



David Ramirez

Senior Service Manager



Simplifying User Interaction

Presentation agenda:

What is the tool?

Why does it exist?

What can it do?

How does it work?

Where do I get it?

How do I set it up myself?



A Beginner's Tale - 2014

Mac Desktop Support

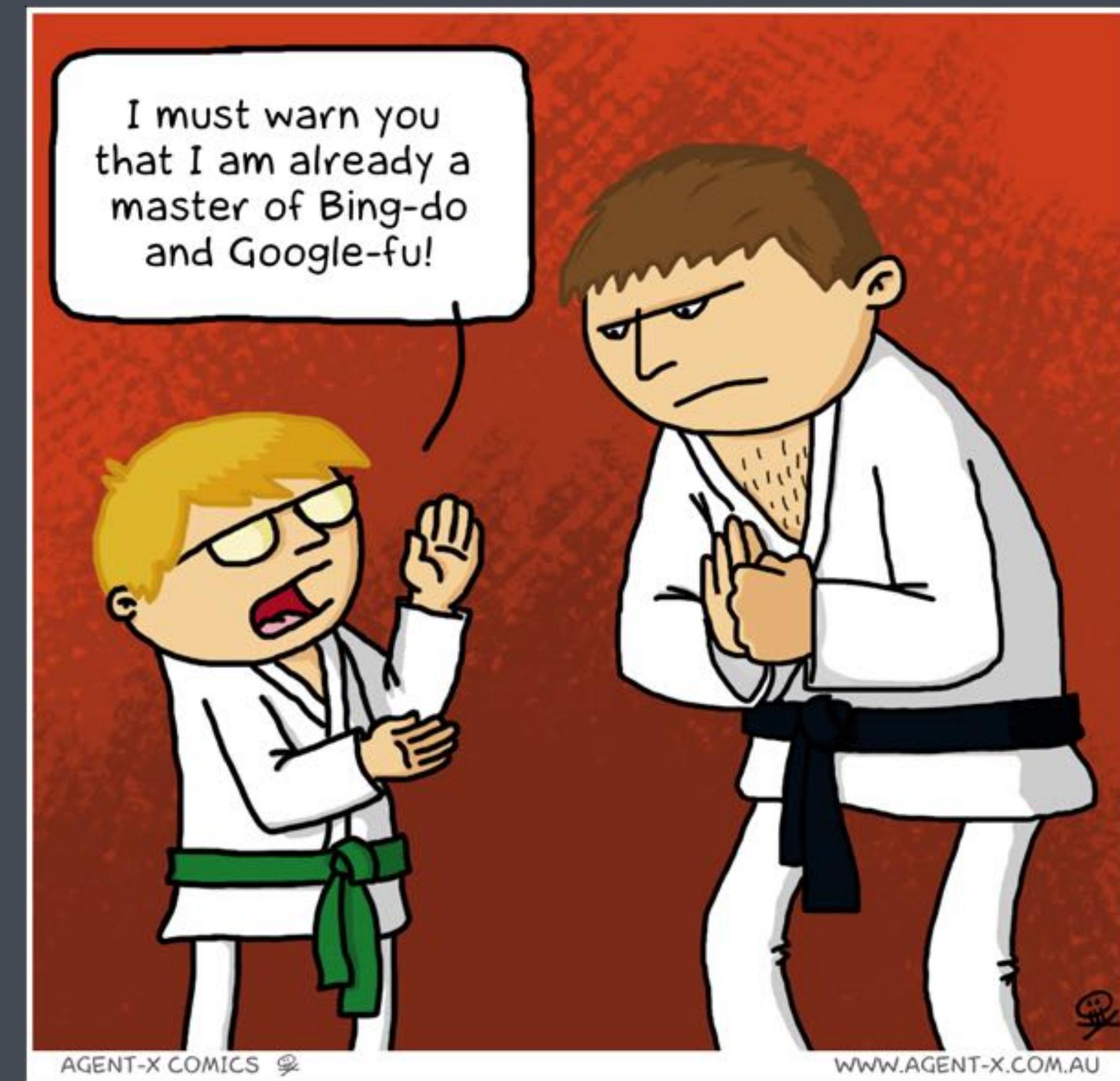
Only wrote small
scripts in AppleScript

Volunteered to co-
create the UEX toolkit



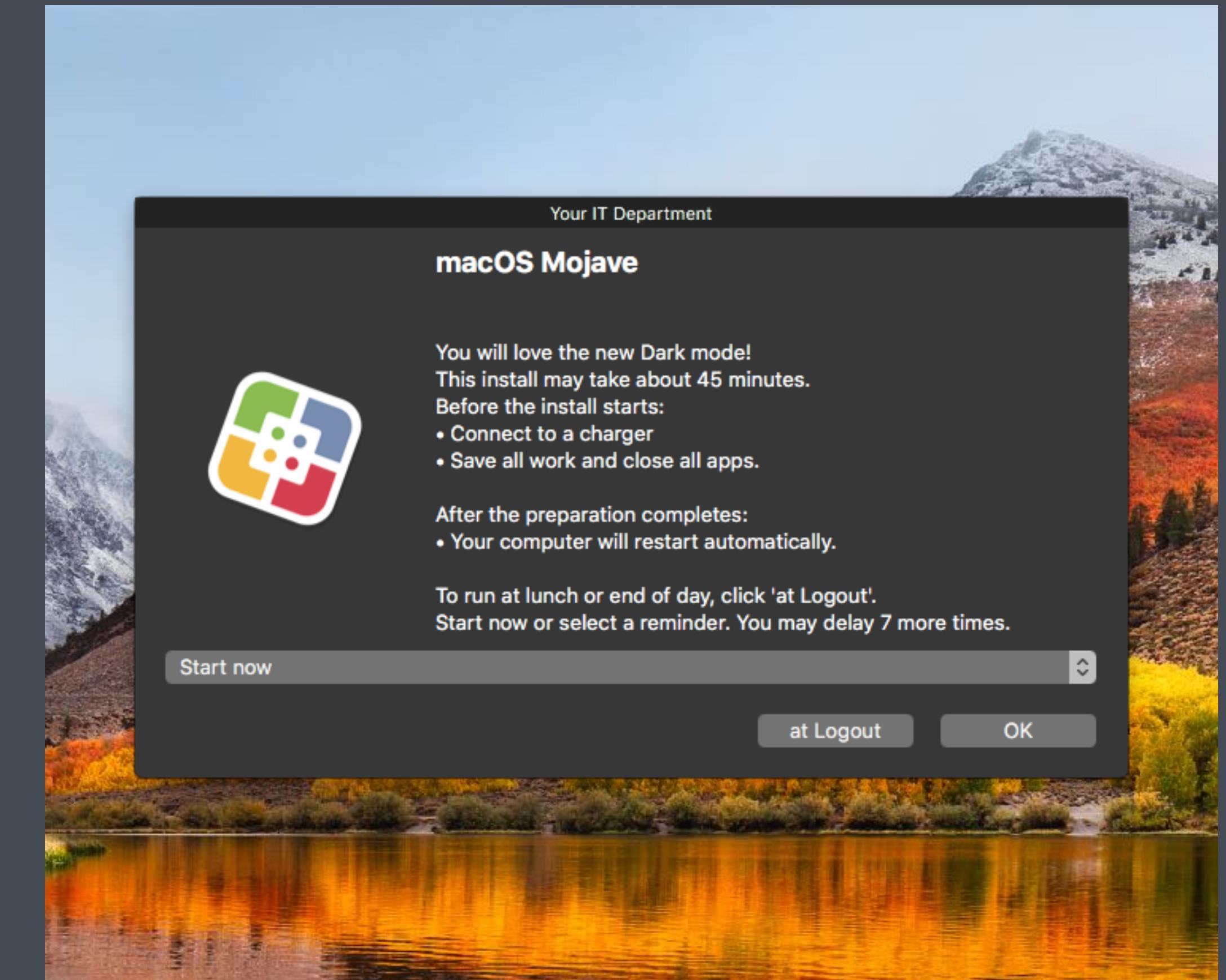
A Beginner's Tale - 2014

Mac Desktop Support
Only wrote small
scripts in AppleScript
Volunteered to co-
create the UEX toolkit
Strong Google-fu

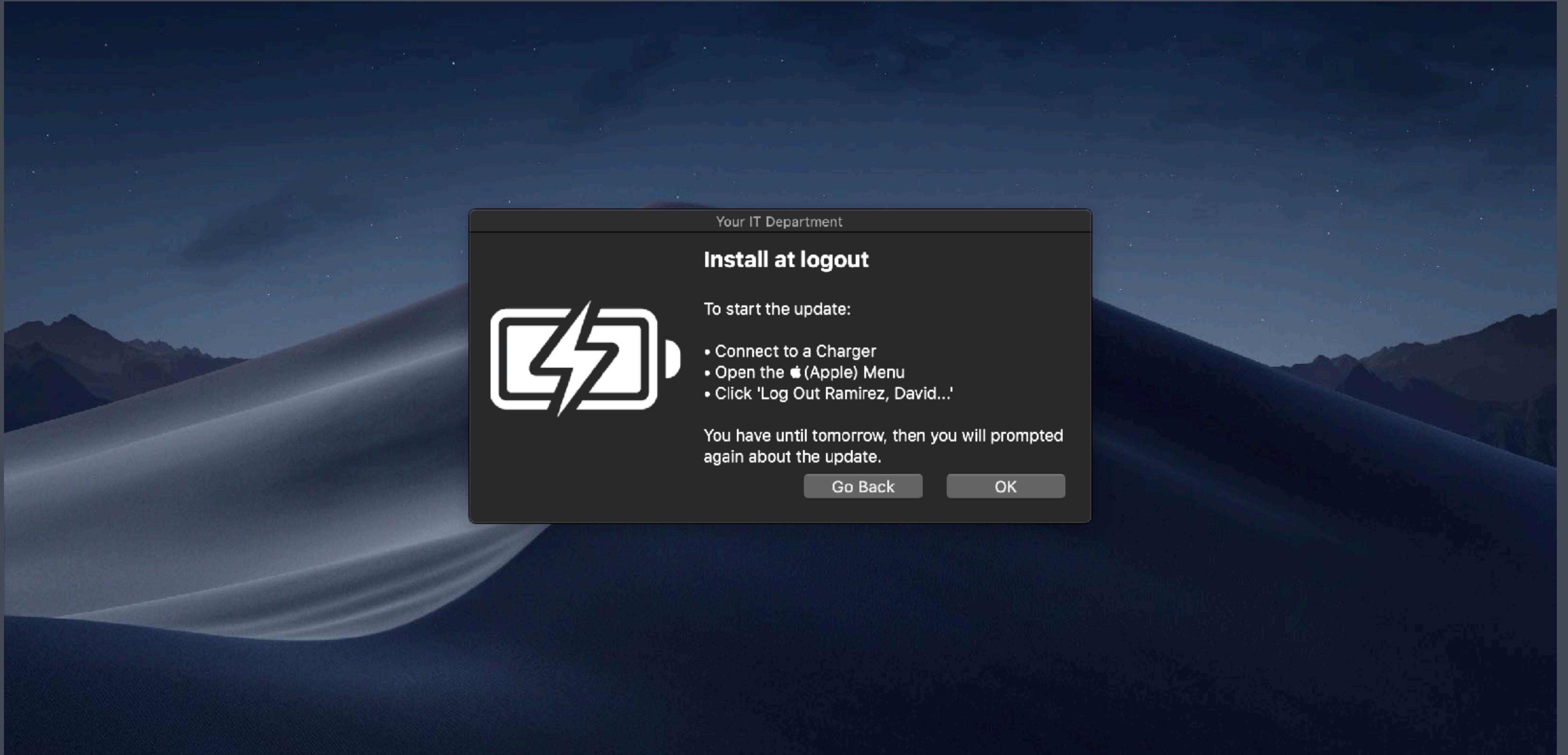


Jamf-Interaction-Toolkit

Standardized UEX
Toolkit to display
dialog and support
postponing running
policies.









Why does it exist?

Custom branding

Only when needed

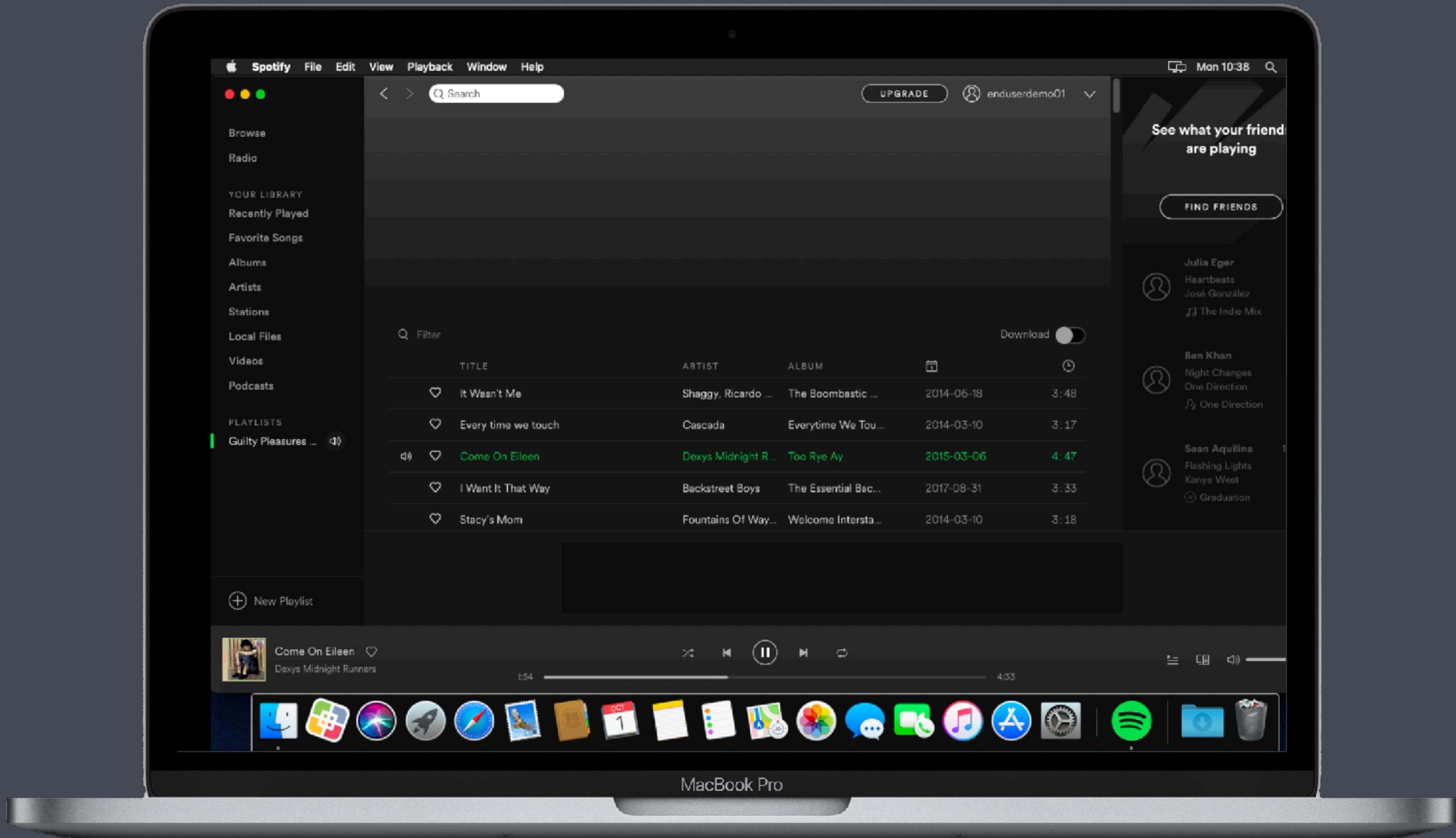
Built in delay function

Works well with jamf

Easy to comprehend

Easy to use and repeat





What can it do?

Primary functions

- QUIT
- BLOCK
- LOGOUT
- RESTART

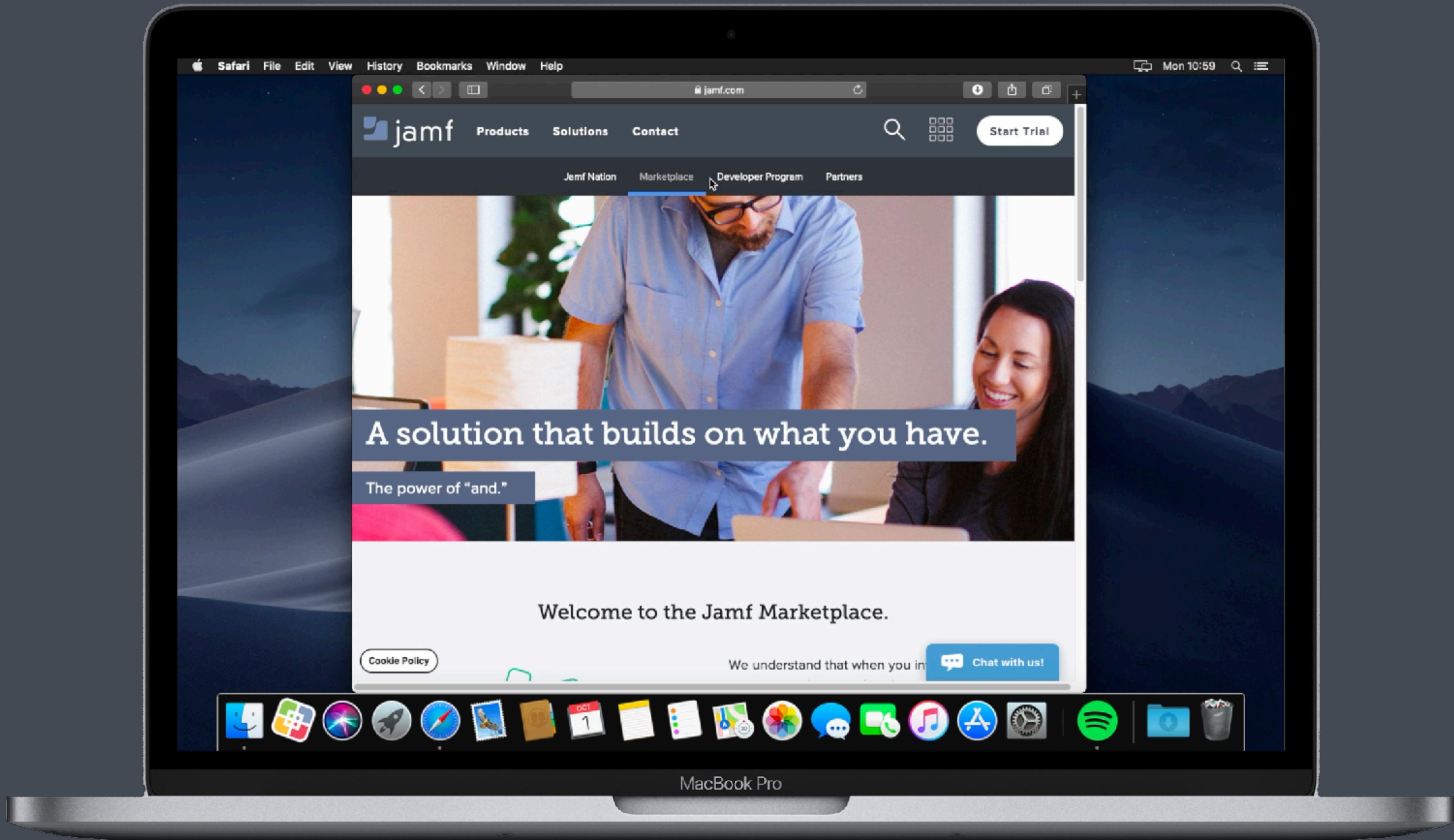


What can it do?

Built in delay support

- User chosen delay
- Inactivity delay
- Presentation delay

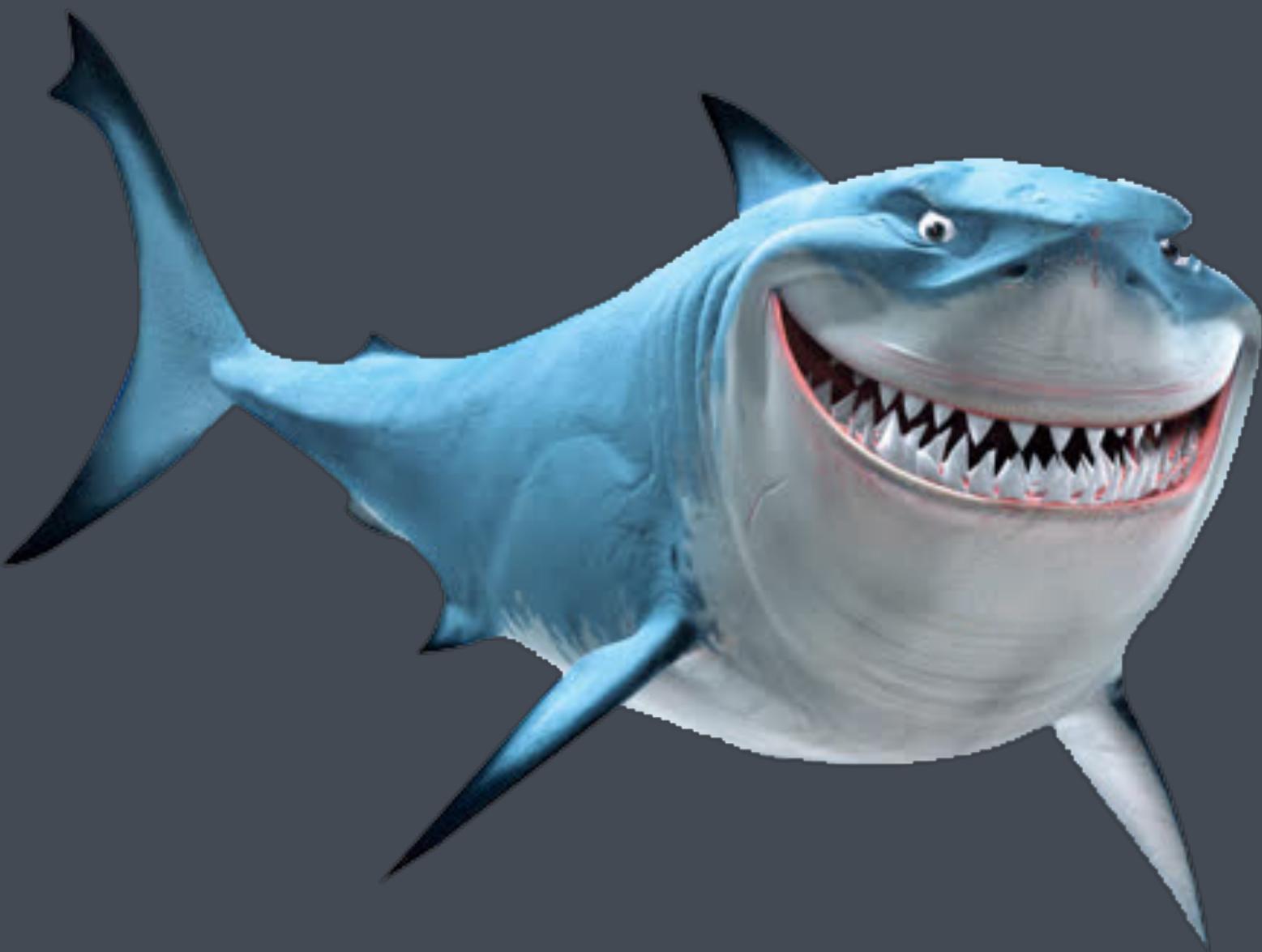




Parameters are friends

...“not food”

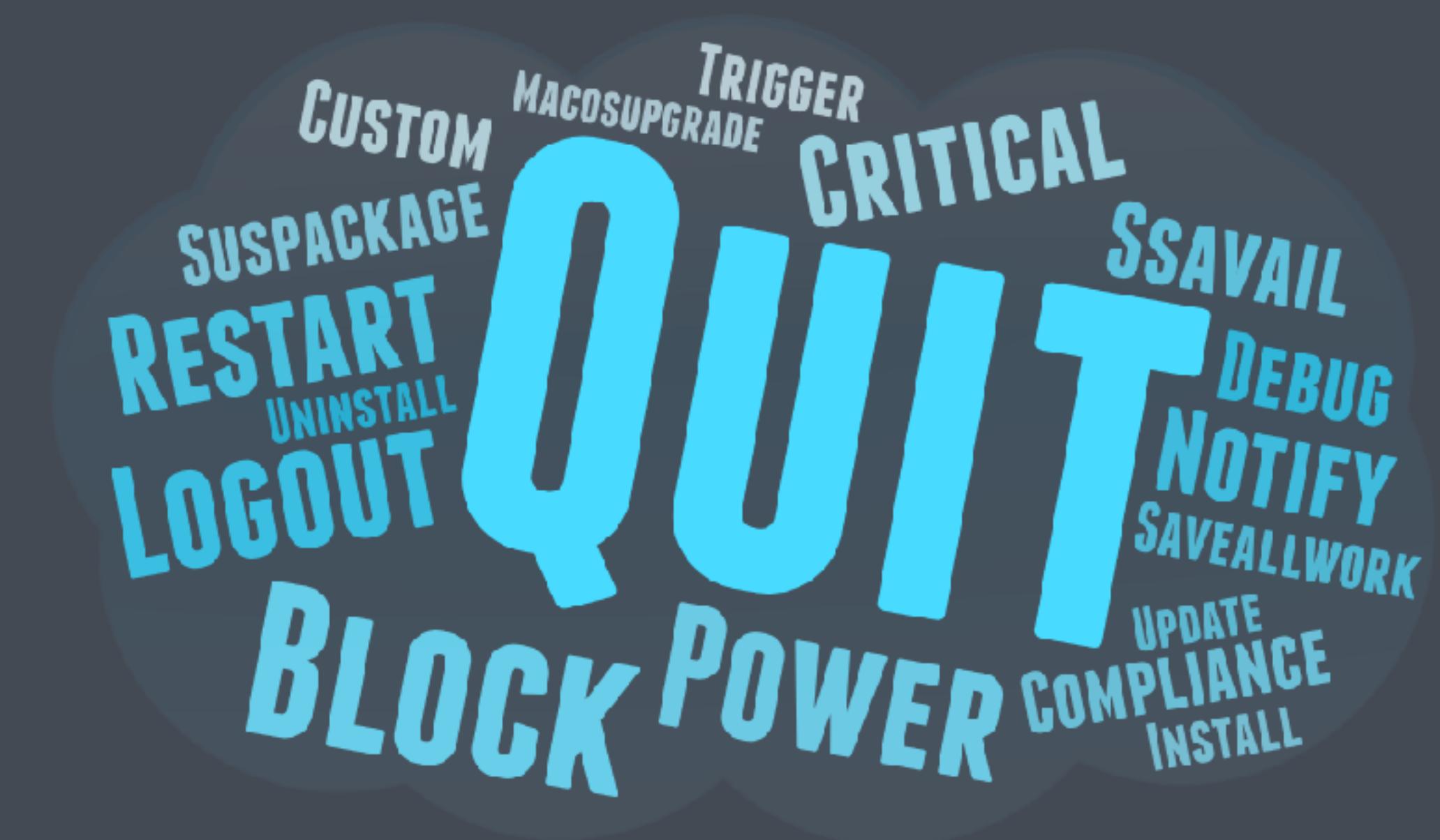
Script parameters in a
jamf policy are a
simple way to do more
using a single script
without making a new
script each time.



Parameters are friends

...“not food”

Script parameters in a jamf policy are a simple way to do more using a single script without making a new script each time.



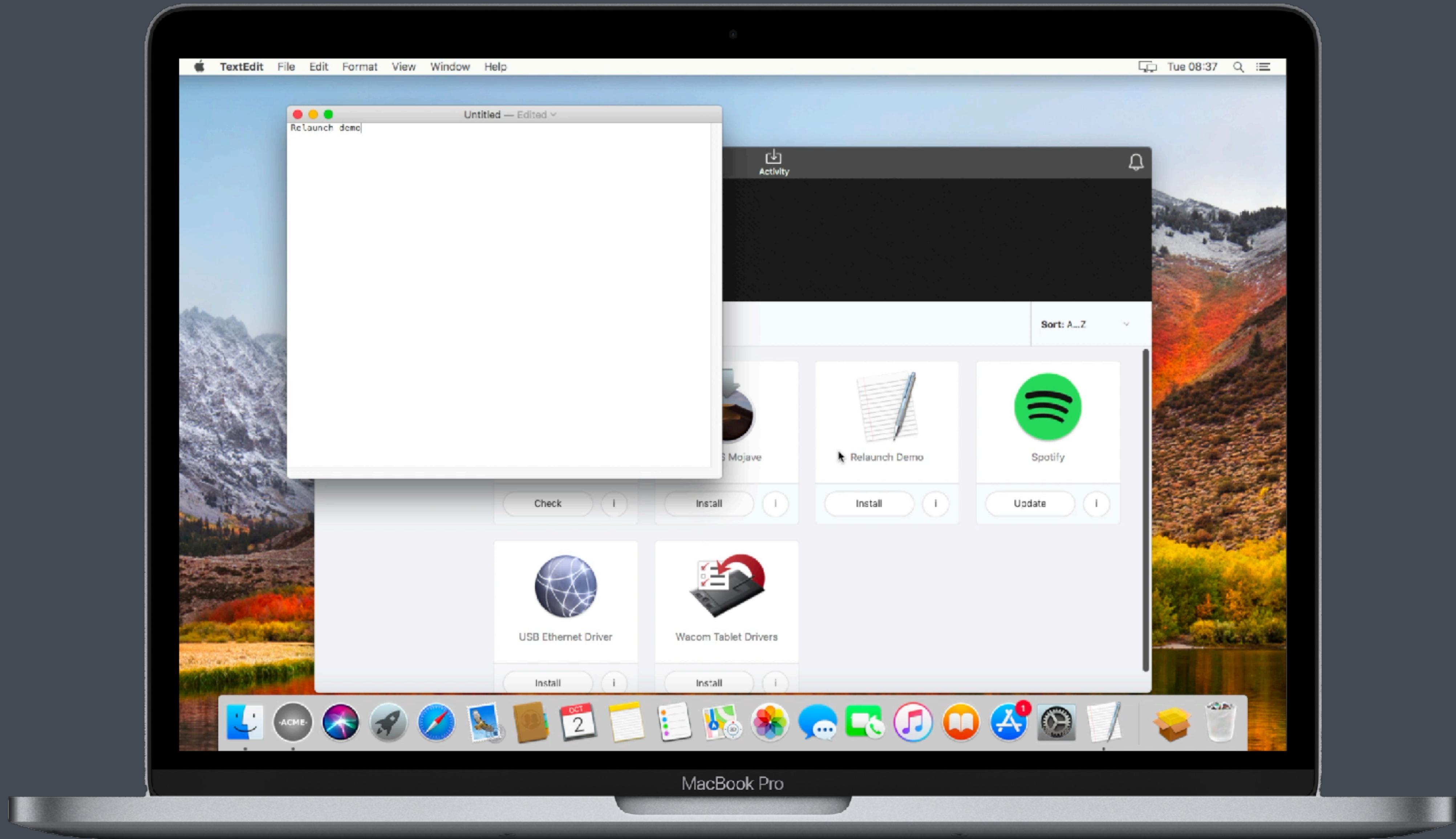
9

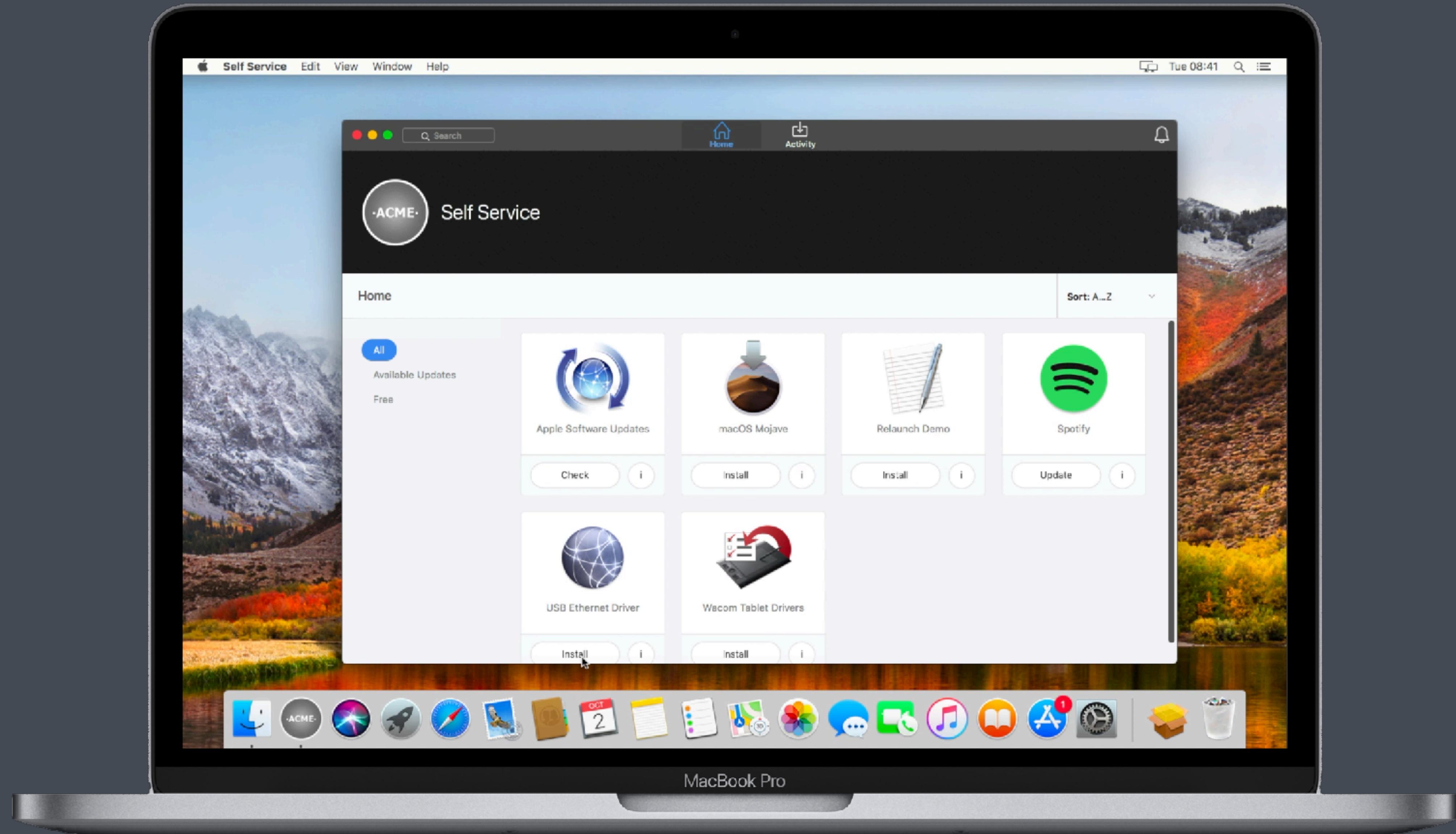
QUIT

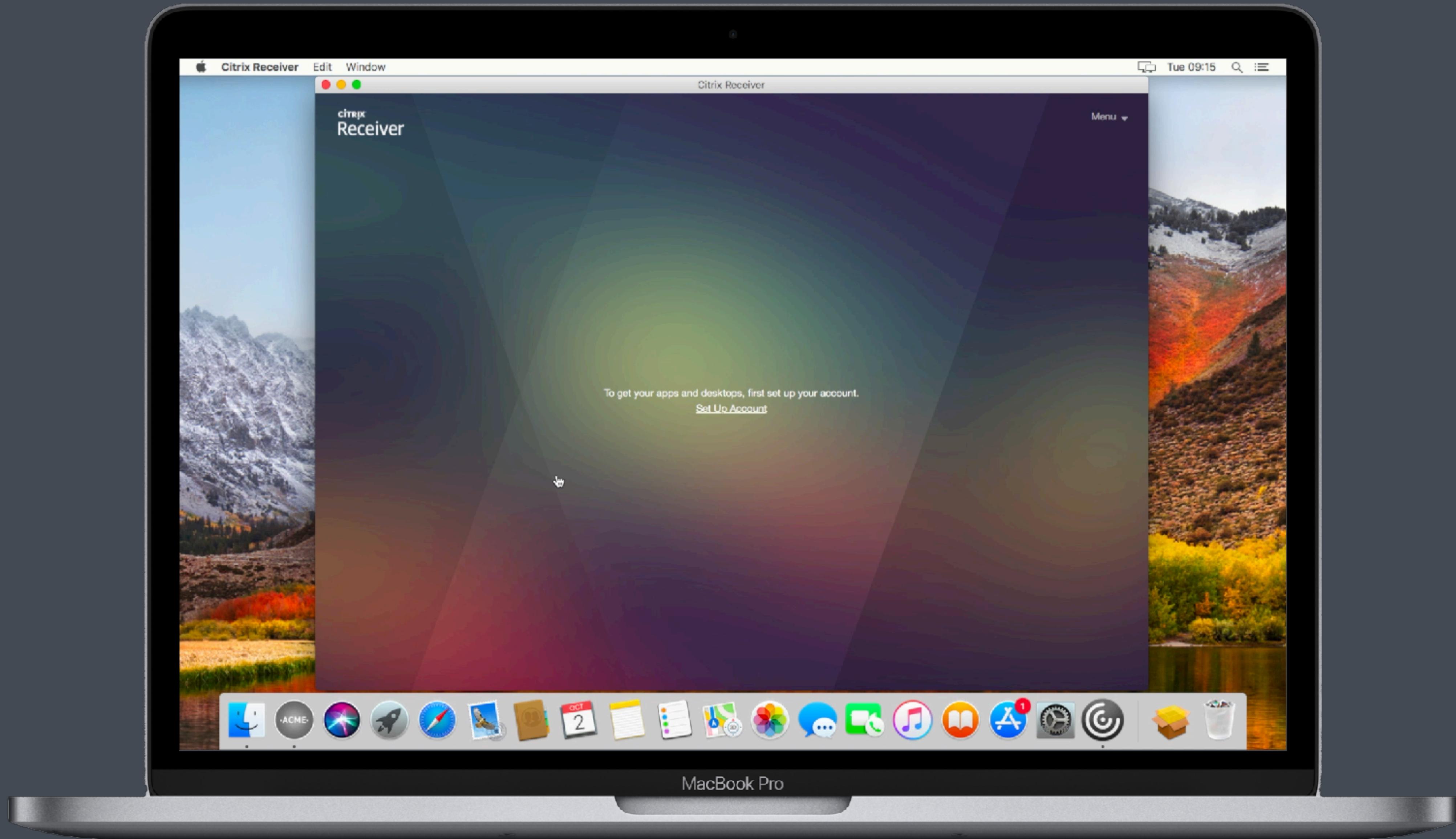
CUSTOM
SUSPACKAGE
RESTART
UNINSTALL
LOGOUT
BLOCK POWER

CRITICAL
SSAVAIL
DEBUG
NOTIFY
SAVEALLWORK
UPDATE
COMPLIANCE
INSTALL
TRIGGER
MACOSUPGRADE

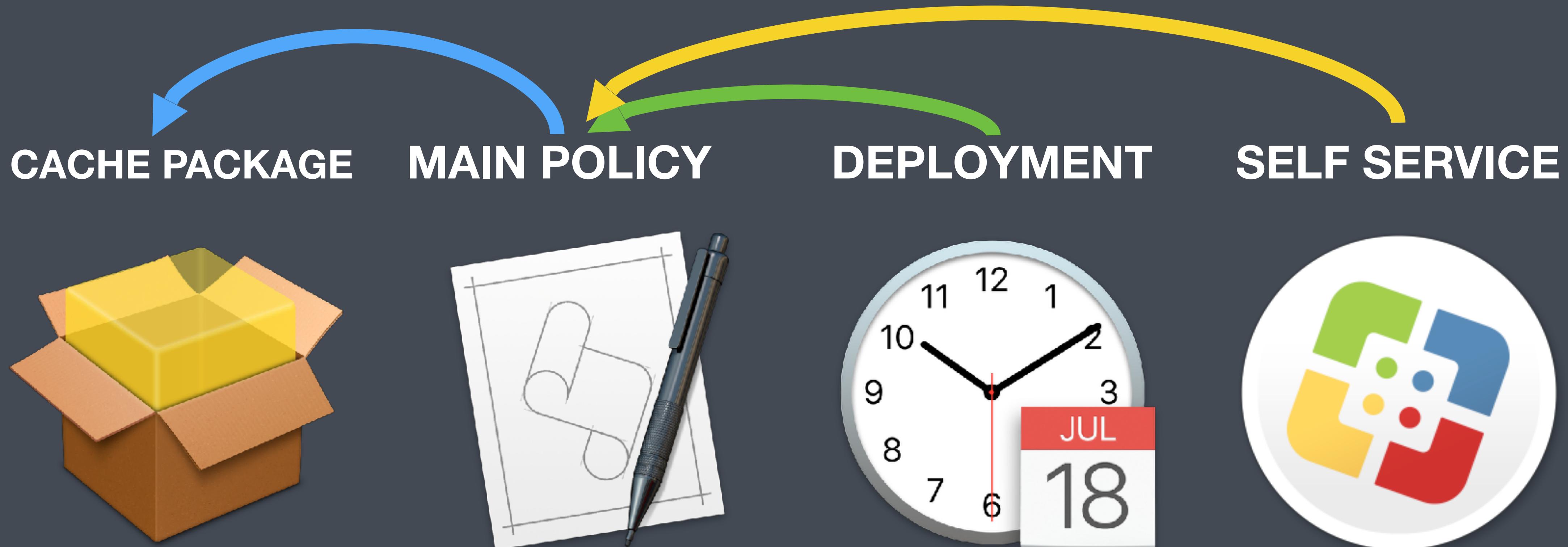








How it works



Computers > Policies >
Spotify-1.0.88.353 - UEX Trigger

Options Scope Self Service User Interaction Show in Jamf Pro Dashboard

Trigger Event(s) to use to initiate the policy

Startup When a computer starts up. A startup script that checks for policies must be configured in Jamf Pro for this to work

Login When a user logs in to a computer. A login hook that checks for policies must be configured in Jamf Pro for this to work

Logout When a user logs out of a computer. A logout hook that checks for policies must be configured in Jamf Pro for this to work

Network State Change When a computer's network state changes (e.g., when the network connection changes, when the computer name changes, when the IP address changes)

Enrollment Complete Immediately after a computer completes the enrollment process

Recurring Check-in At the recurring check-in frequency configured in Jamf Pro

Custom At a custom event

CUSTOM EVENT
Custom event to use to initiate the policy. For an iBeacon region change event, use "beaconStateChange"

spotify

EXECUTION FREQUENCY Frequency at which to run the policy

Ongoing ▾

Computers > Policies >
Spotify-1.0.88.353 - UEX Package Cache

Options Scope Self Service User Interaction Show in Jamf Pro Dashboard

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spotify_cache

EXECUTION FREQUENCY Frequency at which to run the policy

Ongoing ▾



The image displays two side-by-side screenshots of the Jamf Pro software interface, specifically focusing on policy creation for the Spotify application.

Left Screenshot: Spotify-1.0.88.353 - UEX Trigger

- Header:** Shows the Jamf Pro logo and "PRO".
- Breadcrumbs:** Computers > Policies > Spotify-1.0.88.353 - UEX Trigger.
- Actions:** Options, Scope, Self Service, User Interaction, Show in Jamf Pro Dashboard.
- Script Section:** Scripts (1 Script).
 - Script Name:** 00-UEX-Jamf-Interaction-no-grep.sh
 - PRIORITY:** After
 - Parameter Values:** VENDOR:APPNAME:VERSION;SPACEREQ (Spotify AB;Spotify;1.0.88.353)
 - Checks:** quit ssavall update
 - Apps for Quick and Block:** Spotify.app
- Bottom:** INSTALLDURATION - MUST BE INTEGER

Right Screenshot: Spotify-1.0.88.353 - UEX Package Cache

- Header:** Shows the Jamf Pro logo and "PRO".
- Breadcrumbs:** Computers > Policies > Spotify-1.0.88.353 - UEX Package Cache.
- Actions:** Options, Scope, Self Service, User Interaction, Show in Jamf Pro Dashboard.
- Packages Section:** Packages (1 Package).
 - Distribution Point:** Each computer's default distribution point
 - Package:** Spotify-1.0.88.353.pkg
 - Action:** Cache
 - Update Autorun data:** Add or remove the package from each computer's Autorun data



>

Vendor;AppName;Version;SpaceReq	Spotify;Spotify;1.0
Checks	quit ssavail
Apps for Quick and Block	Spotify.app
InstallDuration - Must be integer	1
maximum deferral - Must be integer	3
Packages separated by semi-colon	Spotify-1.0.88.353.pkg
Trigger Names separated by semi-colon	spotify
Custom Message - optional	



The image displays two side-by-side screenshots of the Jamf Pro software interface, specifically the 'Policies' section under 'Computers'.

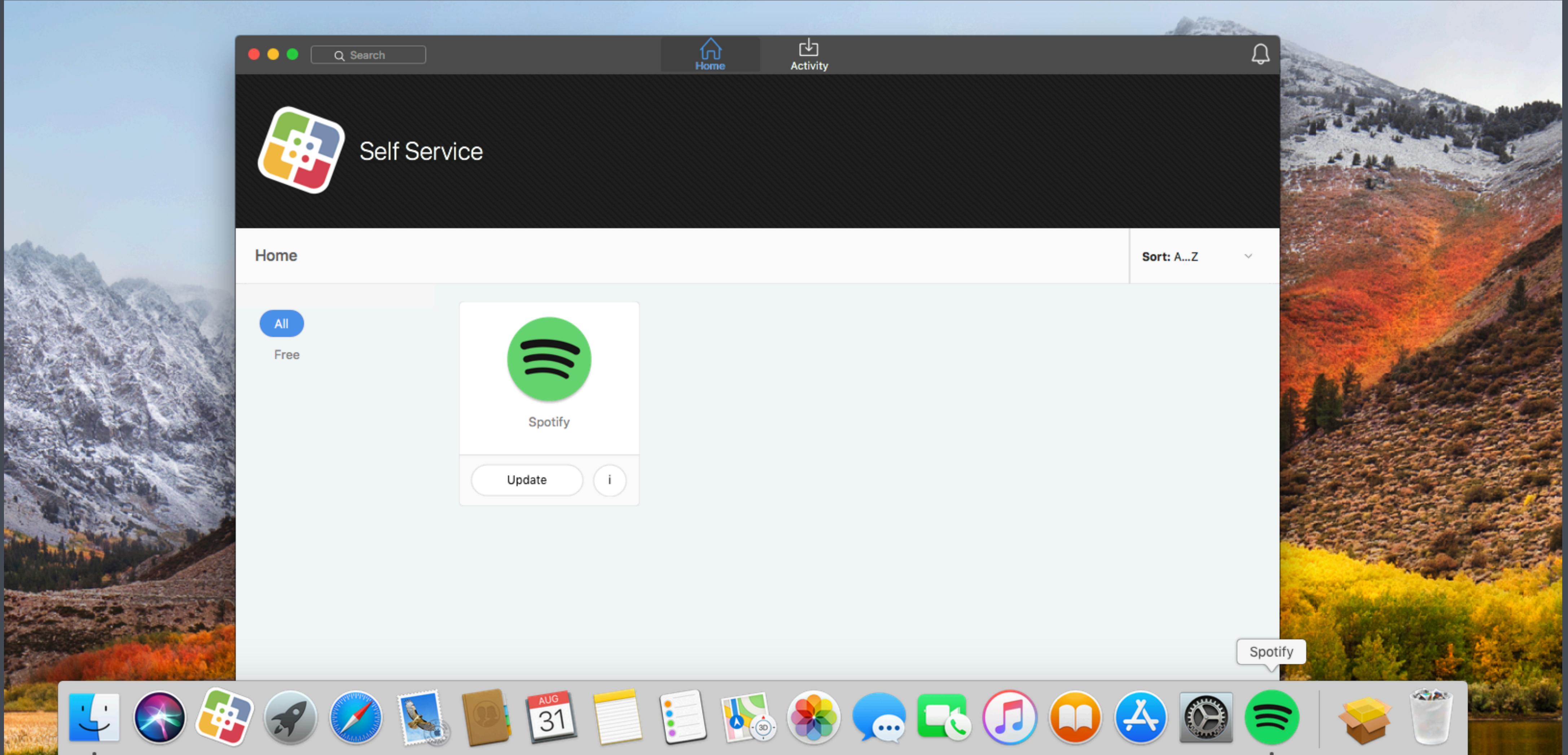
Screenshot 1 (Left):

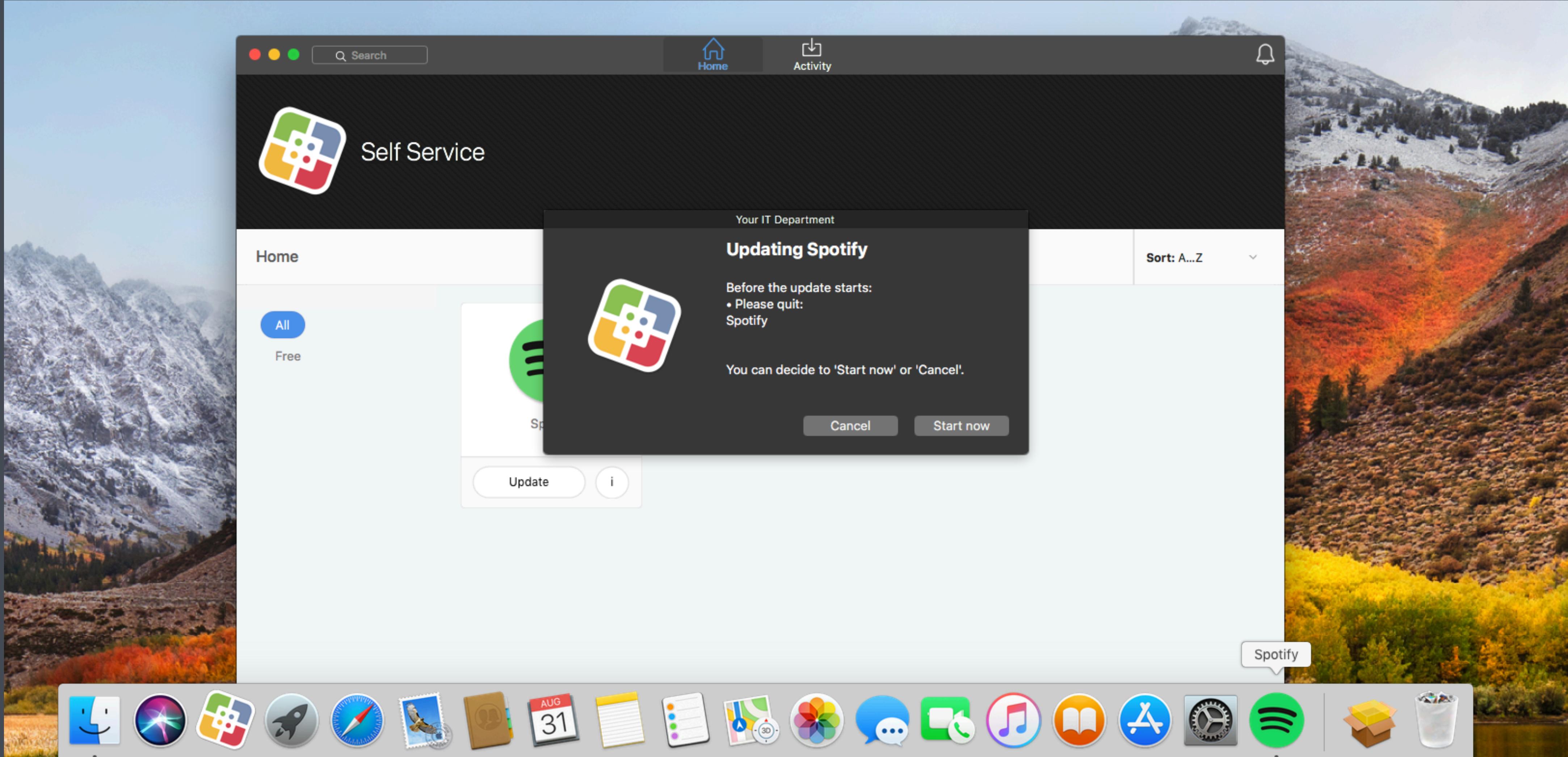
- Header:** Shows the Jamf Pro logo and 'PRO'.
- Breadcrumbs:** Computers > Policies > Spotify.
- Toolbar:** Options, Scope, Self Service, User Interaction, Show in Jamf Pro Dashboard.
- Section:** Scripts (1 Script). A link to '00-UEX-Update-via-Self-Service.sh' is shown.
- Script Details:**
 - Name:** 00-UEX-Update-via-Self-Service.sh
 - PRIORITY:** After (dropdown menu).
 - Parameter Values:** Values for script parameters. Parameters 1–3 are predefined as mount point, computer name, and username.
 - TRIGGER NAMES SEPARATED BY SEMI-COLON:** spotify
 - PARAMETER 5:** (Empty input field)

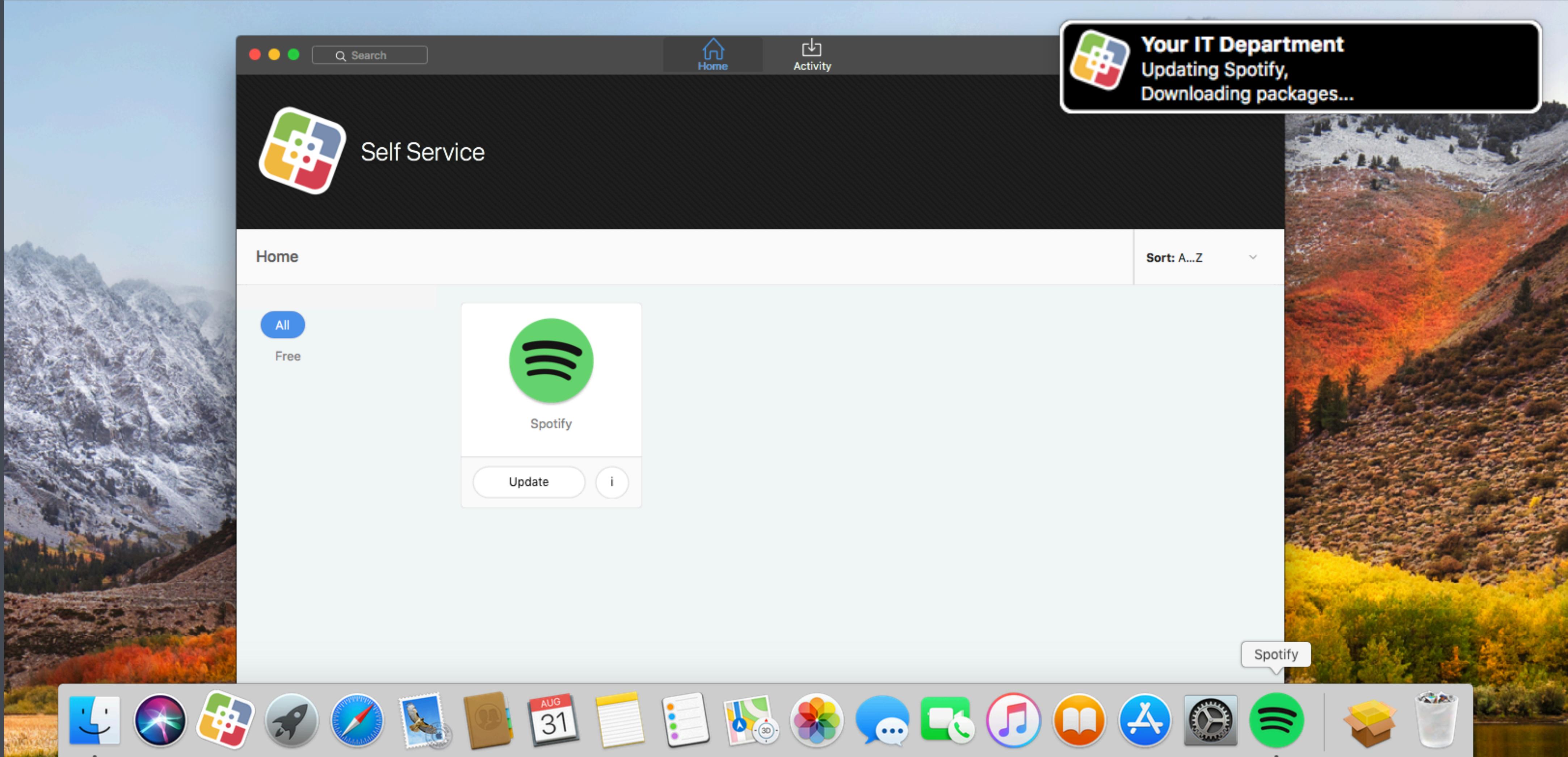
Screenshot 2 (Right):

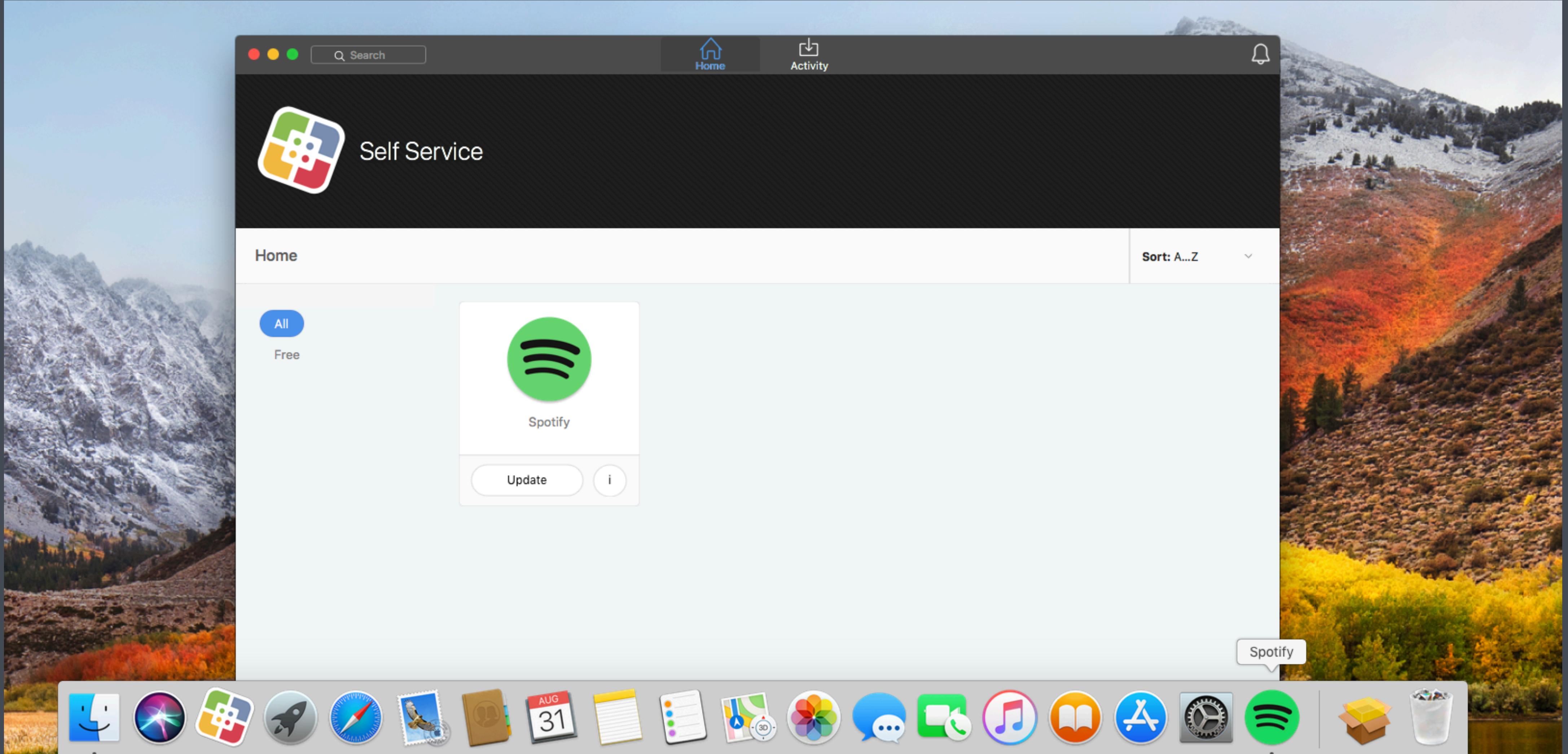
- Header:** Shows the Jamf Pro logo and 'PRO'.
- Breadcrumbs:** Computers > Policies > Spotify-1.0.88.353 - Deployment.
- Toolbar:** Options, Scope, Self Service, User Interaction, Show in Jamf Pro Dashboard.
- Section:** Scripts (1 Script). A link to '00-UEX-Deploy-via-Trigger.sh' is shown.
- Script Details:**
 - Name:** 00-UEX-Deploy-via-Trigger.sh
 - PRIORITY:** After (dropdown menu).
 - Parameter Values:** Values for script parameters. Parameters 1–3 are predefined as mount point, computer name, and username.
 - TRIGGER NAMES SEPARATED BY SEMI-COLON:** spotify
 - PARAMETER 5:** (Empty input field)















How the deferral works

- Extension attribute looks in the deferral folder and returns active if there are plists in there.
- Smart group collects all the active ones
- On every check-in, computers in the group run a policy to check if enough time has passed then trigger the UEX policy



jamfHelper

Pretty UI, simple
buttons, dialogs, &
countdowns.

/Library/Application
Support/JAMF/bin/
jamfHelper.app/Contents/
MacOS/jamfHelper –help



cocoaDialog - markcarver - mstratman

Create macOS dialogs
from the command line
easily!

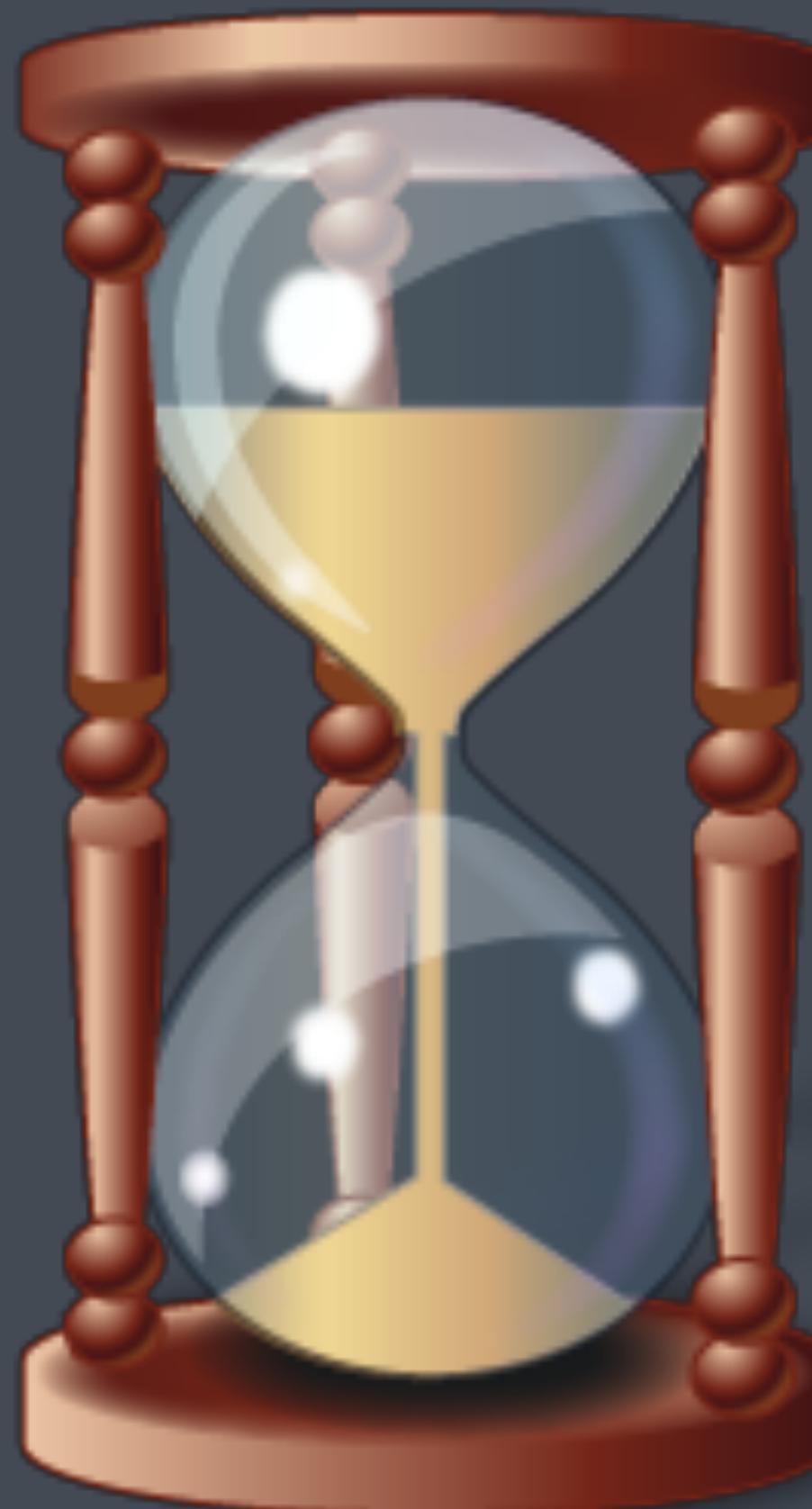
[https://
cocoadialog.com](https://cocoadialog.com)



Please Wait - macbrained

Clean loading bar that
can dynamically
change.

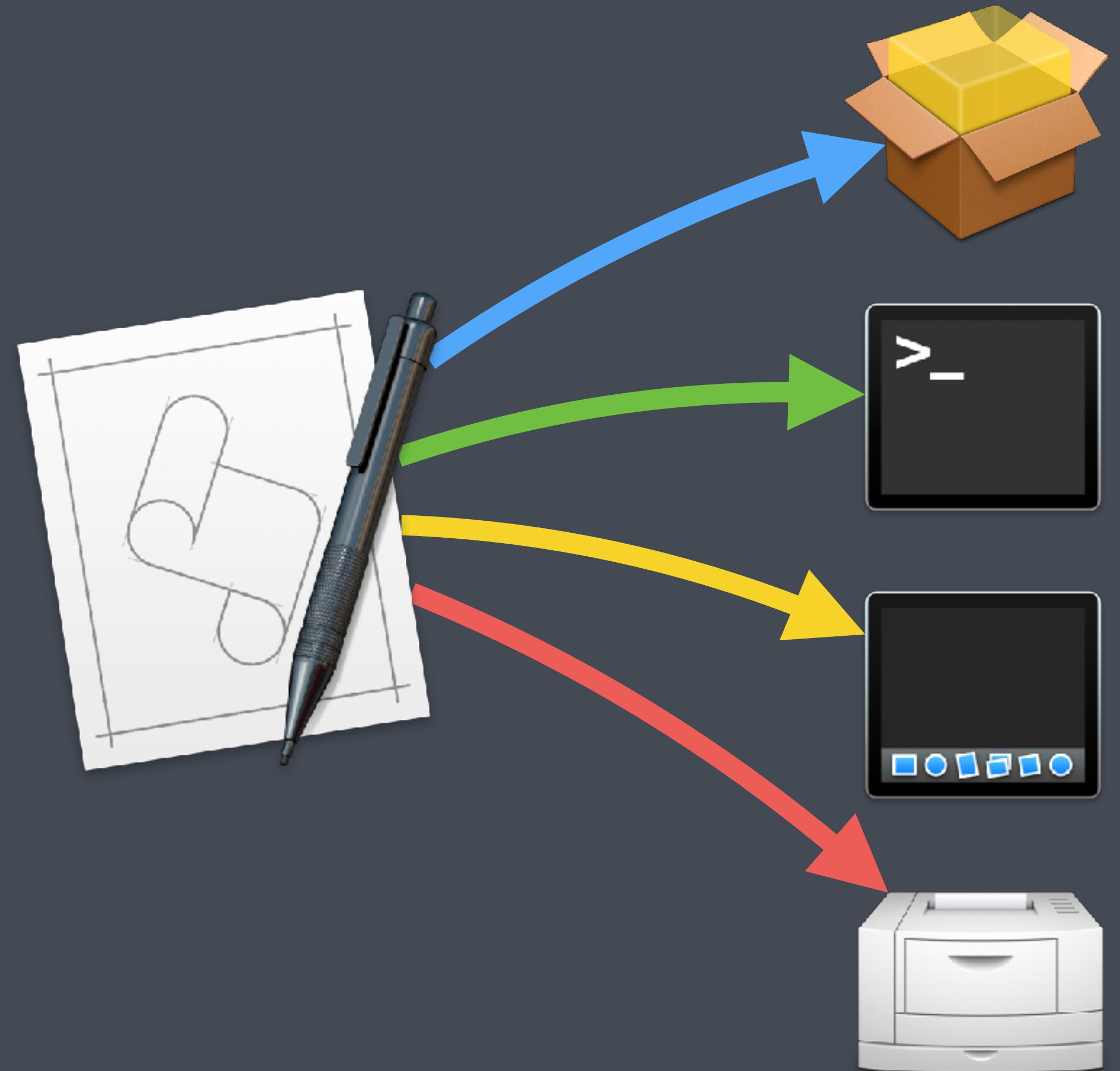
[https://github.com/
macbrained/User-
Interfaces](https://github.com/macbrained/User-Interfaces)



Helper Agent Policies

- PLEASEWAITUPDATER
- UEXDEFERRALSERVICE
- UEXBLOCKAGENT
- UEXLOGOUTAGENT
- UEXRESTARTAGENT
- UEX_INVENTORY_UPDATE_AGENT





General

PRIORITY Priority to use for running the script in relation to other actions
After

Parameter Values Values for script parameters. Parameters 1–3 are predefined as mount point, computer name, and username
VENDOR;APPNAME;VERSION;SPACEREQ
Apple;macOS Mojave;10.14

CHECKS
macosupgrade ssavail trigger saveallwork power

APPS FOR QUICK AND BLOCK

INSTALLDURATION - MUST BE INTEGER
90

MAXIMUM DEFERRAL - MUST BE INTEGER
7

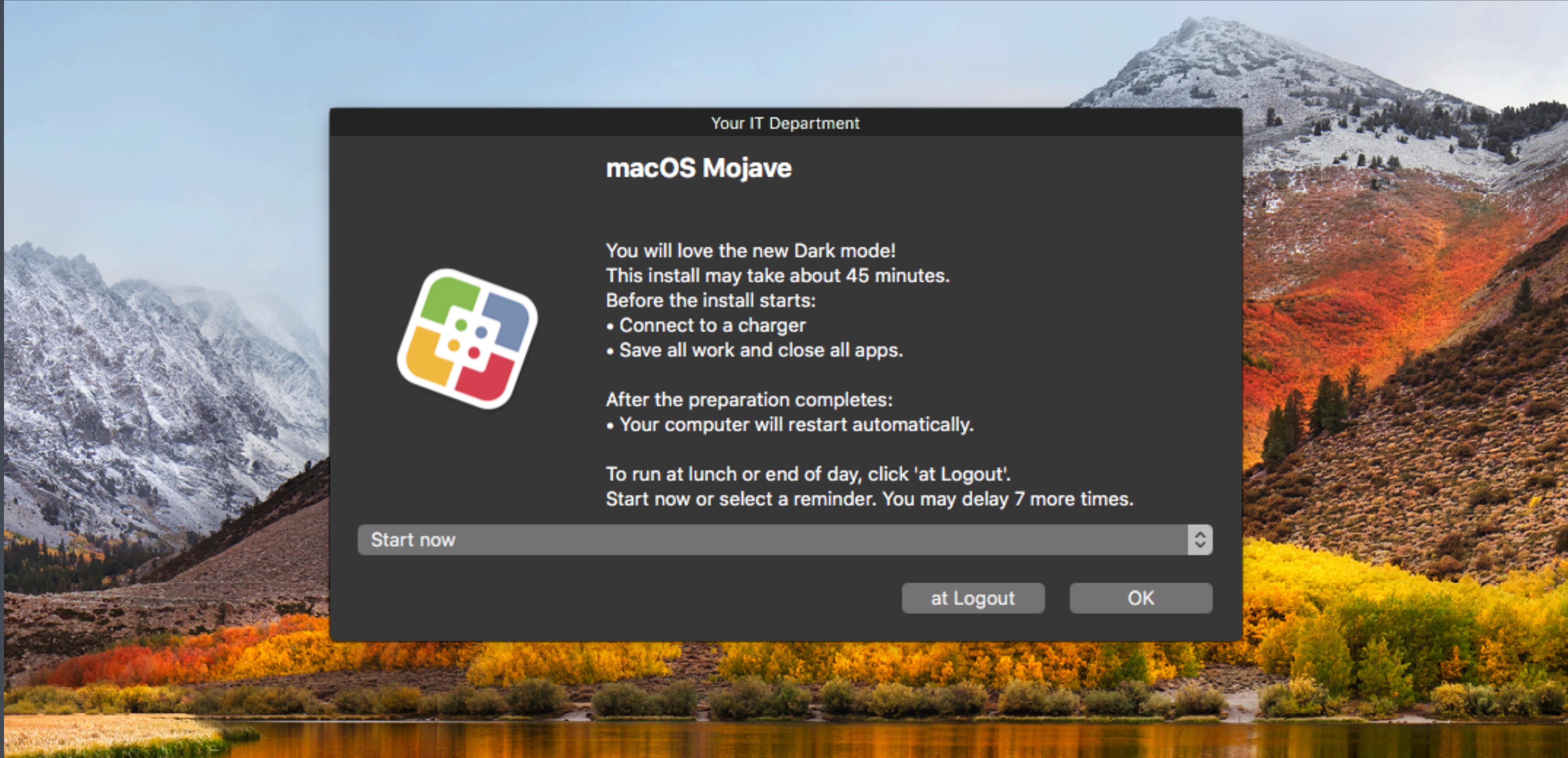
PACKAGES SEPARATED BY SEMI-COLON

TRIGGER NAMES SEPARATED BY SEMI-COLON
mojave;mojave_install

CUSTOM MESSAGE - OPTIONAL
You will love the new Dark mode!

Restart Options Script will restart the computer after it has run.





**Please wait as we prepare your computer for
macOS Mojave...**



This process will take approximately 5-10 minutes.
Once completed your computer will reboot and begin the upgrade.



Where do I get it?

[https://github.com/
cubandave/Jamf-
Interaction-Toolkit](https://github.com/cubandave/Jamf-Interaction-Toolkit)

#uex-tool-for-jamf on
Slack



How do I set it up myself?

Uploading Components

- 1 main script
- 6 helper scripts + 1 package with tools
- 1 extension attribute
- Run Setup tool



Updating Company Name

00-UEX-Jamf-
Interaction-no-grep

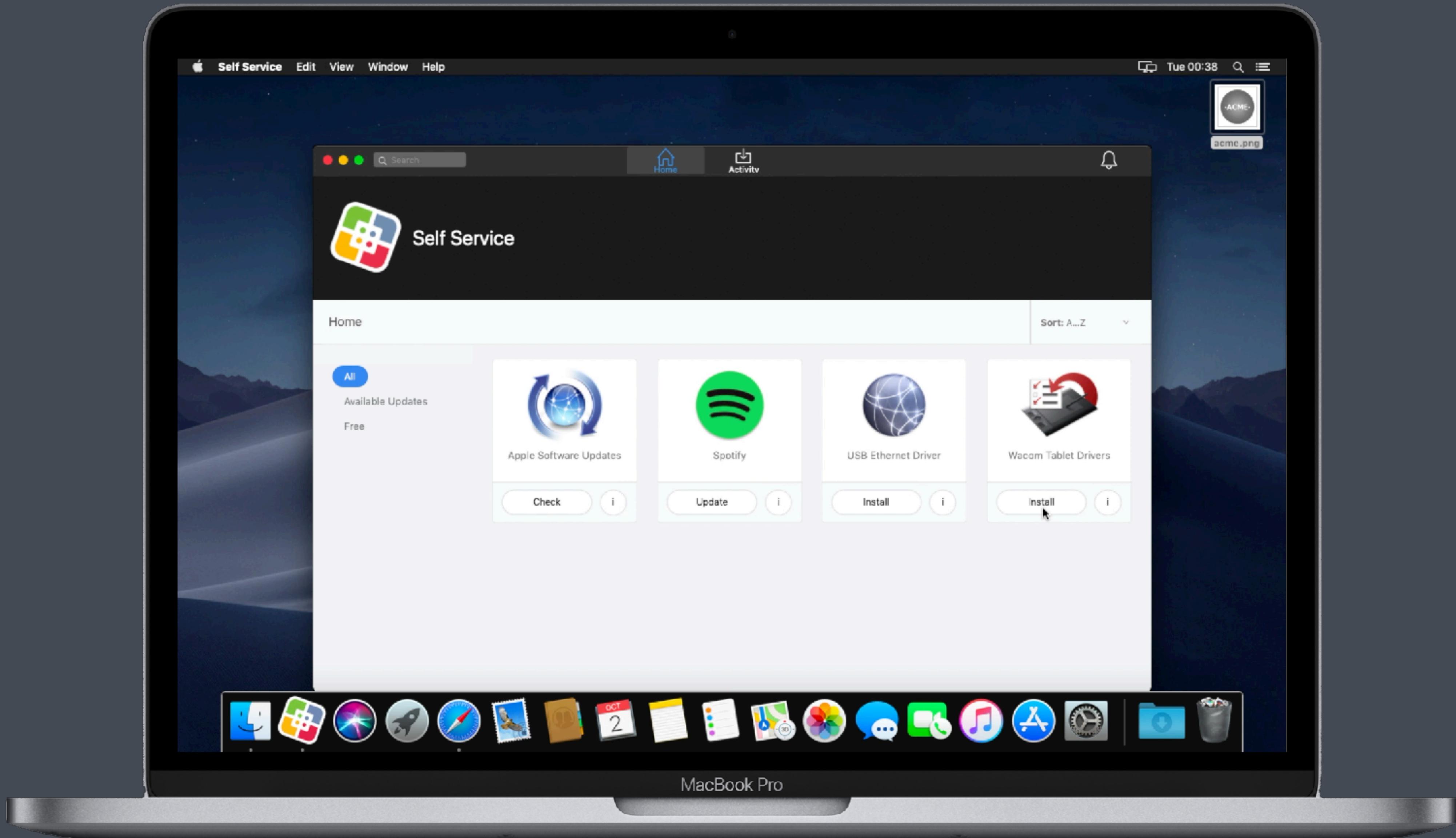
00-uexblockagent-jss

00-uexlogoutagent-jss

00-uexrestartagent-jss

```
1 #!/bin/sh
2 loggedInUser=`/bin/ls -l /dev/console | /usr/bin/awk '{ print $3 }' | grep -v root`
3
4 ##### Parameters for Branding #####
5 ## title="Your IT Department"
6
7
8 # Jamf Pro 10 icon if you want another custom one then please update it here.
9 # or you can customize this with an image you've included in UEX resources or is already local on the computer
10 customLogo="/Library/Application Support/JAMF/Jamf.app/Contents/Resources/AppIcon.icns"
11
12 # if you want to brand the image for your self service icon will be here
13 # or you can customize this with an image you've included in UEX resources or is already local on the computer
14 SelfServiceIcon="/Users/$loggedInUser/Library/Application Support/com.jamfsoftware.selfservice.mac/Documentation
15
16 ##### DO NOT MAKE ANY CHANGES BELOW #####
17
18
19
20 ## DO NOT MAKE ANY CHANGES BELOW #####
21
22
23 #
24 # User experience Post installation script to be bundled with PKG.
25 #
26 # Version Number: 3.8
27 uexvers=3.8
28 #
29 # Created Jan 18, 2016 by David Ramirez
30 #
31 # January 23rd, 2017 by
32 # DR = David Ramirez (David.Ramirez@adidas.com)
33 #
34 # Updated: Aug 27th, 2018 by
35 # DR = David Ramirez (David.Ramirez@adidas.com)
36 #
37 #
38 # Copyright (c) 2018 the adidas Group
39 # All rights reserved.
40
41 #####
```





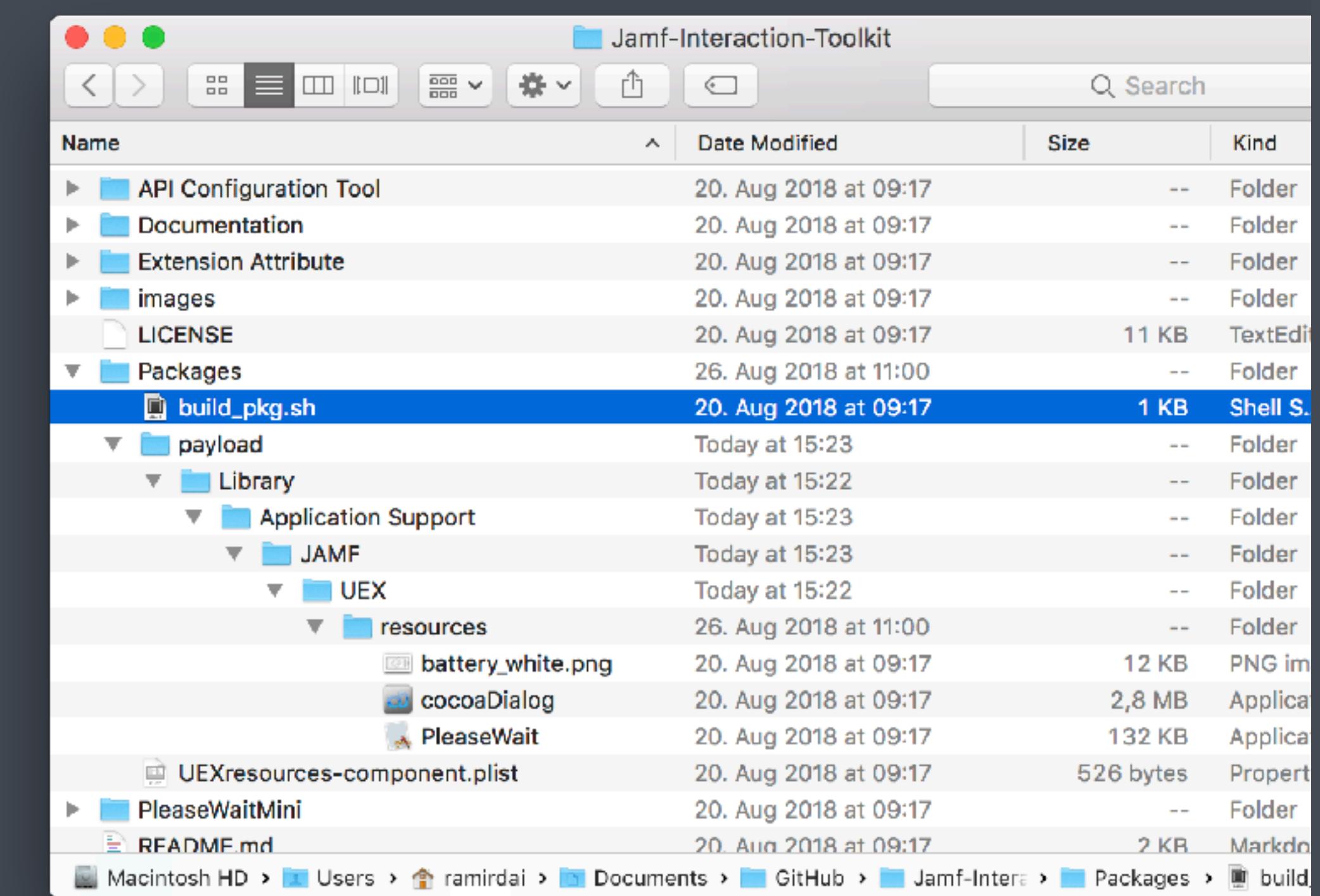
Custom icons with files

Add to the Payload
folder

Set the owner:group to
'root:wheel'

chown root:wheel filename

Set permissions to 755
chmod 755 filename

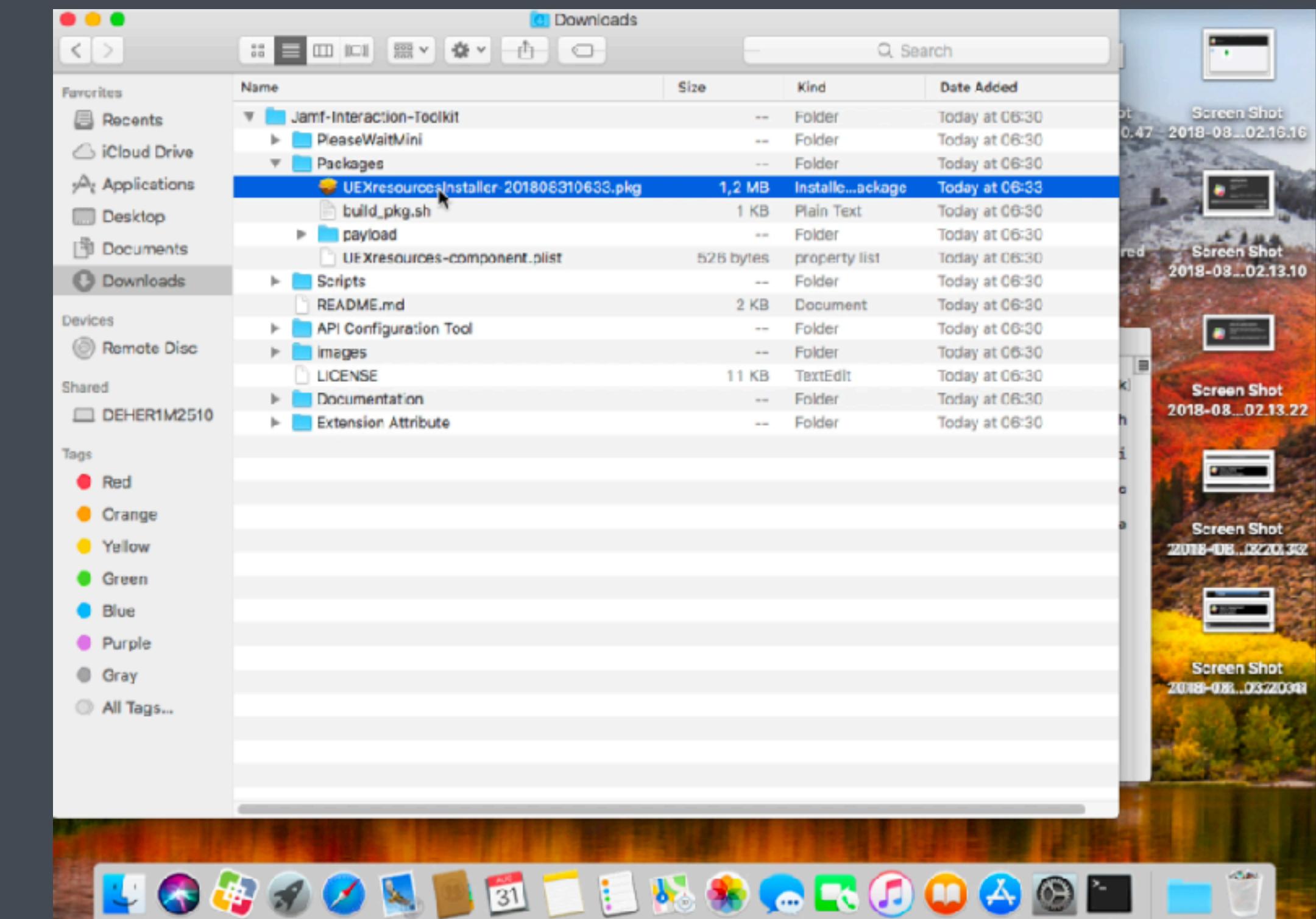


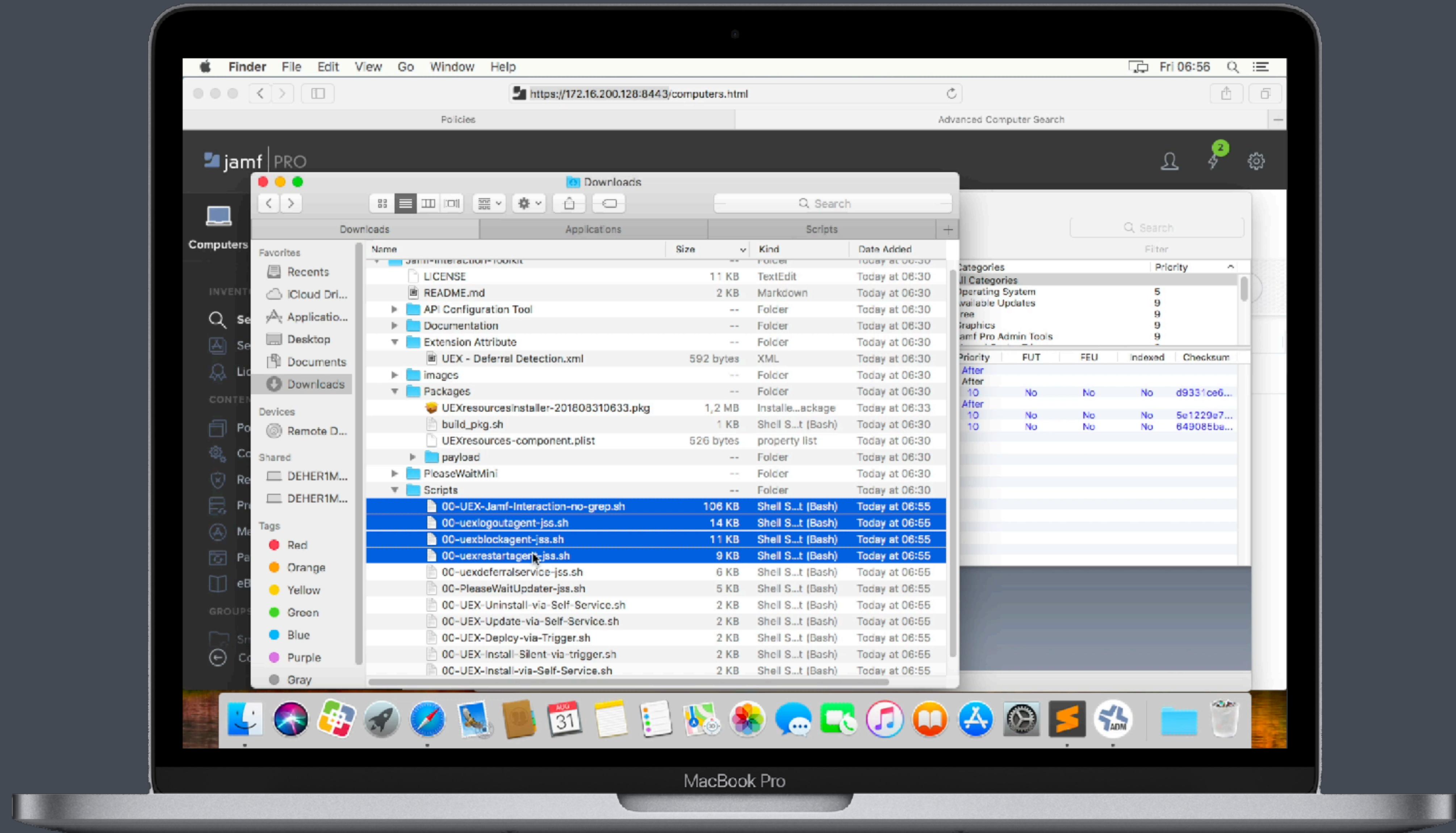
Building UEX Resources PKG

Run the build pkg
script

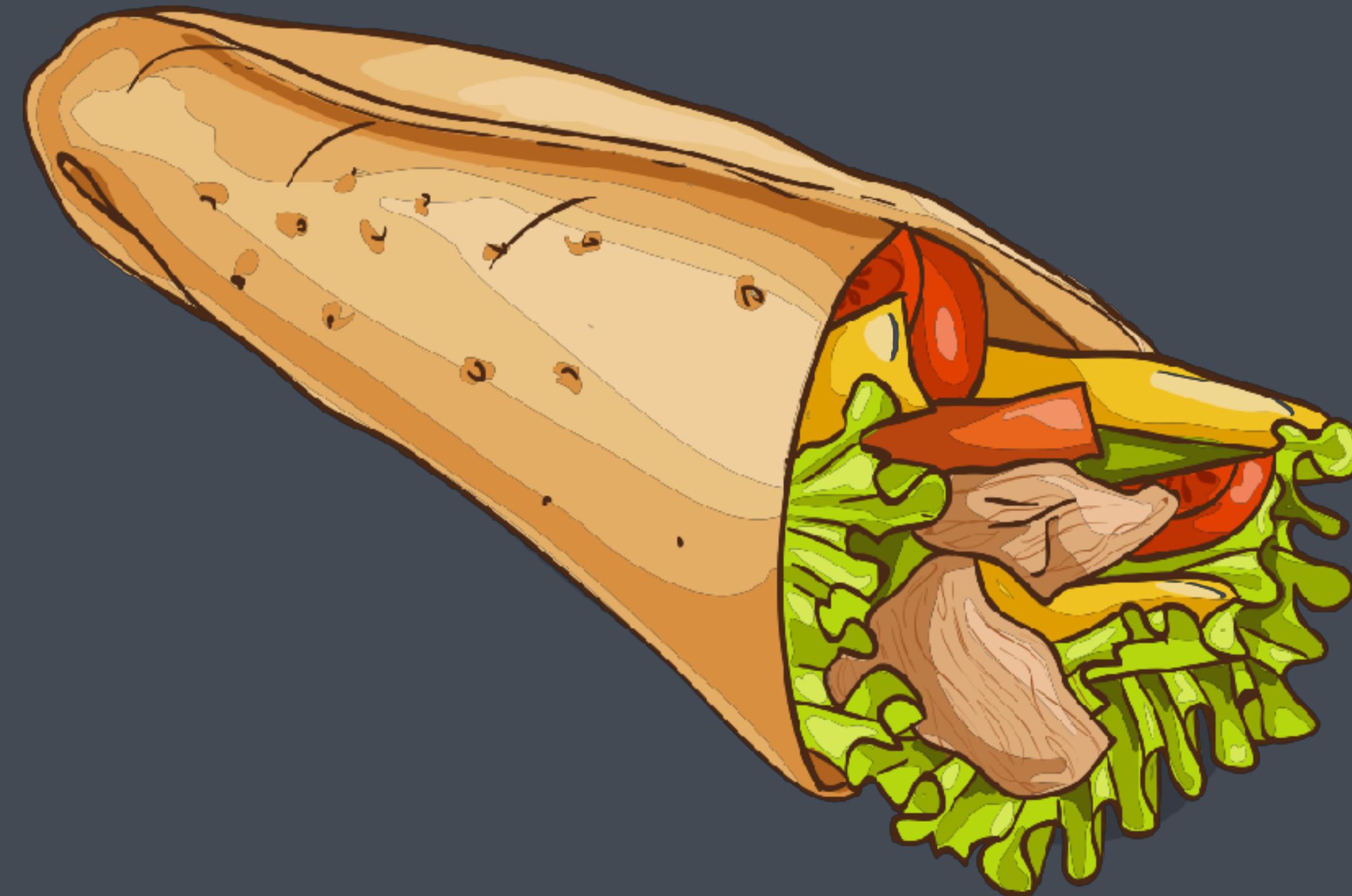
Upload to the jamf Pro
server

Don't forget to add the
path to the icons into
the script





The world is your burrito!





THANK YOU!