



How to Configure Escrow Buddy to Escrow a FileVault Personal Recovery Key (PRK) in Jamf Pro



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# Preface

#### What is Escrow Buddy?

Escrow Buddy was created to ensure a valid FileVault personal recovery key (PRK) is escrowed to and MDM server. There are many reasons recovery keys can be missing from your MDM server:

- Prior to MDM enrollment, FileVault may have been enabled.
- The absence of the MDM escrow payload on the Mac could be due to scoping issues or misconfiguration in your MDM settings.
- The Mac computers might be in the process of transitioning from a different MDM system where the FileVault keys are currently escrowed.
- The integrity of your escrowed keys may have been compromised due to MDM database corruption or instances of data loss.

Escrow Buddy's authorization plugin is crafted to create a new key when a user logs in to macOS. It achieves this by using the user's login credentials as input for the fdesetup tool. This seamless integration with the macOS login window eliminates the need to show additional prompts or onscreen messages to the user.

Regardless of how FileVault was enabled on your Mac, Escrow Buddy will create a new FileVault recovery key and escrow it your MDM server provided your MDM server is deploying a *FDERecoveryKeyEscrow* Payload to your managed Macs. This guide will walk you through the steps for deploying and configuring Escrow Buddy using Jamf Pro as the MDM server.

Requirements:

- An MDM server that supports the following:
  - FileVault recovery key escrow
  - Install Packages
  - Run Shell Scripts
  - Deploy a configuration profile with the **FDERecoveryKeyEscrow** payload
- A Mac with macOS Mojave 10.14.4 or later and enrolled in your MDM server

NOTE: Escrow Buddy only works with MDM-based escrow solutions, not escrow servers like Crypt Server or Cauliflower Vest.

A very special thanks to Elliot Jordan and the Netflix client systems engineering team for making Escrow Buddy available to the Mac community. Be sure to check out the Escrow Buddy Wiki for future updates and workflow options for Jamf Pro.

https://github.com/macadmins/escrow-buddy/wiki/Jamf

This guide was written using the following:

- macOS Ventura 13.4.1
- Jamf Pro server version 10.48
- Escrow Buddy version 1.0.0



# Section 1: Configure Jamf Pro

### What You'll Need

Learn what hardware, software, and information you'll need to complete the tutorials in this section.

#### Hardware and Software

Requirements for following along with this section:

- Jamf Pro server that supports the FDERecoveryKeyEscrow payload. This guide will use version 10.48
- Jamf Pro administrator credentials
- Escrow Buddy version 1.0.0 or later.

https://github.com/macadmins/escrow-buddy/releases/latest

1. Log into your Jamf Pro server with administrative credentials.

2	jamf	PRO	
USERNAME ex. admin			
PASSWORD			$\bigcirc$
All co	ntents © 200 All rights res	2-2023 Jamf served.	:

- 2. Click Computers
- 3. Click Smart Computer Groups.
- 4. Click New.





### 5. Configure the following:

- A. Enter for Display Name: FileVault Encryption Key is Invalid or Unknown
- B. Configure other items to your need. This guide will leave them at their defaults.
- C. Click Criteria

Computer G	roup Criteria
<u> </u>	
Display Name	Display name for the smart computer group
FileVault Encr	VOTOLI NEV IS TOVATO OF OTIKTOWI

#### 6. Click Add.

Computers : Smart Co ← New Smart	omputer Groups Computer Group			
Computer Group	Criteria			
AND/OR	CRITERIA	OPERATOR	VALUE	
				+ Add

- 7. Configure the following for the Criteria as shown below:
  - A. Criteria: FileVault 2 Individual Key Validation
  - B. Operator: is
  - C. Value: Invalid
  - D. Click Add

Computer Group	Criteria Reports						
AND/OR	•	CRITERIA FileVault 2 Individual Key	OPERATOR	VALUE	999	•	Delete
	A—	Validation	L <sub>B</sub>		— c		+ Add D

- 8. Configure the following for the Criteria as shown below:
  - A. Criteria: FileVault 2 Individual Key Validation
  - B. And/Or: **or**
  - C. Operator: is
  - D. Value: Unknown
  - E. Click Add





- 9. Configure the following for the Criteria as shown below:
  - A. Criteria: FileVault 2 Partition Encryption State
  - B. And/Or:  $\boldsymbol{\mathsf{and}}$
  - C. Operator: is
  - D. Value: **Encrypted** E. Click Save
- AND/OR CRITERIA OPERATOR VALUE Invalid FileVault 2 Individual Key • is 🔹 ••• • Delete • FileVault 2 Individual Key Unknown • or 🔹 is • ... Delete Encrypted and 🔹 • FileVault 2 Partition Encryption State \*\*\* • is ٠ Delete B· + Add Α С D - E  $\otimes$ 
  - 10. Select the checkbox for Show in Jamf Pro Dashboard.

NOTE: We created this smart group to use for scoping later on in this guide.



- 11. Click Computers.
- 12. Click Configuration Profiles.
- 13. Click New.





- 14. Click the General payload and enter the following:

  - A. Name: FileVault Key Escrow
    B. Description: Add a description of your choosing if needed.
    C. Category: This guide will use Security. Feel free to select a category of your choosing.
    D. Leave all other items at their default settings.

Opt	tions Scope		
Q Searc	:h	General	
\$.	General	Name Display name of the profile FileVault Key Escrow	-А
<u>ب</u> (۱)	Accessibility Not configured	Description Brief explanation of the content or purpose of the profile	_
	AD Certificate Not configured		— B
	<b>\irPlay</b> Not configured	Site Site to add the profile to           None	
A A N	App-To-Per-App VPN Mapping Not configured	Category Category to add the profile to Security  Level Level at which to apply the profile	– C
A	Application & Custom	Computer Level 🔹	

- 15. Scroll down and click Security and Privacy payload
- 16. Click FileVault.
- 17. Configure the following:
  - A. Enable FileVault: **Enable** 
    - B. Scroll down to Escrow Personal Recovery Key.

Search       Security and Privacy: FileVault       Exclude all         Image: Second gured       Settings configured       Image: Second gured all       Image: Second gured all         Image: Privacy Preferences Policy       Privacy Preferences Policy       Image: Second gured all       Image: Second gured gured all       Image: Second gured gured gured gu	Section   Not configured   Provies	Operating         Security and Privacy: FileVault           Image: Search         Security           Image: Search         Search	Exclude all Include upired for macOS 10.15 or later
Printing Not configured     Setting     Induce       Privacy Preferences Policy © Control Not configured     Event to prompt FileVault enablement Event to prompt FileVault enable FileVault. Only users with a SecureToken can enable FileVault on computers with the APES board volumes.     Term to prompt FileVault enable FileVault. Only users with a SecureToken can enable FileVault on computers with the APES board volumes.     Term to prompt FileVault enable FileVault. Only users with a SecureToken can enable FileVault on computers with the APES board volumes.     Term to prompt FileVault enable FileVault. Only users with a SecureToken can enable FileVault on computers with the APES board volumes.     Term to prompt FileVault enable FileVault on computers with the APES board volumes.     Term to prompt FileVault enable fileVault on computers with the APES board volumes.     Term to prompt FileVault enable fileVault on computers with the APES board volumes.     Term to prompt fileVault enable fileVault on computers with the APES board volumes.     Term to prompt fileVault enable fileVault on computers with the APES board volumes.     Term to prompt fileVault prompts at login     Term to prompt fileVault enable fileVault board board to enable fileVault to log in       Image: SCEP Not configured     Not configured     Term tere encovery key     Term tere encovery key     Term tere encovery key	Printing Exist   Privacy Preferences Policy   Not configured   Provies   Provies   Not configured   Provies   Provies   Not configured   Provies   Provies   Provies   Provie	Printing Not configured         Setting           Privacy Preferences Policy © Control Not configured         Enable FileVault FileVault provides full disk encryption to the macOS boot volume. User Approved MDM required           Provides Not configured         Event to prompt FileVault enablement Specify when macOS prompts the user to enable FileVault. Only users with a SecureTe the APPS boot volume.           Provides Not configured         Allow users to bypages FileVault prompts at login	Include uvired for macOS 10.15 or later
Protections       Allow compared         Image: SCEP Not compared       SCEP Not compared         Not comfigured       Maximum number of these suess can bypass enabling File/Ault before being required to enable it to log in         Image: SCEP Not comfigured       Maximum number of these suess can bypass enabling File/Ault before being required to enable it to log in         Image: SCEP Not comfigured       Maximum number of these suess can bypass enabling File/Ault before being required to enable it to log in         Image: SCEP Not comfigured       Maximum number of the encrypted drive using a recovery key         Image: SCEP Not comfigured       Maximum number of the encrypted drive using a recovery key	Finded access to the encrypted drive using a recovery key      Security and Privacy       Security and Privacy       General       Finded access to the encrypted drive using a recovery key from being displayed to the end user after FileVault is enabled.	Enable FileVault     Privacy Preferences Policy     Control     Nat configured     Proxies     Not configured     Alt cogin     Alt cogin     Alt cogin     Alt cogin	uired for macOS 10.15 or later
Image: Provides       At Login         At Login       At Login         Image: Provides	Image: Provides Not configured       Allogout Mutogin         Image: Provides Not configured       Allogout Mutogin         Image: Provides Not configured       Maximum number of times users can bypass enabling FileVault before being required to enable it to log in         Image: Provides Not configured       Maximum number of times users can bypass enabling FileVault before being required to enable it to log in         Image: Provides Not configured       Maximum number of times users can bypass enabling FileVault before being required to enable it to log in         Image: Provides Not configured       Require on the next login v         Image: Provides Not configured       Personal Recovery Key         Image: Provides Not configured       Personal recovery Key to user         Image: Provides Not configured       Theiden: prevents the personal recovery key from being displayed to the end user after FileVault is enabled.	Proxies     Not configured     Allogue     Allogue     Allogue	
Image: Scep Not configured       Recovery keys         Image: Not configured       Recovery keys         Image: Not configured       Personal Recovery key	i =       Restrictions Not configured         i =       SCEP Not configured         i =       SCEP Not configured         i =       Security and Privacy Settings configured: 4         i =       General		
SCEP Not configured         Recovery keys           Enable access to the encrypted drive using a recovery key           Personal Recovery Key	SCEP Not configured      Security and Privacy Security and Privacy General      Recovery key      Personal recovery key to user     I hidden, prevents the personal recovery key from being displayed to the end user after FileVault is enabled.     Hidd Display	i =         Restrictions Not configured         Maximum number of times users can bypass enabling FlieVault before being required	d to enable it to log in
Personal Recovery Key V	Security and Privacy     Settings configured: 4      Display personal recovery key to user      If hidden, prevents the personal recovery key from being displayed to the end user after FileVault is enabled     Hide Display	SCEP     Socie Configured     Socie Configured	
Security and Privacy Settings configured: 4 Display personal recovery key to user	General If hidden, prevents the personal recovery key from being displayed to the end user after FileVault is enabled Hide Display	Security and Privacy Settings configured: 4	
General If hidden, prevents the personal recovery key from being displayed to the end user after FileVault is enabled Hidde Display		General Hidden, prevents the personal recovery key from being displayed to the end u	user after FileVault is enabled



# 18. Configure the following:

- A. Escrow Personal Recovery Key: Enable
- B. Encryption Method: Automatically encrypt and decrypt recovery key.
  C. Escrow Location: Jamf Pro Server.
  D. Click Scope.

Options Scope	
Q Search	
Not configured	Escrow Personal Recovery Key When sent to device, the personal recovery key will be encrypted with the provided certificate and later reported to Jamf Pro. Personal recovery keys that are escreved can be viewed in the computer's inventory information.
Printing Not configured	Encryption Method Method to use for encrypting the personal recovery key. Automatic encryption and decryption is handled by Jamf Pro.
Privacy Preferences Policy Control Not configured	Automatically encrypt and decrypt recovery key  Jamf Pro automatically generates a required certificate for this encryption method. To see the certificate details,
Revies	Save the profile and navigate to the Certificate payload.  Escrow Location Description A short location reference to let the end user know where the key will be stored. For example, your organization's name.
t	Jamf Pro Server
SCEP Not configured	"Record Number" Message Optional. Message to display to the end user. This should be a unique reference that will help the administrator find the end user's key in Lam Pro.

- 19. Click Targets
- 20. Confirm Specific Computers is selected for Target Computers.
- 21. Click Add

Computers : Configuration Profiles ← New macOS Configuration Profi	le	
Options Scope		
Targets	Limitations	Exclusions
Target Computers Computers to scripe the profile to Specific Computers	Target Users Users to distribute the profile to     Specific Users	
Selected Deployment Targets		+ Add
TARGET	ТҮРЕ	



- 22. Click Computer Groups.
- 23. Click Add for "FileVault Encryption Key is Invalid or Unknown."
- 24. Click Save.

Targets	Limitations	Exclusions	
Add Deployment Targets		Done	
Computers Computer Groups	Users User Groups	Buildings Departments	
Q Filter Re 1 - 7 of 7			
GROUP NAME			
All Managed Clients		Add	
		Add	
Macs Without Sublime Text			
Macs Without Sublime Text		bbA	
Macs Without Sublime Text Last user itadmin Filardo		Add Add	
Macs Without Sublime Text Last user itadmin Filardo FileVault Encryption Key is Invalid or Unknown		Add Add Add	<b>1</b>
Macs Without Sublime Text Last user itadmin Filardo FileVault Encryption Key is Invalid or Unknown All Managed Servers		Add Add Add Add	]—

25. Download Escrow Buddy. https://github.com/macadmins/escrow-buddy/releases/latest

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> Code 🕢 Issues 👫 Pull requ	ests 🕟 Actions 🖽 Wiki 🕕 Security 🗠 Insights		
eleases / v1.0.0			
Escrow Buddy 1.0	<b>0.0</b> (Latest) • 2 commits to main since this release		Compare +
Initial public release of Escrow Bud See the announcement on the Netl	dy! Ifix Tech Blog, and refer to the <mark>readme</mark> and wiki for documentatic	n.	
Initial public release of Escrow Bud See the announcement on the Nett • Assets 3	dy! flix Tech Blog, and refer to the readme and wiki for documentatio	n.	
Initial public release of Escrow Bud See the announcement on the Nett Assets     3     @Escrow.Buddy-1.0.0.pkg	dy! Ilix Tech Blog, and refer to the readme and wiki for documentatio	n. 82 KB	Jun 11
Initial public release of Escrow Bud See the announcement on the Nett Assets     3     CEscrow.Buddy-1.0.0.pkg     Source code (zip)	dy! flix Tech Blog, and refer to the readme and wiki for documentatio	n. 82 KB	Jun 11 Jun 11



- 26. Switch back to your Jamf Pro Server instance. On the top-right corner, click Settings (🕄).
- 27. Click Computer management.
- 28. Click Packages.



29. Click New.

🞜 jamf   PRO		ম	4	ŝ
Computers Devices Users	Settings : Computer Management ← Packages			
VERSION 10.40.1-t1659581750			+ Ne	ew

- 30. Configure the following:
  - A. Category: This guide will use Security
  - B. Click Choose File

General Options Limitations
isplay Name Display name for the package
[Required]
ategory Category to add the package to
Security -
Honame Elioname of the package on the distribution point (e.g. "MyPackage.pkg") Choose File
fo Information to display to the administrator when the package is deployed or uninstalled
i [ ]



- 30. Perform the following:A. Navigate to your Downloads folderB. Select Escrow.Buddy-1.0.0.pkgC. Click Upload

A-		Choose	Choose Files to Upload				
	$\langle \rangle \equiv \mathbf{v} \equiv \mathbf{v}$	💿 Downloa	ids	3	Q Search		
	Name	∧ Size		Kind	Date Added		
B-	💝 Escrow.Buddy-1.0.0.pkg		84 KB	Installeackage	Today at 12:22 P	M	
					Cancel	Upload	}c

# 31. Confirm the Display Name auto-populates with the name Escrow.Buddy-1.0.0.pkg. Click Save.

General	Options	Limitations							
Display Name	Display name fc	r the package							
Escrow.Budd	y-1.0.0.pkg					 	 	 	
Category Cate	gory to add the	backage to	1						
Security		•							
Filename Filen	ame of the pack	age on the dist	ribution point (e.g. "	MyPackage.pkg")					
Choose File	Escrow.Budd	y-1.0.0.pkg							
Info Informatio	n to display to th	e administrator	when the package	is deployed or un	ninstalled				
Notes Notes to	display about th	ne package (e.g	a. who built it and wh	hen it was built)					
Manifest File									
Upload Mar	ifest File								
								$\otimes$	E
								Cancel	Save



- 32. Click Computers.
- 33. Click Policies.
- 34. Click New.

32—	Computers Devices Users	Computers Policies			— 34
		✓ Q Filter Pc 1- 47 of 47		+ New :≡ 88	
	Search Inventory	NAME	A FREQUENCY TRIGGER	SCOPE	
	Licensed Software				
33—	Policies				
	<ul><li>Sconfiguration Profiles</li><li>Restricted Software</li></ul>				

- 35. Configure the following: A. Click General

  - B. Display Name: Install Escrow Buddy
    C. Category: Security
    D. Trigger: Recurring Check-in
    E. Execution Frequency: Once per computer
    F. Click Packages

	с	ptions Scope Self Service	User Interaction	
A	.8	General >	General	
F	÷	Packages 0 Packages	Display Name Display name for the policy Install Escrow Buddy	– B
	(@)	Software Updates Not Configured	Enabled	
	<b>N</b> .	Scripts 0 Scripts	Site Site to add the policy to None	
	B	Printers 0 Printers	Category Category to add the policy to Security	– c
	Ó	Disk Encryption Not Configured	Trigger Event(s) to use to initiate the policy	
	<u> </u>	Dock Items 0 Dock Items	Startup When a computer starts up. A startup script that checks for policies must be configured in Jamf Pro for this to work login	
	1	Local Accounts 0 Accounts	When a user logs in to a computer. A login event that checks for policies must be configured in Jamf Pro for this to work Network State Change Network Ne	
		Management Accounts Not Configured	Changes when the readeness changes (e.g., when the network connection changes, when the computer name changes, when the readoness changes)  Enrollment Complete	
	8	Directory Bindings 0 Bindings	Immediately after a computer completes the enrollment process     Recurring Check-in     At the recurring check-in frequency configured in Jamf Pro	– D
		EFI Password Not Configured	Custom At a custom event	
	Sale Contraction	Restart Options Not Configured	Execution Frequency - Frequency at which to run the policy Once per computer	– E
	X	Maintenance Configured	Automatically re-run policy on failure	



# 36. Click Configure.

O	ptions Scope	Self Service	User Interaction	
[8]	General			
۶	<b>Packages</b> 0 Packages	>		💝 Configure Packages
(@)	Software Updates Not Configured			Use this section to install, cache, and uninstall packages. Also use this section to install a single cached package
<b>b</b>	Scripts 0 Scripts			Configure
	Printers 0 Printers			

37. Click Add for Escrow.Buddy-1.0.0.pkg.

Escrow.Buddy-1.0.0.pkg	Mac Deployment	Add

- 38. Confirm the following:A. Distribution Point: This guide will use the default shown below.B. Action: Install

  - C. Scroll Down and click Files and Processes payload.

- nor connigured	
Scripts 0 Scripts	Packages
Printers 0 Printers	Each computer's default distribution point
Disk Encryption Not Configured	Escrow.Buddy-1.0.0.pkg
Dock Items	Install
Local Accounts 0 Accounts	
Management Accounts Not Configured	
Directory Bindings 0 Bindings	
EFI Password Not Configured	
Restart Options Not Configured	
X Maintenance Not Configured	
C Film and Branner	



# 39. Click Configure.

0	ptions Scope	Self Service	User Interaction	
	0 Bindings			
	EFI Password Not Configured			
ST NOT	Restart Options Not Configured			Configure Files and Processes
X	Maintenance Configured			Use this section to search for and log specific files and processes. Also use this section to execute a command.
Q	Files and Processes Not Configured	>		Configure

40. In the Execute Command field, enter the following:

# defaults write /Library/Preferences/com.netflix.Escrow-Buddy.plist GenerateNewKey -bool true

Note: The defaults command configures Escrow Buddy to regenerate a key upon next login.

41. Click Scope.

41—	Options Scope Self Service	User Interaction	
	• 0 Bindings	Search For File Using Spotlight File to search for. This field is not case-sensitive and returns partial matches	
	EFI Password Not Configured	Search For Process Name of the process. This field is case-sensitive and returns partial matches	
	Restart Options Not Configured	Kill process if found	
	X Maintenance Configured	This works with exact matches only Execute Command Command to execute on computers. This command is executed as the "root" user	10
	Configured	defaults write /Library/Preferences/com.netflix.Escrow-Buddy.plist GenerateNewKey -bool true	40

- 42. Click Targets
- 43. Confirm Specific Computers is selected for Target Computers.
- 44. Click Add

	Computers : Configuration Profiles ← New macOS Configuration Profile			
	Options Scope			
42 —	Targets	Limitations	Exclusions	
43 —	Target Computers	Target Users Users to distribute the profile to Specific Users		
	Selected Deployment Targets		(+ Add	<u> </u>
	TARGET	ТҮРЕ		



- 45. Click Computer Groups.
- 46. Click Add for "FileVault Encryption Key is Invalid or Unknown."
- 47. Click Save.

Targets		Limitatio	ons	Exclu	isions
Add Deployment Targets					Done
Computers	Computer Groups	Users	User Groups	Buildings	Departments
Q Filter Re 1-7 of 7		•			
GROUP NAME					
All Managed Clients					Add
Macs Without Sublime Text					Add
Last user itadmin					Add
					Add
Filardo	or Unknown				Add
Filardo FileVault Encryption Key is Invalid o					Add
Filardo FileVault Encryption Key is Invalid o All Managed Servers					

This completes this section. In the next section, we will enroll a Mac computer that is already FileVault encrypted into our Jamf Pro server to see how Escrow Buddy can re-key and escrow it back to the Jamf Pro server without prompting the user.



# Section 2: FileVault personal recovery key (PRK) escrow with Escrow Buddy

## What You'll Need

Learn what hardware, software, and information you'll need to complete the tutorials in this section.

### Hardware and Software

Requirements for following along with this section:

- A Mac with macOS Mojave 10.14.4 or later with FileVault enabled and NOT enrolled in Jamf Pro.
- Jamf Pro administrator credentials
- 1. Enroll your Mac computer into the Jamf Pro server. This can be done via User Initiated Enrollment or an Enrollment Invitation email if SMTP is configured on your Jamf Pro server.
- 2. Log into your Jamf Pro Server.

🗖 jamf 🛛 PRO		
USERNAME ex. admin		
PASSWORD	$\bigcirc$	
All contents © 2002-2023 Ja All rights reserved.	mf.	

3. The Jamf Pro Dashboard should show at least one computer in the "FileVault Encryption Key is Invalid or Unknown" Smart Computer Group.

Jamf Pro Dash	board
✓ Computer Smart Groups	ups
Available Hard Disk Space Less Than 50 GB	FileVault Encryption Key is Invalid or Unknown
0	1
Computers	Computers



- 4. Click Computers.
- 5. Click Search Inventory
- 6. In the search field, enter the name of the computer you just enrolled
- 7. Click Search

						- 6				
4 —	Computers	Levices	டி) Users	Q HCS Macbook Air		×	Computers	~	Search	<b>—</b> 7
	INVENTOR			Advanced Co	omputer Searches					
5 —	Q Sear	ch Inventory								

# 8. Click on your Mac computer.



- 9. Click Inventory.
- 10. Click Disk Encryption.
- 11. Verify the Personal Recovery Key Validation is Unknown.

	Corr ←	HCS MacBook Air			
9 —	In	ventory Management His	tory		
	٥	Purchasing	Disk Encryption		
	O	Storage 1 Drive	Name:	Macintosh HD (Boot Partition)	
			Last Inventory Update:	About a minute ago	
		Extension Attributes	FileVault 2 Partition Encryption State:	Encrypted	
10—	Ó	Disk Encryption > Encrypted	Personal Recovery Key Validation:	Unknown	—11
		A 10 10	Institutional Recovery Key Status:	Not Present	
	Å	58 Applications	Disk Encryption Configuration:		
	() () ()	Profiles 8 Profiles	FileVault 2 Enabled Users:	keith	



12. Open Terminal.



Terminal

13. Depending on the check in time set on your Jamf Pro server, it could take a while for the Escrow Buddy policy to run. We will use the commands below to run the policy immediately and update the inventory.

#### sudo jamf policy

Enter your administrator password when prompted.



14. Enter the command below to ensure the inventory is updated on the Jamf Pro server.

#### sudo jamf recon

Enter your administrator password if required.

keith -- -zsh - 90×29 Last login: Sun Jul 16 15:11:34 on console keith@hcs=macbook=air ~ % sudo jamf recon Password: Retrieving inventory preferences from https: jamfcloud.com/... Finding extension attributes... Locating package receipts... Locating hard drive information... Locating applications... Searching application usage information from the JamfDaemon... Searching path: /Applications Gathering application (macOS 13.4.1)... Submitting data to https: jamfcloud.com/... <computer\_id>18/



15. Log out of your Mac computer.



16. Log back into your Mac computer. Escrow Buddy will initiate the FileVault Re-Key and escrow the key in the Jamf Pro server.



- 17. Switch back to your Jamf Pro server. Click Computers
- 18. Click Search Inventory
- 19. In the search field, enter the name of the computer you just enrolled
- 20. Click Search





21. Select your Mac computer.



- 22. Click Inventory.
- 23. Click Disk Encryption.
- 24. Verify the Personal Recovery Key and the Device Recovery Key both have Show Key buttons.

	$\leftarrow$	HCS MacBook Air		
22 —	In	ventory Management	History	
	1	General HCS MacBook Air	Disk Encryption	
	Hardware MacBook Air (M2, 2022) American Air (M2, 2022) American Air (M2, 2022) American Air (M2, 2022) American America		Name: Macintosh HD (Boot Partition)	
			Last Inventory Update: 15 minutes ago	
	4	Operating System macOS 13.4.1	FileVault 2 Partition Encryption State: Encrypted	
		User and Location	Personal Recovery Key Validation: Valid	
			Personal Recovery Key	
		Security	Device Recovery Key Show Key	—24
	٥	Purchasing	Institutional Recovery Key Status: Not Present	
	0	<b>Storage</b> 1 Drive	Disk Encryption Configuration:	
			FileVault 2 Enabled Users: keith	
	j,	Extension Attributes		
23—	Ó	Disk Encryption > Encrypted		



Computers ← HCS MacBook Air Inventory Management History General HCS MacBook Air 1 Disk Encryption Hardware MacBook Air (M2, 2022) Name: Macintosh HD (Boot Partition) Last Inventory Update: 16 minutes ago Operating System macOS 13.4.1 4 FileVault 2 Partition Encryption State: Encrypted Personal Recovery Key Validation: Valid User and Location Personal Recovery Key: K Security Device Recovery Key: ( Institutional Recovery Key Status: Not Present 🧕 Purchasing Disk Encryption Configuration: Storage 1 Drive 0 FileVault 2 Enabled Users: keith Extension Ê Attributes Disk Encryption > 0 Encrypted

25. Click Show Key on Personal Recovery Key and Device Recovery Key to display the keys.

The FileVault keys are now escrowed on the Jamf Pro server.



# Section 3: Ensuring persistent escrow of the FileVault key

### What You'll Need

Learn what hardware, software, and information you'll need to complete the tutorials in this section.

#### Hardware and Software

Requirements for following along with this section:

• Jamf Pro administrator credentials

At times, a newly generated FileVault Personal Recovery Key (PRK) may initially appear valid on the Jamf Pro server but later become invalid or go missing. While this is an uncommon situation, it can occur periodically. To guarantee the continuous validity of the FileVault Personal Recovery Key (PRK) on the Jamf Pro server, we recommend creating an extra policy that executes a weekly command on an ongoing basis.

In this section, we will create a policy that runs the command below to re generate a FileVault Personal Recovery Key (PRK) at next login:

defaults write /Library/Preferences/com.netflix.Escrow-Buddy.plist GenerateNewKey -bool true

1. Log into your Jamf Pro Server.



- 2. Click Computers.
- 3. Click Policies.
- 4. Click New.

2 Computers	evices Users	Computers Policies			— 4
INVENTORY		<ul> <li>✓ Q Filter Pc</li> <li>1 - 47 of 4</li> </ul>	7	+ New 🗄 🖽	
🔍 Search I	nventory	NAME		SCOPE	
🖂 Search V	/olume Content				
💭 Licensee	d Software				
CONTENT MA	NAGEMENT				
3 — 🗇 Policies					
ିଙ୍କୁ Configu	ation Profiles				
Restricte	d Software				



### 5. Configure the following:

- A. Display Name: Validate FileVault Key Escrow
- B. Category: Security
- C. Trigger: Recurring Check-in D. Execution Frequency: Once every week

Validate FileVault Key Escrow	
C Enabled	
Site Site to add the policy to None	
Category Category to add the policy to Security	
Trigger Event(s) to use to initiate the policy	
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 event that checks for policies must be configured in Jamf Pro for this to work	
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 t the recurring check-in frequency configured in Jamf Pro	
Custom At a custom event	
Execution Frequency Frequency at which to run the policy	

- 6. Click on the Maintenance payload.
- 7. Click Configure.





8. Confirm Update Inventory is enabled.



# 9. Click on the Files and Processes payload.

# 10. Click Configure.

9

<u> </u>	0 Dock Items		
≗ & ⊚	Local Accounts O Accounts Management Accounts Not Configured Directory Bindings O Bindings EFI Password Not Configured	Configure Files and Processes Use this section to search for and log specific files and processes. Also use this section to execute a command.	— 10
States of the second se	Restart Options Not Configured		
×	Maintenance Configured	-	
Q	Files and Processes > Not Configured		

11. Enter the following command in the Execute Command field:

#### defaults write /Library/Preferences/com.netflix.Escrow-Buddy.plist GenerateNewKey -bool true

iles and Processes	×
earch For File By Path Full path to the file	
Delete file if found	
earch For File By Filename Name of the file, including the file extension. This field is case-sensitive and re	turns partial matches
Update "locate" database Update the "locate" database before searching for the file earch For File Using Spotlight File to search for. This field is not case-sensitive and returns partial matche	s
earch For Process Name of the process. This field is case-sensitive and returns partial matches	
Kill process if found This works with exact matches only	
xecute Command to execute on computers. This command is executed as the "root" user	
defaults write /Library/Preferences/com.netflix.Escrow-Buddy.plist GenerateNewKey -bool true	1



- 12. Click Scope.
- 13. Click Tartgets.
- 14. Confirm Specific Computers is selected for Target Computers.
- 15. Click Add

12 —	Options Scope Self Service User I	nteraction		
13 —	Targets	Limitations	Exclusions	
14 ——	Target Computers Computers to deploy the policy to Specific Computers	Target Users Users to deploy the policy to Specific Users •		
	Selected Deployment Targets		+ Add	<b></b> 15
	TARGET	ТҮРЕ		

- 16. Click Computer Groups.
- 17. In the search field, enter **filevault**.
- 18. Click Add for "FileVault Encryption Key is Invalid or Unknown."
- 19. Click Save.

Targe	ts	Limitat	tions	Excl	usions
dd Deployment Ta	argets				Done
Computers	Computer Groups	Users	User Groups	Buildings	Departments
filevault 1-1 of 1					
GROUP NAME					
FileVault Encryption Key is	nvalid or Unknown				Add



This policy will run once a week on all computers that show up in the smart computer group named FileVault Encryption Key is Invalid or Unknown. The FileVault key will be escrowed and the inventory in Jamf Pro to reflect the change.

This completes the guide.