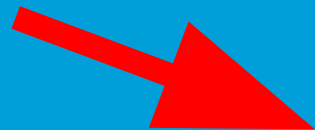




# Beta Buddies

Testing with Friends

[github.com/internal-thumbtack/PSUMacAdmins2023](https://github.com/internal-thumbtack/PSUMacAdmins2023)





# Us

Rebecca Latimer  
IT Endpoint Engineer II  
she/her

 @rebelati



# Us

Adam Ankiewicz  
Lead IT Endpoint Engineer  
he/him/his



@aankiewicz





# Audience participation



Why?

# Only IT Testing



Our Goals

# **5% of Mac users All Departments Feedback**



Getting Volunteers

**Teaming up with comms.**  
**Communicate to staff.**  
**Rewards!**



# Feedback mechanisms





# Our original plan



Our original plan

# seedutil Munki



# seedutil

Using the seedutil tool to gather the currently enrolled program the device is currently enrolled in. That data is then stored in a plist along with the enrollment date.

```
aanklewicz@aanklewicz-mac ~ % sudo /System/Library/PrivateFrameworks/Seeding.framework/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: YES
CatalogURL: https://swscan.apple.com/content/catalogs/others/index-13customerseed-13-12-10.16-10.15-10.14-10.13-10.12-10.11-10.10-10.9-mountainlion-lion-snowleopard-leopard.merged-1.sucatalog.gz
Asset Server URL: https://swscan.apple.com/content/catalogs/others/index-13customerseed-13-12-10.16-10.15-10.14-10.13-10.12-10.11-10.10-10.9-mountainlion-lion-snowleopard-leopard.merged-1.sucatalog.gz/
NSShowFeedbackMenu: YES
DisableSeedOptOut: NO
Asset Audience: 3c45c074-41be-4b5b-a511-8592336e6783
aanklewicz@aanklewicz-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.



Elmo





# Our new plan



Our new plan

# Munki

## Do it by hand?



# Munki

## Self-service portal



```
joinbetaprogram.plist

39 #
40 #<string>#!/bin/zsh
41
42 # This script was created by Adam Ankiewicz at Thumbtack on Thursday February 16, 2023
43 # Will check to see if the computer is enrolled in the beta program.
44 # For the Internal Tools' Endpoint Team
45 # Version 1.0 - 2023-02-16
46 # Version 1.1 - 2023-05-09 Remove any seedutil dependencies
47
48 current=$(date +%Y-%m-%d %H:%M:%S %z)
49
50 if [ -f /Library/Preferences/com.thumbtack.betaprogram.plist ]; then
51     currentState=$(/usr/bin/defaults read /Library/Preferences/com.thumbtack.betaprogram Program)
52     if [ $currentState = "CustomerSeed" ]; then
53         echo "Device is enrolled in CustomerSeed."
54         exit 1
55     elif [ $currentState = "Production" ]; then
56         echo "Device is enrolled in Production"
57         echo "Device was enrolled on" $(/usr/bin/defaults read /Library/Preferences/com.thumbtack.betaprogram DateAdded)
58         exit 0
59     fi
60 else
61     /usr/bin/defaults write /Library/Preferences/com.thumbtack.betaprogram Program "Production"
62     /usr/bin/defaults write /Library/Preferences/com.thumbtack.betaprogram DateAdded -date "$current"
63     echo "Device is enrolled in Production."
64     exit 0
65 fi</string>
66 <key>installer_type</key>
67 <string>mopgh</string>
68 <key>minimum_os_version</key>
69 <string>10.4.0</string>
70 <key>name</key>
71 <string>joinbetaprogram</string>
72 <key>postinstall_script</key>
73 <string>#!/bin/zsh
74
75 # This script was created by Adam Ankiewicz at Thumbtack on Wednesday February 15, 2023
76 # This script will create a file and store the computer's status in the beta program.
77 # For the Internal Tools' Endpoint Team
```

pkginfo file for enrolling in the beta program, actual file can be found at link in QR code.



## Extension Attributes & Smart Groups

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

Computers : Smart Computer Groups

← Beta Program

Computer Group Criteria Reports ☐ Show

AND/OR	CRITERIA	OPERATOR	VALUE
	Last Check-in	less than x days ago	14
and	Operating System Version	greater than or equal	12.0.1
and	CurrentBetaStatus	is	CustomerSeed

Smart Criteria in Jamf



# Manual enrollment into CustomerSeed

Hooray for Managed AppleIDs!



## 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 ID
- ☒ Use managed Apps and Books



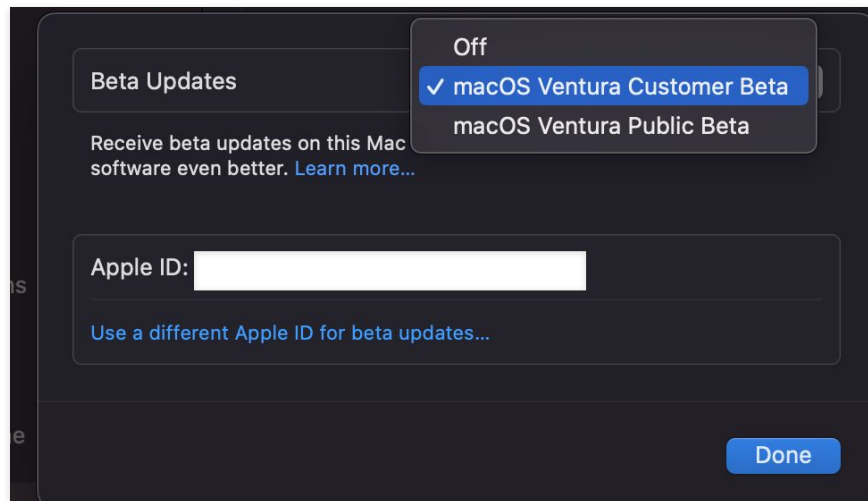
**~~appleseed.apple.com~~**  
**beta.apple.com/it**





# Manual enrollment into CustomerSeed

Let's go Managed AppleIDs!



*Accessing beta updates*



# Disaster Plan



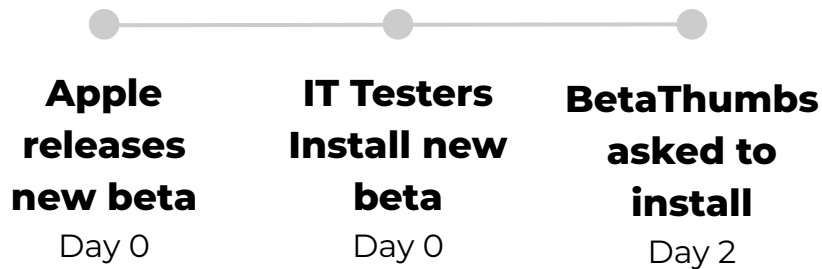
# Test machines



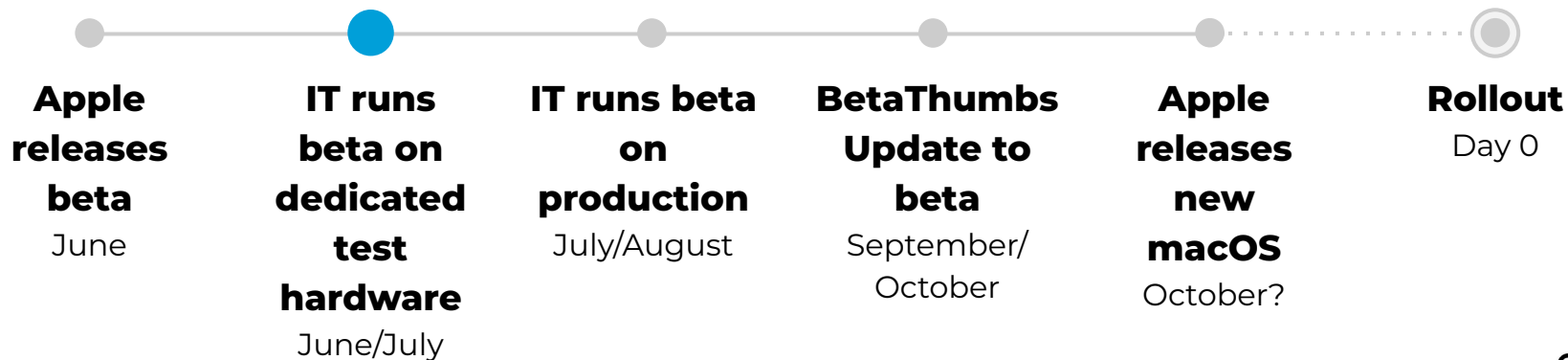
# Scheduling



# Minor releases



# Major releases





# 3rd Party Apps



3rd Party Apps

# Munki

## Stagger

### releases with

### Smart Groups



# Stagger

Extension attribute to assign each device a random number each quarter.

Smart groups utilizing that EA Group assigned to beta Munki catalogue

Computers : Smart Computer Groups

← Rollout Phase 0

Computer Group Criteria Reports ☐ Show in Jamf Pro Dashboard

or		Username	is		
or		Username	is		
or		Username	is		
or		Username	is	CustomerSeed	
or		Username	is		
or		Username	is		
or		Username	is	username	
or		CurrentBetaStatus	is	CustomerSeed	
and		Last Check-in	less than x days ago	15	

History View Clone Delete Edit

Rollout Phase 0, all IT users and CustomerSeed



# Stagger

**Extension attribute to assign each device a random number each quarter.**

Smart groups utilizing that EA  
Group assigned to beta Munki  
catalogue

```
1 #!/bin/zsh
2
3 ## =====
4 ## Created 2023 03 21
5 ## By Adam Anklewicz for Thumbtack Inc. endpoint team
6 ## aanklewicz@thumbtack.com
7 ## Updated 2023 05 09 - Auto enter the quarter
8 ## =====
9
10 #####
11 # Here are our variables.
12 #####
13
14 defaults="/usr/bin/defaults"
15 file="/Library/Preferences/com.thumbtack.randomnumber.plist" #
16 year=$(date +%Y)
17 month=$(date +%m)
18 quarter=$(( ($month - 1) / 3 + 1 ))
19 quarter="{year}_Q{quarter}"
20 randomNumber=$(jot -r 1 1 1000) # Sets the random number
21
```

Script available at [github.com/internal-thumbtack](https://github.com/internal-thumbtack)



# Stagger

Extension attribute to assign each device a random number each quarter.

## Smart groups utilizing that EA

Group assigned to beta Munki catalogue

Computers : Smart Computer Groups

← Rollout Phase 1

Computer Group

Criteria

Reports

☐ Show in Jamf Pro Dashboard

AND/OR		CRITERIA	OPERATOR	VALUE	
	▼	Random Number	less than ▼	50	▼
and ▼	▼	Last Check-in	less than x days ago ▼	14	▼
and ▼	▼	Random Number	more than ▼	0	▼
and ▼	▼	Computer Group	not member of ▼	Rollout Phase 0	▼

Rollout Phase 1, uses the Random Number EA



# Stagger

Extension attribute to assign each device a random number each quarter.

Smart groups utilizing that EA

**Group assigned to beta Munki catalogue**

Computers : Configuration Profiles

← Munki Phase 1

Options Scope ☐ Show in Jamf Pro Dashboard

Targets Limitations Exclusions

Target Computers  
Computers to assign the profile to

Specific Computers

Target Users  
Users to distribute the profile to

Specific Users

TARGET	TYPE
Rollout Phase 1	Smart Computer Group

Rollout Phase 1, uses the Random Number EA





## Stagger

Extension attribute to assign each device a random number each quarter.

Smart groups utilizing that EA

**Group assigned to beta Munki catalogue**

	AWSCLI	Phase0, Phase1, Phase2, Phase3, Produc
	AWSCLI	Phase0, Phase1, Phase2, Phase3, Produc
	AWSCLI	Phase0, Phase1, Phase2, Phase3, Produc
	AWSCLI	Phase0, Phase1, Phase2, Phase3, Produc
	AWSCLI	Phase0, Phase1, Phase2, Phase3
	AWSCLI	Phase0, Phase1, Phase2
	AWSCLI	Phase0, Phase1, Phase2

*Rollout Phase 1, uses the Random Number EA*



#### TEAM

Rebecca Latimer  
Adam Anklewicz

#### CONTACT INFO

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rlatimer@thumbtack.com

#### RESOURCES

[Github Repo](#)

[Goodbye seedutil, hello Apple IDs by Nathaniel Strauss](#)

[Enabling macOS betas with a Munki NoPkg by Kevin M. Cox](#)

