Armin Briegel

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Scripting OS X

jamf

scriptingosx.com/msa2023

2019

2019

2019

2019

scriptingosx.com/zsh
MAC · SYS · ADMIN
GOTHENBURG · 2019
2019

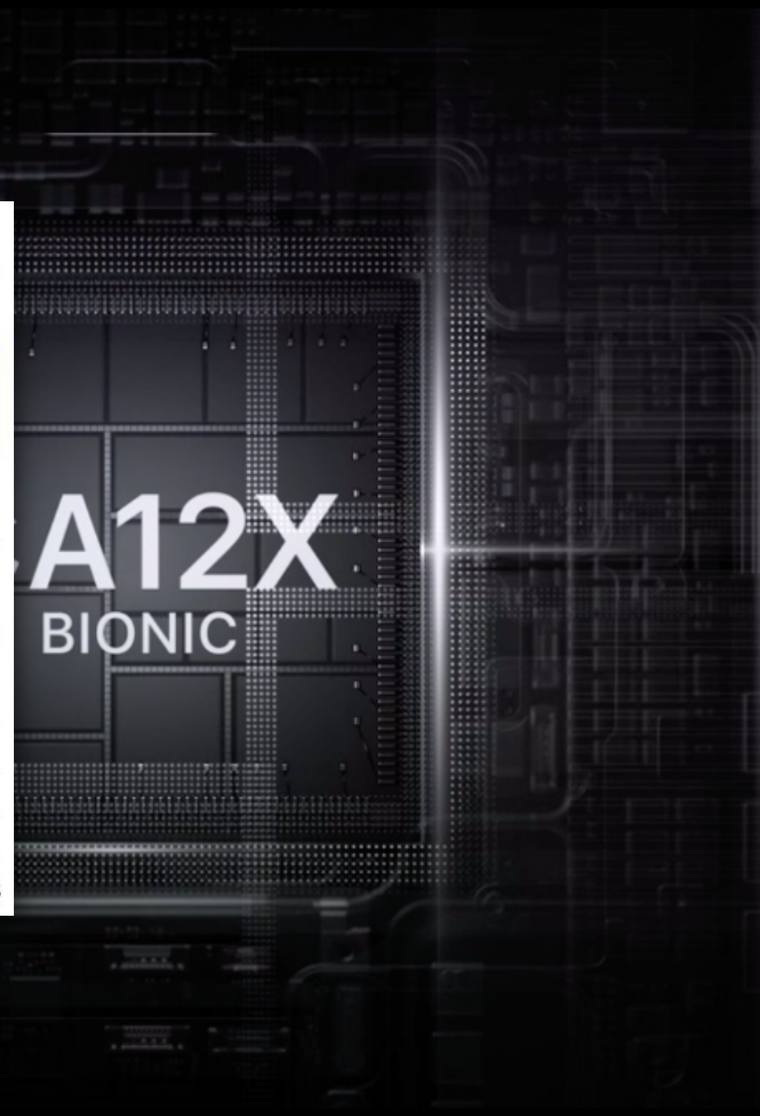
Presentations
Fashion_Keynote
03
TIBOR PRINT DRESS
A/W 2018
SOURCES OF INSPIRATION ARE OFTEN ACQUAINTED WITH THE PAST, BUT NEVER RETRO, AND LED BY A THIRST FOR KNOWLEDGE OF ART, DESIGN, AND DANCE.
And
You

A12X
BIONIC

Geekbench Results

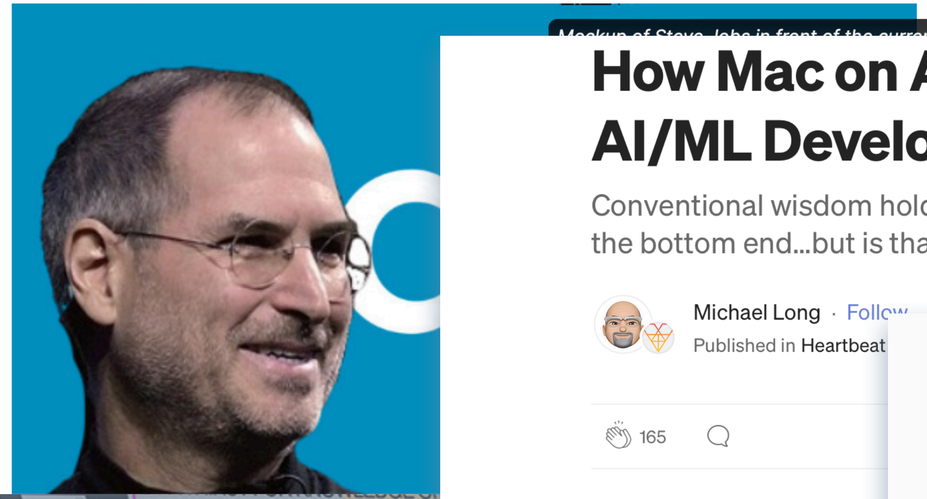
	Chip	Single-Core Score	Multi-Core Score
2018 iPad Pro	A12X	5,025	18,106
iPhone XS / XS Max / XR	A12	4,795	11,167
2017 iPad Pro	A10X	3,913	9,327
2018 iPad	A10	3,474	5,914
2018 15" MacBook Pro	2.2GHz six-core Core i7	4,928	21,165
	2.6GHz six-core Core i7	5,053	21,351
	2.9GHz six-core Core i9	5,344	22,552

MacRumors



Steve Jobs predicted the Mac's move from Intel to ARM processors

William Gallagher | Apr 08, 2019



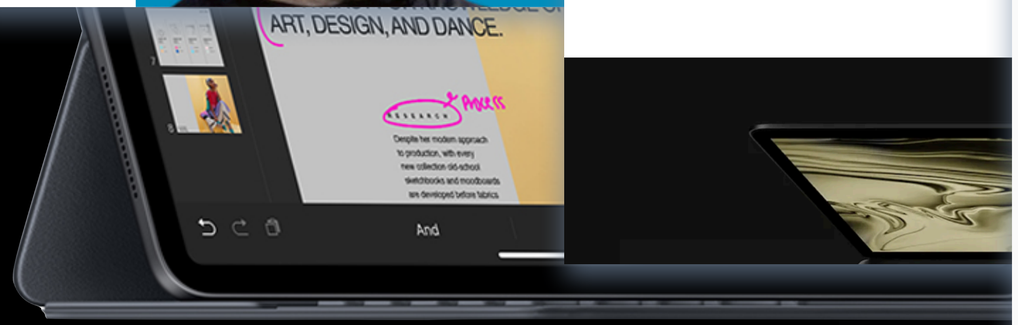
How Mac on ARM Will Power Future AI/ML Development

Conventional wisdom holds that we'll see ARM-based Macs first on the bottom end...but is that true?

Michael Long · Follow

Published in Heartbeat

165



FORBES > INNOVATION > CONSUMER TECH

EDITORS' PICK

Apple's Courage With MacOS On ARM Will Lift The Industry

Ewan Spence Senior Contributor

Storyteller exploring digital worlds, mobile, music and podcasting

Follow

Jul 7, 2020, 06:44pm EDT

Tuesday, September 12
9:41
2023

2019

macOS Mojave 10.14

macOS Mojave 10.14

Dark Mode

Home, News, Stocks, and Voice Memo

Dark Mode

Home, News, Stocks, and Voice Memo

warn for 32-bit processes

Dark Mode

Home, News, Stocks, and Voice Memo

warn for 32-bit processes

PPPC

macOS Catalina 10.15

zsh as default

zsh as default

System Extensions

zsh as default

System Extensions

dedicated System Volume

zsh as default

System Extensions

dedicated System Volume

Notarization

zsh as default

System Extensions

dedicated System Volume

Notarization

SwiftUI

zsh as default

System Extensions

dedicated System Volume

Notarization

SwiftUI

Mac Catalyst

zsh as default

System Extensions

dedicated System Volume

Notarization

SwiftUI

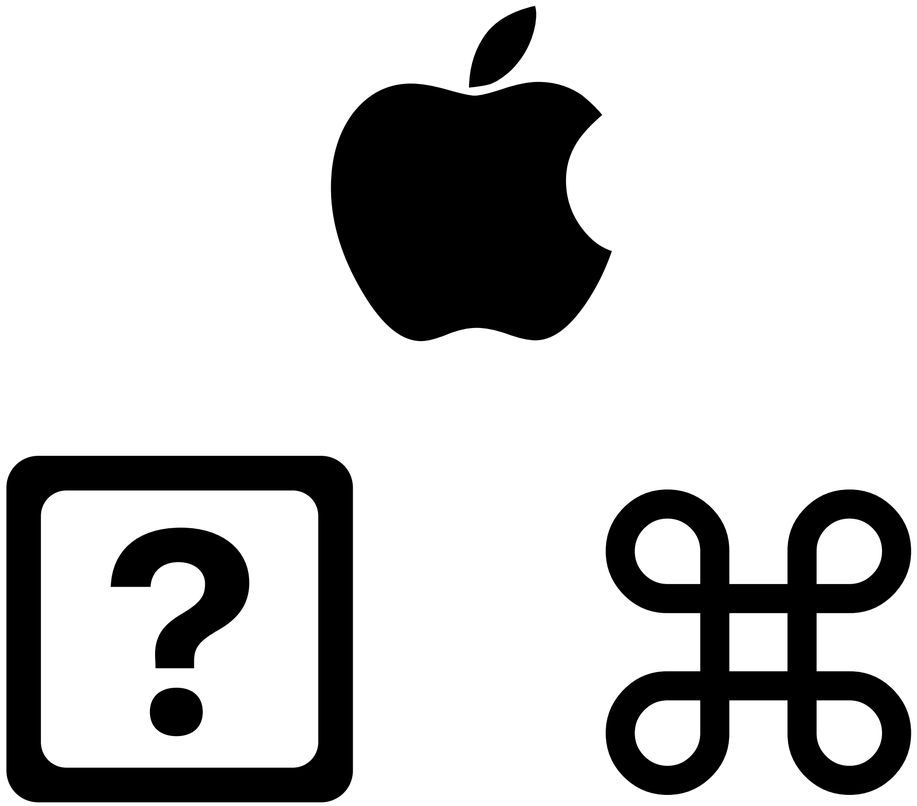
Mac Catalyst

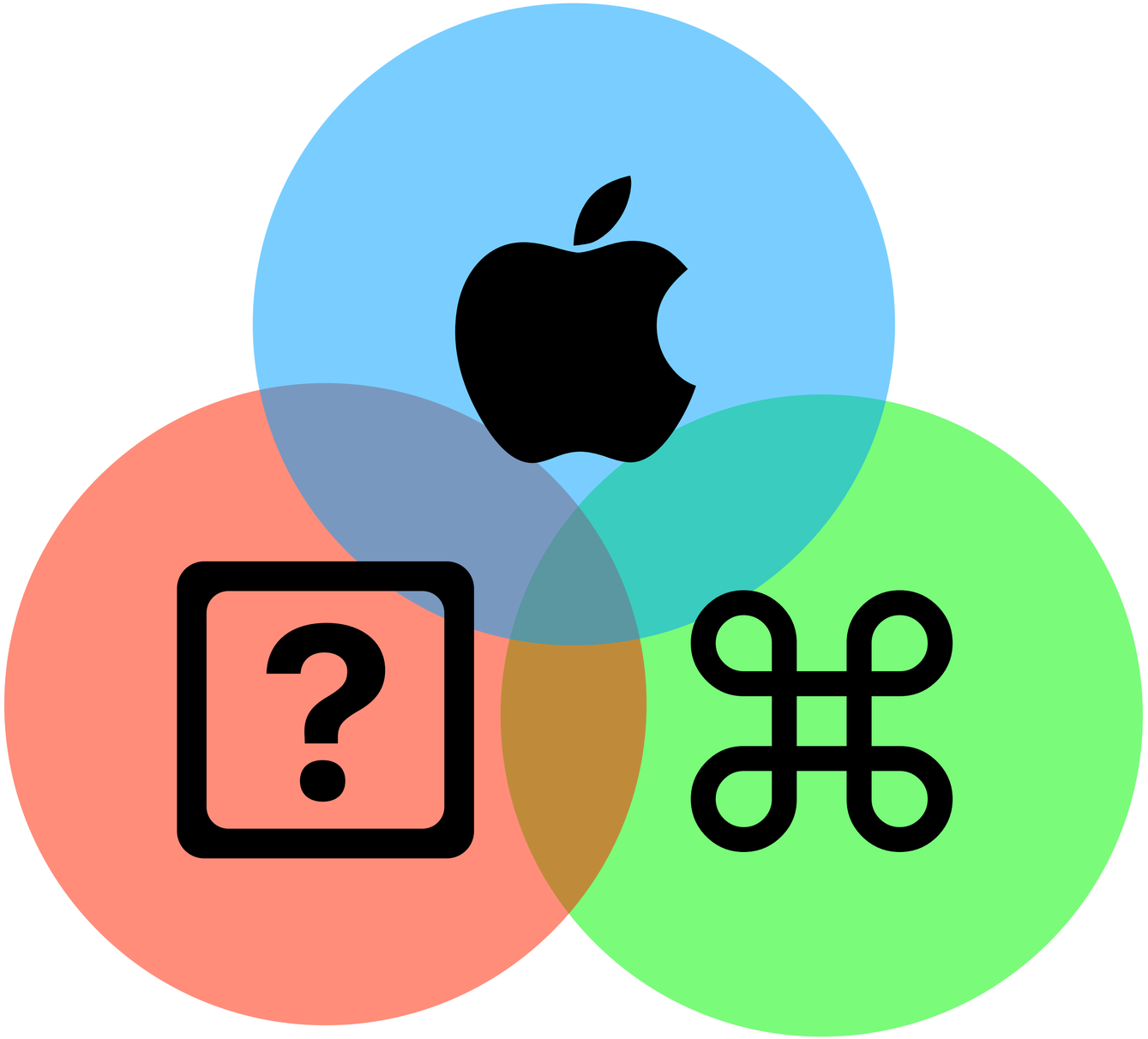
Music, Podcasts, and TV

2019

MacAdmin Tools

MacSysAdmin 2023





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2021	2022	2023
12.0 Monterey	13.0 Ventura	14.0 Sonoma

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Monterey	Ventura	Sonoma

Cats

California

2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
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ten dot

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sane version

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Jobs

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Cook

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Mac OS X

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OS X

2011	2012	2013	2014	2015
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macOS

2016	2017	2018	2019	2020
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tcsh

bash

zsh

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CD

DVD

Mac App Store

2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
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2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
$129	free			$129				$29.99	
10.0 Cheetah	10.1 Puma	10.2 Jaguar	10.3 Panther	10.4 Tiger		10.5 Leopard		10.6 Snow Leopard	

2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
$29.99	$19.99				free				
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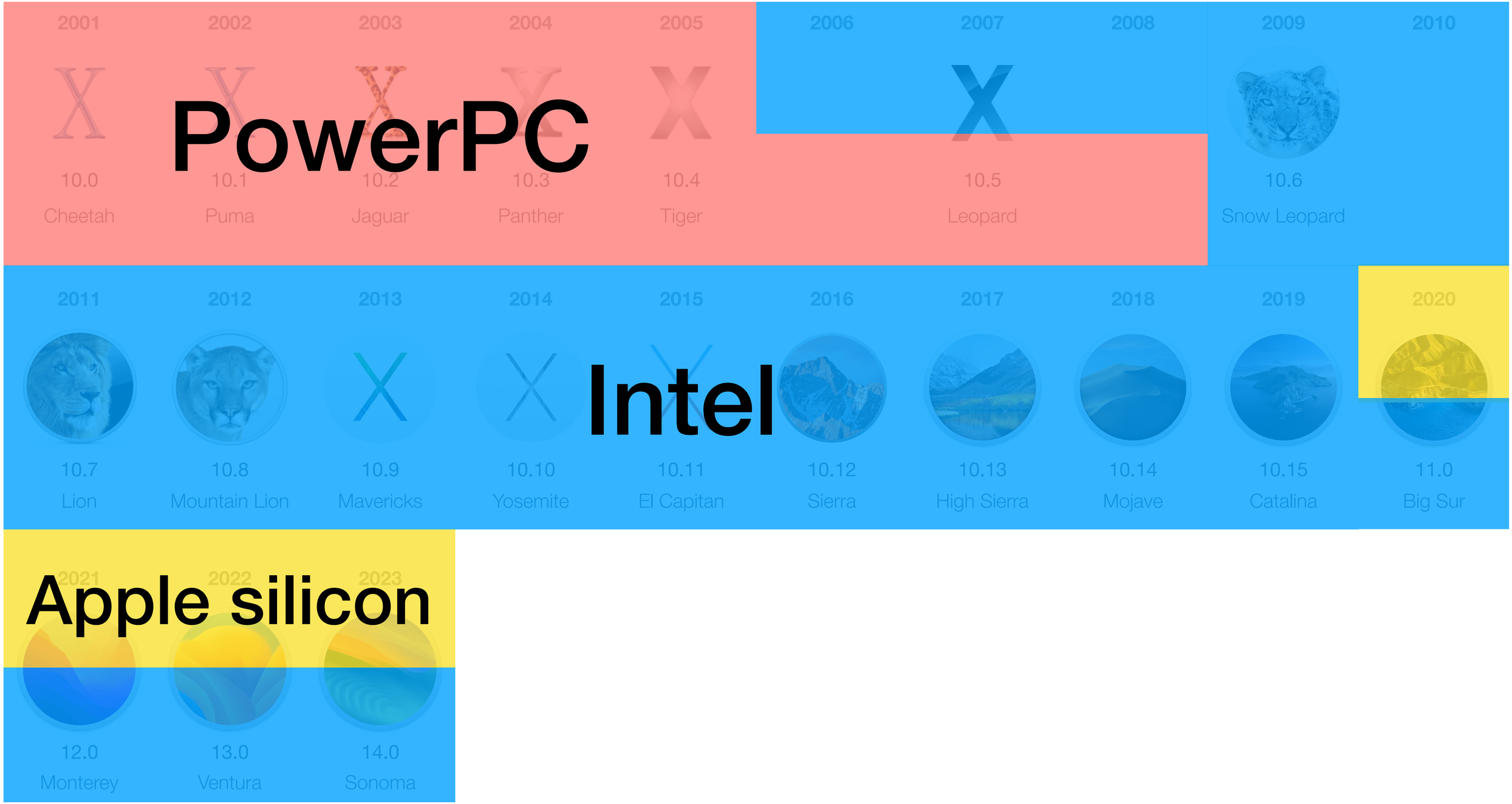
PowerPC
Intel
Apple silicon
2001
10.0
Cheetah
2002
10.1
Puma
2003
10.2
Jaguar
2004
10.3
Panther
2005
10.4
Tiger
2006
2007
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Leopard
2009
10.6
Snow Leopard
2010
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Lion
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Mountain Lion
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Yosemite
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El Capitan
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High Sierra
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Mac OS X Server

Server.app

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no

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no updates

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updates

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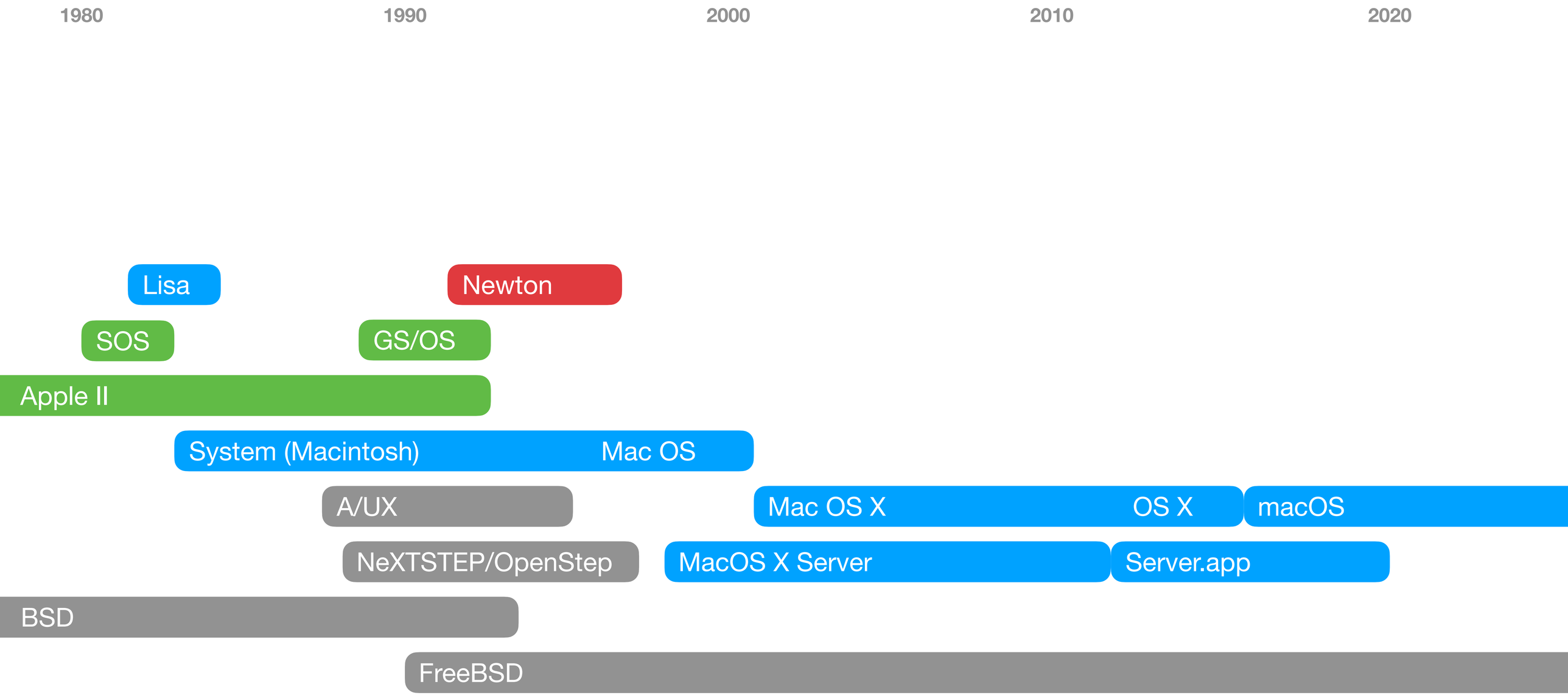
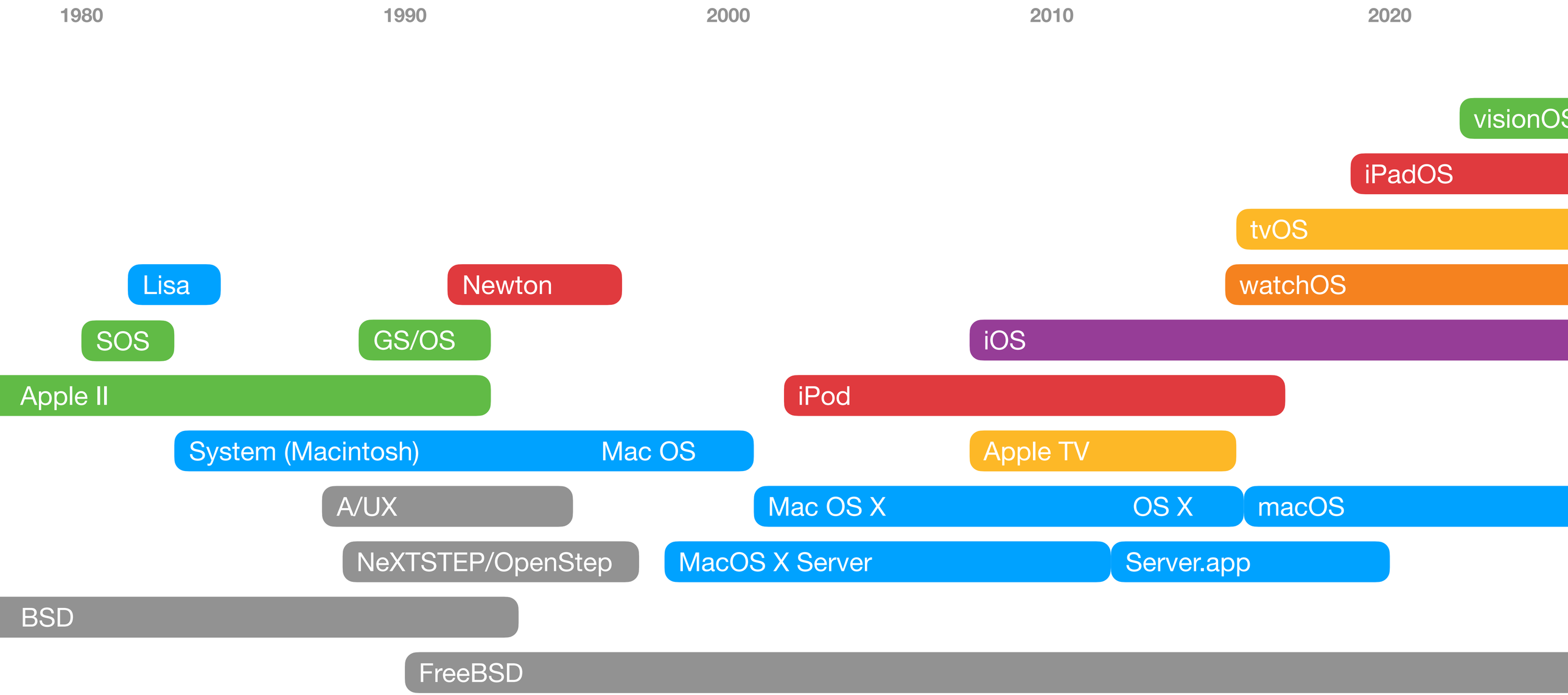
Cheetah	Puma	Jaguar	Panther	Tiger		Leopard		Snow Leopard	

2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
10.7	10.8	10.9	10.10	10.11	10.12	10.13	10.14	10.15	11.0
Lion	Mountain Lion	Mavericks	Yosemite	El Capitan	Sierra	High Sierra	Mojave	Catalina	Big Sur

2021	2022	2023
12.0	13.0	14.0
Monterey	Ventura	Sonoma


1980
1990
2000
2010
2020
Lisa
Newton
SOS
GS/OS
Apple II
System (Macintosh)
Mac OS
A/UX
Mac OS X
OS X
macOS
NeXTSTEP/OpenStep
MacOS X Server
Server.app
BSD
FreeBSD


1980
1990
2000
2010
2020
visionOS
iPadOS
tvOS
Lisa
Newton
watchOS
SOS
GS/OS
iOS
Apple II
iPod
System (Macintosh)
Mac OS
Apple TV
A/UX
Mac OS X
OS X
macOS
NeXTSTEP/OpenStep
MacOS X Server
Server.app
BSD
FreeBSD

visionOS

tvOS

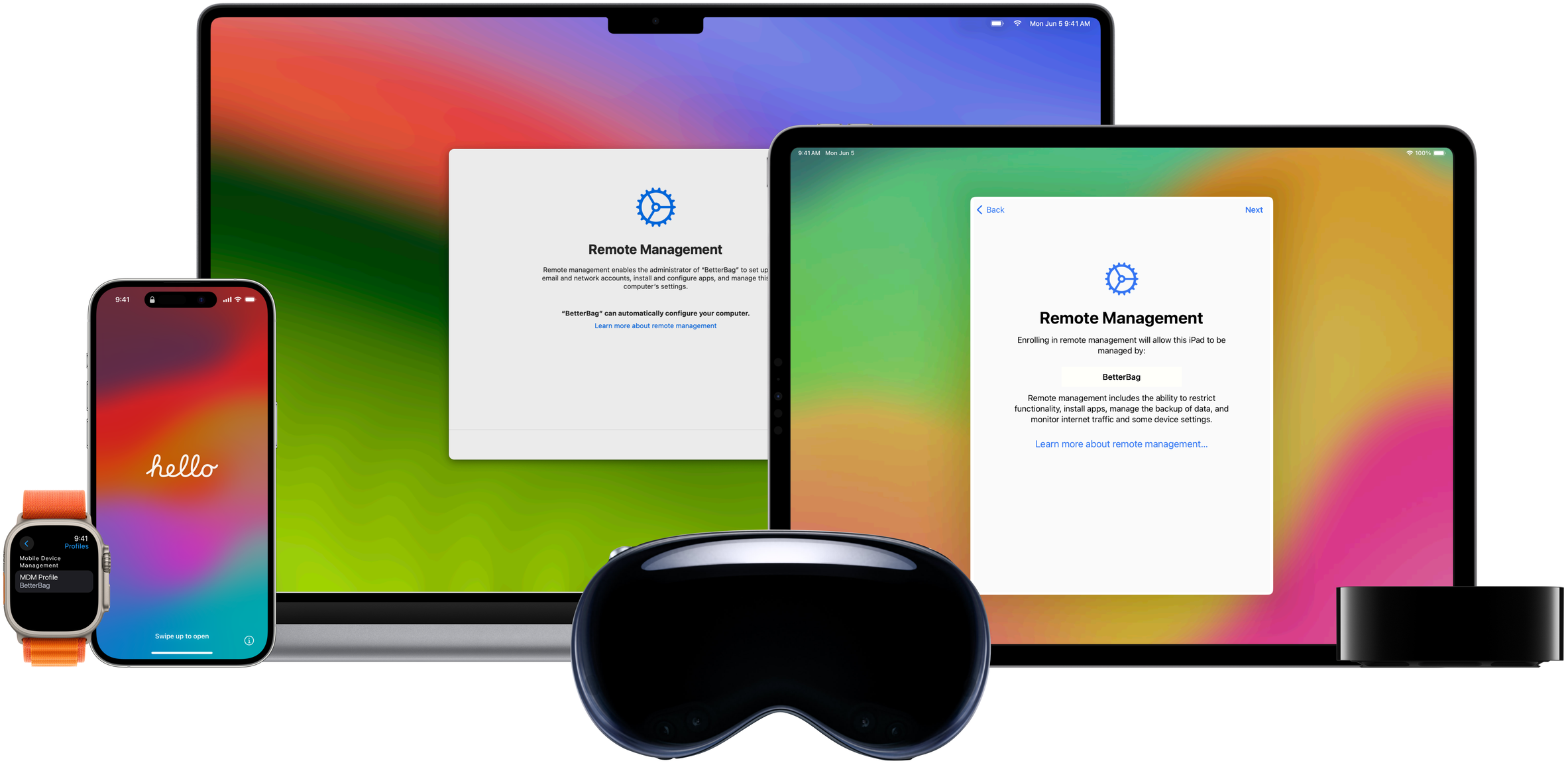
watchOS

iPadOS

iOS

macOS

iCloud + Services


Mon Jun 5 9:41 AM
Remote Management
Remote management enables the administrator of "BetterBag" to set up email and network accounts, install and configure apps, and manage this computer's settings.
"BetterBag" can automatically configure your computer.
Learn more about remote management
9:41 AM Mon Jun 5
100%
Back
Next
Remote Management
Enrolling in remote management will allow this iPad to be managed by:
BetterBag
Remote management includes the ability to restrict functionality, install apps, manage the backup of data, and monitor internet traffic and some device settings.
Learn more about remote management...
9:41
hello
Swipe up to open
9:41
Profiles
Mobile Device Management
MDM Profile
BetterBag

for IT

Managed Apple IDs

Configurator

Declarative device management

Apple Silicon

Guides and Training

Apple Business/School Manager

SSO

AppleSeed for IT

Erase all Contents and Settings

Security and Privacy

Enrollment

Automated
Device Enrollment

User Initiated
Enrollment

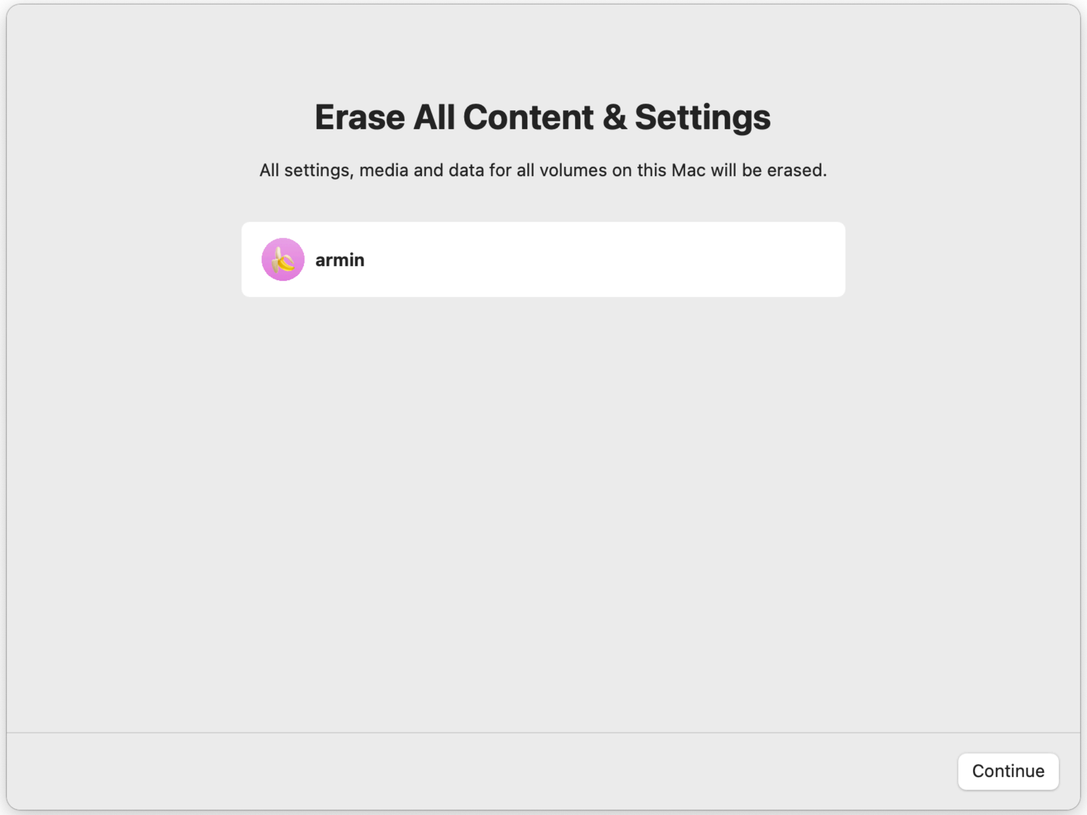
Account-driven
User Enrollment

Apple silicon and T2

preserves System

MDM command

MDM restriction

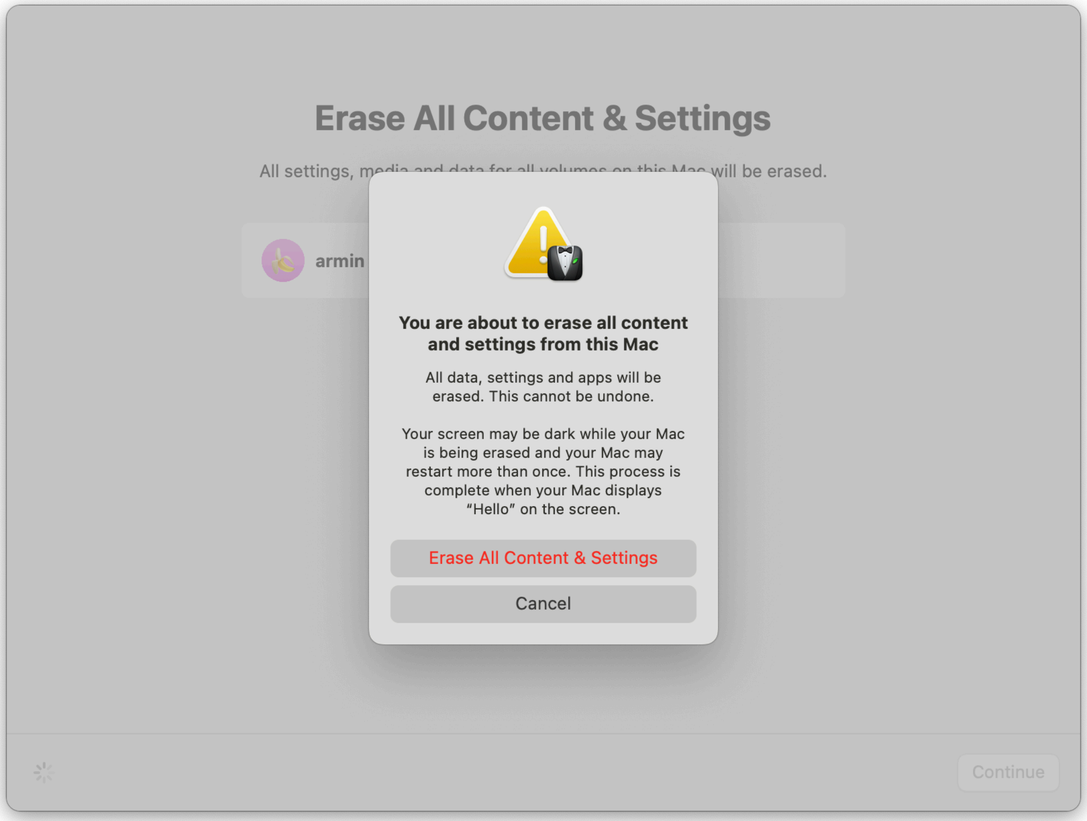


Apple silicon and T2

preserves System

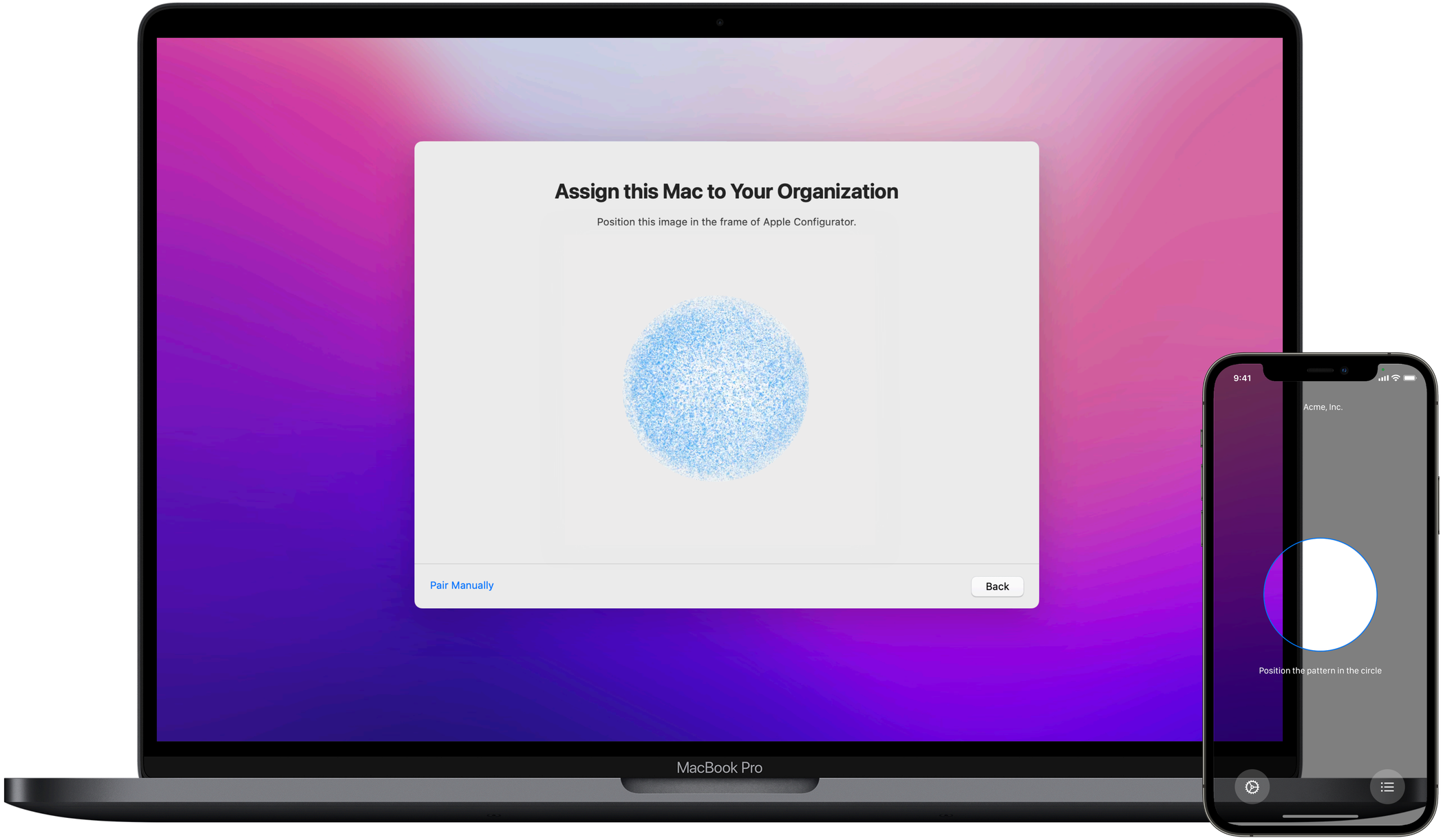
MDM command

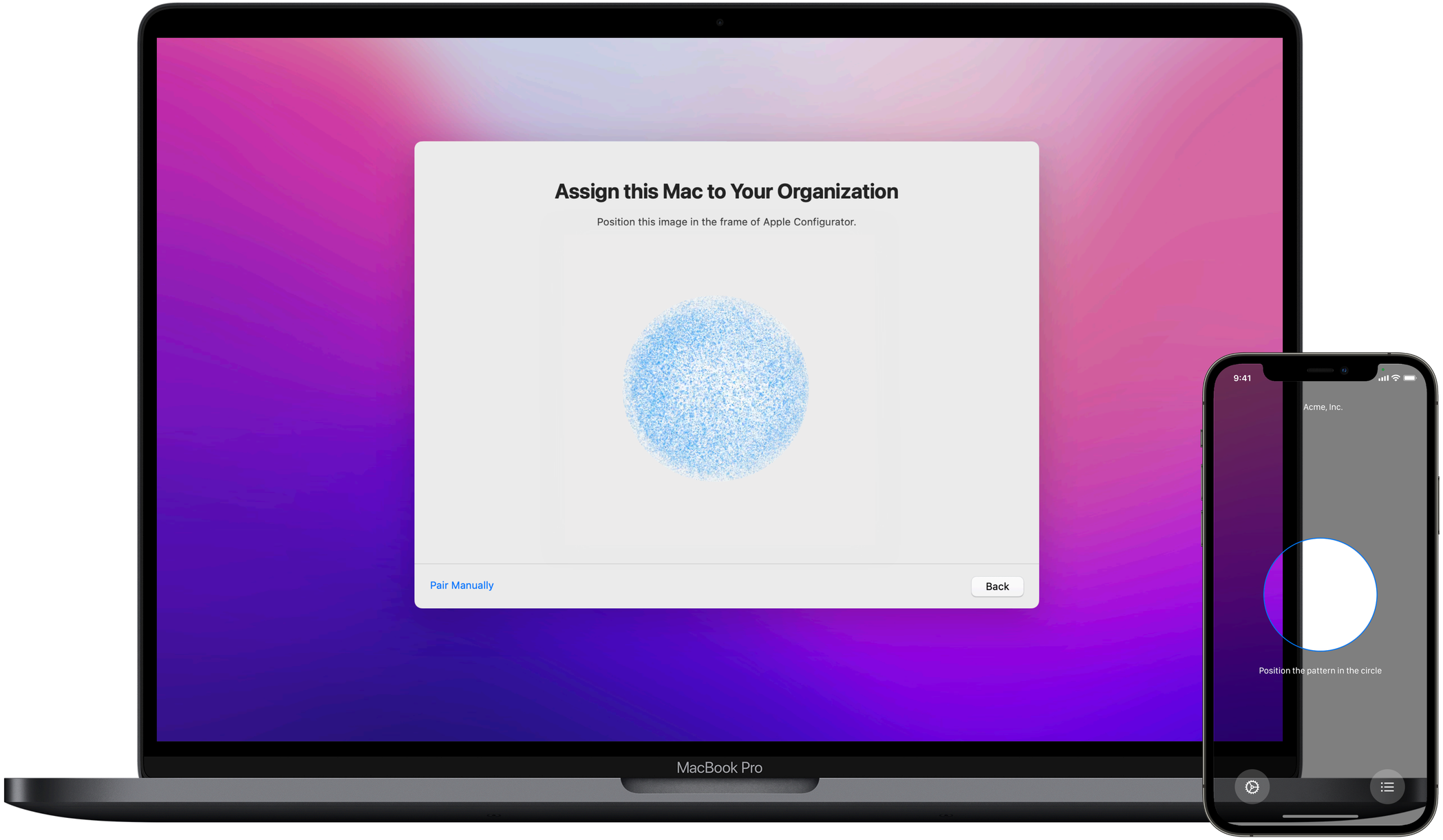
MDM restriction



MacBook Pro

MacBook Pro


Assign this Mac to Your Organization
Position this image in the frame of Apple Configurator.
Pair Manually
Back
MacBook Pro
9:41
Acme, Inc.
Position the pattern in the circle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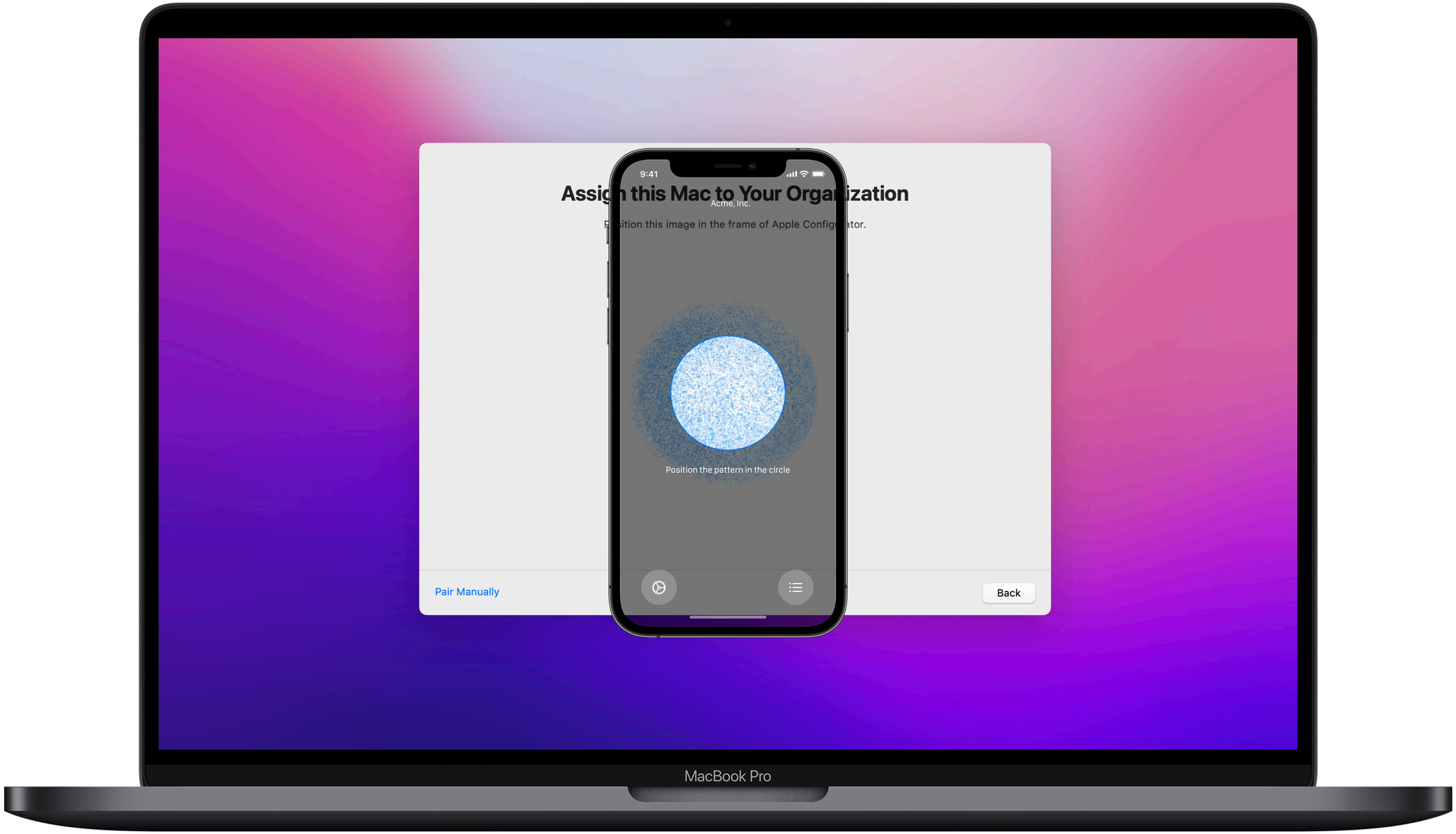
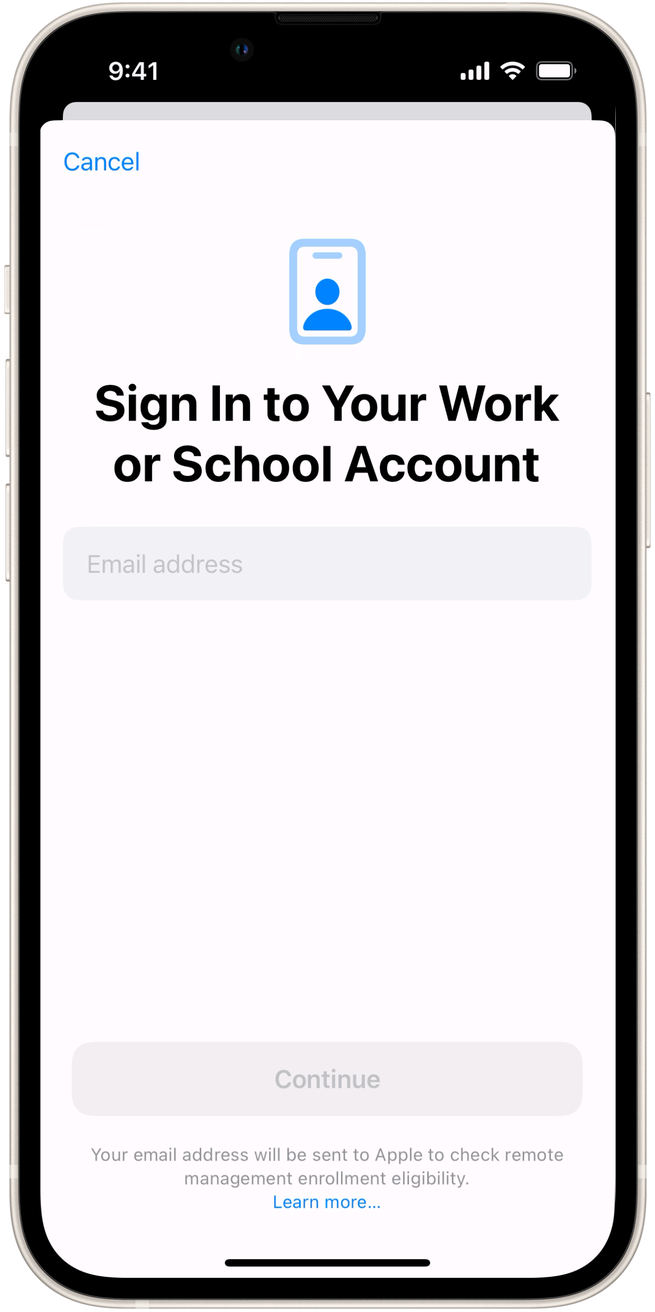

9:41
Acme, Inc.
Position the pattern in the circle
Pair Manually
Back
MacBook Pro

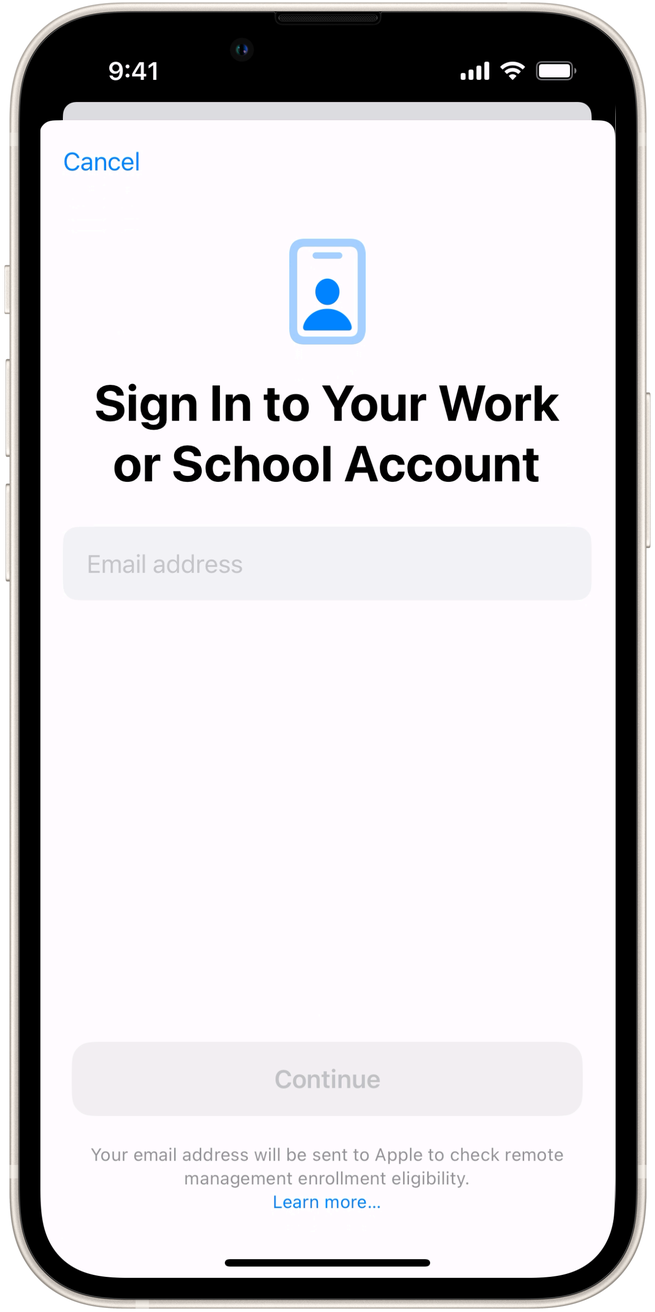
Automated
Device Enrollment

User Initiated
Enrollment

Account-driven
User Enrollment

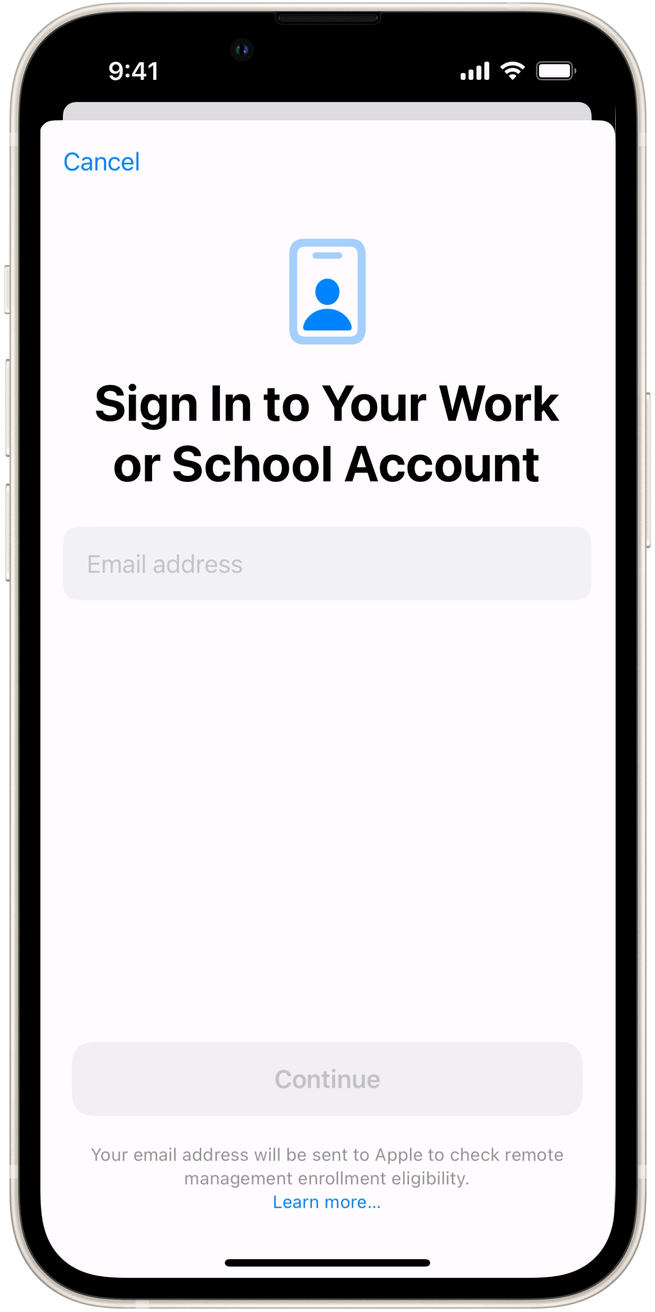


Account-driven User Enrollment



Account-driven User Enrollment

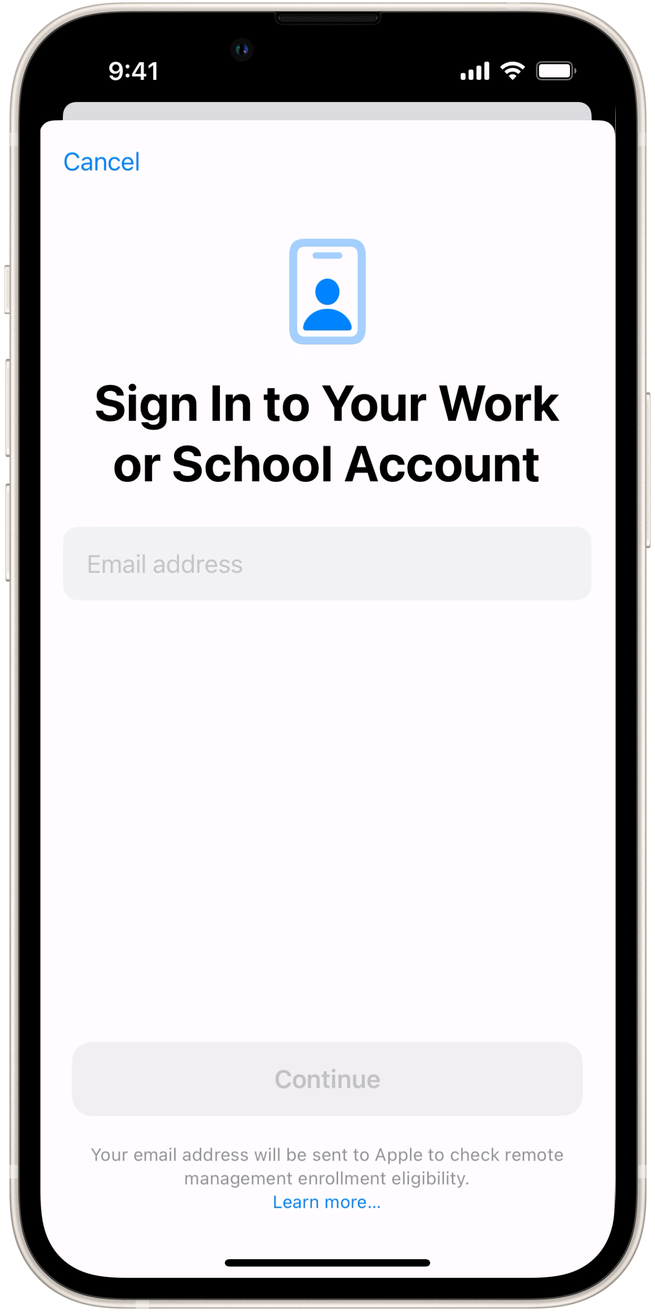
arminb@icloud.com



Account-driven User Enrollment

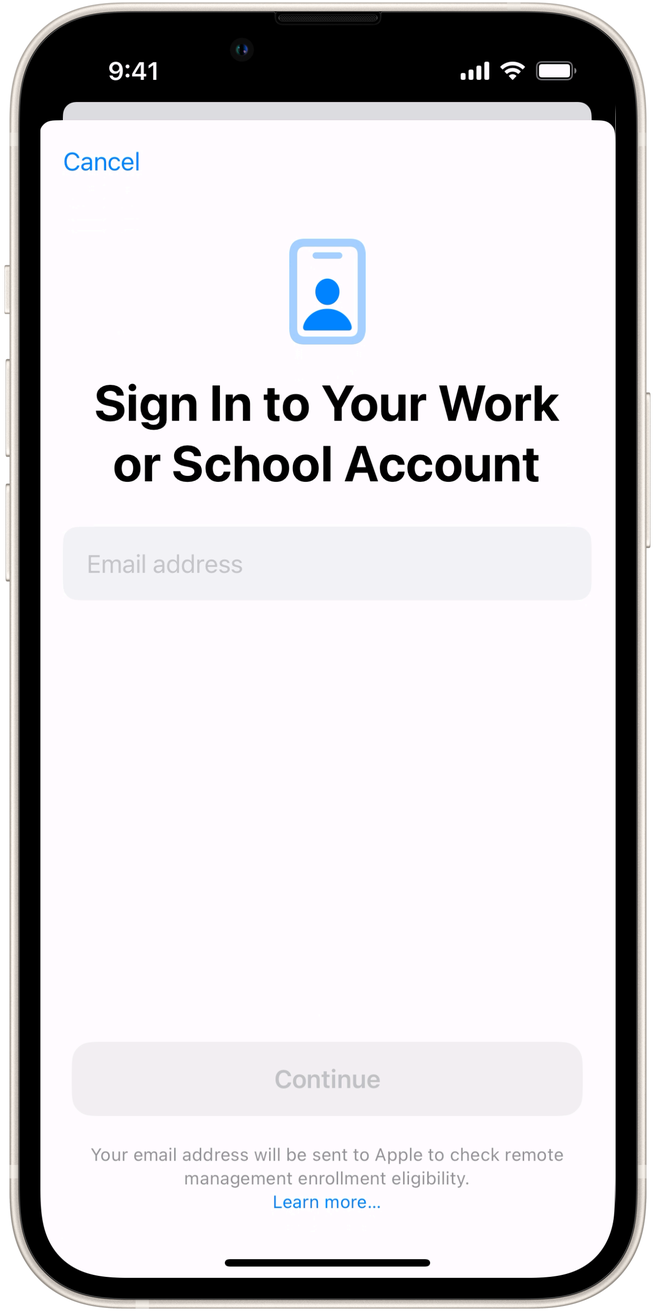
arminb@icloud.com

armin.briegel@work.com



Account-driven User Enrollment

arminb@icloud.com



Account-driven User Enrollment

Automated
Device Enrollment

User Initiated
Enrollment

Account-driven
User Enrollment

Automated
Device Enrollment

User Initiated
Enrollment

Account-driven
Device Enrollment

Account-driven
User Enrollment

Automated
Device Enrollment

Account-driven
Device Enrollment

Account-driven
User Enrollment

Automated
Device Enrollment

Account-driven
Device Enrollment

Account-driven
User Enrollment

Managed Apple IDs

new Federation options

more features

get prepared

Search this guide

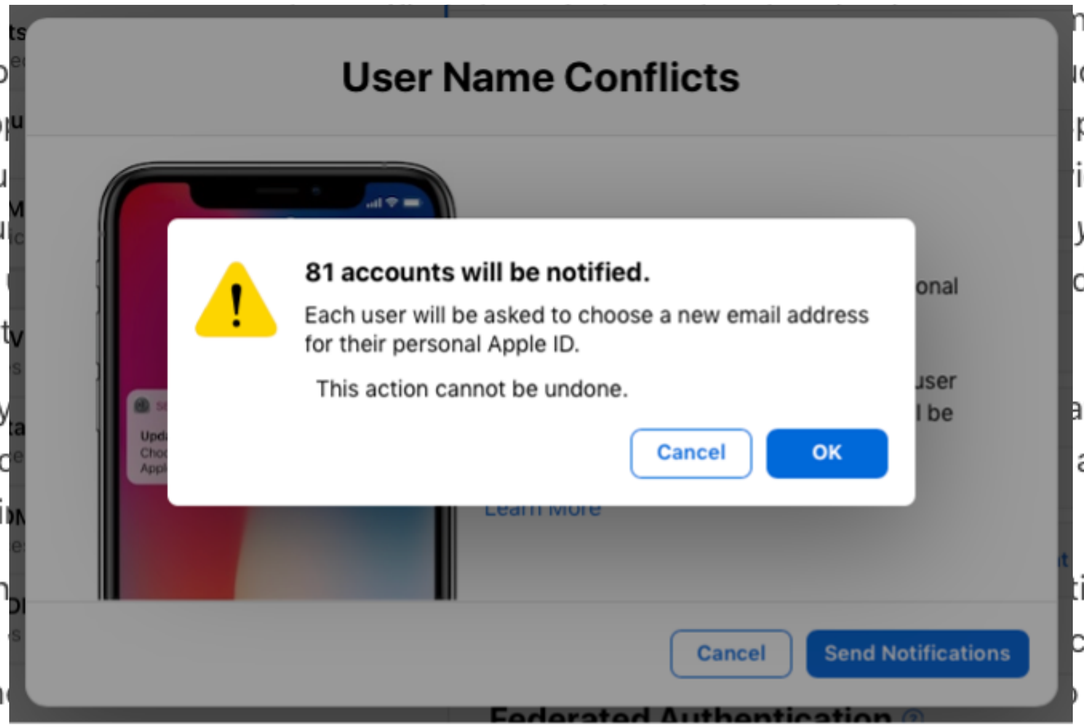
Table of Contents

Get notified about user name conflicts in Apple Business Manager

In Apple Business ne conflicts in case you need to tell sp ccessfully verified and federated, App pecific domain name. If one is fou ice connected to their iCloud accou *your* organization. Even though they d all their purchases and dat

For example, say y ars ago and set up email addresses fo assigned "afrost@theacmei

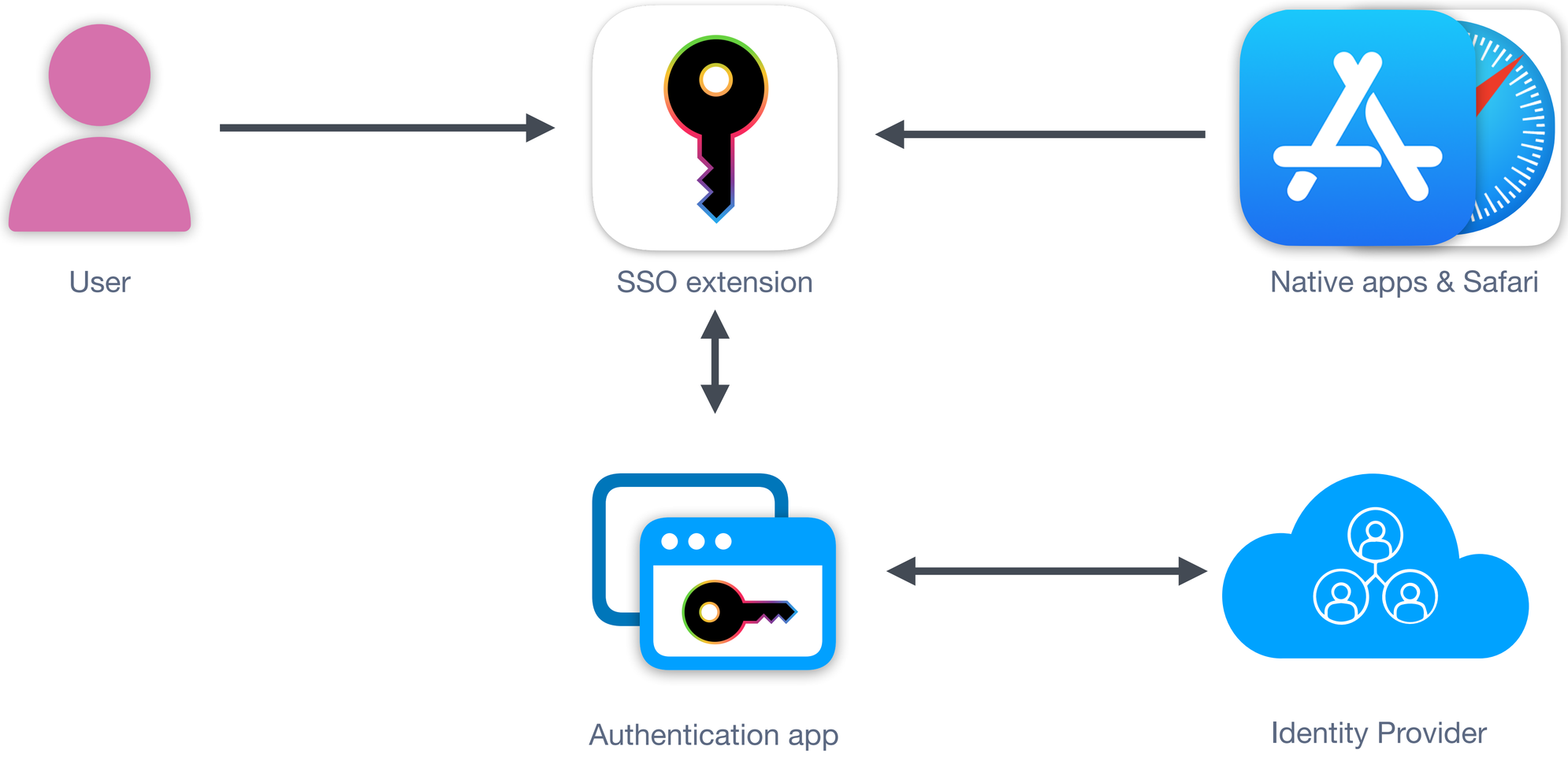
Even if Amy no lon till has the personal Apple ID cation for the domain name @th that you can create the Managed Apple ID afrost@theacmeinc.com if you want.



(Platform) SSO

(Platform) SSO

(Platform) SSO



(Platform) SSO

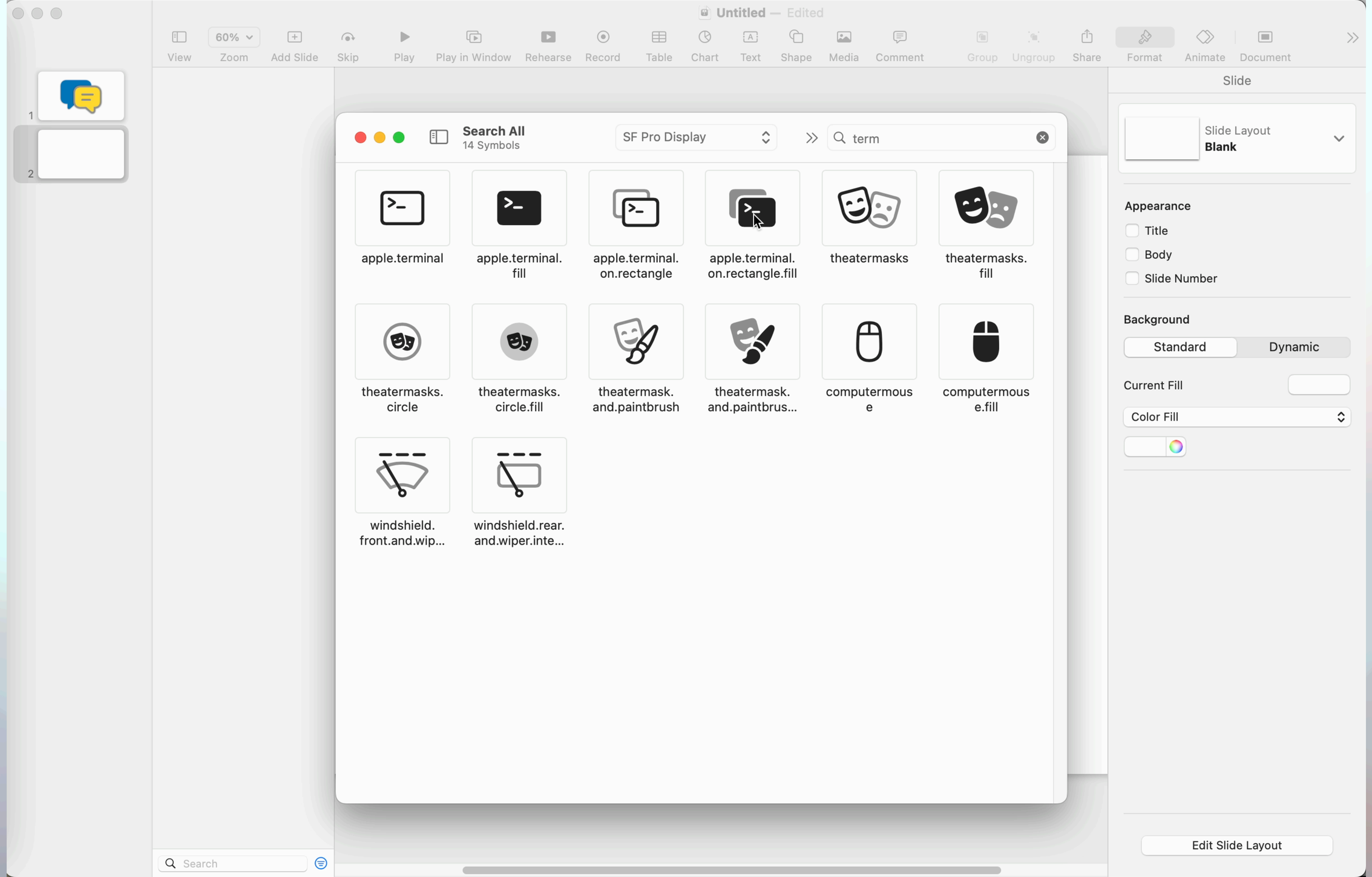
(Platform) SSO

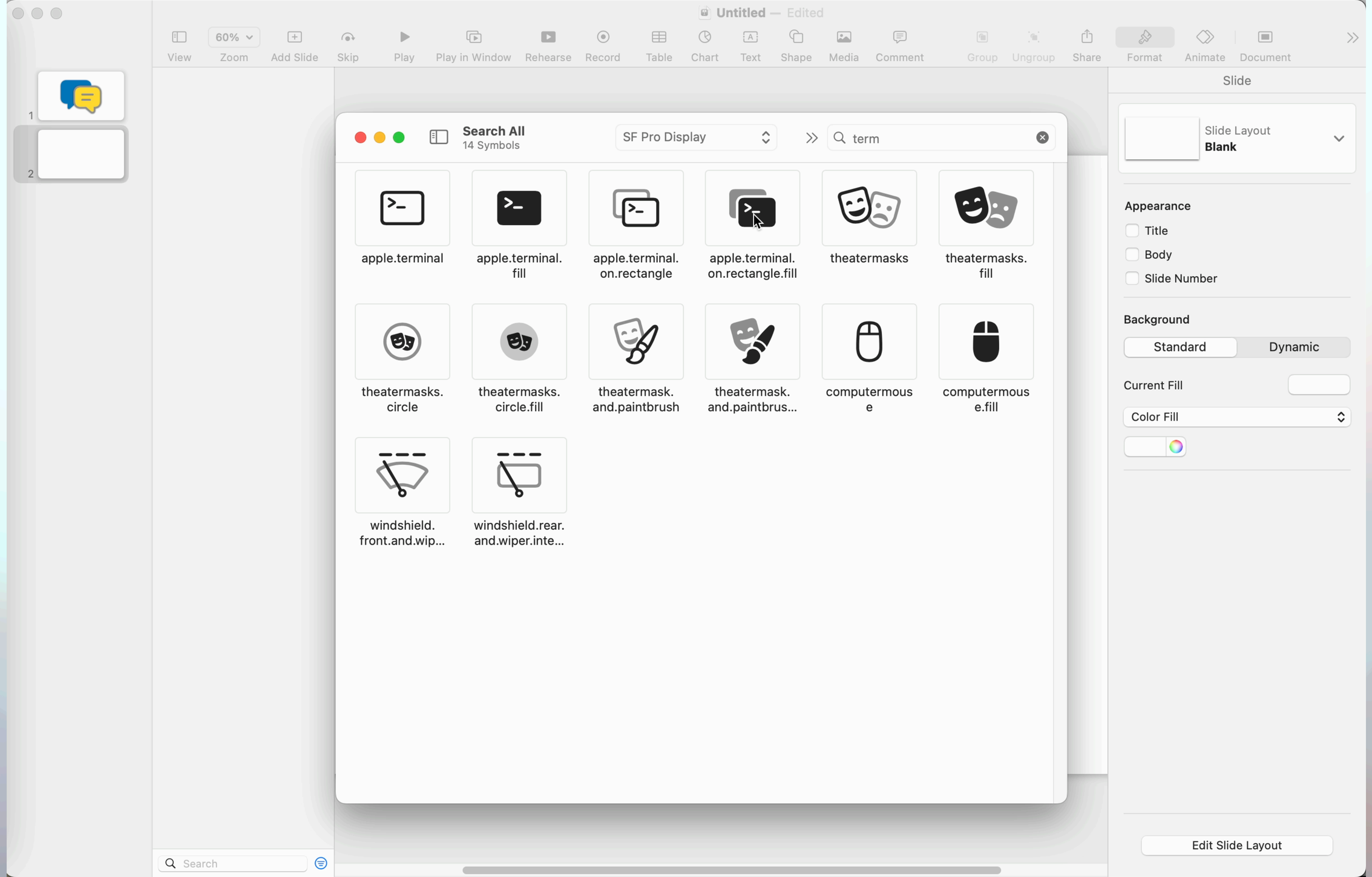
PREVIEW okta

PREVIEW Microsoft

Keynote

SF Symbols 5


Untitled — Edited
View
60%
Zoom
Add Slide
Skip
Play
Play in Window
Rehearse
Record
Table
Chart
Text
Shape
Media
Comment
Group
Ungroup
Share
Format
Animate
Document
Search All
14 Symbols
SF Pro Display
term
apple.terminal
apple.terminal.fill
apple.terminal.on.rectangle
apple.terminal.on.rectangle.fill
theatermasks
theatermasks.fill
theatermasks.circle
theatermasks.circle.fill
theatermask.and.paintbrush
theatermask.and.paintbrus...
computermouse
computermouse.fill
windshield.front.and.wip...
windshield.rear.and.wiper.inte...
Slide
Slide Layout
Blank
Appearance
Title
Body
Slide Number
Background
Standard
Dynamic
Current Fill
Color Fill
Edit Slide Layout
Search


Untitled — Edited
View
60%
Zoom
Add Slide
Skip
Play
Play in Window
Rehearse
Record
Table
Chart
Text
Shape
Media
Comment
Group
Ungroup
Share
Format
Animate
Document
Search All
14 Symbols
SF Pro Display
term
apple.terminal
apple.terminal.fill
apple.terminal.on.rectangle
apple.terminal.on.rectangle.fill
theatermasks
theatermasks.fill
theatermasks.circle
theatermasks.circle.fill
theatermask.and.paintbrush
theatermask.and.paintbrus...
computermouse
computermouse.fill
windshield.front.and.wip...
windshield.rear.and.wiper.inte...
Slide
Slide Layout
Blank
Appearance
Title
Body
Slide Number
Background
Standard
Dynamic
Current Fill
Color Fill
Edit Slide Layout
Search

Service Configurations

📄 protected config files

managed command line services

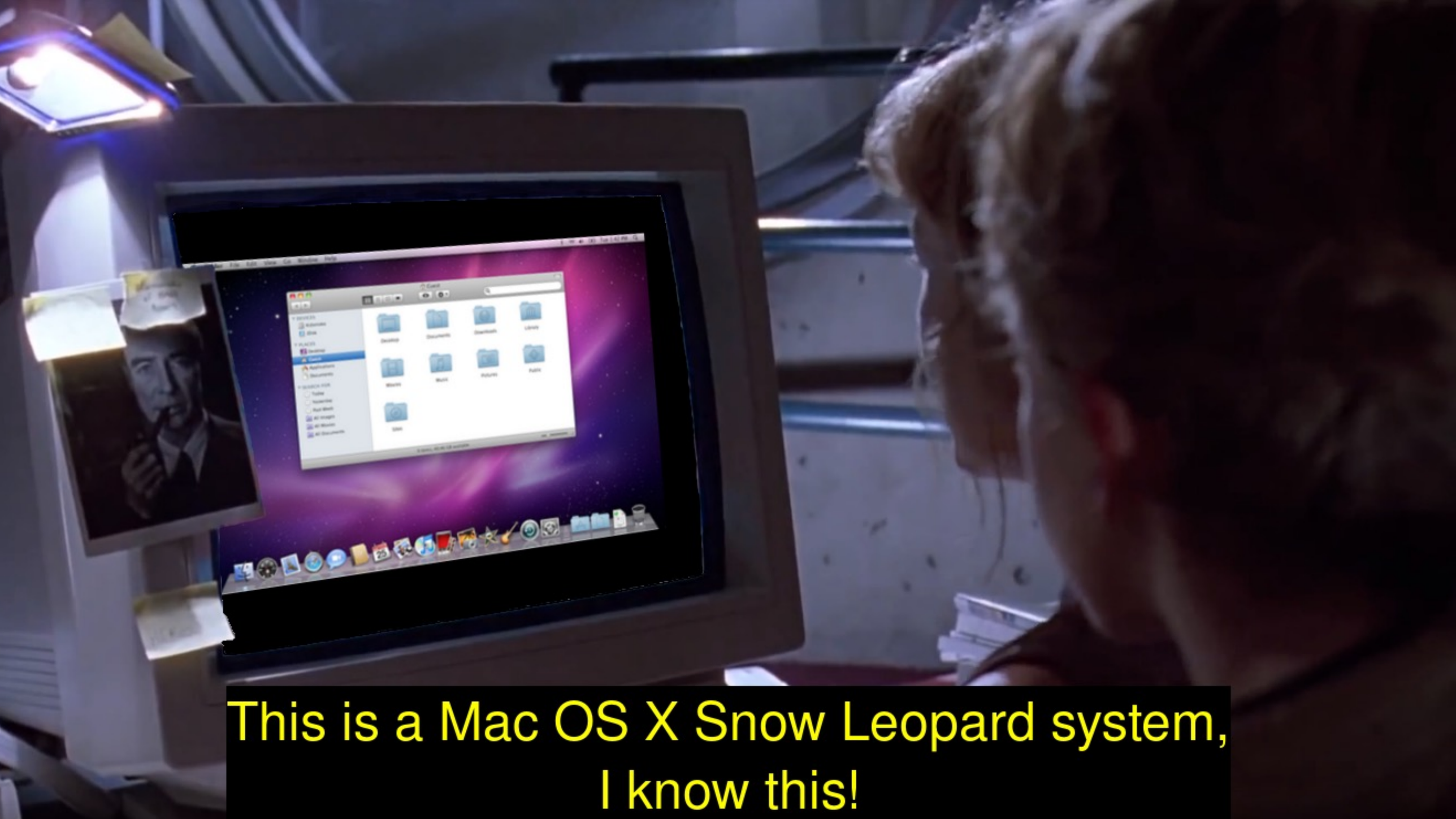
🖥️ distinctly macOS

Service Configurations

📄 protected config files

managed command line services

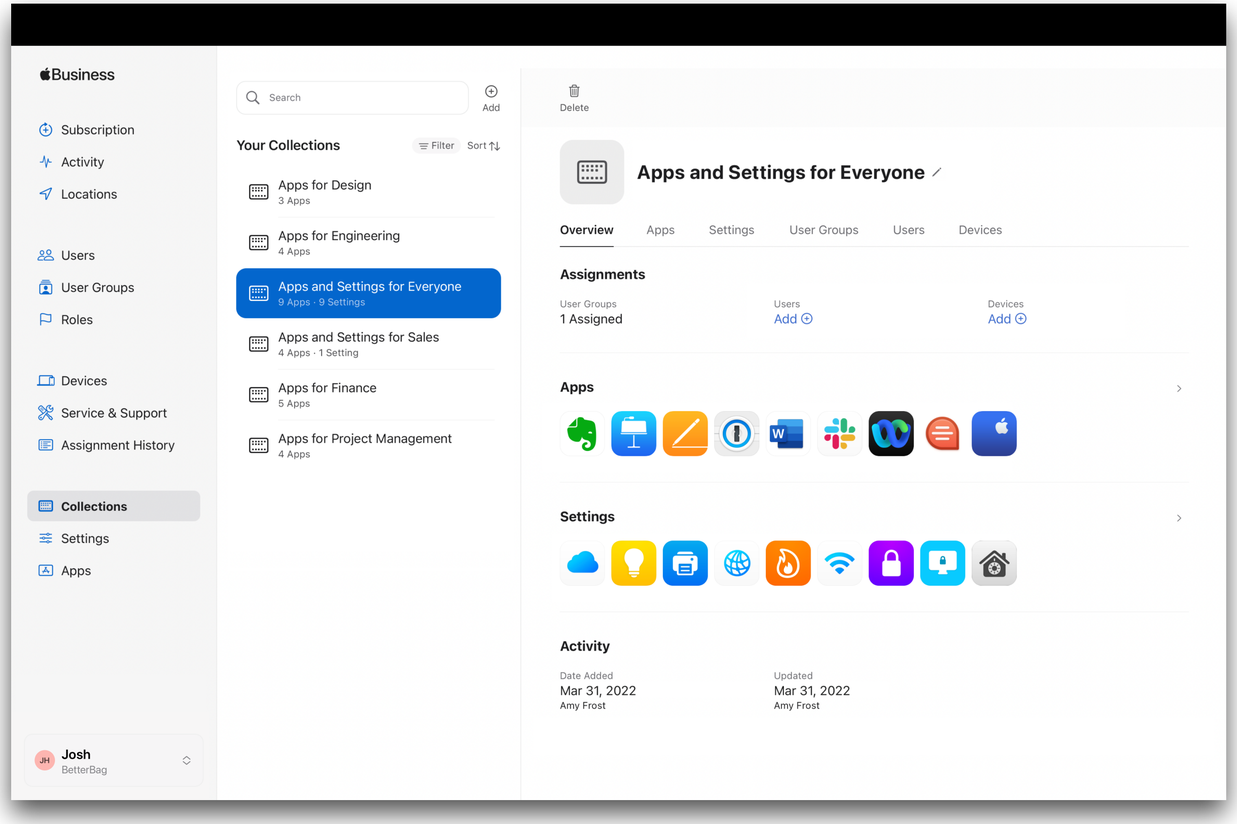
🖥️ distinctly macOS


This is a Mac OS X Snow Leopard system,
I know this!

This is MacSysAdmin Conference!
I know this!

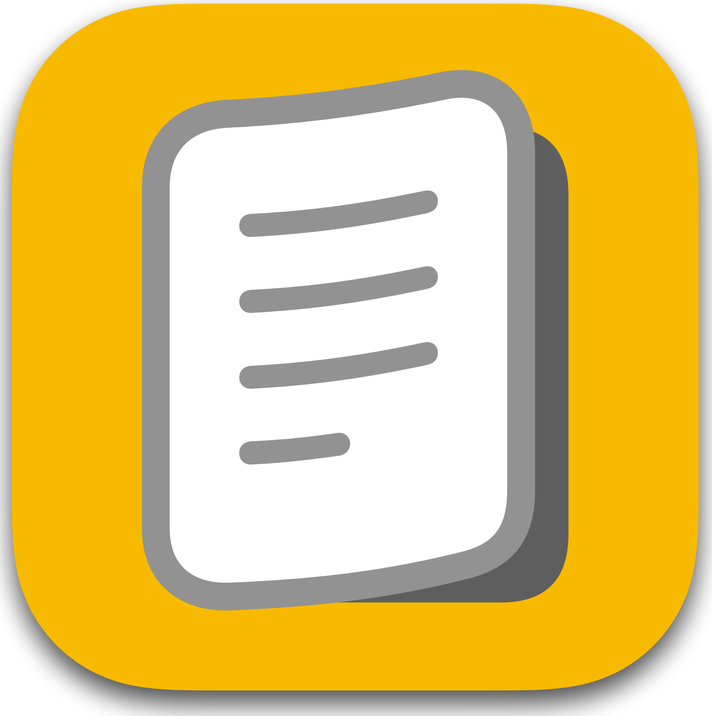
Apple Business Essentials

exclusive services:
iCloud Storage, AppleCare



US only

Documentation



Platform Security

Platform Deployment

Deployment Guide for Education

Platform Certification

Apple Business Manager

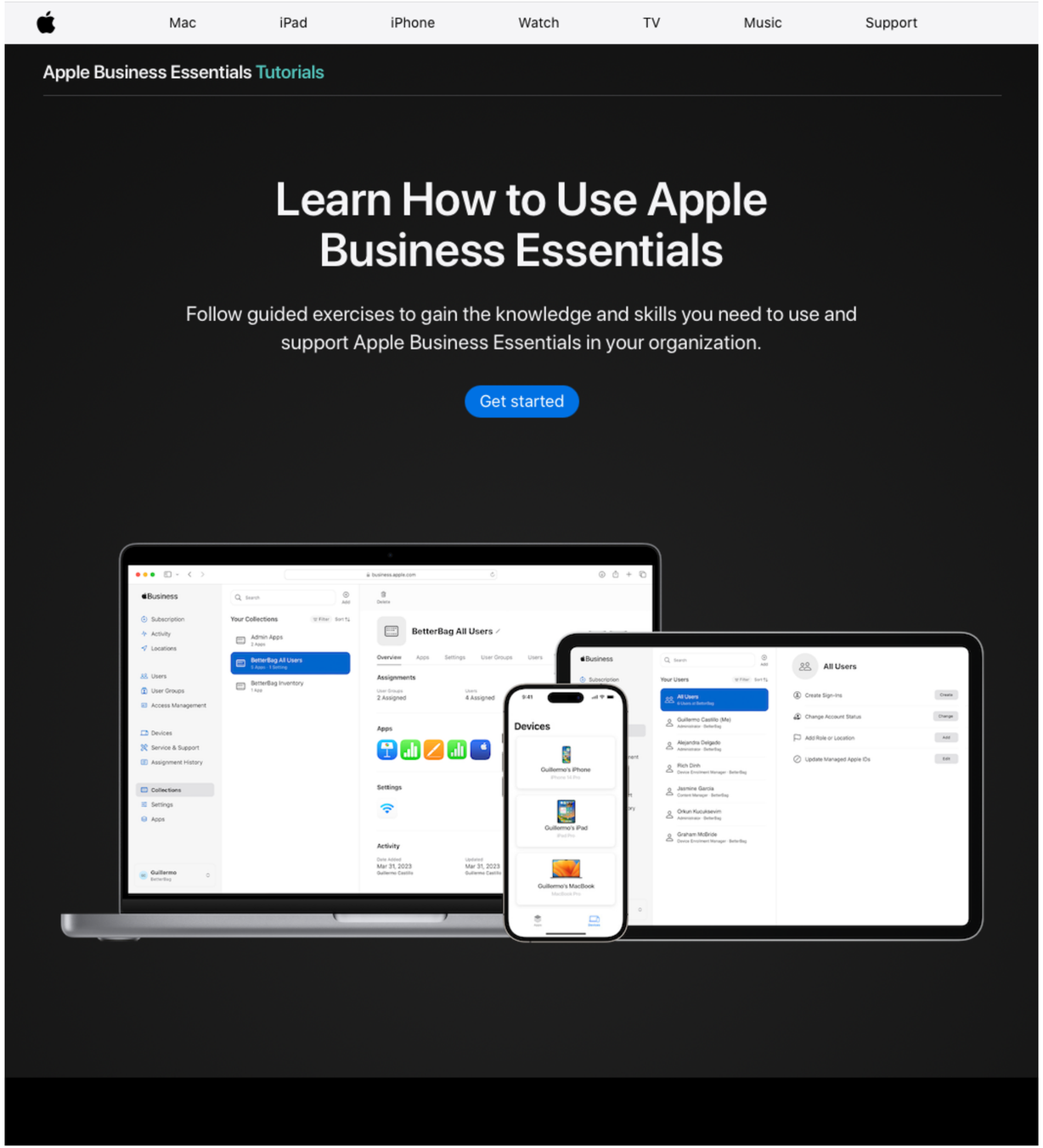
Apple School Manager

Apple Business Essentials

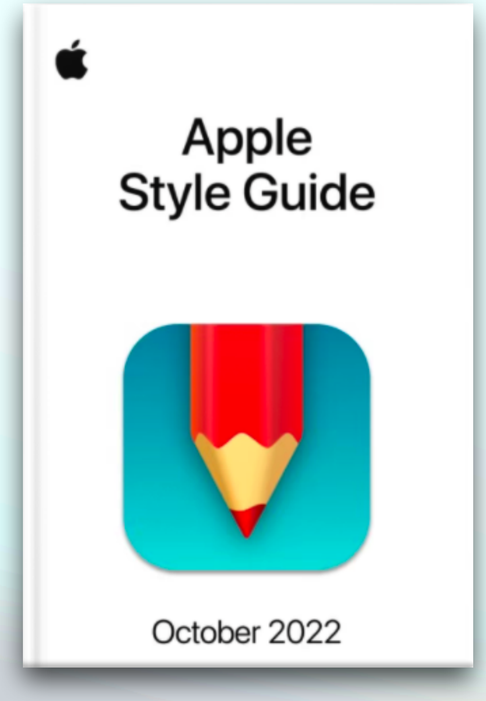
Device Support

Deployment and Management

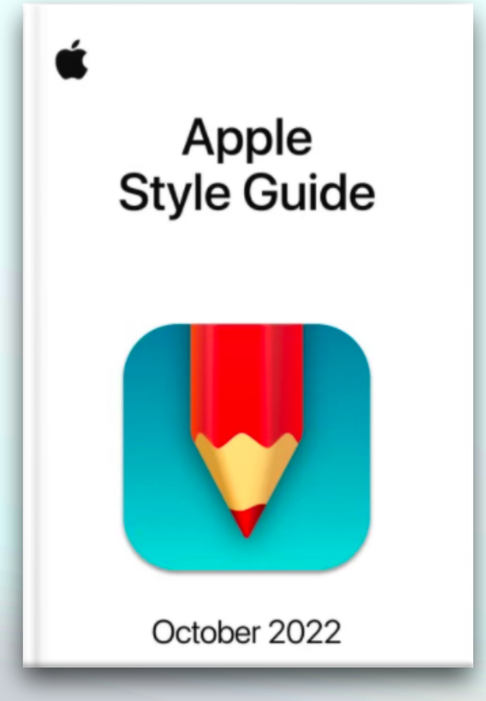
Apple Business Essentials



Apple
Style Guide
October 2022



MacAppStore	Mac App Store
command-shift-S	Shift-Command-S
the MacBook	MacBook
the iPhone	iPhone



the MacBook

Mac App Store

Shift-Command-S

MacBook

iPhone

more, specific documentation

managed

App Store subscriptions

and in-App-Purchases

more, specific documentation

managed

App Store subscriptions

and in-App-Purchases

Security and Privacy

PPPC

Security Extensions

Background Items

Network Relay

Managed Device Attestation

Aa

dis·as·ter | *dəˈzastər* |
‘ill-starred event’, from *dis-* + *astro* ‘star’

Software Update

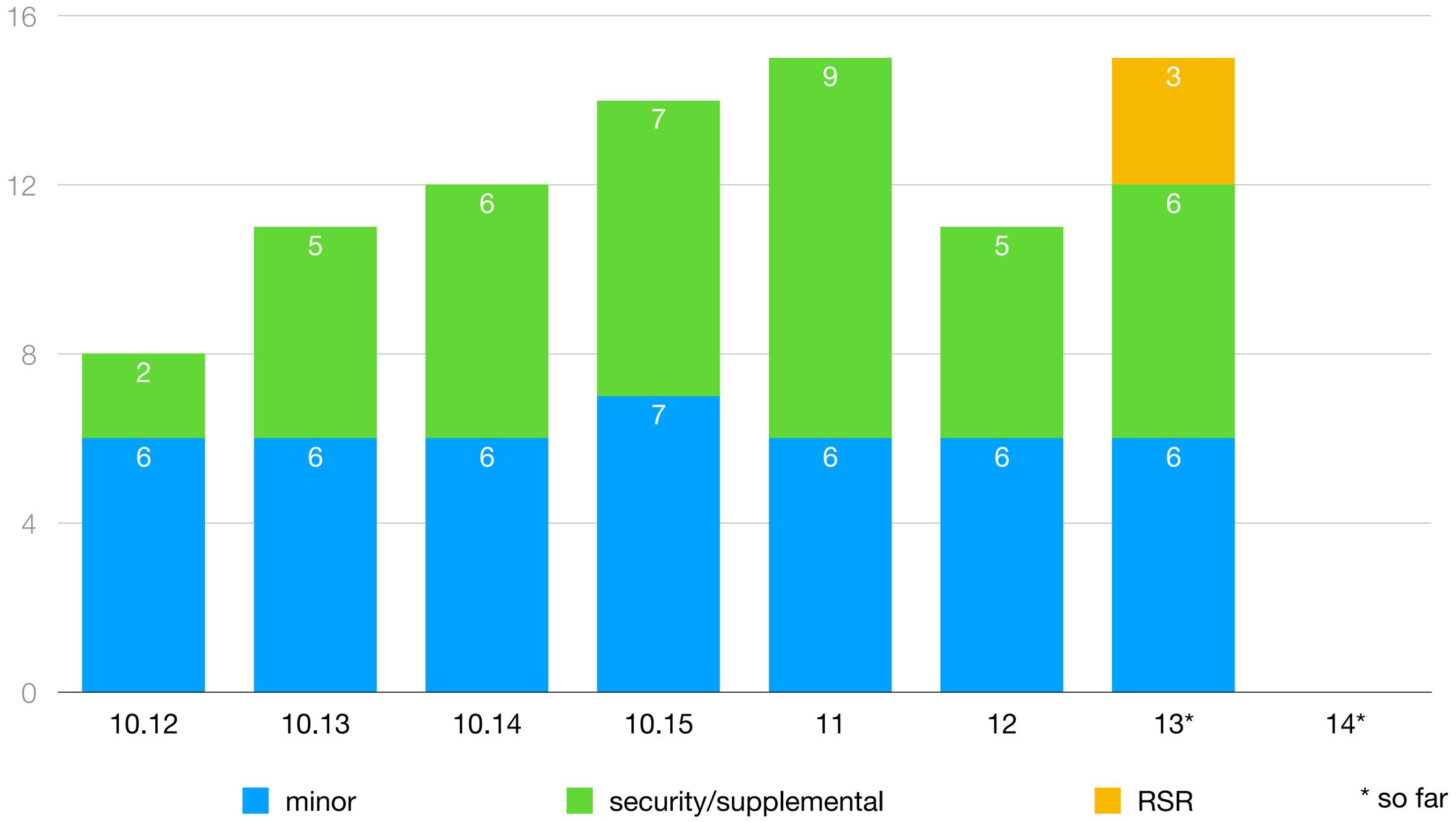
Nudge, super, erase-install

Rapid Security Updates

DDM workflow

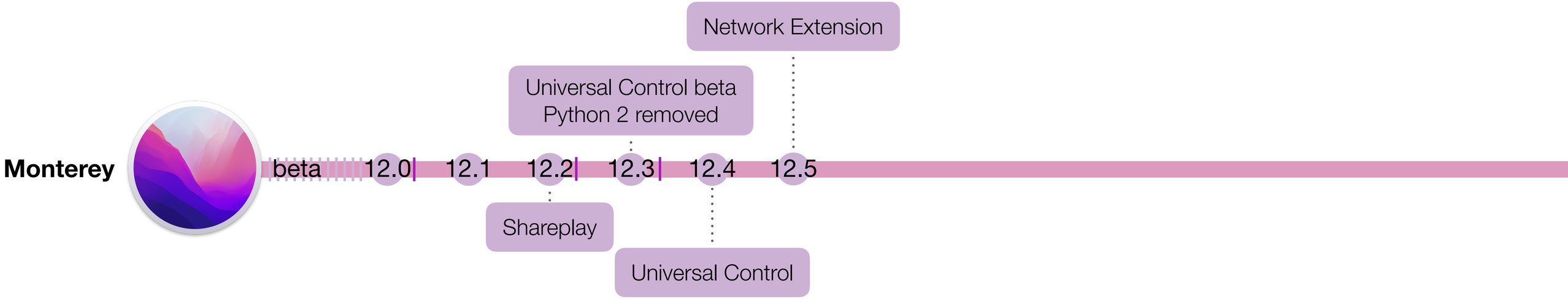
* so far

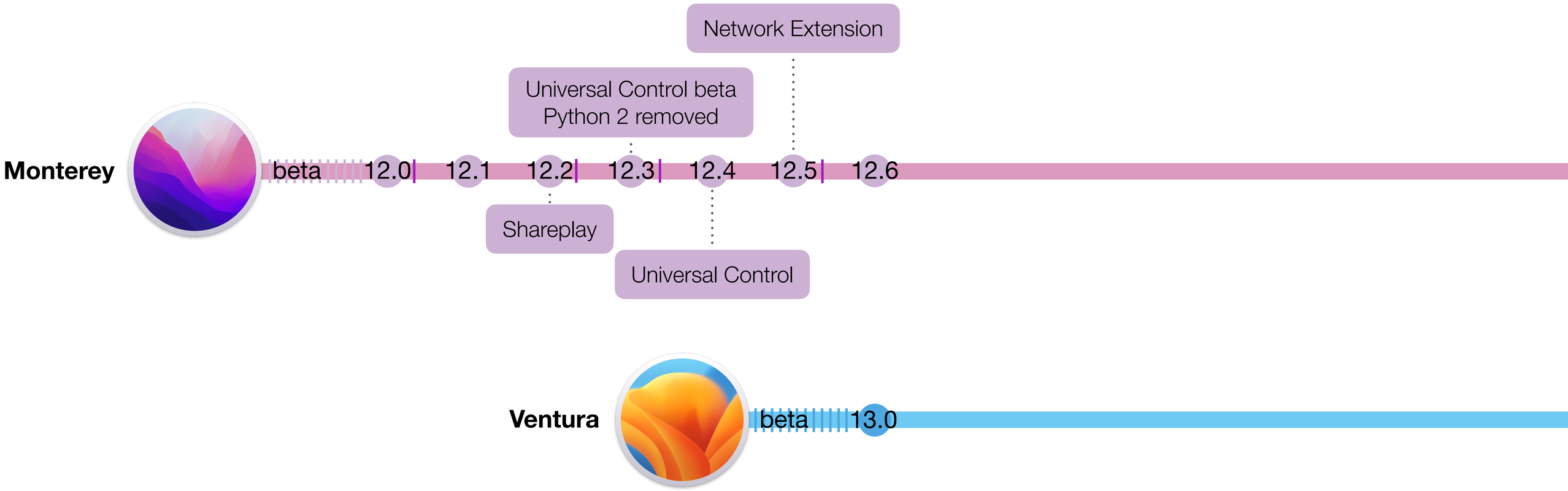
updates during first year after release

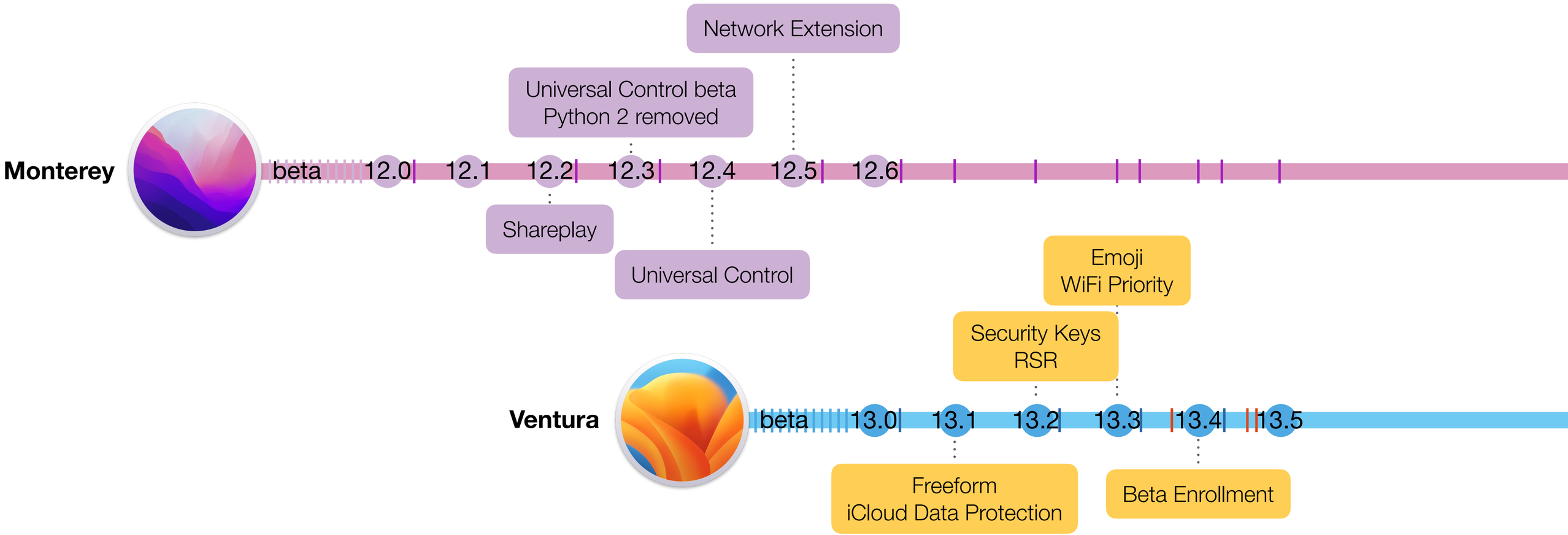


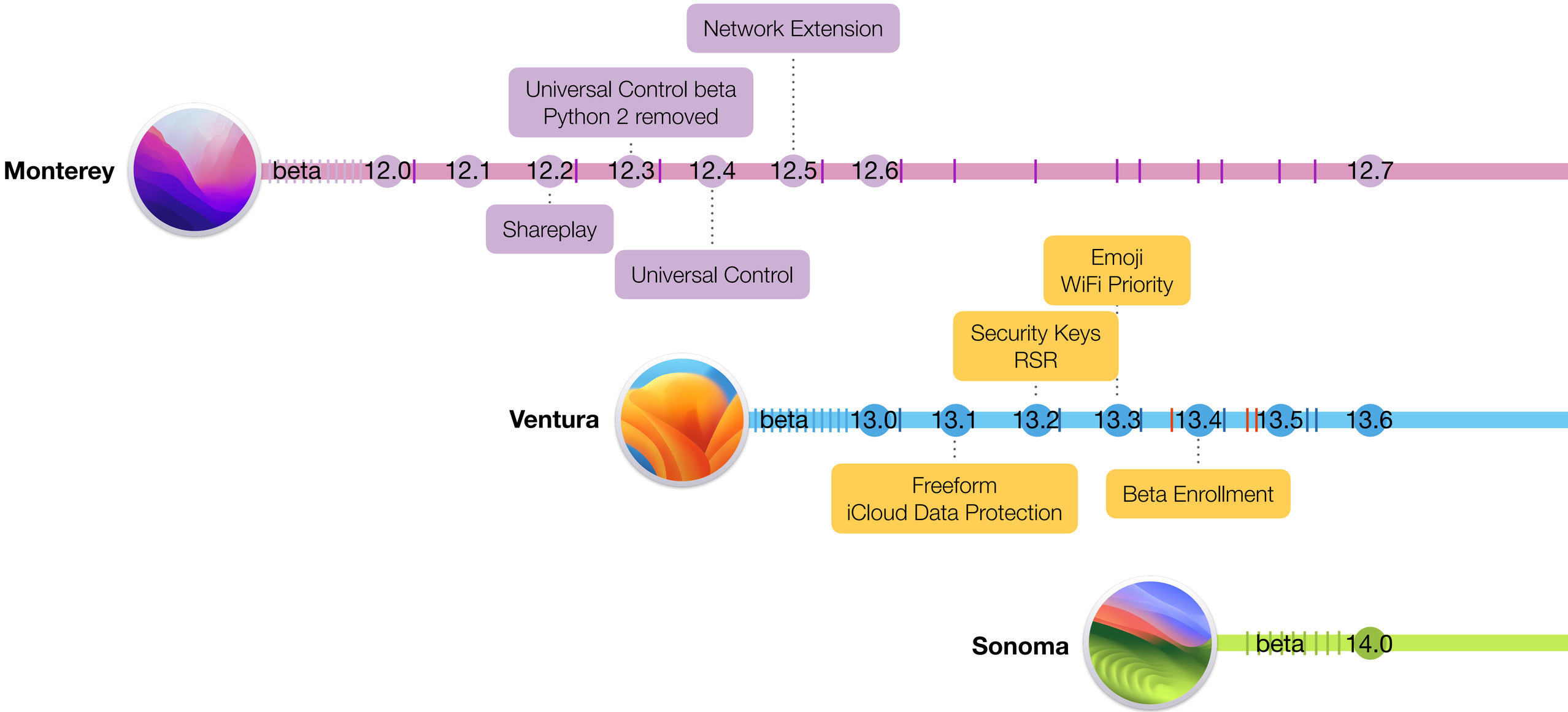
Monterey beta 12.0

Monterey
beta
12.0
12.1
12.2
Shareplay


Network Extension
Universal Control beta
Python 2 removed
Monterey
beta
12.0
12.1
12.2
12.3
12.4
12.5
Shareplay
Universal Control


Network Extension
Universal Control beta
Python 2 removed
Monterey
beta
12.0
12.1
12.2
12.3
12.4
12.5
12.6
Shareplay
Universal Control
Ventura
beta
13.0


Network Extension
Universal Control beta
Python 2 removed
Monterey
beta
12.0
12.1
12.2
12.3
12.4
12.5
12.6
Shareplay
Universal Control
Emoji
WiFi Priority
Security Keys
RSR
Ventura
beta
13.0
13.1
13.2
13.3
13.4
13.5
Freeform
iCloud Data Protection
Beta Enrollment


Network Extension
Universal Control beta
Python 2 removed
Monterey
beta
12.0
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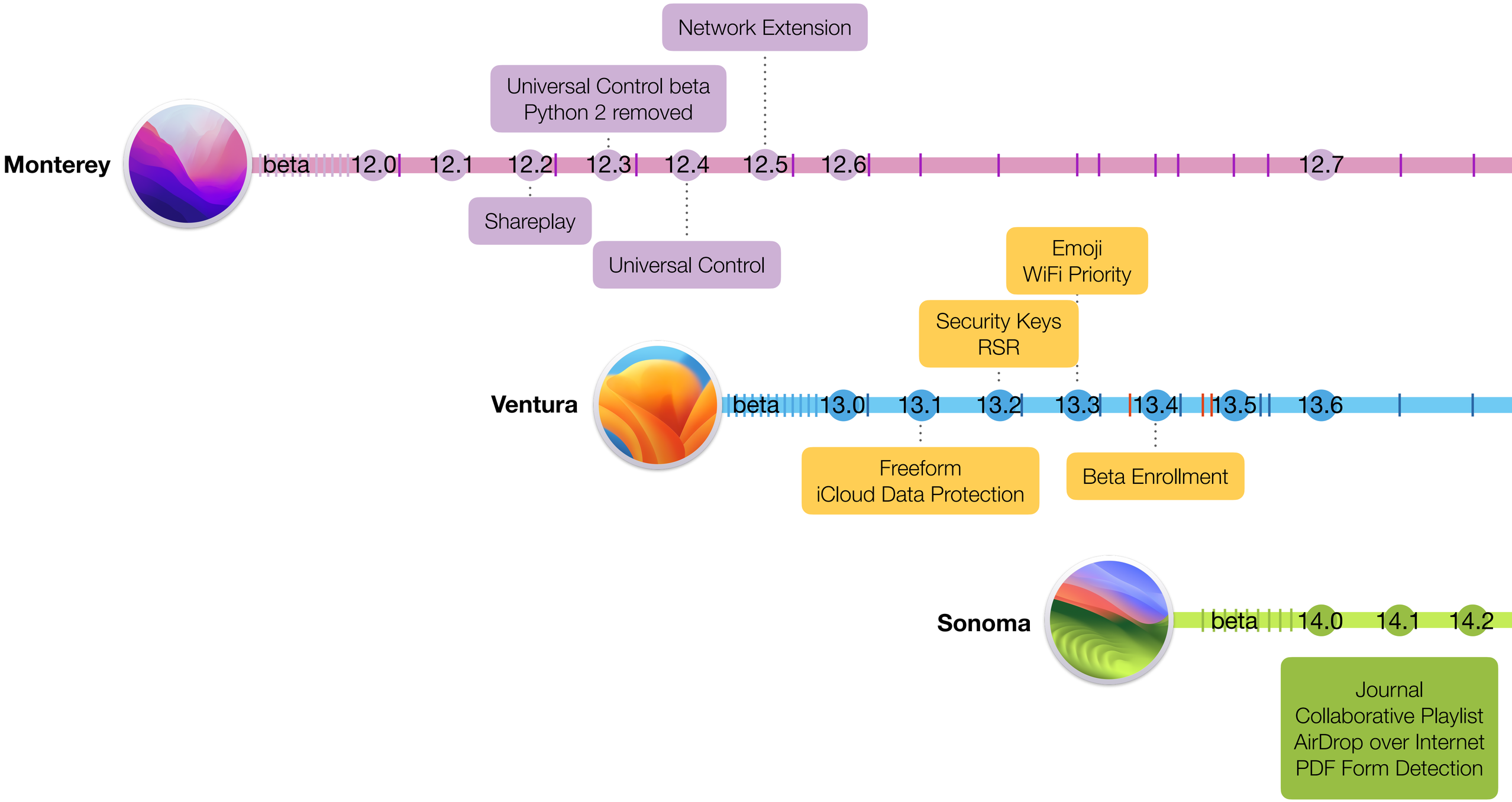
12.2
12.3
12.4
12.5
12.6
12.7
Shareplay
Universal Control
Emoji
WiFi Priority
Security Keys
RSR
Ventura
beta
13.0
13.1
13.2
13.3
13.4
13.5
13.6
Freeform
iCloud Data Protection
Beta Enrollment
Sonoma
beta
14.0


Monterey
beta
12.0
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12.4
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12.6
12.7
Network Extension
Universal Control beta
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Shareplay
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beta
13.0
13.1
13.2
13.3
13.4
13.5
13.6
Emoji
WiFi Priority
Security Keys
RSR
Freeform
iCloud Data Protection
Beta Enrollment
Sonoma
beta
14.0
14.1
14.2
Journal
Collaborative Playlist
AirDrop over Internet
PDF Form Detection

Freeform

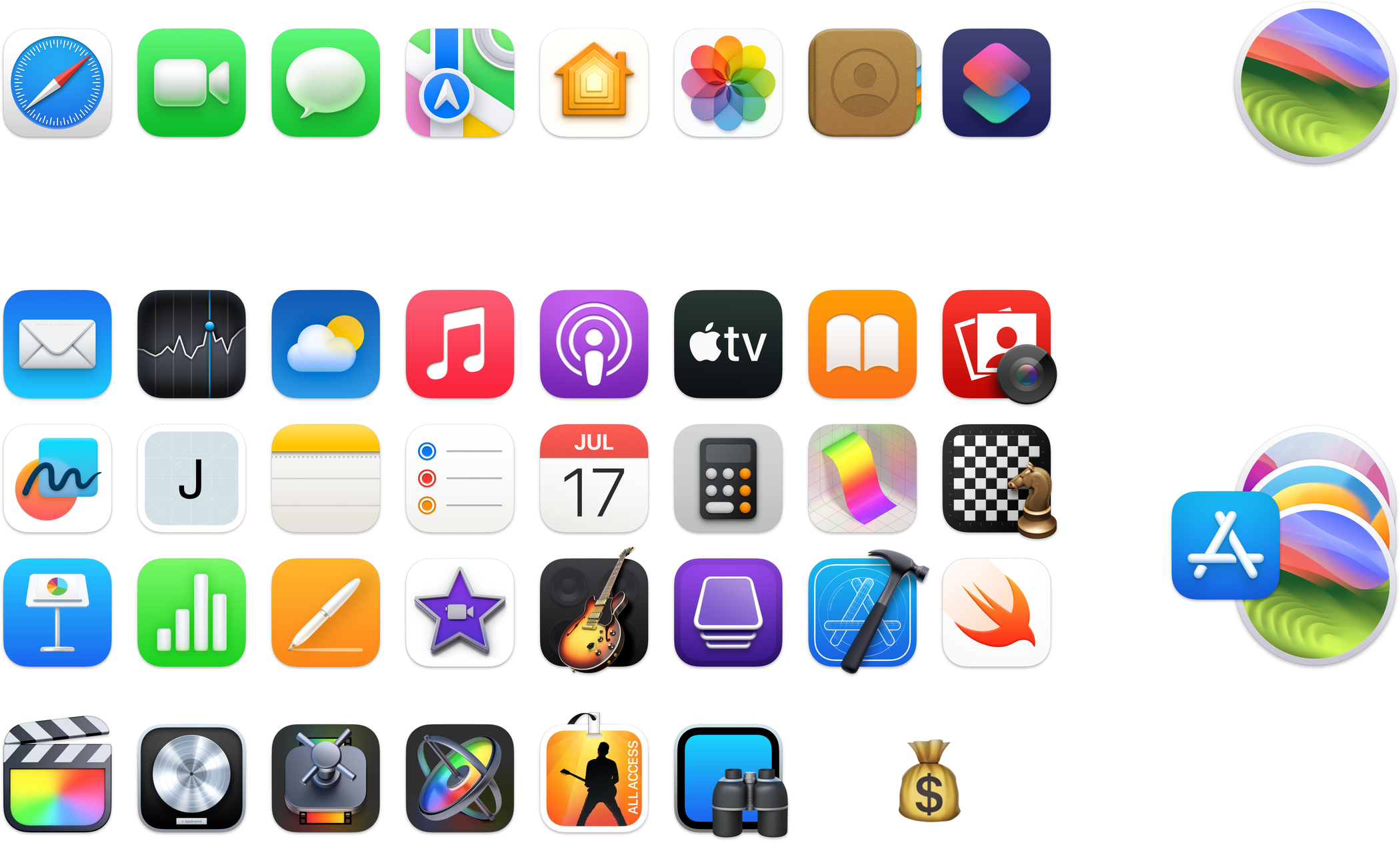
Journal

J

tv
J
JUL
17

tv
J
JUL
17

ALL ACCESS


tv
JUL
17
ALL ACCESS

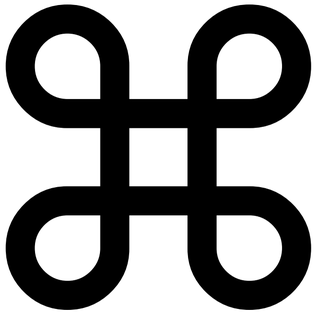
Zero day support

🐇 new features and hardware force rapid adoption

📅 continually test major and minor betas

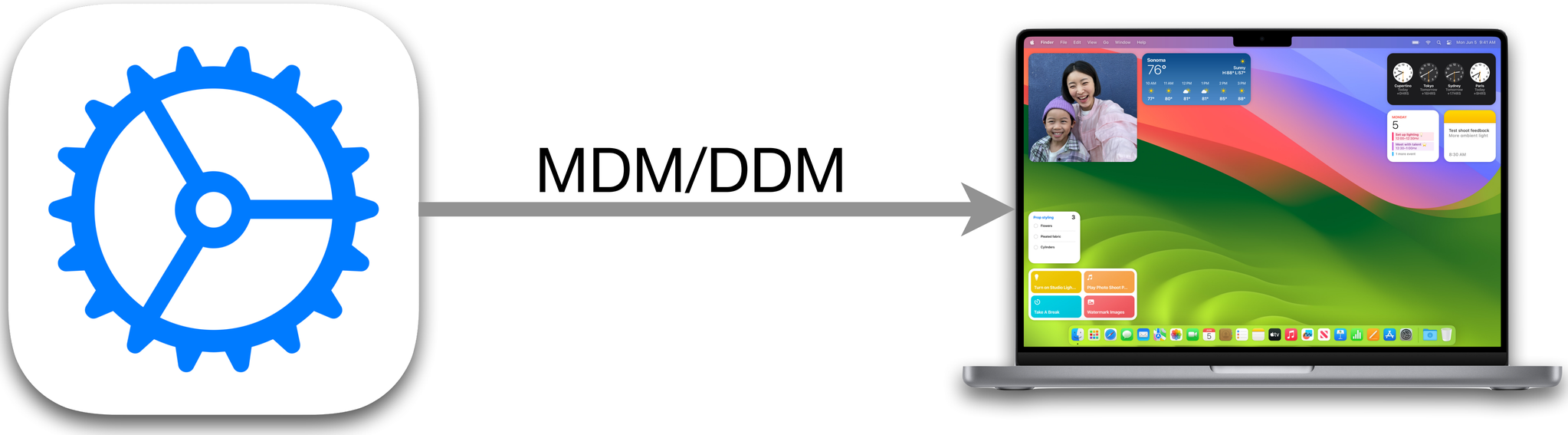
💾 third party software must keep up

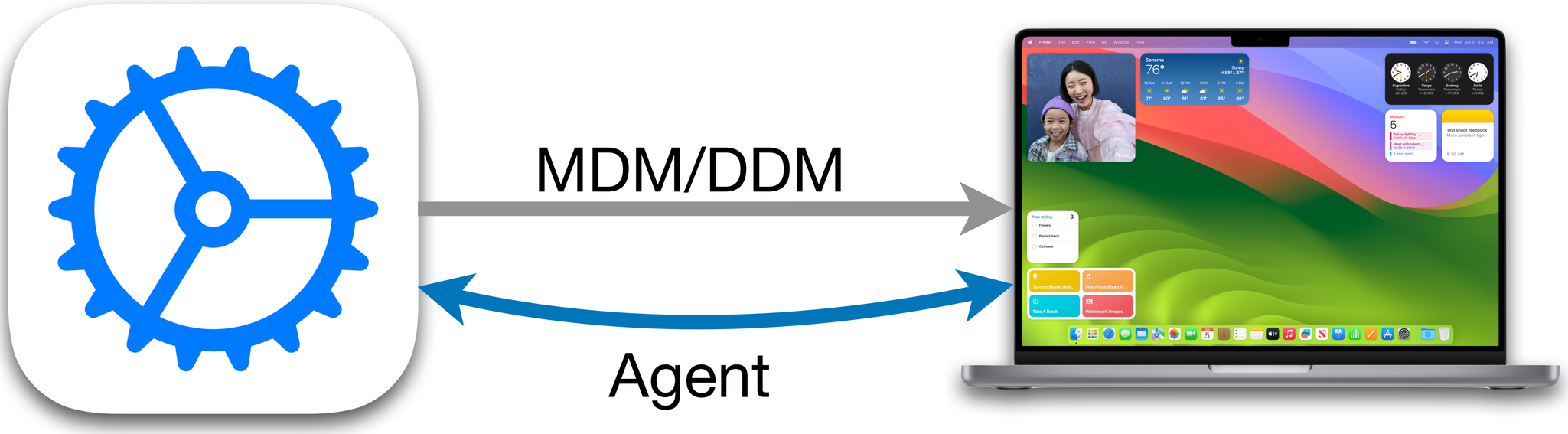
AppleSeed for IT



Commercial Tools

Finder File Edit View Go Window Help
Mon Jun 5 9:41 AM
Sonoma
76°
Sunny
H:88° L:57°
10 AM 11 AM 12 PM 1 PM 2 PM 3 PM
77° 80° 81° 81° 85° 88°
Cupertino
Tokyo
Sydney
Paris
MONDAY
5
Set up lighting
Meet with talent
1 more event
Test shoot feedback
More ambient light
8:30 AM
Prop styling
3
Flowers
Pleated fabric
Cylinders
Turn on Studio Ligh...
Play Photo Shoot P...
Take A Break
Watermark Images


MDM/DDM

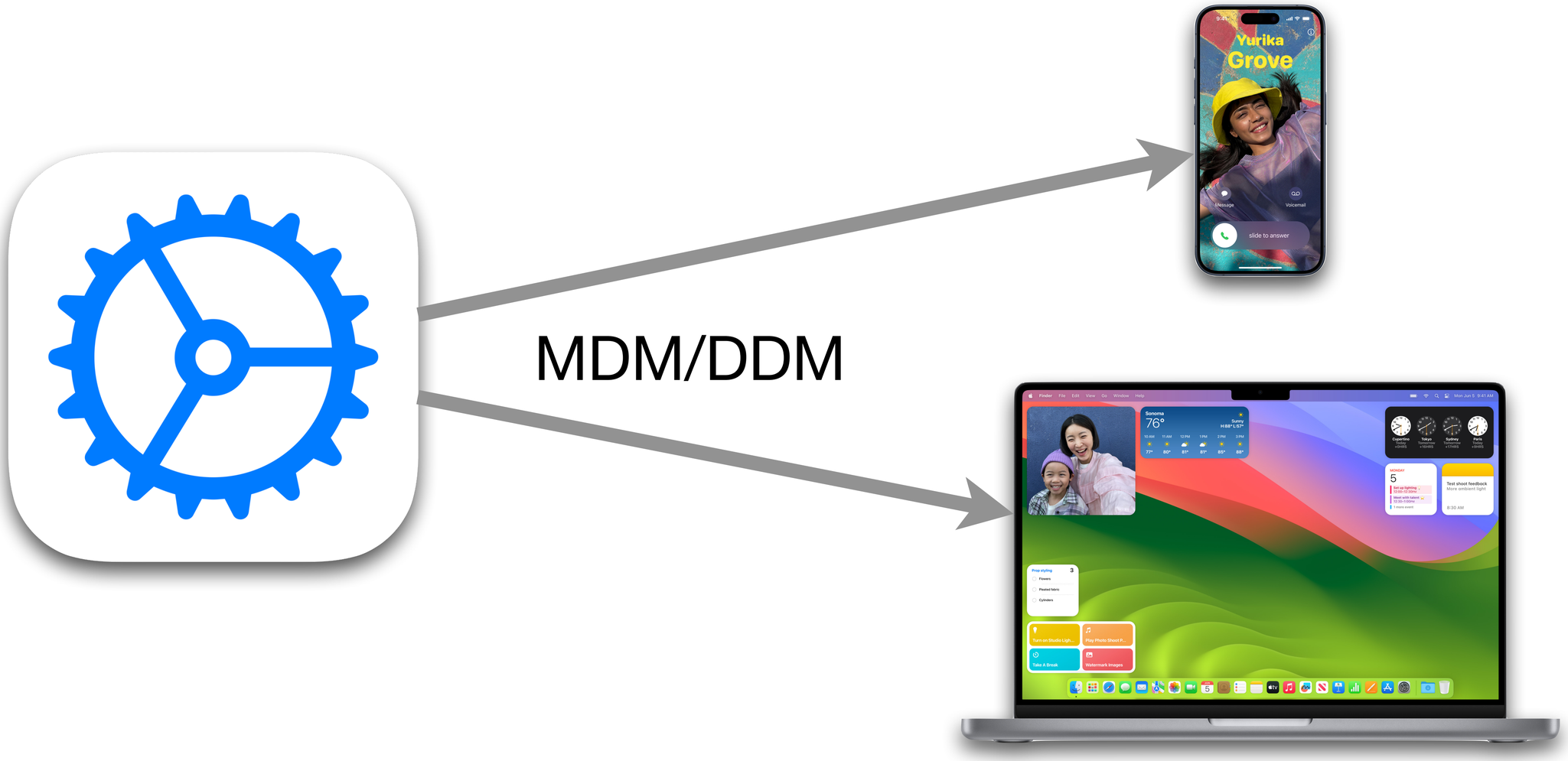

MDM/DDM
Agent

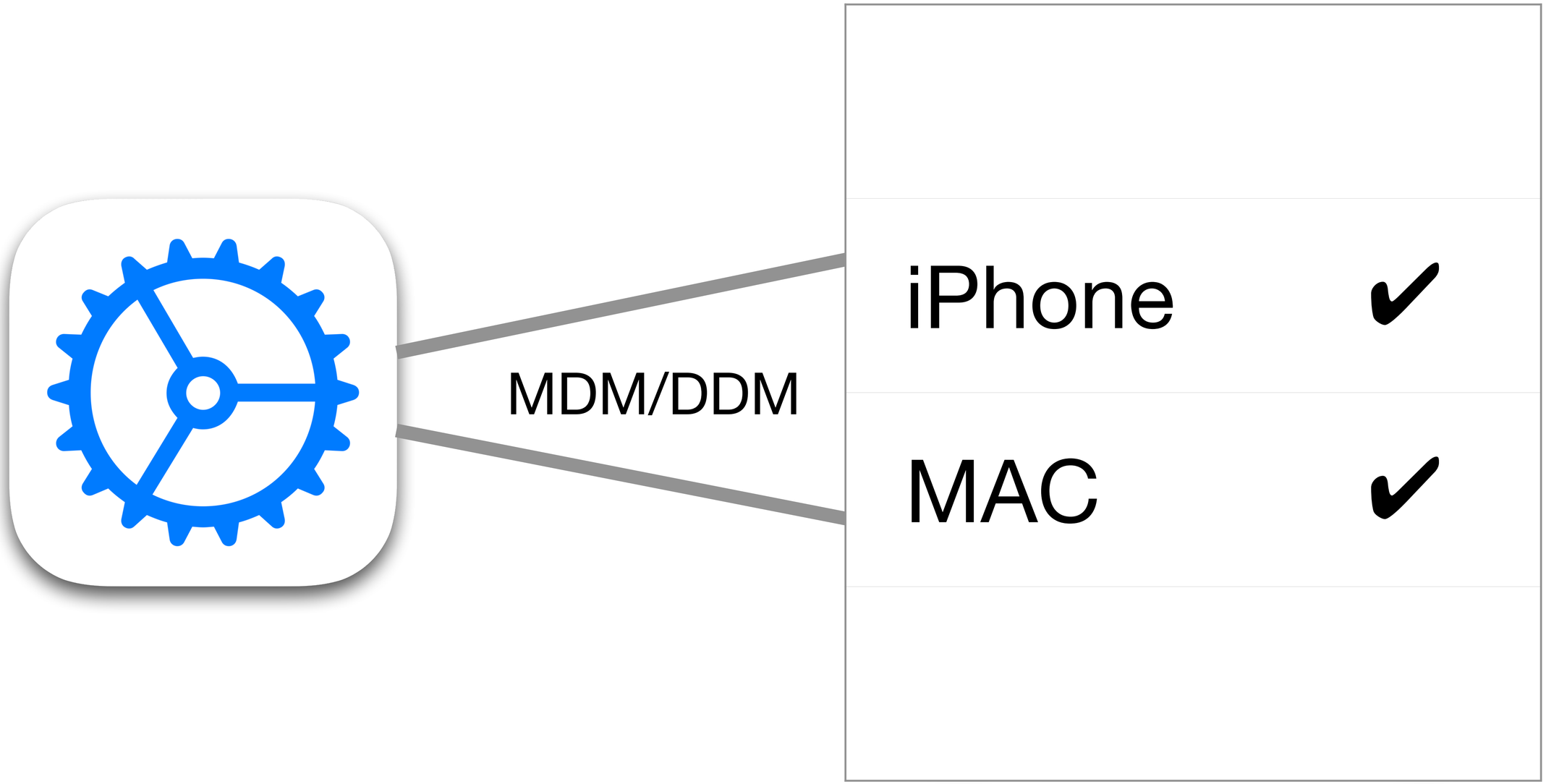
Management Systems

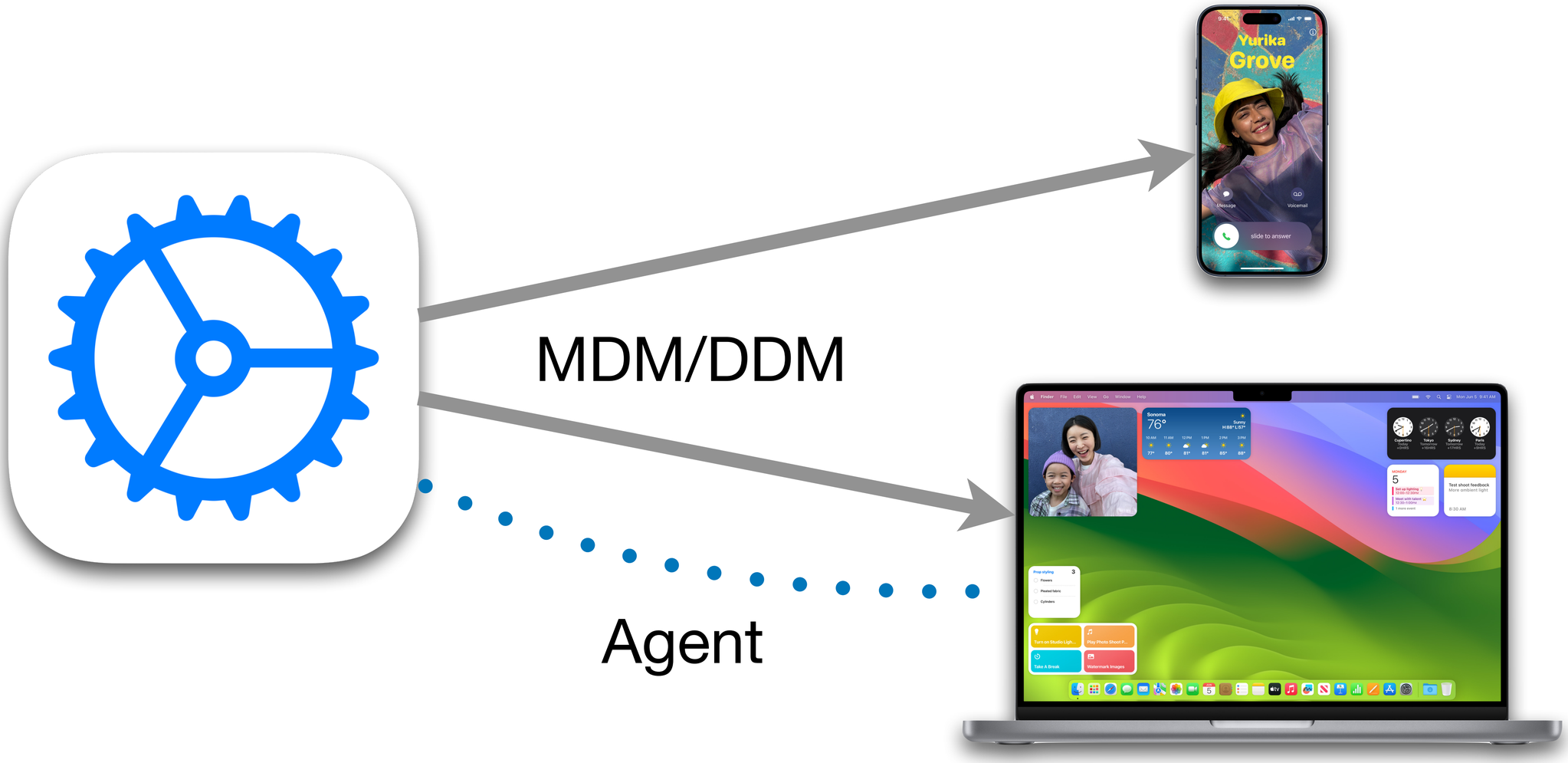
Management Systems

Yurika
Grove
iMessage
Voicemail
slide to answer

Finder
File
Edit
View
Go
Window
Help
Mon Jun 5 9:41 AM
Sonoma
76°
Sunny
H:88° L:57°
Cupertino
Tokyo
Sydney
Paris
MONDAY
5
Test shoot feedback
More ambient light
8:30 AM
Prop styling
3
Flowers
Pleated fabric
Cylinders
Turn on Studio Ligh...
Play Photo Shoot P...
Take A Break
Watermark Images

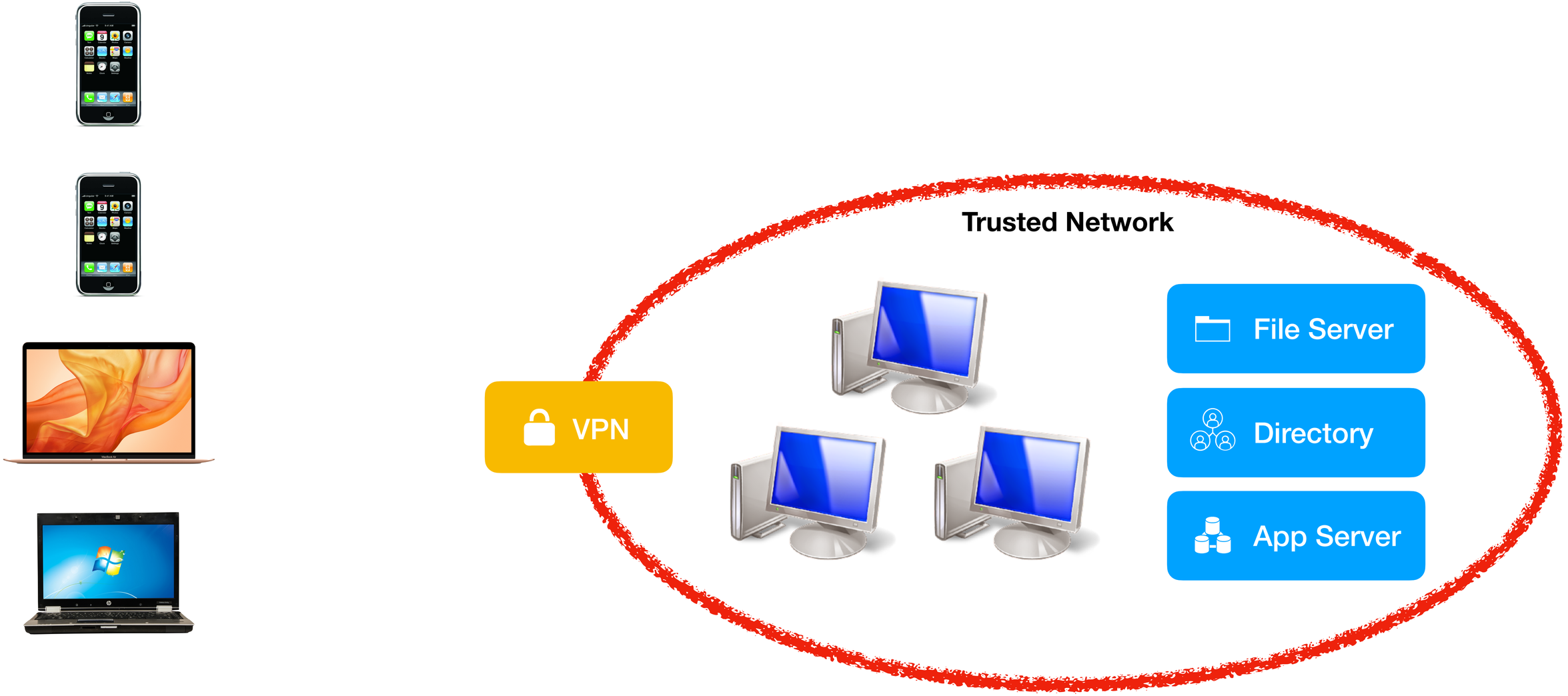

MDM/DDM
Yurika
Grove
slide to answer


MDM/DDM
iPhone ✔
MAC ✔

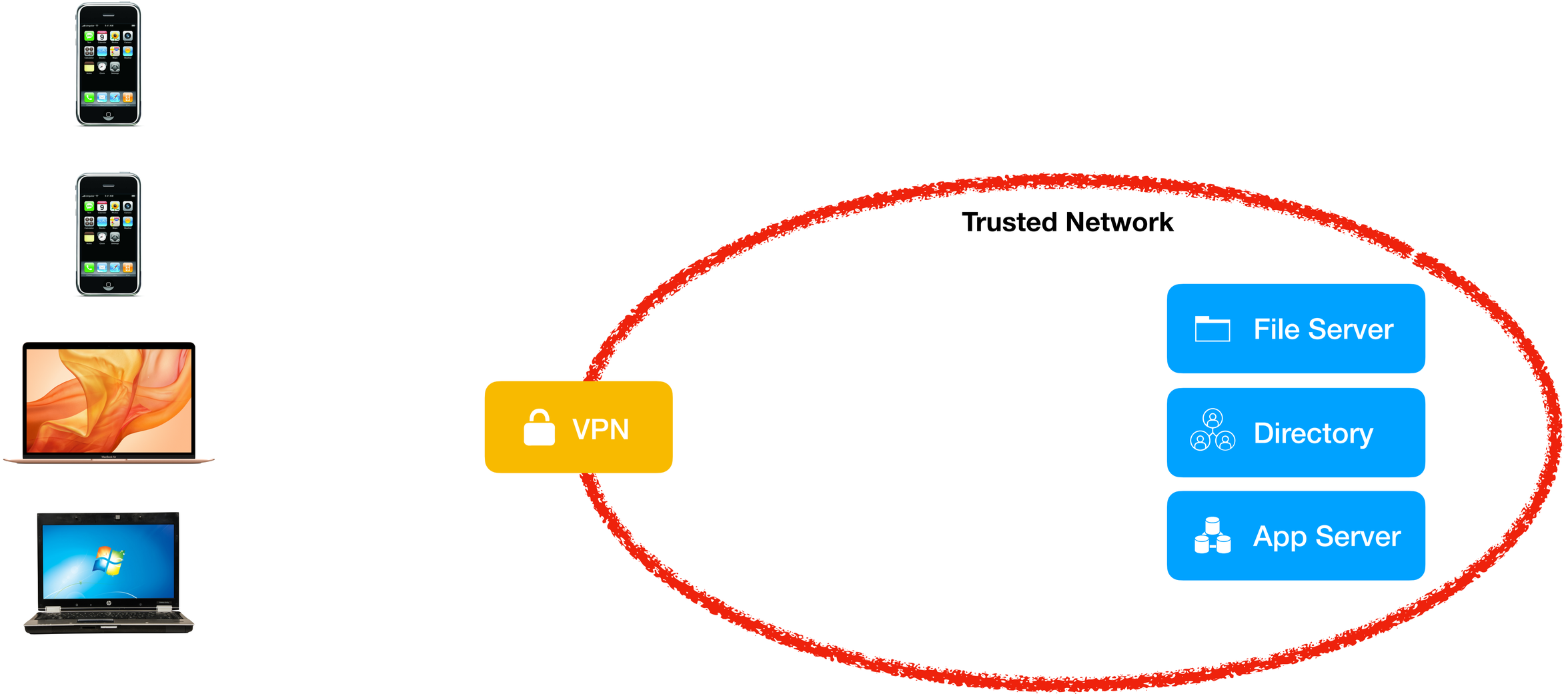

Yurika
Grove
slide to answer
MDM/DDM
Agent

File Server
Directory
App Server

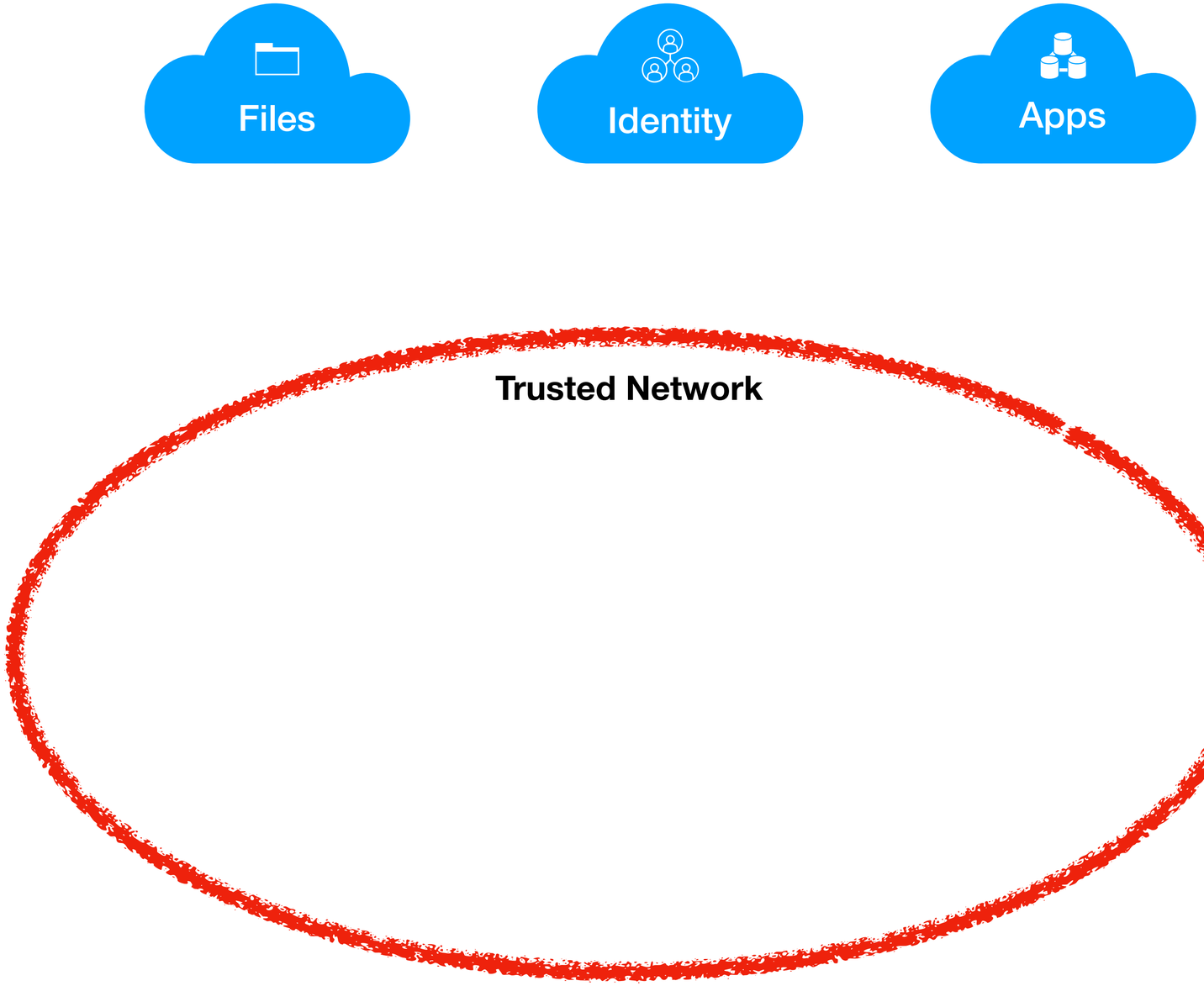
Untrusted Networks



Untrusted Networks



Untrusted Networks



Files

Identity

Apps

Files

Identity

Apps

Network Access

Management

Network Access

Security

Files

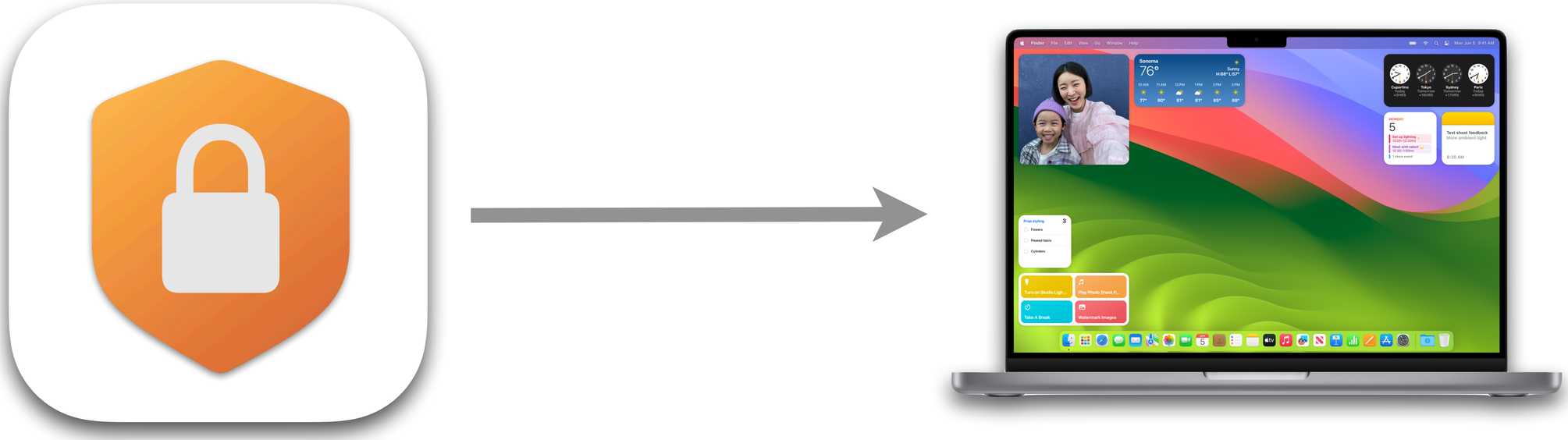
Identity

Apps

jamf | PRO

jamf | CONNECT

jamf | PROTECT


Finder File Edit View Go Window Help
Mon Jun 5 9:41 AM
Sonoma
76°
Sunny
H:88° L:57°
10 AM 11 AM 12 PM 1 PM 2 PM 3 PM
77° 80° 81° 81° 85° 88°
Cupertino
Tokyo
Sydney
Paris
MONDAY
5
Set up lighting
Meet with talent
1 more event
Test shoot feedback
More ambient light
8:30 AM
Prop styling
3
Flowers
Pleated fabric
Cylinders
Turn on Studio Ligh...
Play Photo Shoot P...
Take A Break
Watermark Images

Security Tools

Security Tools

macOS Security Compliance

macOS Security Compliance

Jamf Compliance Editor

⬆️Restrictions

🔘Security

~~Restrictions~~

Security

Life...finds a way.

The user ...finds a way.

~~Restrictions~~

Security

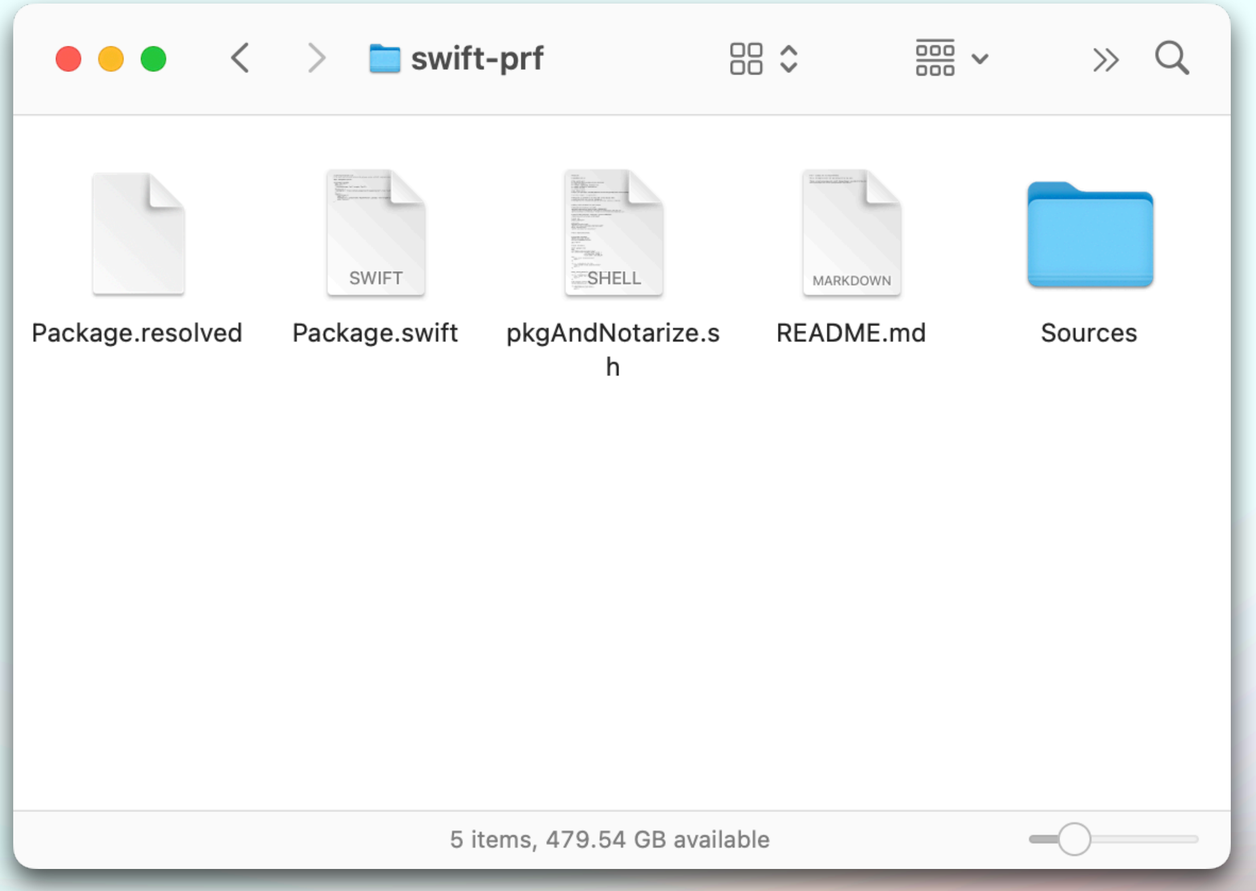
⬆️Protection

⬆️Guidance

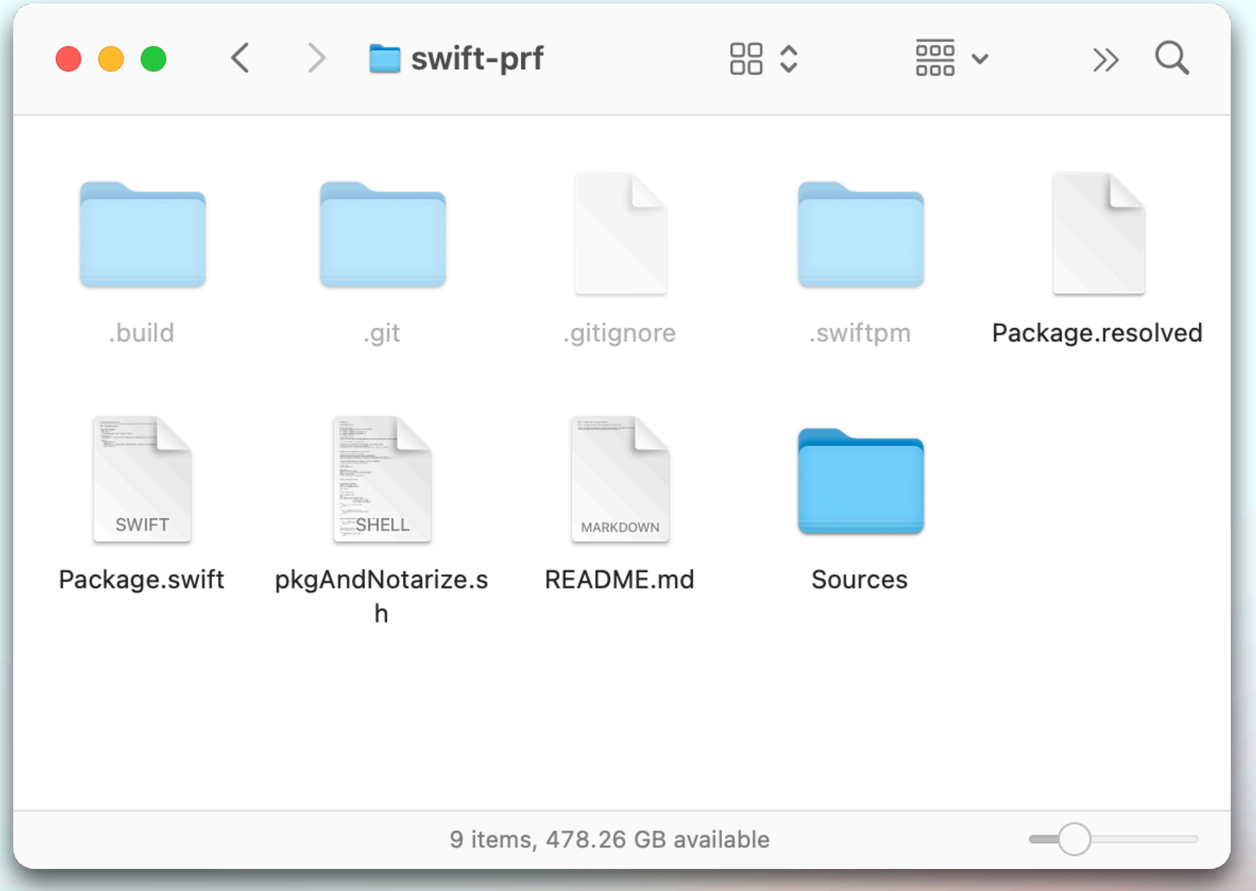
⬆️Ease of use

⬆️Security

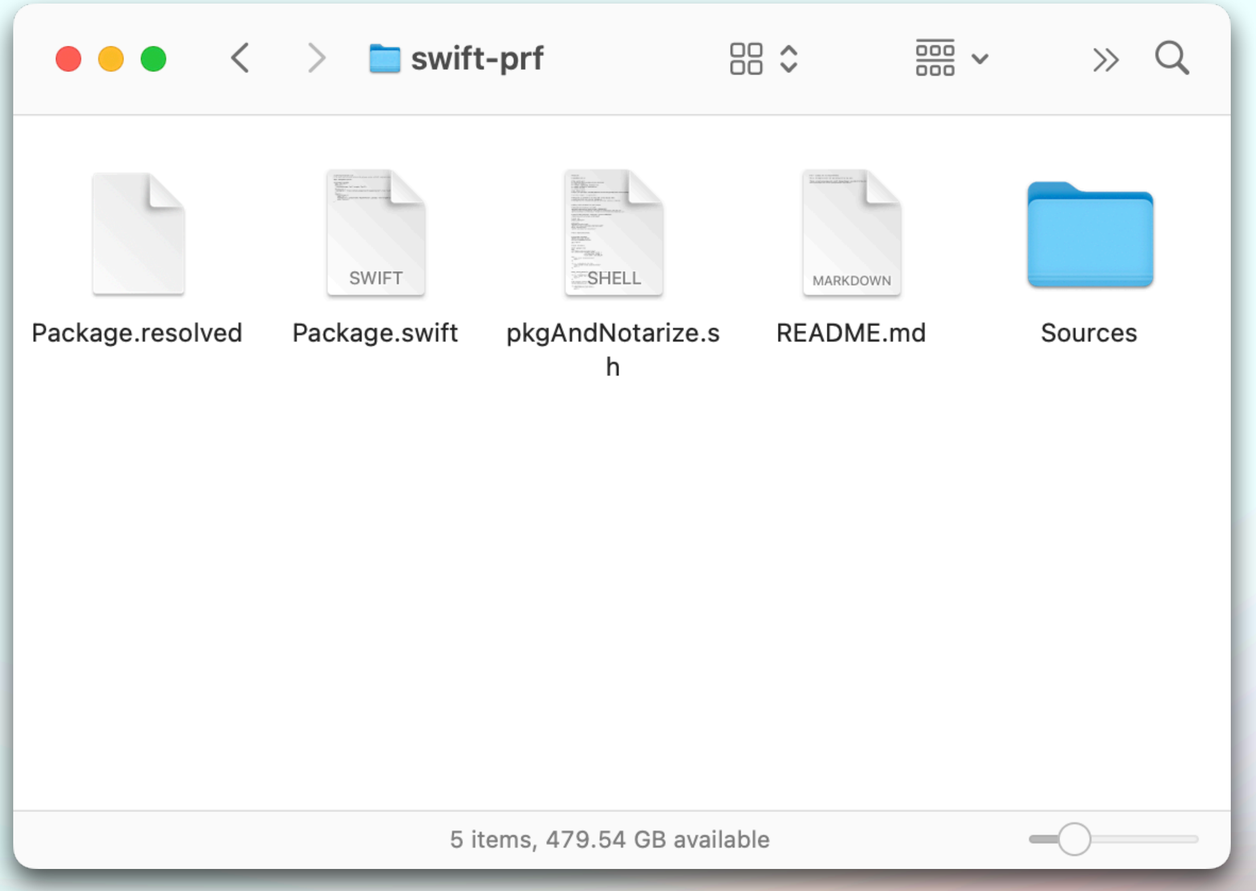
Commercial Tools


swift-prf
SWIFT
SHELL
MARKDOWN
Package.resolved
Package.swift
pkgAndNotarize.sh
README.md
Sources
5 items, 479.54 GB available

⇧⌘-dot

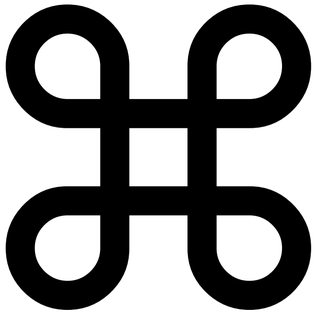

swift-prf
.build
.git
.gitignore
.swiftpm
Package.resolved
SWIFT
Package.swift
SHELL
pkgAndNotarize.sh
MARKDOWN
README.md
Sources
9 items, 478.26 GB available

⇧⌘-dot


swift-prf
SWIFT
SHELL
MARKDOWN
Package.resolved
Package.swift
pkgAndNotarize.sh
README.md
Sources
5 items, 479.54 GB available

⇧⌘-dot

Commercial Tools



Community and Open Source

MAC ADMINS FOUNDATION

MAC ADMINS FOUNDATION

MAC ADMINS FOUNDATION

MAC ADMINS FOUNDATION

Nudge

Swift Outset

Munki

Python

Python Jamf Pro SDK

Escrow Buddy

Python

Python 2 removed in 12.3

don't use Xcode Python 3

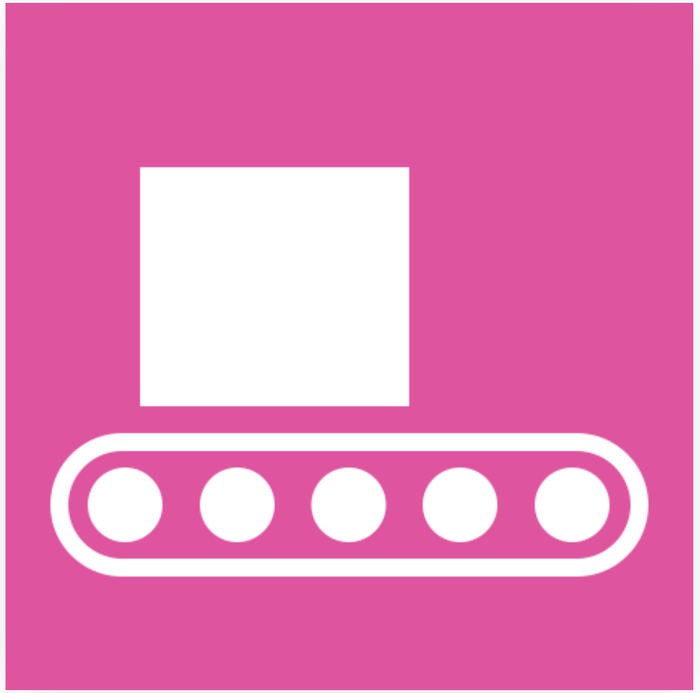
"Bring your own Python"

macadmins/python

Perl

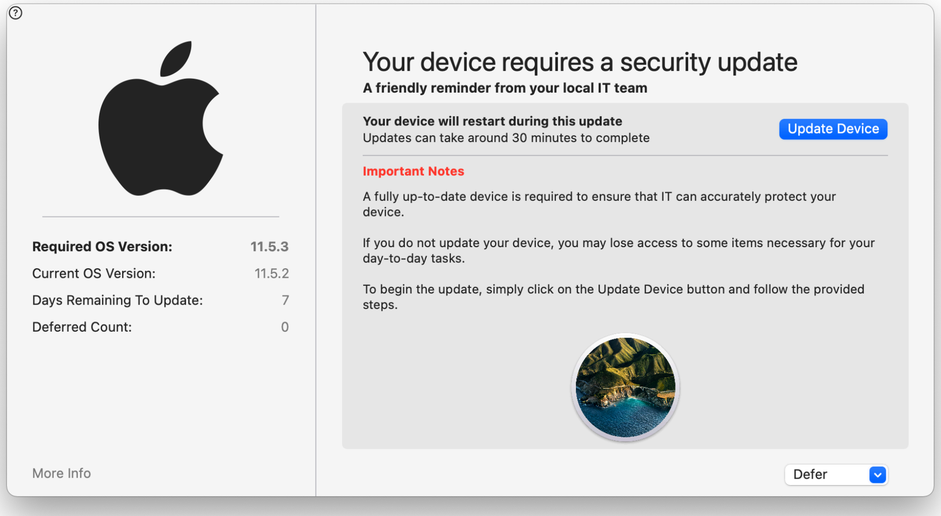
Ruby

Munki

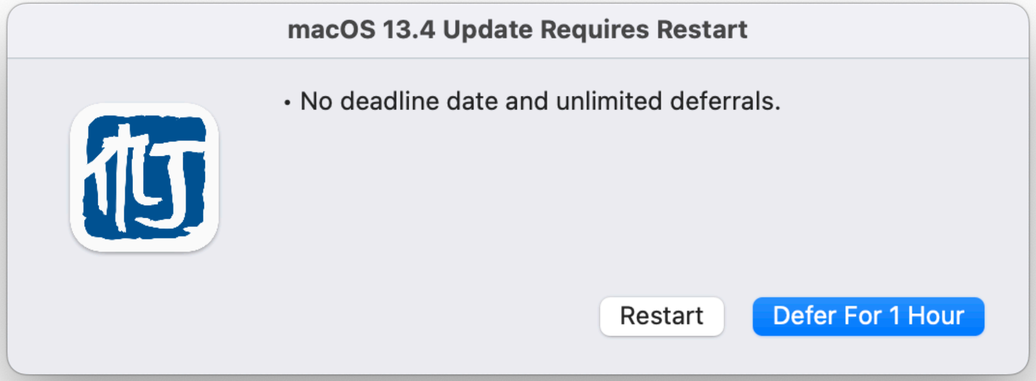


AutoPkg

Software Update



Nudge



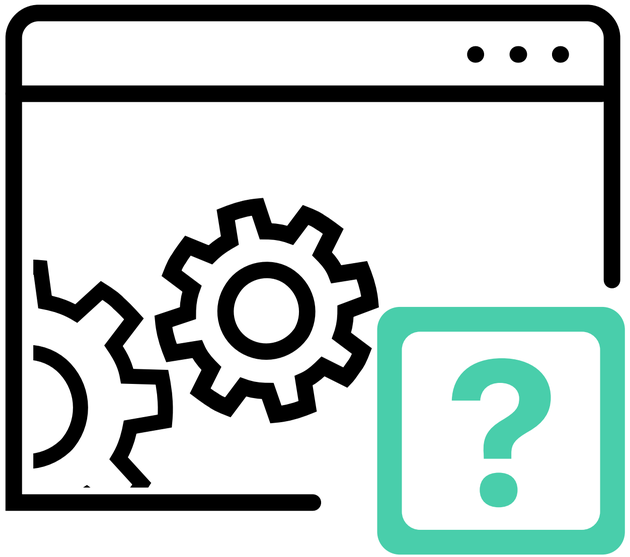
S.U.P.E.R.M.A.N.

erase-install

updates, upgrade,
and erase-install workflows

full installer

from Big Sur and older

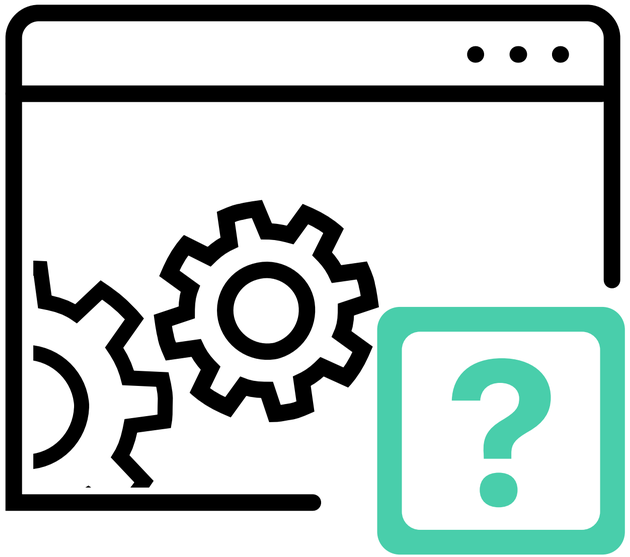


Installomator

download, verify, and install

zsh script

600+ applications



Installomator

download, verify, and install

zsh script

600+ applications

python™

zsh sh bash

python™

Native App advantages

PPPC

background items

sign and notarize

notifications

extensions

Swift Outset

native re-write

one login time for all

signed and notarized

PPPC

Swift Dialog

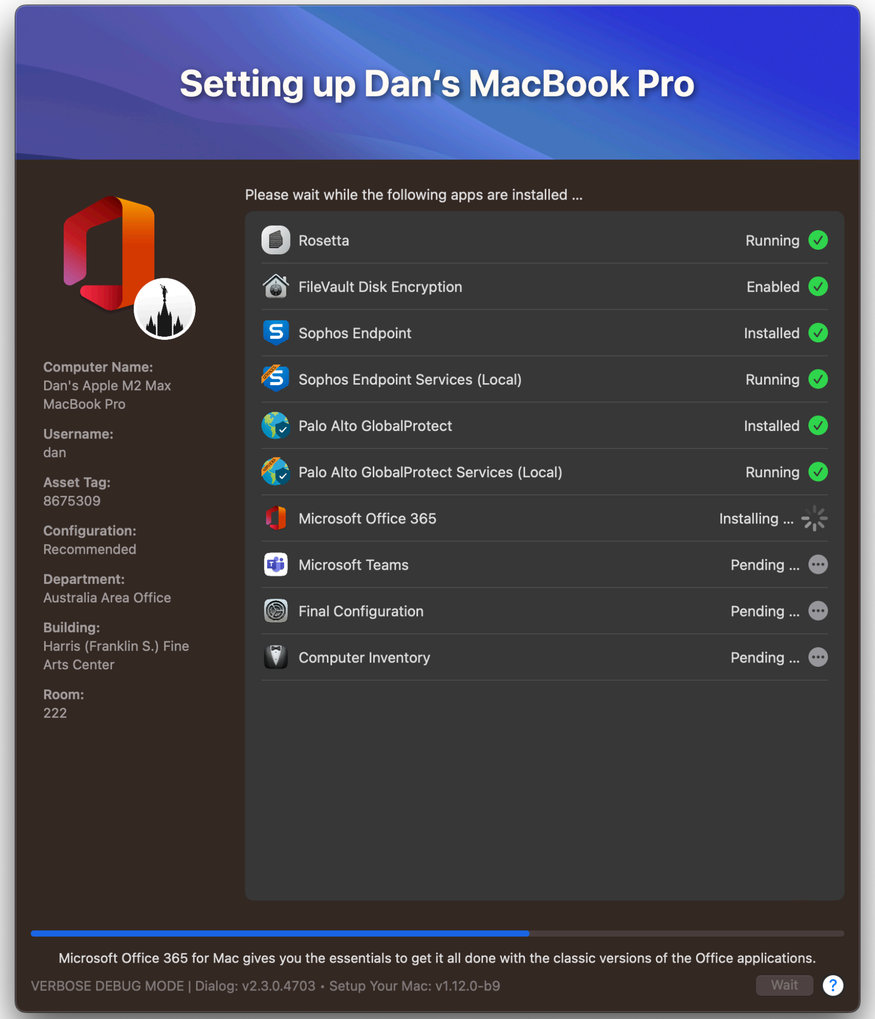
Swift Dialog

erase-install

Swift Dialog

erase-install

Setup-Your-Mac

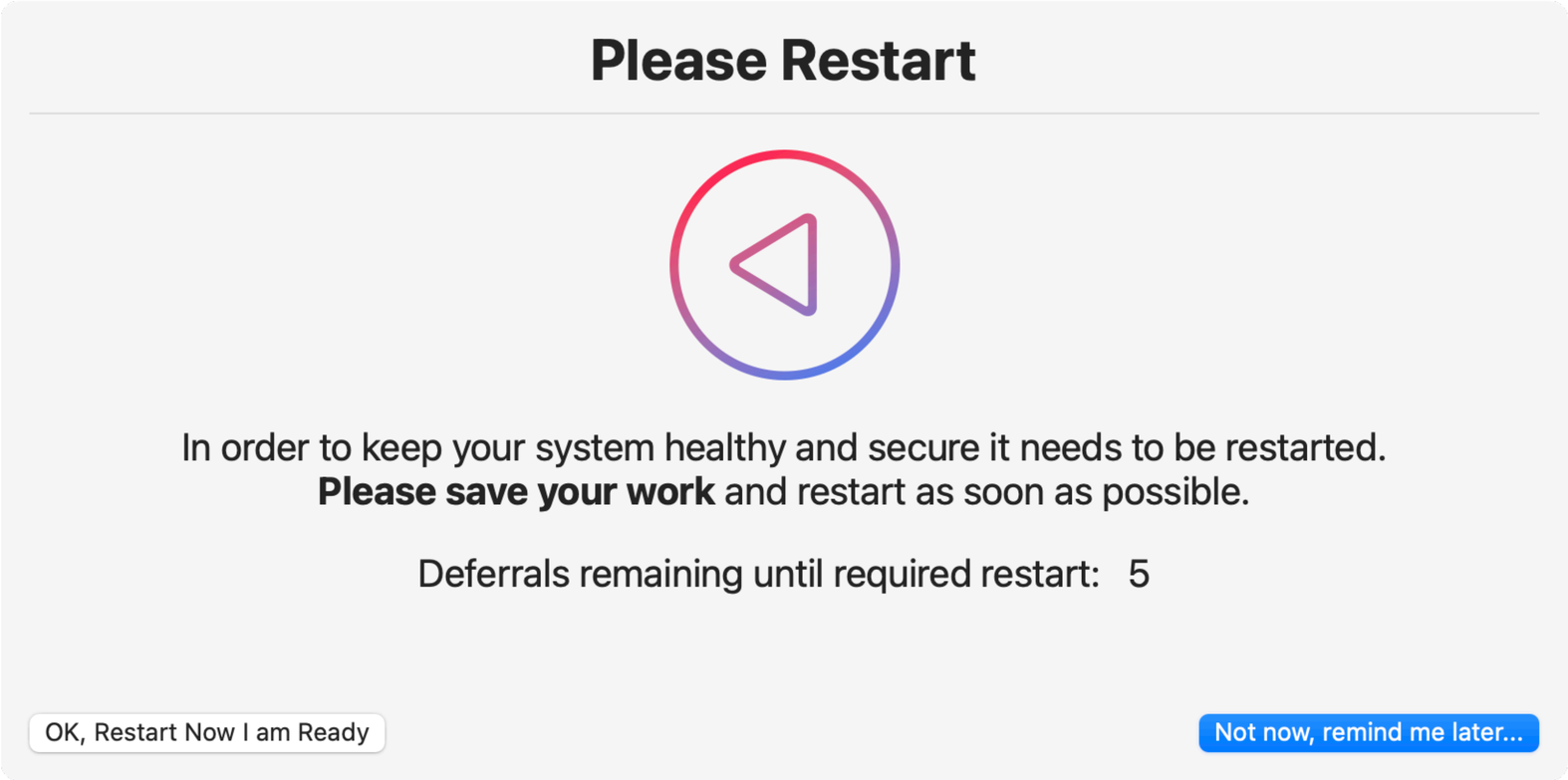


Swift Dialog

erase-install

Setup-Your-Mac

Renew



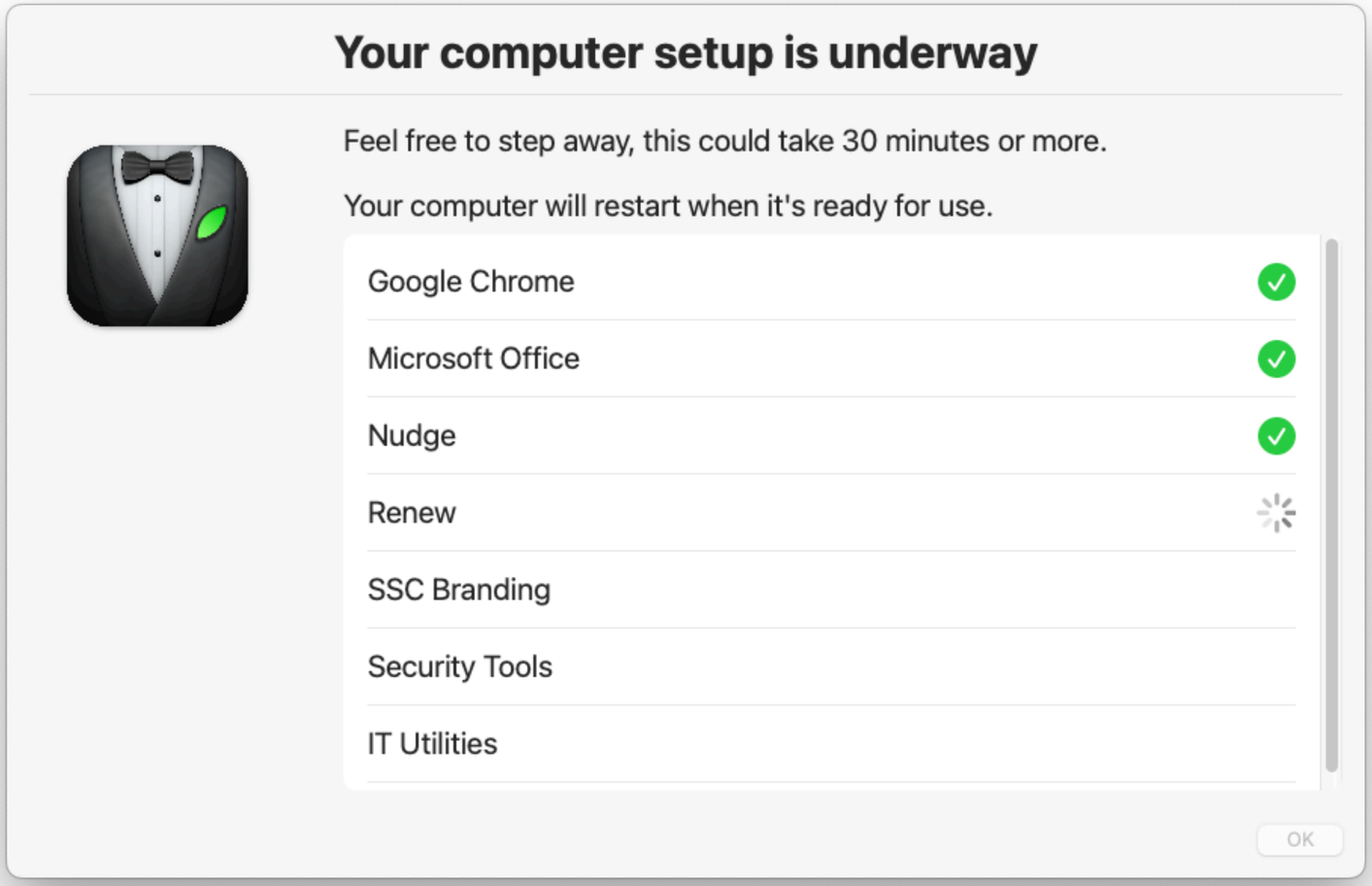
Swift Dialog

erase-install

Setup-Your-Mac

Renew

Baseline



Swift Dialog

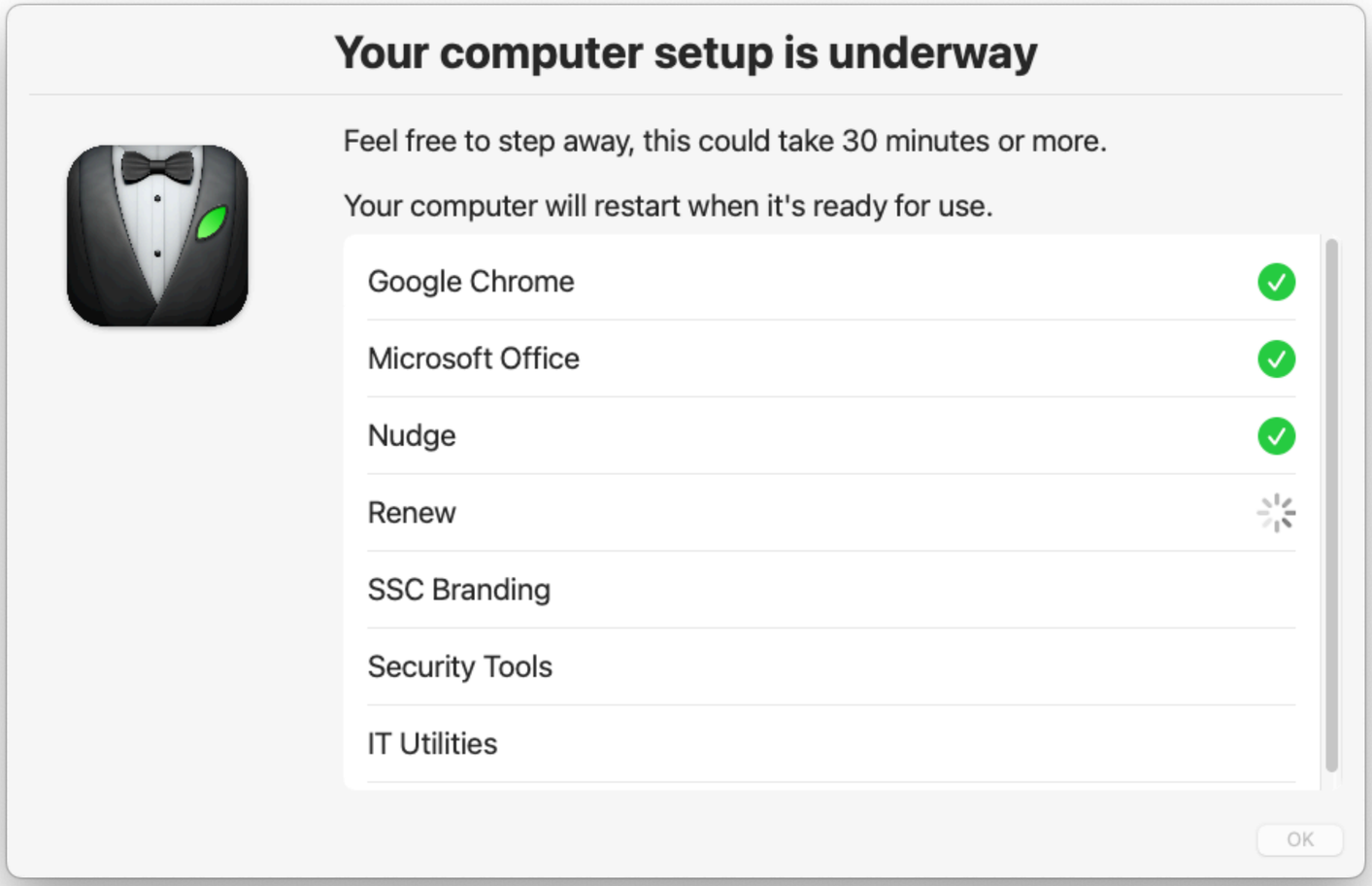
erase-install

Setup-Your-Mac

Renew

Baseline

Installomator



Swift Dialog

super

erase-install

Setup-Your-Mac

Renew

Baseline

Installomator

Swift Dialog

super

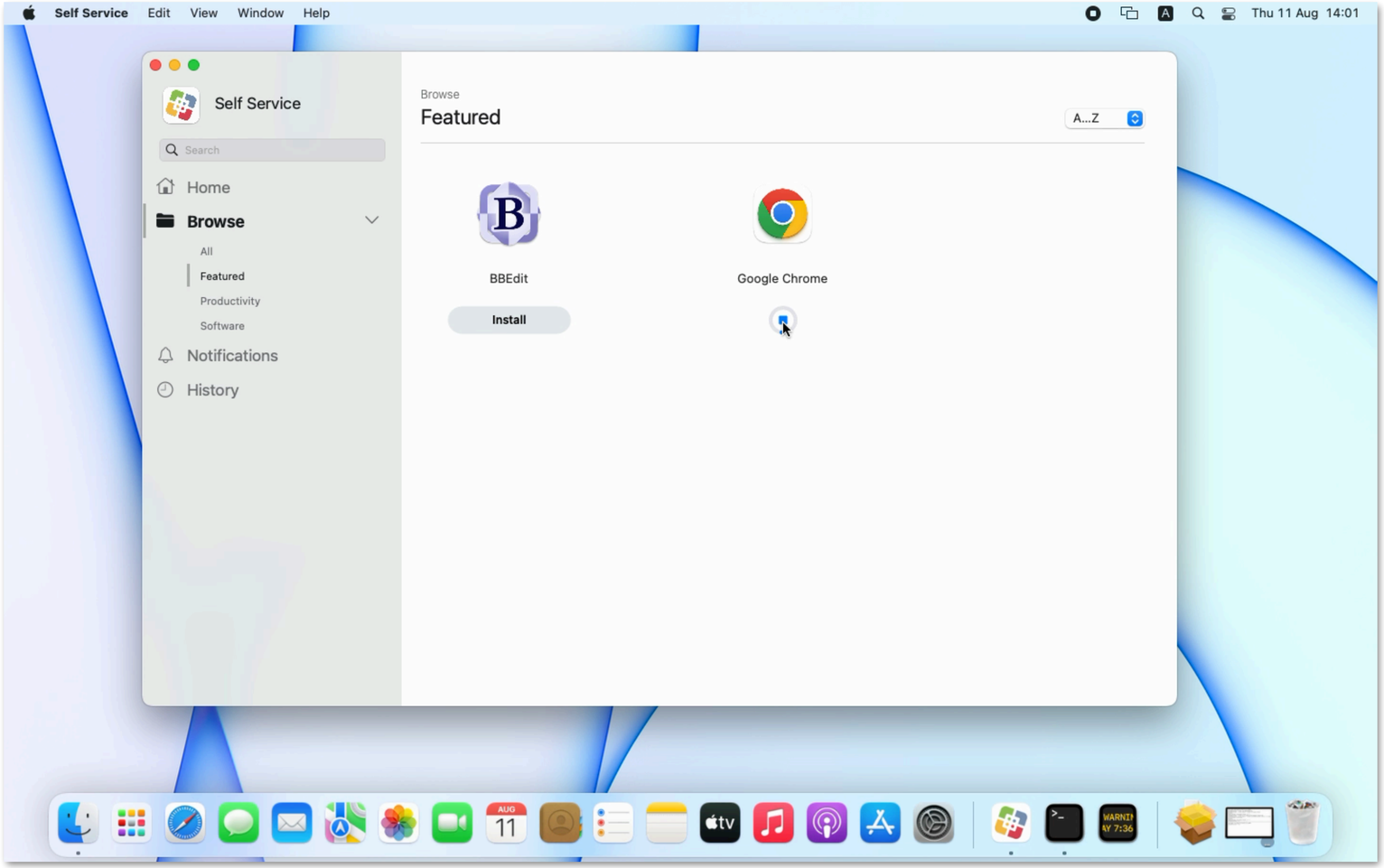
erase-install

Setup-Your-Mac

Renew

Baseline

Installomator



Community

Mac Admins Foundation

Munki

AutoPkg

Swift Dialog

zsh

sh

bash

micromdm/nanomdm

Python

Swift

SwiftUI

outset

Installomator

Setup-your-Mac

Baseline

Setup Manager

Community

Mac Admins Foundation

Munki

AutoPkg

Swift Dialog

zsh

sh

bash

micromdm/nanomdm

Python

Swift

SwiftUI

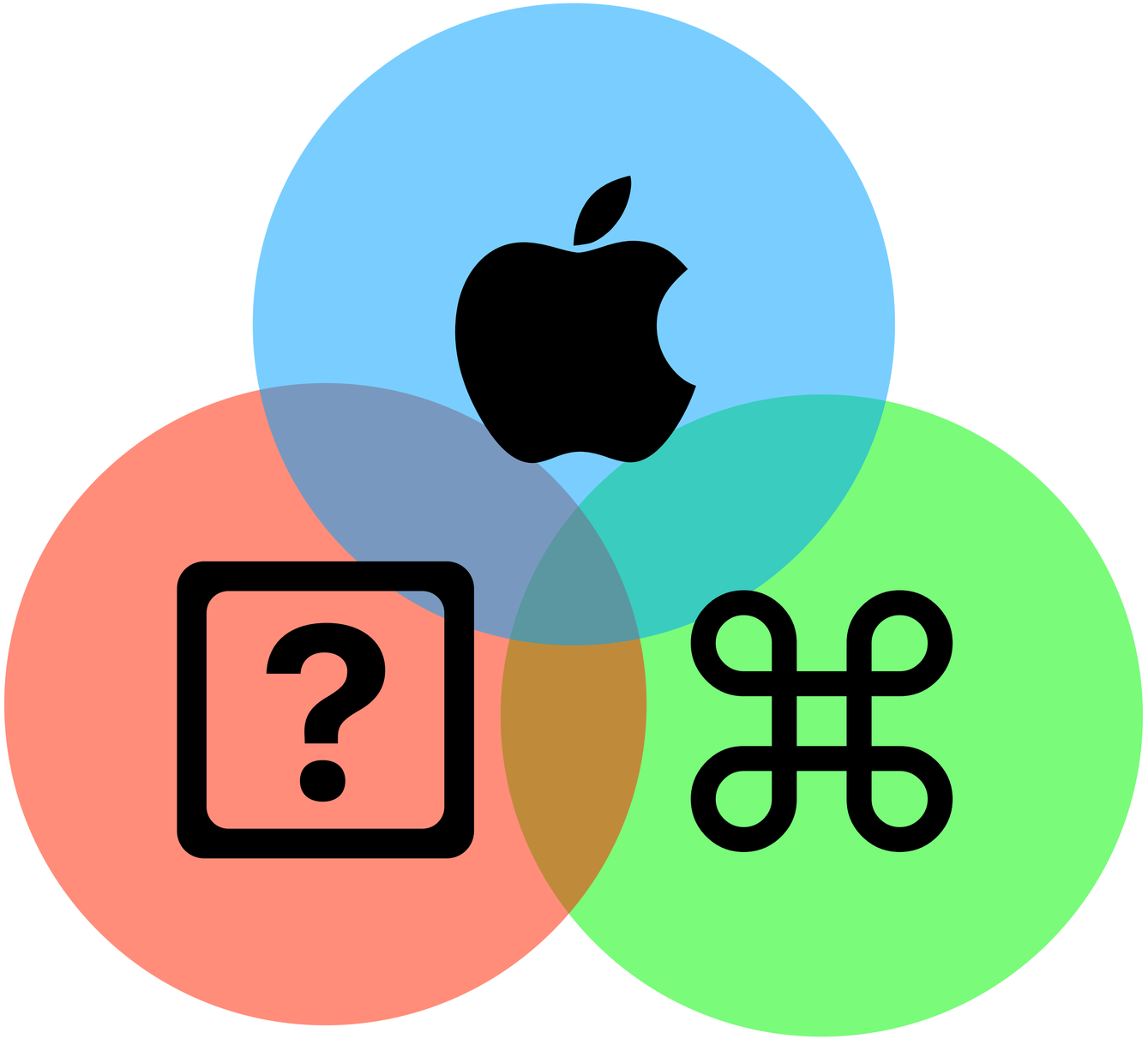
outset

Installomator

Setup-your-Mac

Baseline

Setup Manager



Apple in Enterprise is growing

Apple in Enterprise is growing

since 1999.

NEWS ANALYSIS

Jamf Q3 data confirms rapid Mac adoption across the enterprise

Jamf confirms the 10th consecutive quarter of Apple-in-the-enterprise growth, as
see wider deployment across every business.

FORBES > INNOVATION > CLOUD

Embracing Apple In The Enterprise: Benefits And Challenges For IT Teams

Tony Bradley Senior Contributor

I cover all things tech and the impact tech has on

Follow

New IT survey finds that Apple deployments are tied to positive business outcomes

Bradley Chambers | Aug 29 2023 - 6:00 am PT | 1 Comment

FEATURE

'Windows is a declining ecosystem,' Jamf CEO says

Dean Hager argues that Windows is on its way out: "Organizations must
realize that in 10 years' time, Windows will not be the dominant ecc

OPINION

IDC sees big enterprise shift to Macs over next 12 months

The research firm anticipates the number of Macs sold to business users worldwide will jump by 20% between this year and 2024.

Scripting OS X

Scripting OS X

#! is not a curse word

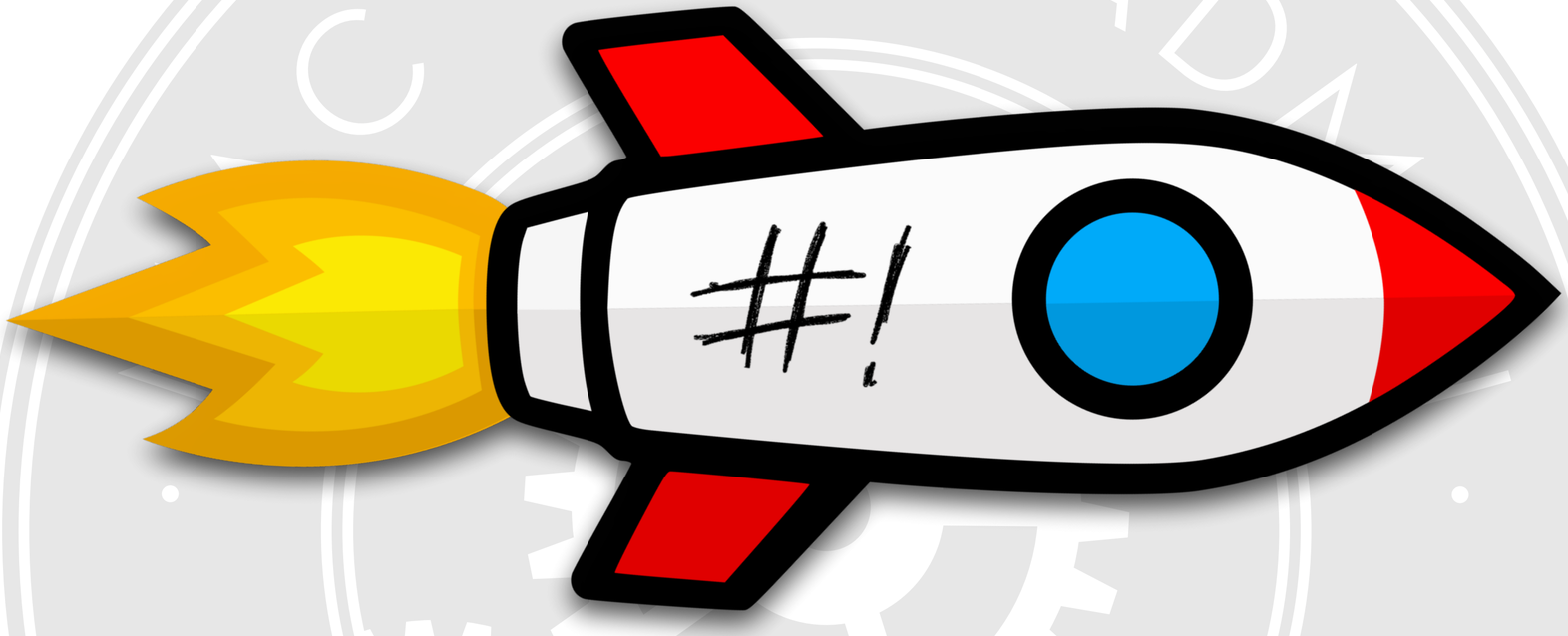
Weekly News Summary for Admins — 2023-09-29

Release week part 2! We got macOS Sonoma 14.0 release. If you were running the RC2, that is the same as the release. We also got the first round of iOS 17.1 and macOS Sonoma 14.1 betas! (It'll be good to have the minor update numbers for iOS and macOS in sync for a change.

MacAdmins.news

Links — 2023-09-29

Release week part 2! We got macOS Sonoma 14.0 release. If you were running the RC2, that is the same as the release. We also got the first round of iOS 17.1 and macOS Sonoma 14.1 betas!



scriptingosx.com/msa2023

#! scriptingosx.com jamf.com scriptingosx