Options.

7. Select "Share as a Time Machine backup destination."

8. If desired, select "Limit backups to," then enter a size.

9. Click OK.

And More
Documentation Updates

Services Documentation

- https://help.apple.com/deployment/business/

- https://help.apple.com/schoolmanager/

DEPLOYMENT PROGRAMS OVERVIEW

What are Apple Deployment Programs?

Apple Deployment Programs are a suite of programs that help you do the following:

- *Device Enrollment Program (DEP):* Automate enrollment of Apple devices into a mobile device management (MDM) solution to streamline deployment.

- *Volume Purchase Program (VPP):* Purchase apps and books in volume and distribute apps to devices (with iOS 9 or later, or OS X 10.11 or later) and apps and books to users.

Each of these programs is described separately, so you can learn how each program works and which one is best for your situation.

Note: To see whether an Apple program is available in your country or region, go to the Apple Support article Availability of Apple programs for education and business.

Apple School Manager Help

Note: To see whether an Apple program is available in your country or region, go to the Apple Support article Availability of Apple programs for education and business.

support.apple.com/guide/[APPNAME]
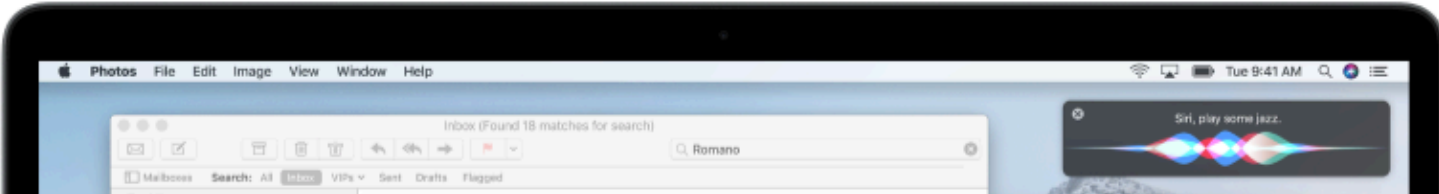
Mac   iPad   iPhone   Watch   TV   Music   Support

Mac Help

Communities   Contact Support

Mac Help

Browse Topics for Mac Help ⊕

Welcome to macOS

Your Mac includes macOS, the world's most advanced desktop operating system. macOS includes features and apps you'll use each day, and it enables your Mac, iPhone, iPad, iPod touch, and Apple Watch to work together.

support.apple.com/guide/system-image-utility
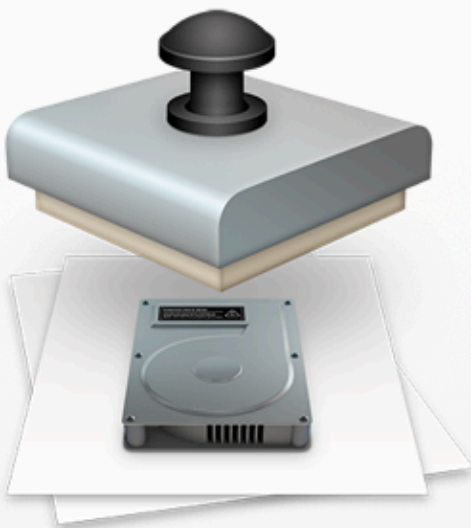
System Image Utility Help

Browse Topics for System Image Utility Help ⊕

Welcome to System Image Utility

Create and deploy custom network images that contain operating system software, configuration profiles, scripts, or packages.

System Image Utility

Choose a source

Choose an applicable source that will be used to create a network
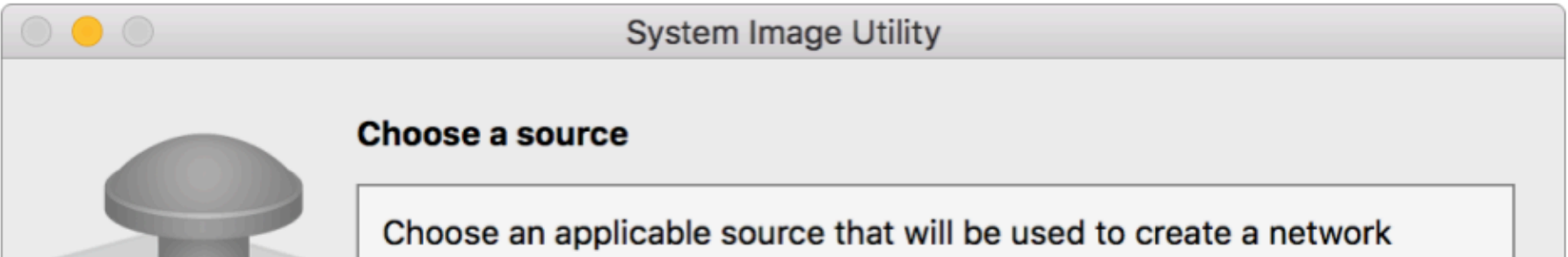
support.apple.com/guide/keychain-access

Keychain Access Help

Keychain Access Help

Browse Topics for Keychain Access Help ⊕

Welcome to Keychain Access

Safely store your passwords and account information in a keychain, where they're secure and easy to access.

If login pw ≠ keychain pw

Q Search

Favorites

AirDrop
Recents
iCloud Drive
Applications
Desktop
Documents
Downloads

Devices

Remote Disc

Shared

All...

Tags

Red

Calendars

CallServices

ColorPickers

Colors

Compositions

Containers

CoreFollowUp

Dictionaries

Family

Favorites

FileProvider

FontCollections

Fonts

Group Containers

IdentityServices

iMovie

Input Methods

Internet Plug-Ins

Keyboard Layouts

KeyboardServices

Keychains

FCC0B59C-...DE0843CD4A

login_rename....keychain-db

login.keychain-db

keychain-2.db

keychain-2.db-shm

keychain-2.db-wal

user.kb

user.kb-invalid

support.apple.com/guide/directory-utility
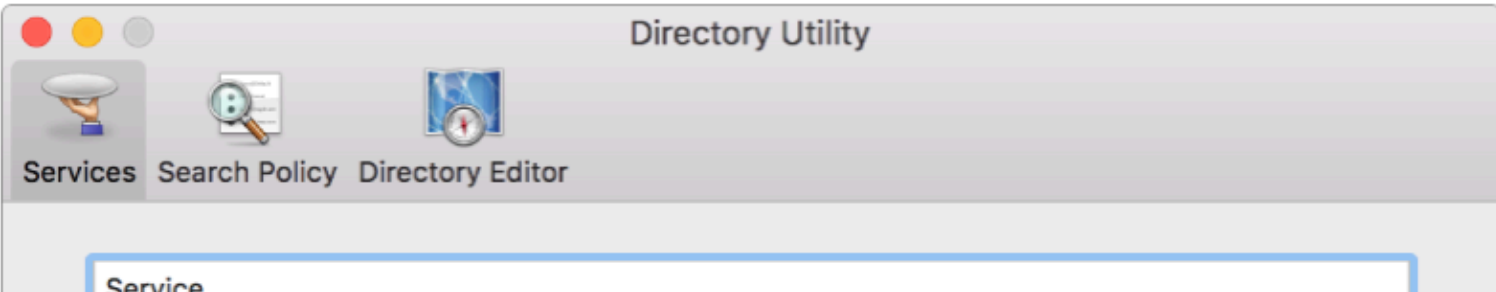
Directory Utility Help

Directory Utility Help
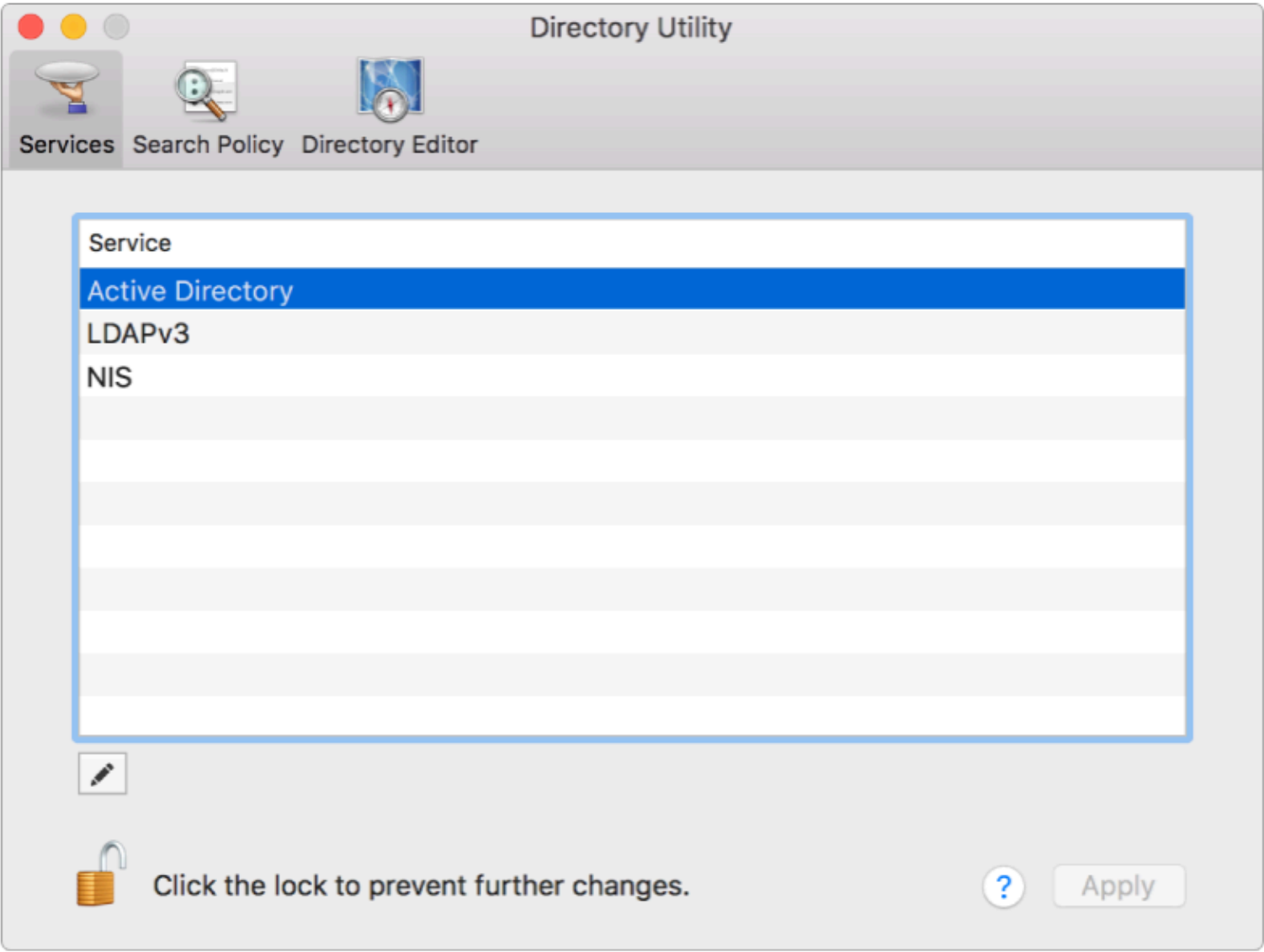
Browse Topics for Directory Utility Help ⊕

Welcome to Directory Utility

Add and configure advanced connections to directory servers, change search policies, and view user and group attributes.

Welcome to Directory Utility

Add and configure advanced connections to directory servers, change search policies, and view user and group attributes.

Connect to a directory service

Use a single set of credentials to access network resources by connecting your Mac to one or more directory services, such as Open Directory or Active Directory. Click Services, then double-click the service you want to configure.

Active Directory Forest: - Automatic -
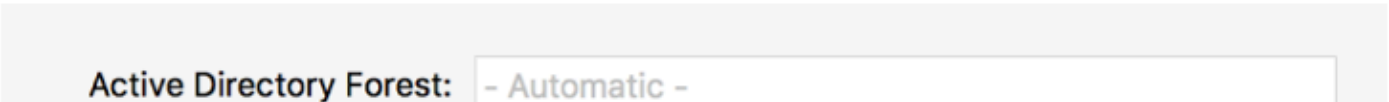
Directory Utility
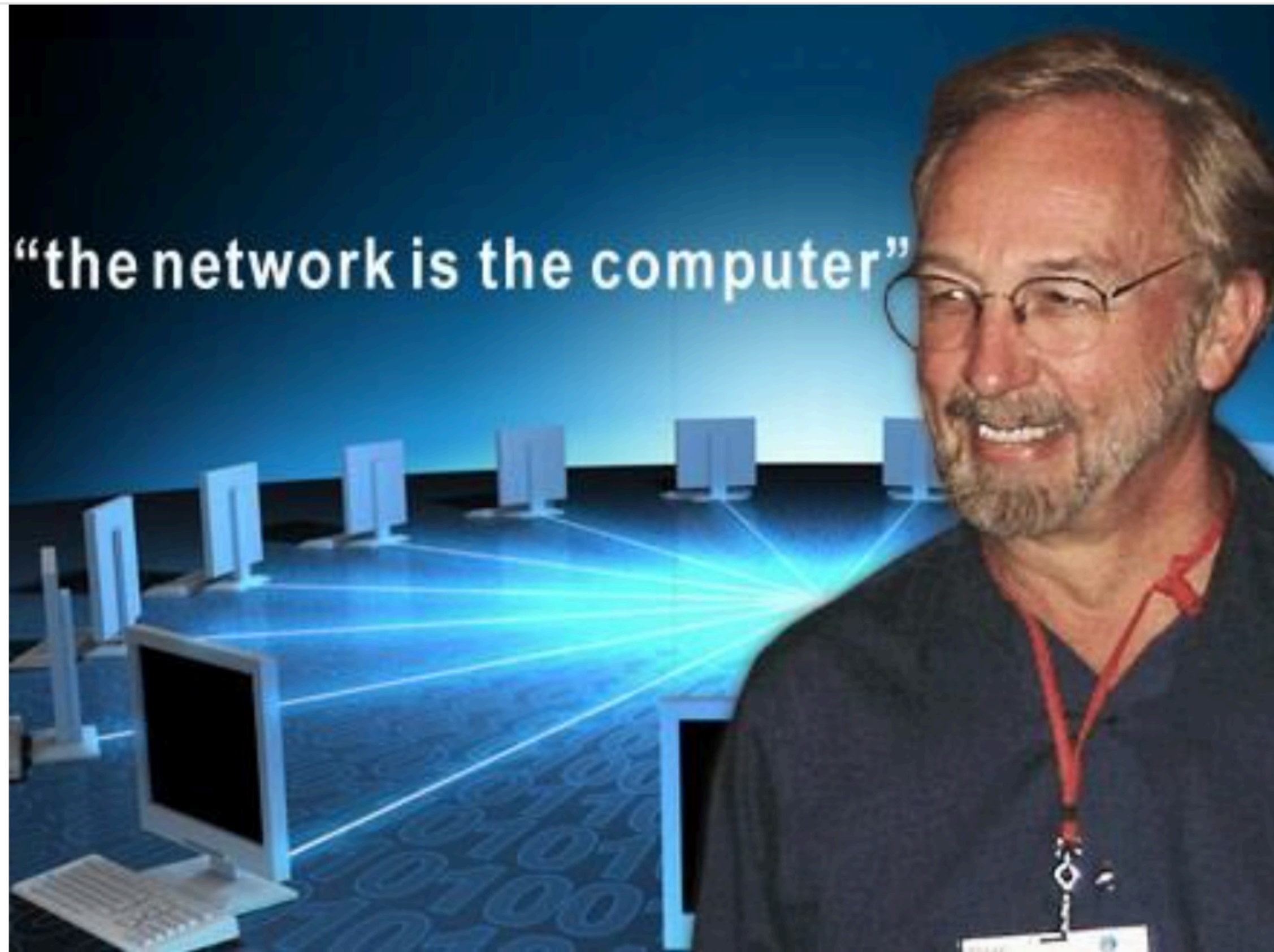
Services   Search Policy   Directory Editor

Service
Active Directory
LDAPv3

The network is the computer (1984) Contrary to popular belief, the slogan "the network is the computer" was coined not by Scott McNealy but by John Gage, Sun's fifth employee, in 1984. A colleague of Bill Joy from UC Berkeley, Gage was a math instructor who grew fascinated by computers and went on to become the public face of Sun. His motto predicted cloud computing. Until Sun went off in all directions, it worked as the company's unifying principle.
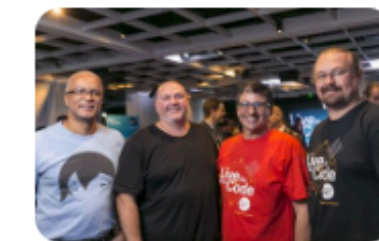
Related slideshows

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In pictures: Microsoft announces two Canbe cloud regions

Gallery: Oracle Code 2

In pictures: Get your ap order - the 'next wave' digital transformation

NSW government kee tackle cyber skills sho

Gallery: Telstra Labs

support.apple.com/guide/[APPNAME]

- Safari Autofill

- Modifying sending diagnostic usage data to Apple and crash data to developers

- AirDrop

- Modifying wallpaper

- Defer software notifications and updates for 90 days

- Dictation

- iTunes File Sharing

- Content caching

- Allowing user to change password

- Allowing user to unlock the Mac using Apple Watch

For more information, see Restriction categories.

Was this help page useful? Send feedback.

- Allowing user to unlock the Mac using Apple Watch

For more information, see Restriction categories.

Was this help page useful?

◉ Yes. I found the information I was looking for.

○ Somewhat. I found some of the information I was looking for.

○ No. I did not find the information I was looking for.

Comments:

This is great. Thank you for providing the What's new information. The Apple administrator community thanks you. This helps us tremendously.

Thank you for your comments; we regret that we can't respond directly to you. Please read Apple's Unsolicited Idea Submission Policy.

Cancel   Send feedback

What can you manage on one platform but not the other?

Management features from iOS I'd like for macOS

SecureBoot

Supervision

Activation Lock

Managed Open In

Finally a burning question

Should people use an ADMINISTRATOR account for everyday use?

Home user probably fine

What about in a company?

Admin vs Standard

- Anyone can agree to a kernel extension now

- SIP prevents even root from modifying some things

- Administrator required to enroll in and remove MDM

- Administrator required to print and change date & time

If your users use standard accounts, you should too

Because in the end,
it's all about the users.

OS State of the Union

- Community continues to grow

- Use the community and Apple resources

- Share your knowledge and experience

- Apple continues to innovate

- You need to continue to learn

Thank you!

arek@arekdreyer.com