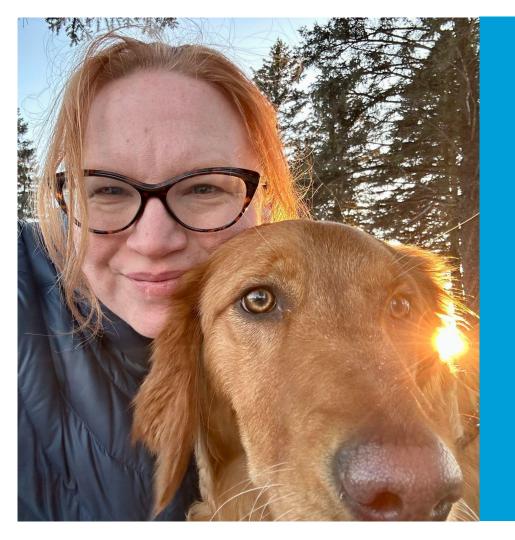


Testing with Friends



## Us

Rebecca Latimer Senior IT Endpoint Engineer



## Us

Adam Anklewicz
Manger,
IT Endpoint Engineering
@aanklewicz



## About Thumbtack

Why?

### Beta Testing Prevents Problems

Note: Because of dependency on architecture and system changes to any current version of Apple operating systems (for example, macOS 15, iOS 18, and so on), not all known security issues are addressed in previous versions (for example, macOS 14, iOS 17, and so on).

https://support.apple.com/guide/deployment/about-software-updates-depc4c80847a/web



Pre-2023

### **Only IT Testing**

- Echo chamber effect
- Small sample size
- No diversity in environments



Our Goals

## 5% of Mac users

All
Departments (that use macOS)

**Feedback** 





Getting Volunteers

## Teamed up with comms.

Communicated to staff.

**Incentives?** 



## Our original plan

Our original plan

## seedutil Munki





#### seedutil

RIP

You can still use the command to get current seed, but that's it.

#### Command:

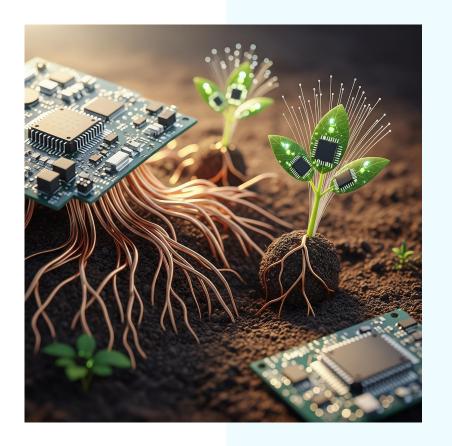
/System/Library/PrivateFrameworks/Seeding.frame work/Resources/seedutil current

[rlatimer@603e5f78ba08-mac ~ % sudo /System/Library/PrivateFrameworks/Seeding.fra] mework/Resources/seedutil current Currently enrolled in: CustomerSeed seedutil is no longer supported. Use Software Update to manage beta enrollment. Legacy Program: (null) Is Enrolled: YES Build is seed: NO CatalogURL: https://swscan.apple.com/content/catalogs/others/index-26customersee d-26-15-14-13-12-10.16-10.15-10.14-10.13-10.12-10.11-10.10-10.9-mountainlion-lio n-snowleopard-leopard.merged-1.sucatalog.gz Asset Server URL: https://swscan.apple.com/content/catalogs/others/index-26custo merseed-26-15-14-13-12-10.16-10.15-10.14-10.13-10.12-10.11-10.10-10.9-mountainli on-lion-snowleopard-leopard.merged-1.sucatalog.gz/ NSShowFeedbackMenu: YES DisableSeedOptOut: NO Asset Audience: 3887527d-63af-453b-af37-67f26a0d156e rlatimer@603e5f78ba08-mac ~ %

Running seedutil on macOS

seedutil whatisaseed

## What are the seeds?





# What happened?

#### **macOS 13.4**

seedutil is dead. Long live... oh no, there's nothing to replace it.



## Our (old) new plan

Our old new plan

# Munki Hand-crafted artisanal invites



#### **Enroll In BetaThumbs**

#### Thumbtack

Join Thumbtack's beta program. Get the latest software immediately. If you haven't already done so, once installed sign up with this Google Form.

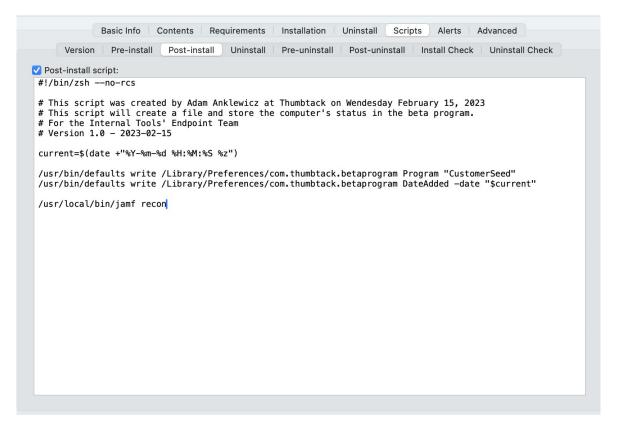
INSTALL



#### Munki

Nopkg file with scripts

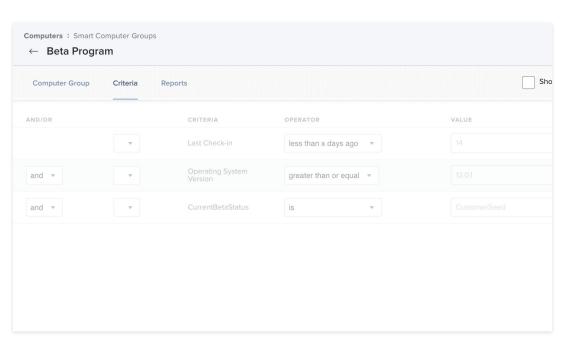
- Install check
- Postinstall
- Uninstall





#### **Jamf**

Using an Extension Attribute, a smart group is created to hold all the people in CustomerSeed.



Smart Criteria in Jamf

## Managed Apple Accounts

Make sure permissions are correct!



#### **Staff**

Staff are non-managerial personnel at specific locations within Thumbtack, Inc.. They can be assigned to any location, and can use devices managed by your organization, but may not sign in to Apple Business Manager.

Can act on accounts with these roles:

#### None

Basic Privileges (required)

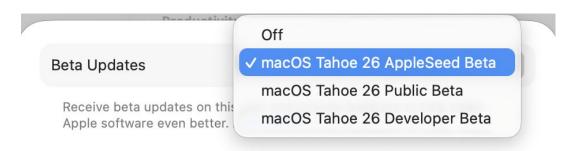
- Participate in AppleSeed for IT
- Use managed devices
- Sign in to iCloud.com with a Managed Apple Account
- ✓ Use managed Apps and Books



# appleseed.apple.com/beta.apple.com/it-beta.apple.com/for-it

#### **Opting In**

Remember seeds?



Accessing beta updates



## Our new new plan

Our new (new) plan

## Munki DDM





#### Munki

Self-service portal

```
joinbetaprogram.plist

◇ -/Documents/munki_repo/pkgsinfo/scripts/joinbetaprogram.plist ○

  39 * <string>#!/bin/zsh
   # This script was created by Adam Anklewicz at Thumbtack on Thursday February 16, 2023
 # Inis script was created by Adda Anklewicz at Inumotack on Inursay
# Will check to see if the computer is enrolled in the beta program.
# For the Internal Tools' Endpoint Team
# Forsion 1.0 - 223-02-16
#5 # Version 1.1 - 2023-05-09 Remove any seedutil dependencies
           current=$(date +"%Y-%m-%d %H:%M:%S %z")
           if [ -f /Library/Preferences/com.thumbtack.betaprogram.plist ]; then
    currentState=s[/usr/bln/defaults read /Library/Preferences/com.thumbtack.betaprogram Program)
    if [ scurrentState = "CustomerSeed"]; then
                       echo "Device is enrolled in CustomerSeed."
                        echo "Device was enrolled on" ${/usr/bin/defaults read /Library/Preferences/com.thumbtack.beta
                 elif [ $currentState = "Production" ]; then
                      echo "Device is enrolled in Production"
echo "Device was enrolled on" $//usr/bin/defaults read /Library/Preferences/com.thumbtack.beta
                 /usr/bin/defaults write /Library/Preferences/com.thumbtack.betaprogram Program "Production"
/usr/bin/defaults write /Library/Preferences/com.thumbtack.betaprogram DateAdded -date "$current"
                 echo "Device is enrolled in Production."
  64 exit 0
65 = fi</string>
                 <key>installer_type</key>
                <string>nopkg</string>
<key>minimum_os_version</key>
                 <string>10.4.0</string>
                <key>name</key>
                 <string>joinbetaprogram</string>
                <key>postinstall_script</key>
<string>#!/bin/zsh
          # This script was created by Adam Anklewicz at Thumbtack on Wendesday February 15, 2023 # This script will create a file and store the computer's status in the beta program. # For the Internal Tools' Endpoint Team
    L: 43 C: 3 XML 0 Unicode (UTF-8) 0 Unix (LF) 0 al Saved: 11:24:53 AM 3,846 / 498 / 113 Q, 3 100% 0
```

pkginfo file for enrolling in the beta program, actal file can be found at https://github.com/internal-thumbtack/BetaBuddiesResources

#### **Fleet Labels**

Using a query, a label is created to hold all the people in CustomerSeed.

#### Name

BetaThumbs

#### Description

Devices enrolled in CustomerSeed via Munki

#### Query

```
SELECT 1 FROM plist
WHERE path = '/Library/Preferences/com.thumbtack.betaprogram.plist'
AND value = 'CustomerSeed';
4
```

Label queries are immutable. To change the query, delete this label and create a new one.

#### **Platform**

#### macOS

Label platforms are immutable. To change the platform, delete this label and create a new one.

Cancel

Save



#### **DDM**

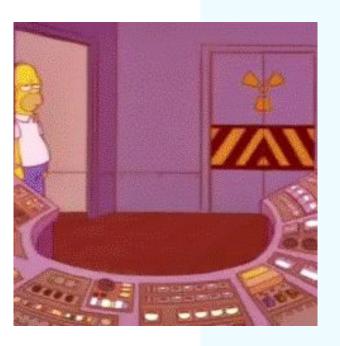
Send DDM profile to devices with CustomerSeed label





Pre-2023	Current	Future (maybe now!)
Automatic	Manual	Semi-manual
IT opts users in	Users opt themselves in	Users opt themselves in
Seedutil script	User messaging	DDM command

#### **Disaster Plan**





## Test machines

## Scheduling

#### **Minor releases**

Apple releases new beta

Day 0

IT Testers Install new beta

Day 0

BetaThumbs asked to install

Day 2



#### **Major releases**

**Apple** releases beta

June

**IT runs** beta on dedicated test hardware

June/July

IT runs beta on production

July/August

**BetaThumbs Update to** beta August/

September

**Apple** releases new macOS

September



Day 0



## 3rd Party Apps

3rd Party Apps

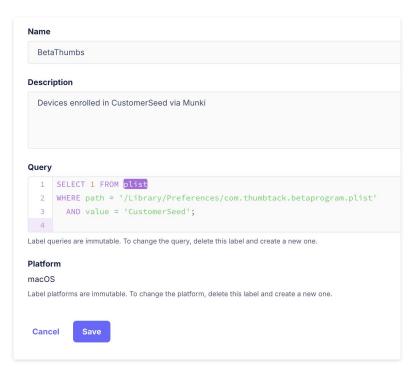
## Munki Stagger releases with random numbers





Munki nopkg script to assign each device a random number each quarter.

Labels reading plist
Group assigned to beta Munki
catalogue



Rollout Phase 0

Munki nopkg script to assign each device a random number each quarter.

Labels reading plist Group assigned to beta Munki catalogue

Script available at github.com/internal-thumbtack

Munki nopkg script to assign each device a random number each quarter.

#### Labels reading plist

Group assigned to beta Munki catalogue

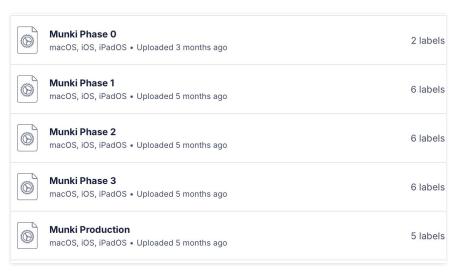
```
Name
  Phase 1
Description
  Macs with a random number from 0 to 100
Query
   1 SELECT 1
   2 WHERE EXISTS (
            SELECT 1 FROM plist
            WHERE path = '/Library/Preferences/com.thumbtack.randomnumber.plist'
                strftime('%Y','now') || '_Q' ||
                    WHEN CAST(strftime('%m','now') AS integer) BETWEEN 1 AND 3 THEN '1'
                    WHEN CAST(strftime('%m','now') AS integer) BETWEEN 4 AND 6 THEN '2'
                    WHEN CAST(strftime('%m','now') AS integer) BETWEEN 7 AND 9 THEN '3'
                    ELSE '4'
                END)
             AND CAST(value AS integer) BETWEEN 0 AND 100
   16 AND EXISTS (
            WHERE path = '/Library/Preferences/com.thumbtack.betaprogram.plist'
            AND value = 'Production'
  20 );
Label queries are immutable. To change the query, delete this label and create a new one.
Platform
macOS
Label platforms are immutable. To change the platform, delete this label and create a new one.
```



Munki nopkg script to assign each device a random number each quarter.

Labels reading plist

**Group assigned to beta Munki** catalogue



Rollout profiles in Fleet

Munki nopkg script to assign each device a random number each quarter.

Labels reading plist

**Group assigned to beta Munki** catalogue

-	AWSCLI	Phase0, Phase1, Phase2, Phase3, Produc	
0	AWSCLI	Phase0, Phase1, Phase2, Phase3, Produc	
0	AWSCLI	Phase0, Phase1, Phase2, Phase3, Produc	
0	AWSCLI	Phase0, Phase1, Phase2, Phase3, Produc	
0	AWSCLI	Phase0, Phase1, Phase2, Phase3	
0	AWSCLI	Phase0, Phase1, Phase2	
0	AWSCLI	Phase0, Phase1, Phase2	

Packages in Munki Admin showing multiple phases

## What We've Learned

#### What Went Well

- Communications Partnership
- Lots of engagement (at first)
- Very active beta testers
- Disasters few and far between



#### **Could Be Better**

- Continuing engagement
- More iOS devs in the testing pool
- Confusion among support staff
- Managed Apple Account federation



#### **Acknowledgements**

None of this would be possible without the Mac Admins Slack!

Please consider contributing to the MAF: https://www.macadmins.org/donate https://trade.phobio.com/macadmins https://cottonbureau.com/people/mac-admins-foundation

#### **TEAM**

Rebecca Latimer Adam Anklewicz

#### **CONTACT INFO**

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#### **RESOURCES**

https://github.com/internal-thumbtack/BetaBuddiesResources