

AUTOMATA

Technology Services LLC

Macintosh Hardware

Intel Architecture

Apple Silicon Architecture

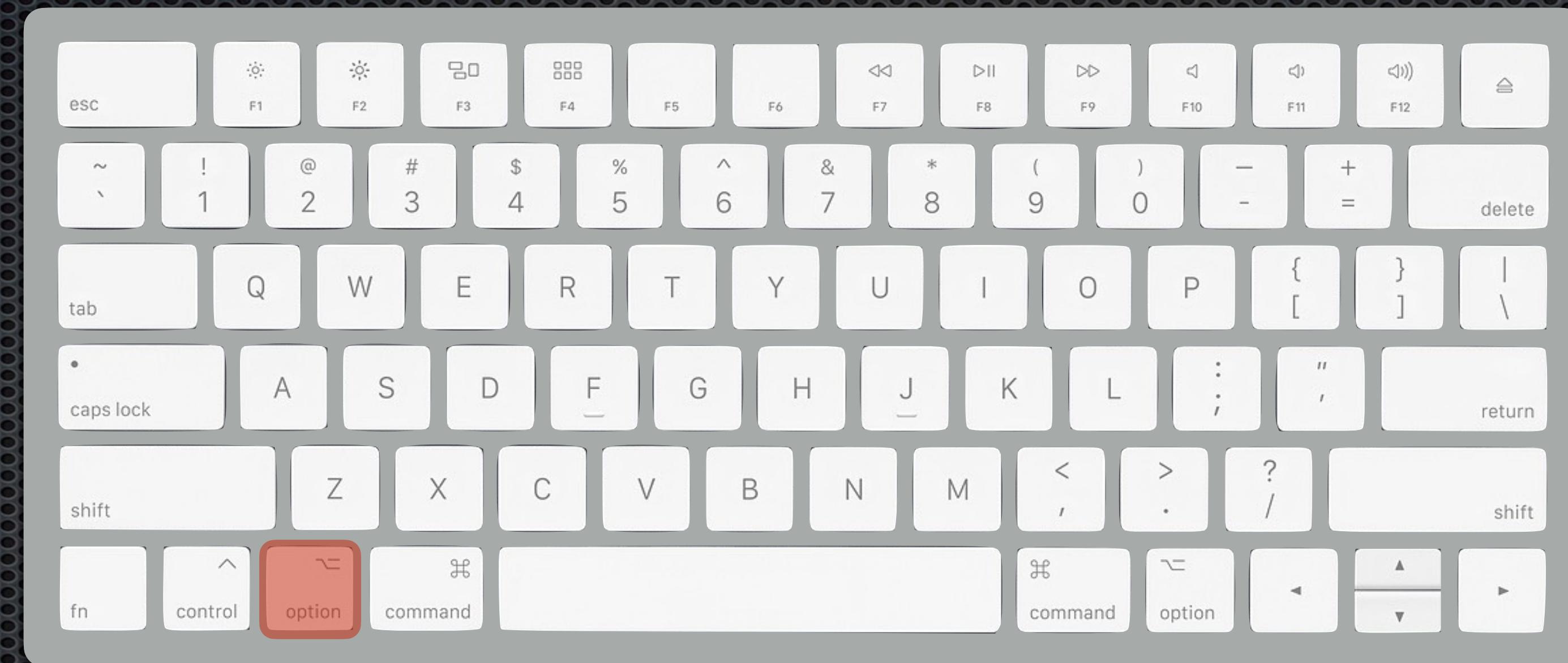
macOS Recovery / Recovery OS

Installing macOS

Intel Based Macs

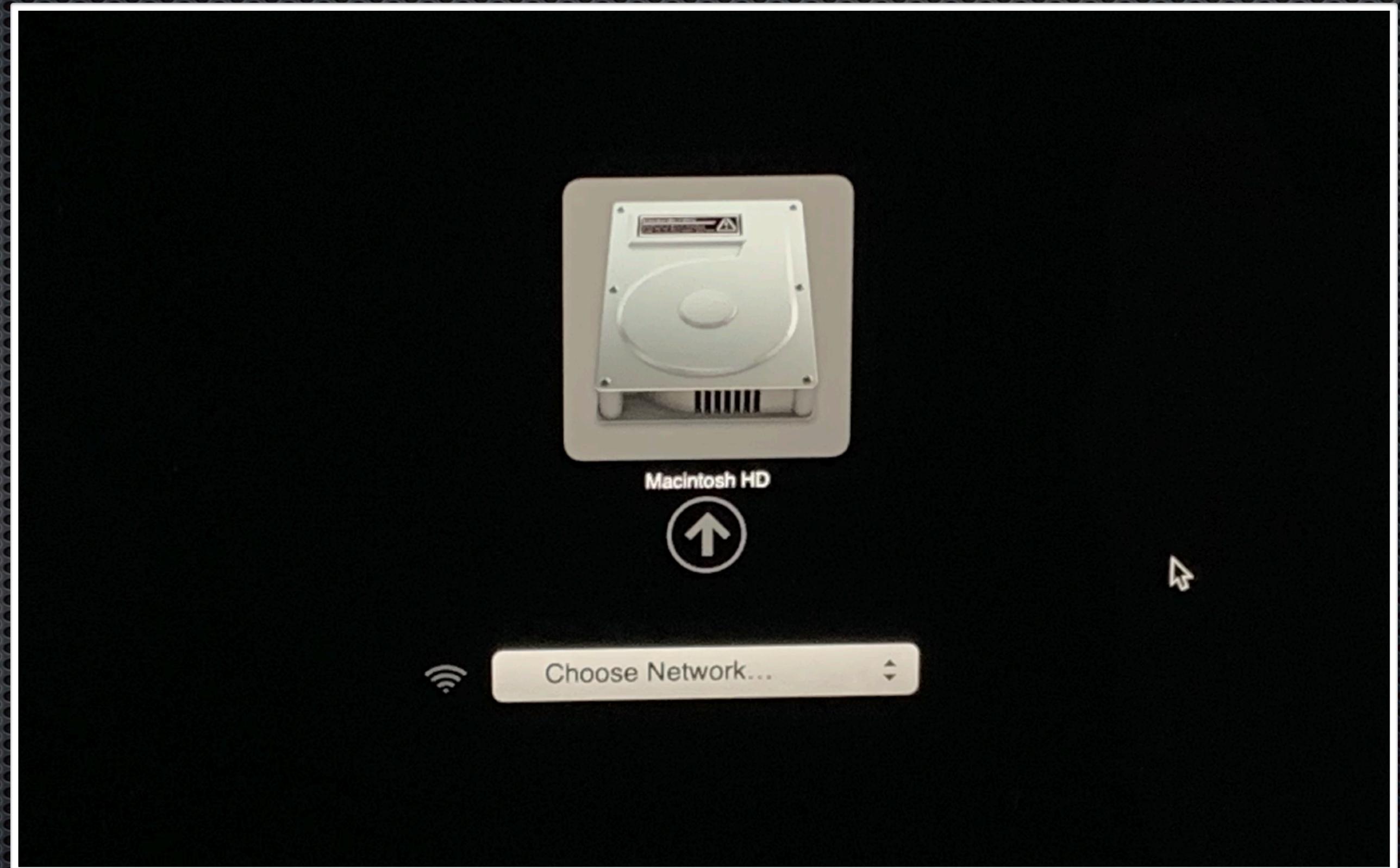
Introduction

Boot Selection

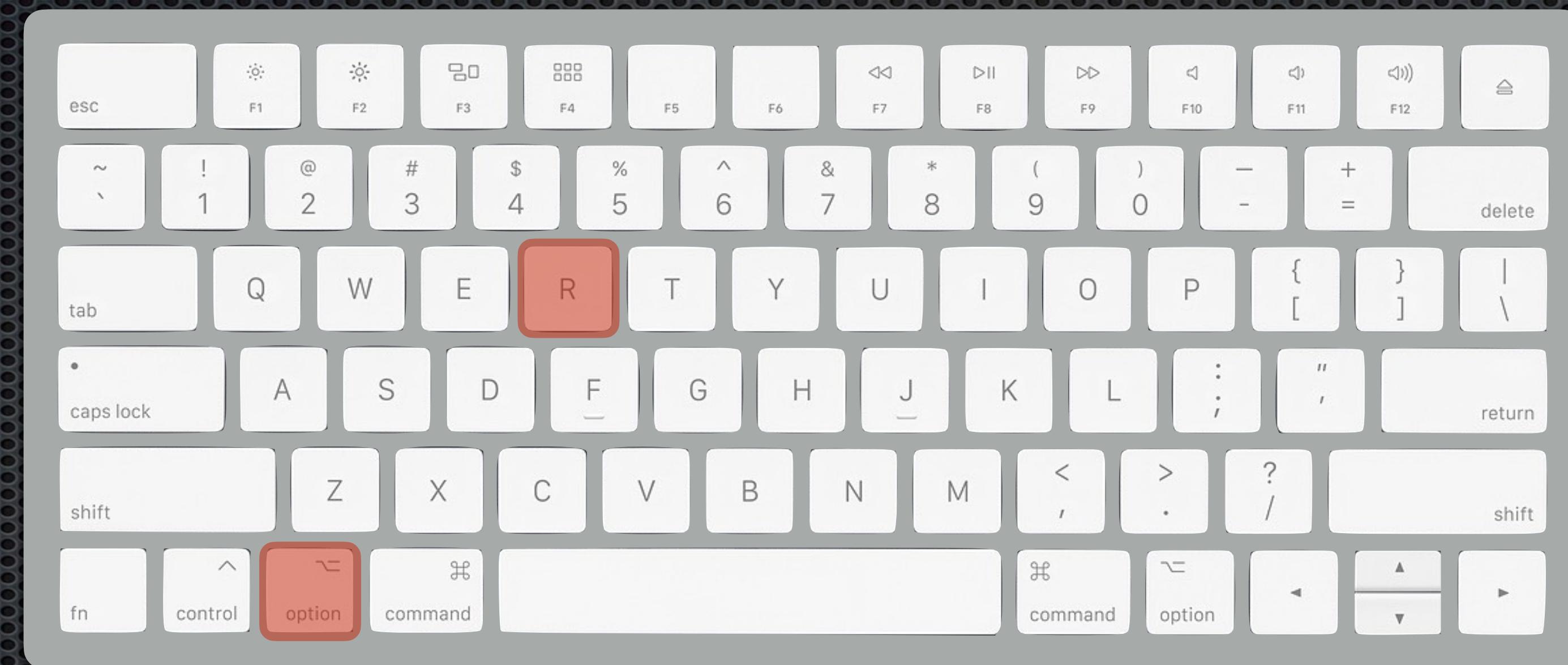


Startup disk **SELECTION MODE**.

Boot Selection

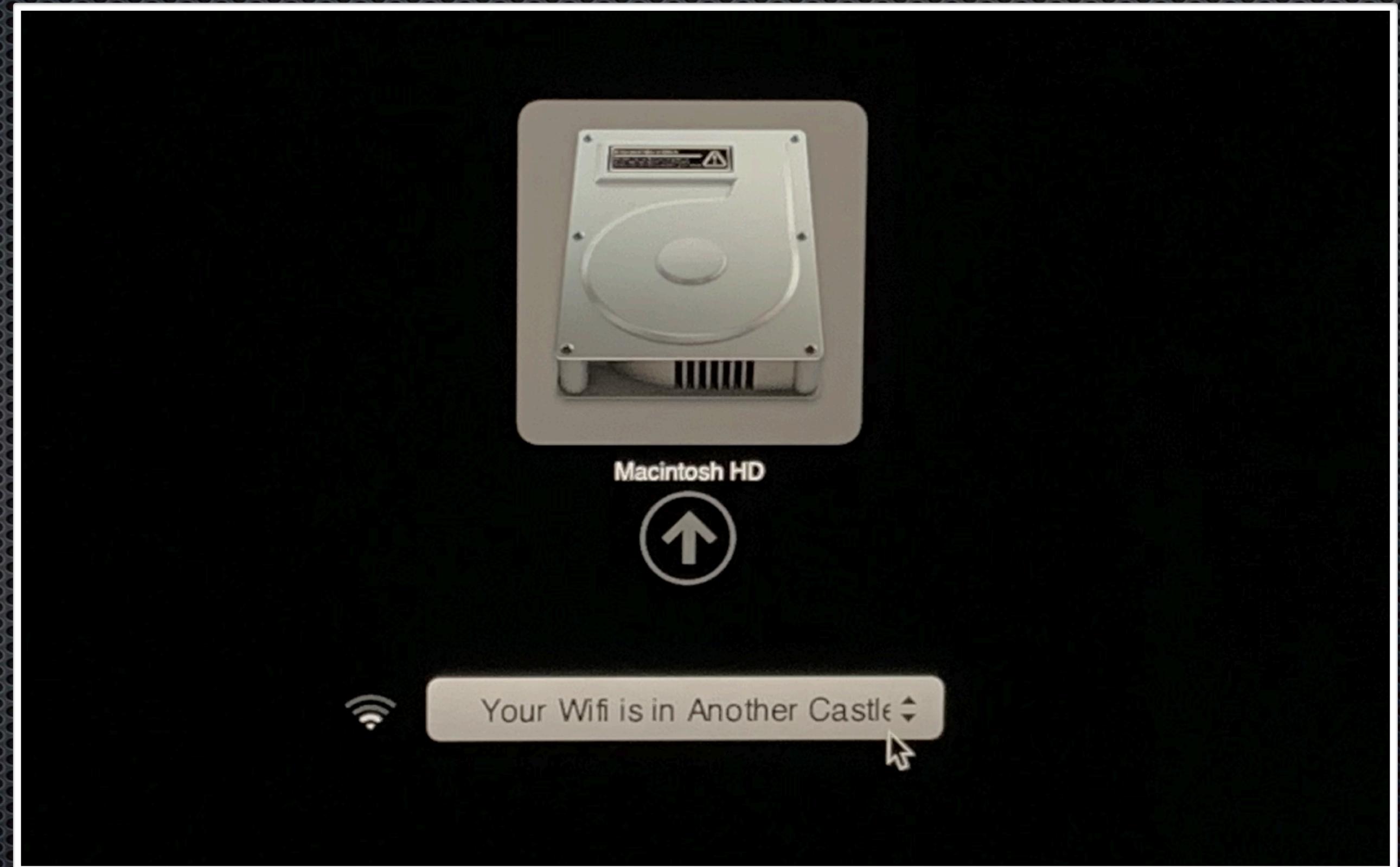


RECOVERY Boot Selection

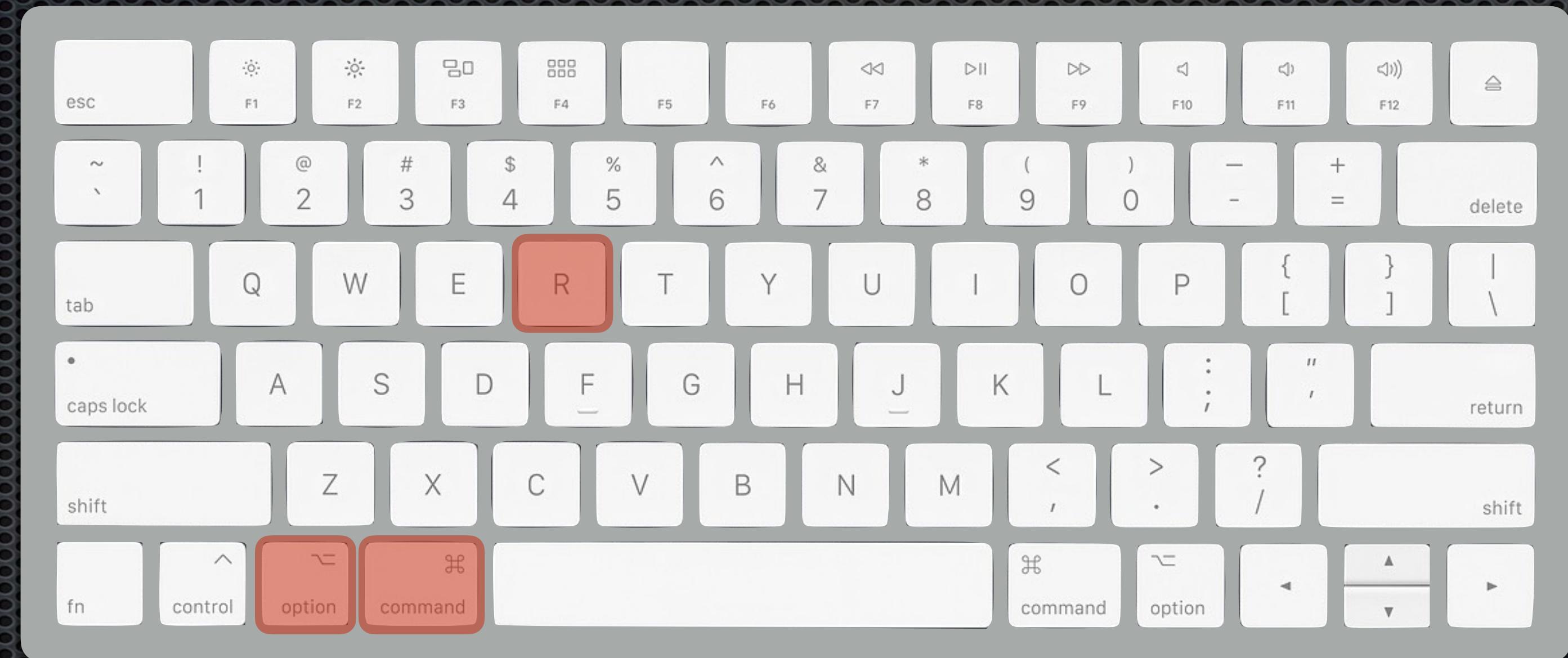


Local RECOVERY Partition Boot Mode

Boot Selection



Apple Network Recovery Selection



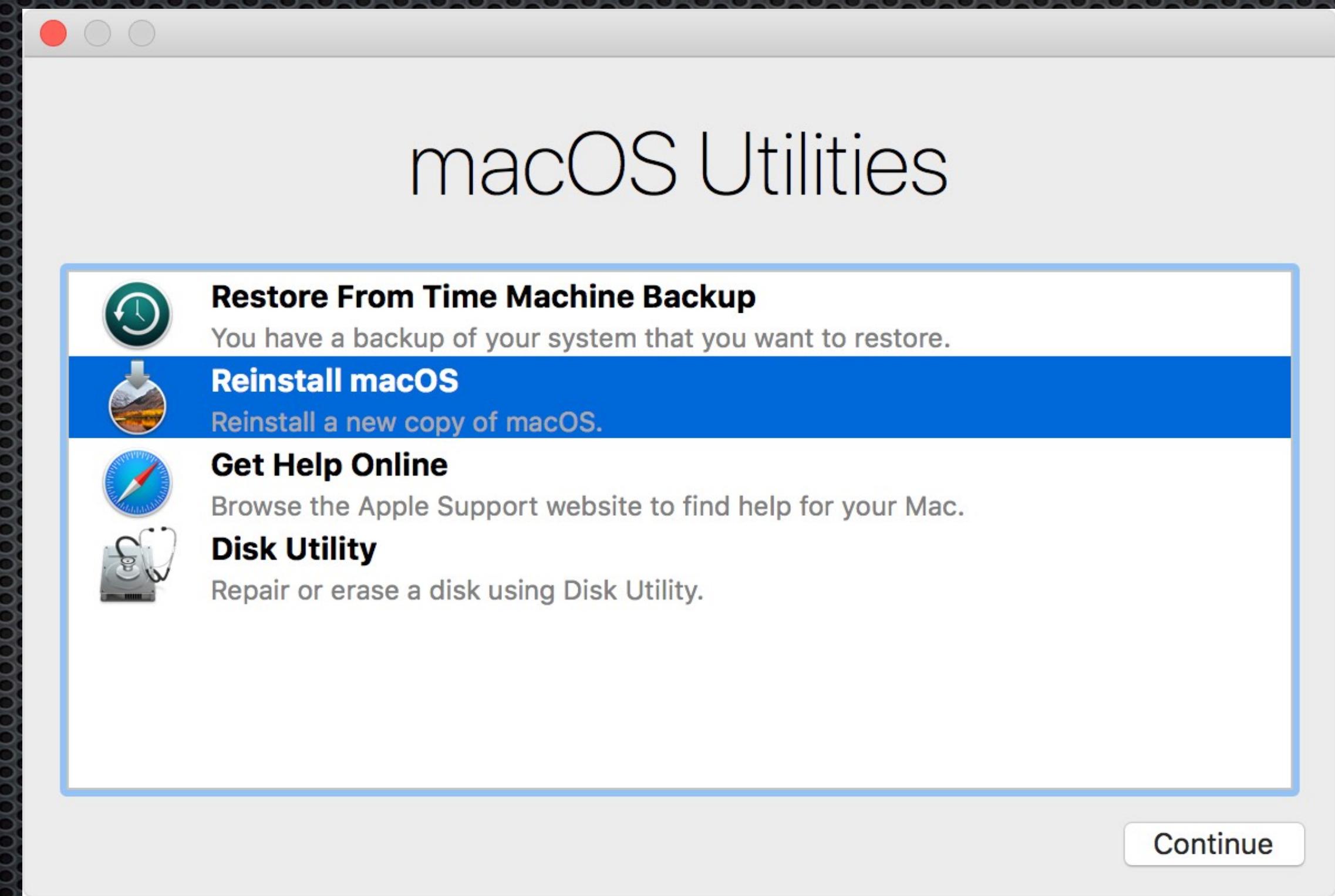
Manual Recovery Mode (Apple's Server)

Apple Network Recovery Selection

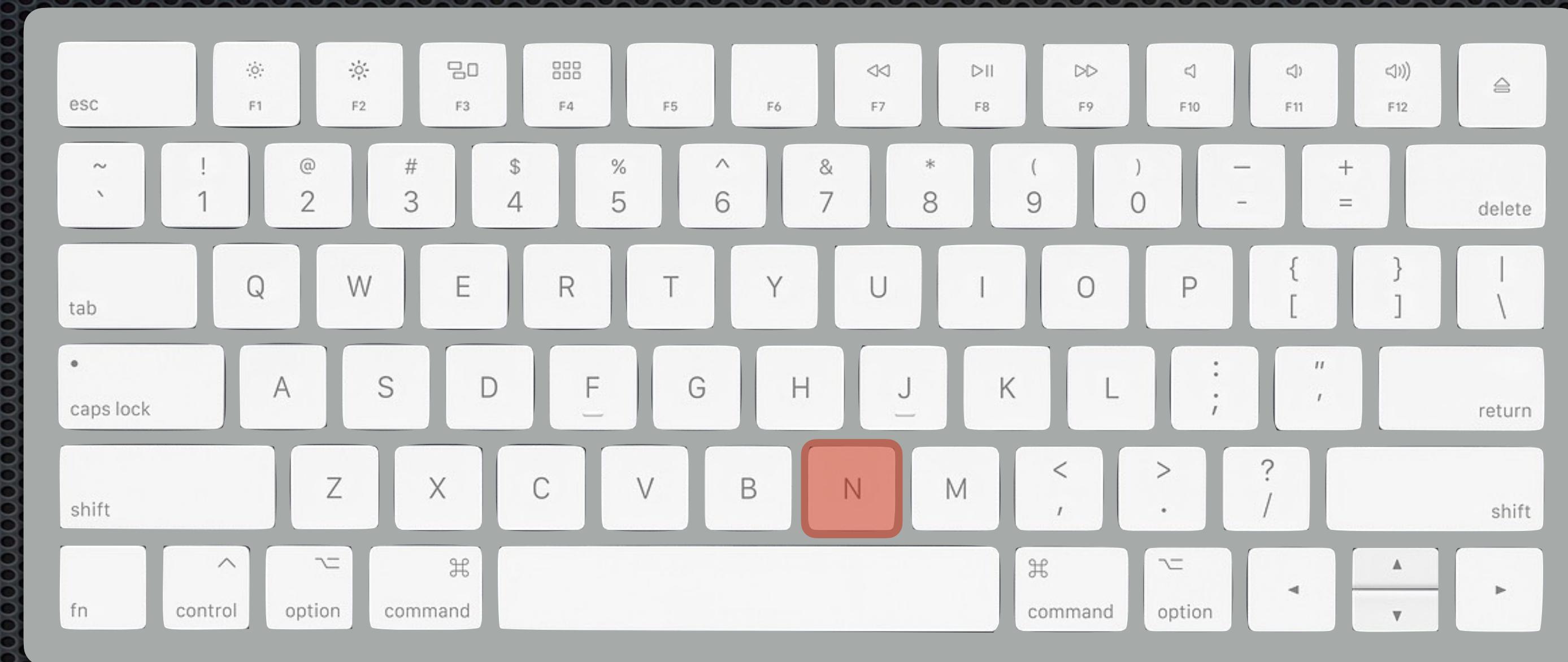


**Starting Internet Recovery.
This may take a while.**

MacOS Recovery Utilities



NetBoot Selection

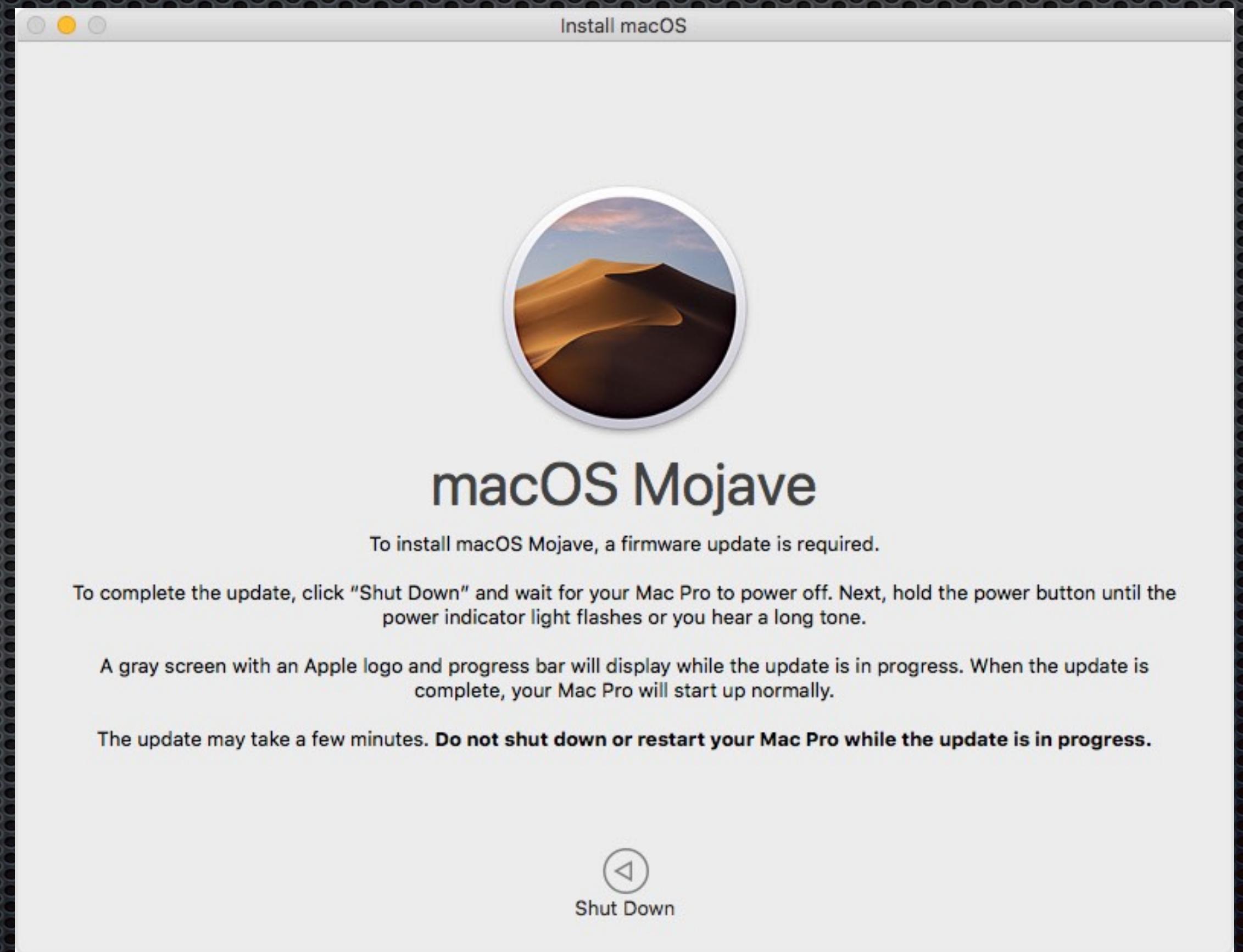


NetBoot (Legacy)

NetBoot Selection



Mac Firmware

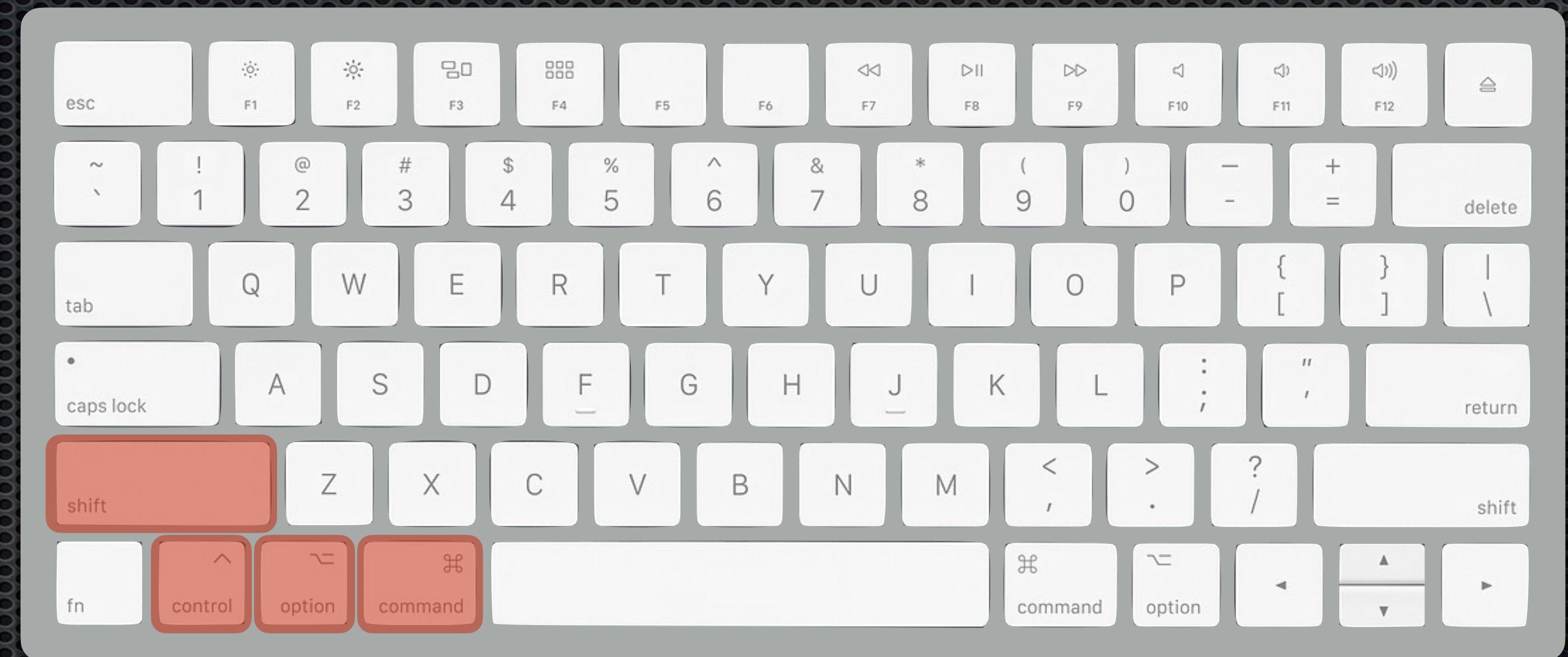


PRAM & SMC



“Zapping” the PRAM

PRAM & SMC



RESET SMC on MacBooks without Removable Battery

PRAM & SMC



REMOVE Battery & Unplug Power.
Hold for 5 seconds.

RESET SMC on MacBooks with Removable Battery

PRAM & SMC



Unplug Power.
Hold for 5 seconds.

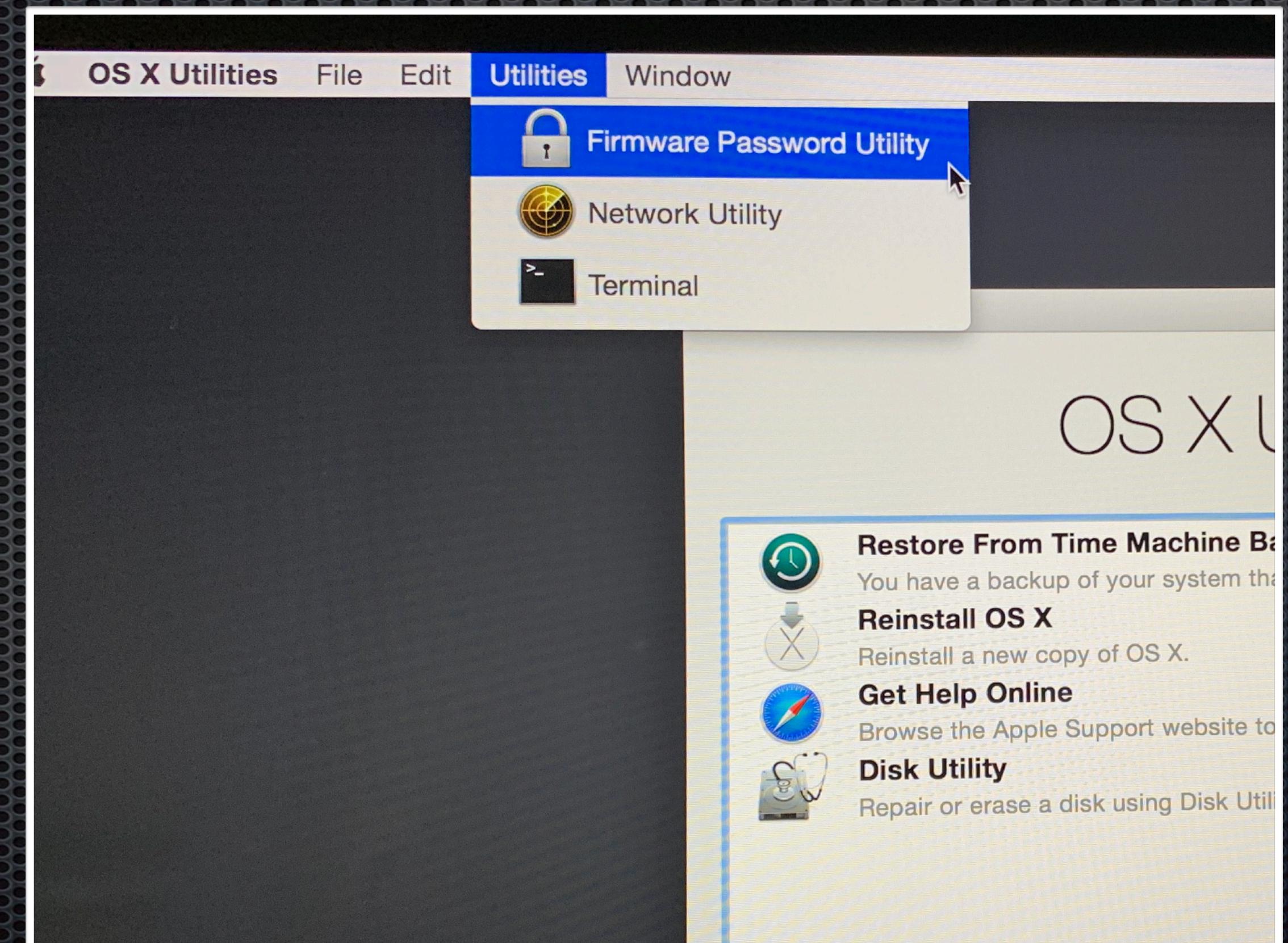
RESET SMC on Macs without Batteries

Boot Security

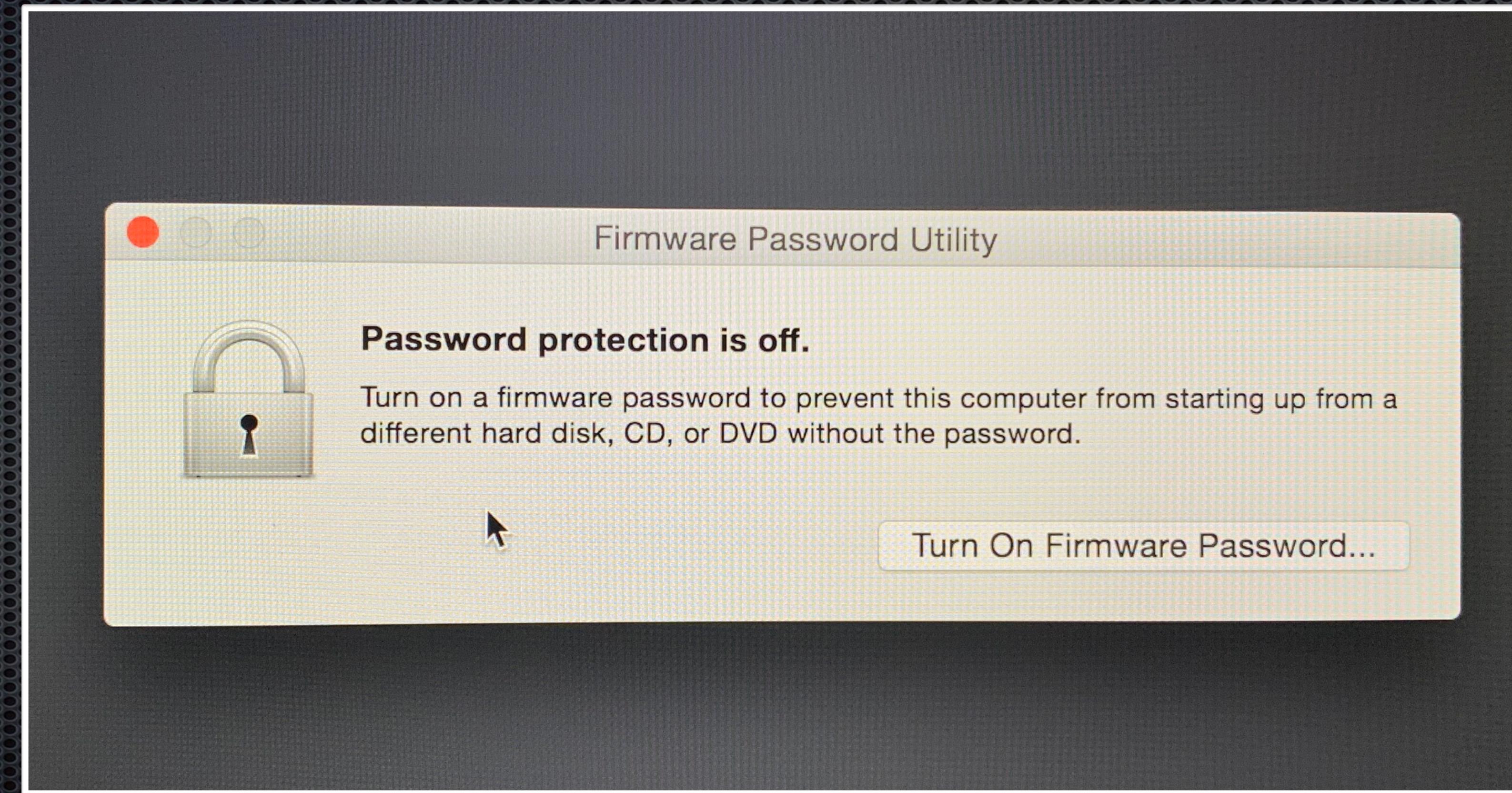


**Starting Internet Recovery.
This may take a while.**

Boot Security



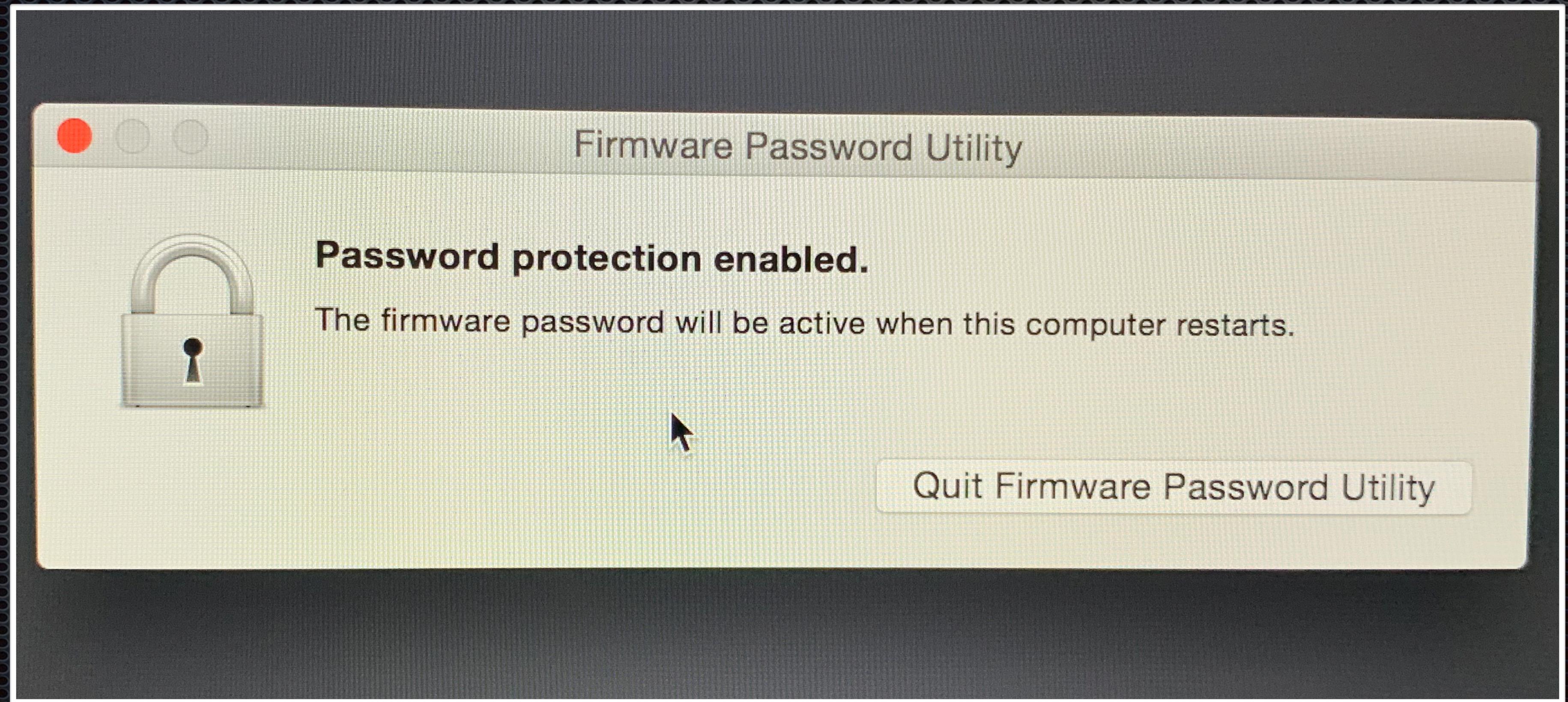
Boot Security



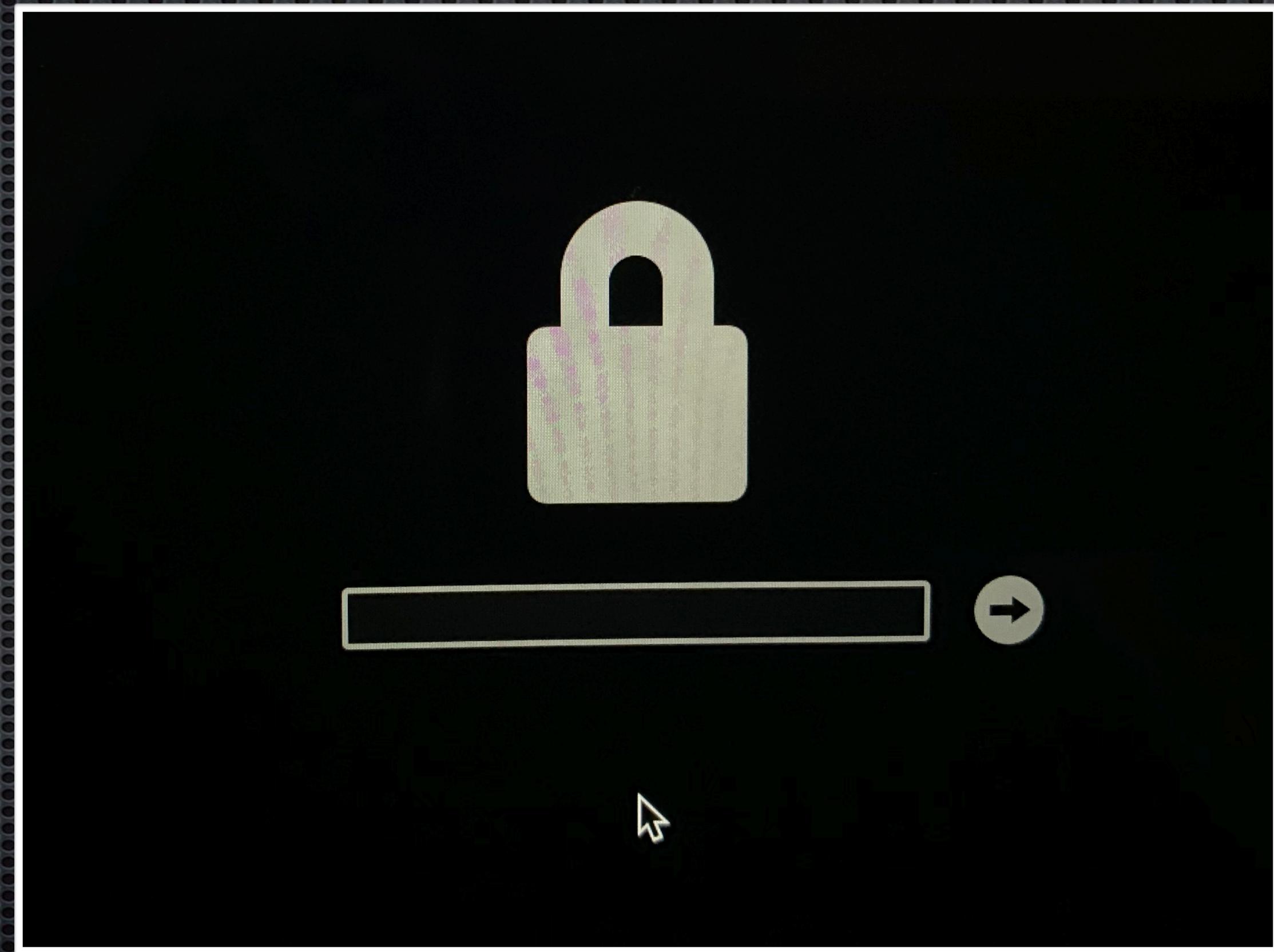
Boot Security



Boot Security



Boot Security

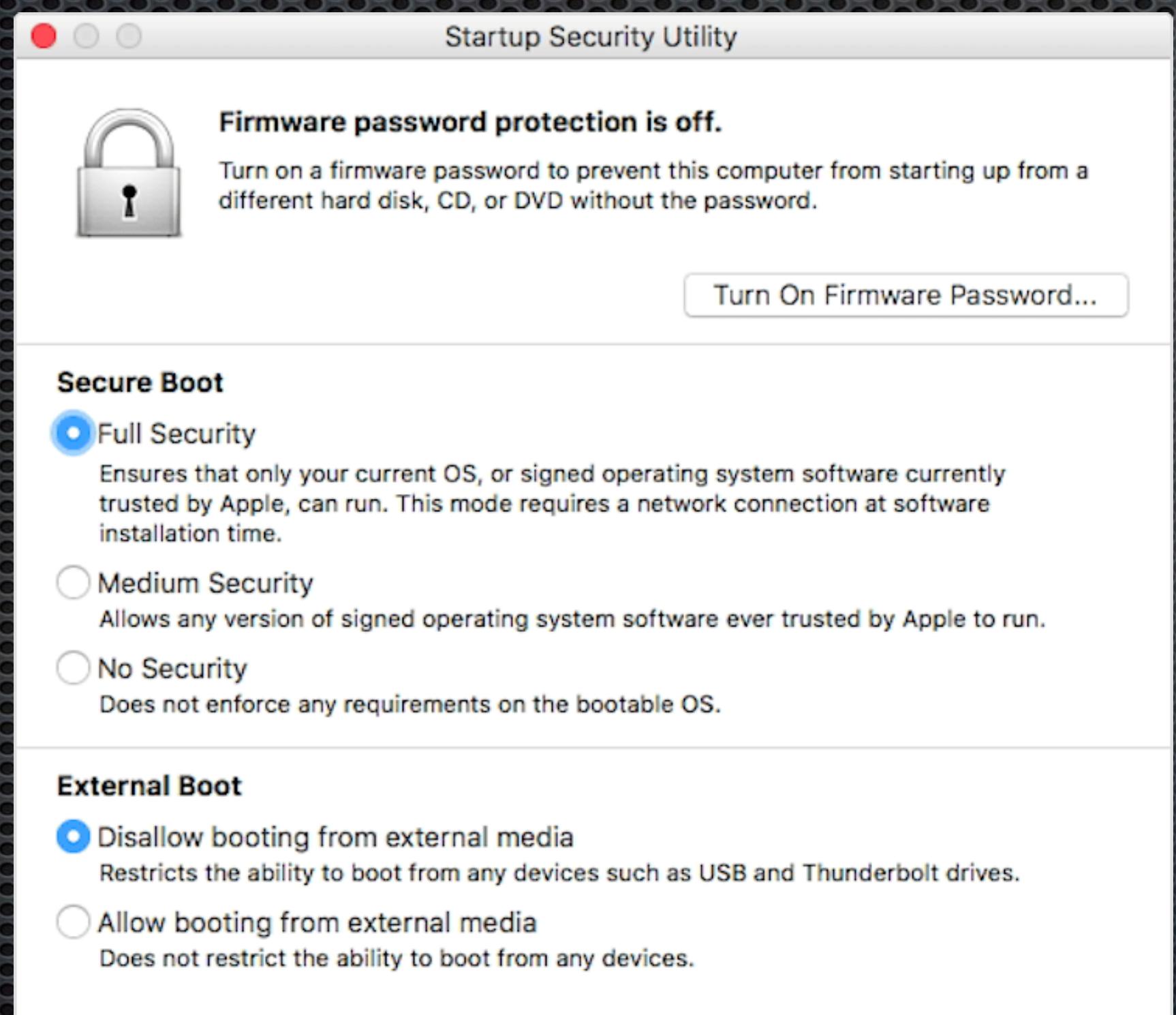


T2 Security Chip

- Disables NetBoot & Restricts Removable Media Boot.
- Disables (some) 3rd Party Repairs.
- Holds TouchID data (secure enclave).
- Adds hardware level security (audio/camera).



T₂ Security Chip



Startup Security Utility (T₂ Macs only)

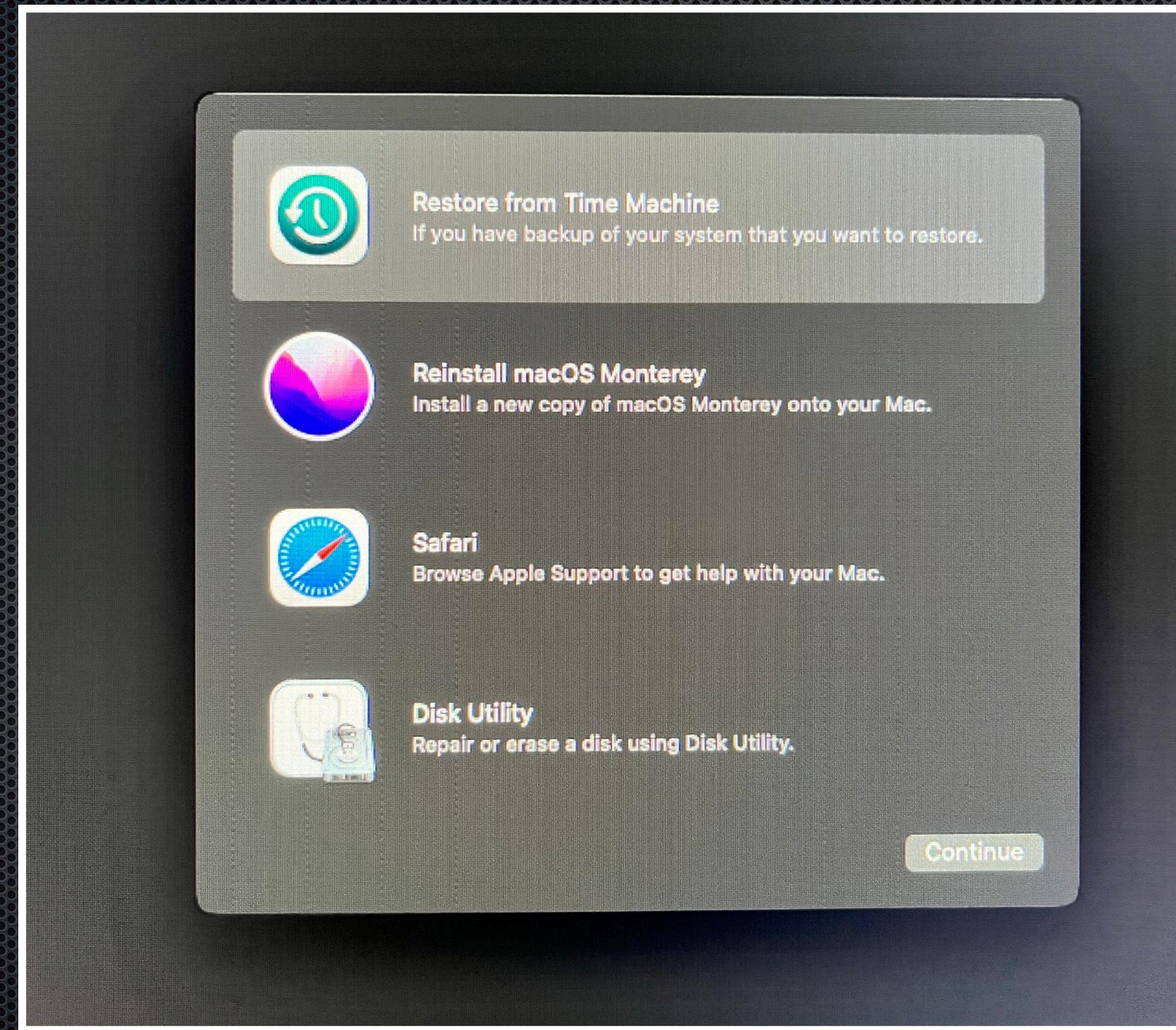
Apple Silicon Based Macs

Introduction

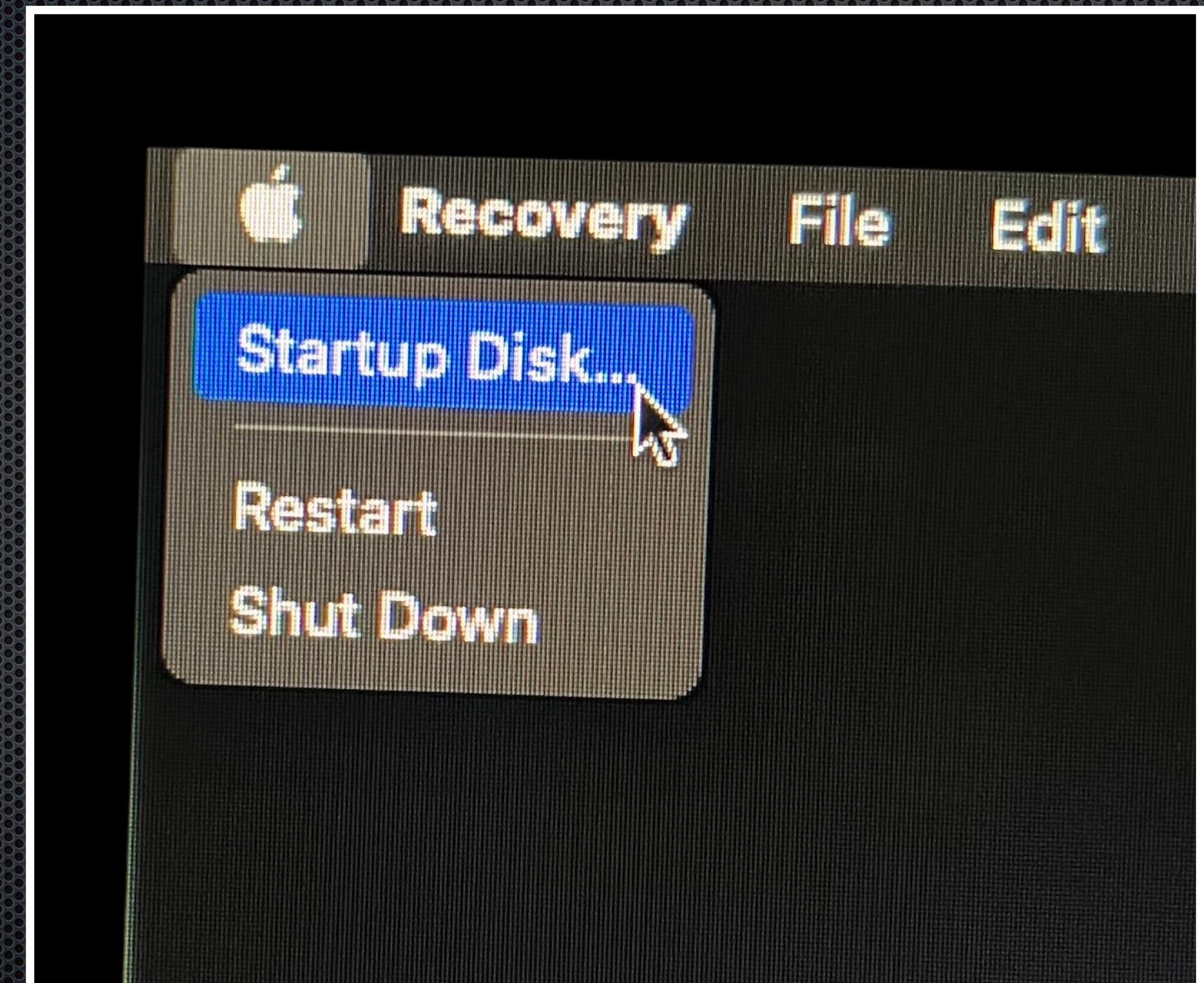
macOS Recovery

Intel Architecture

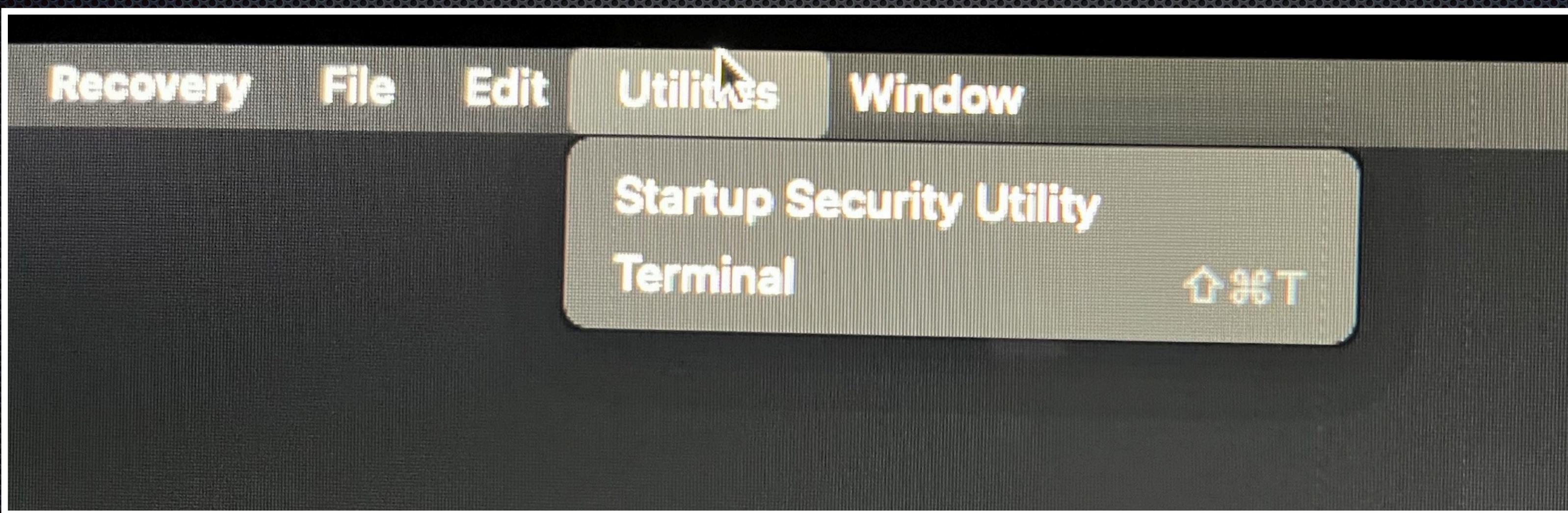
macOS Recovery



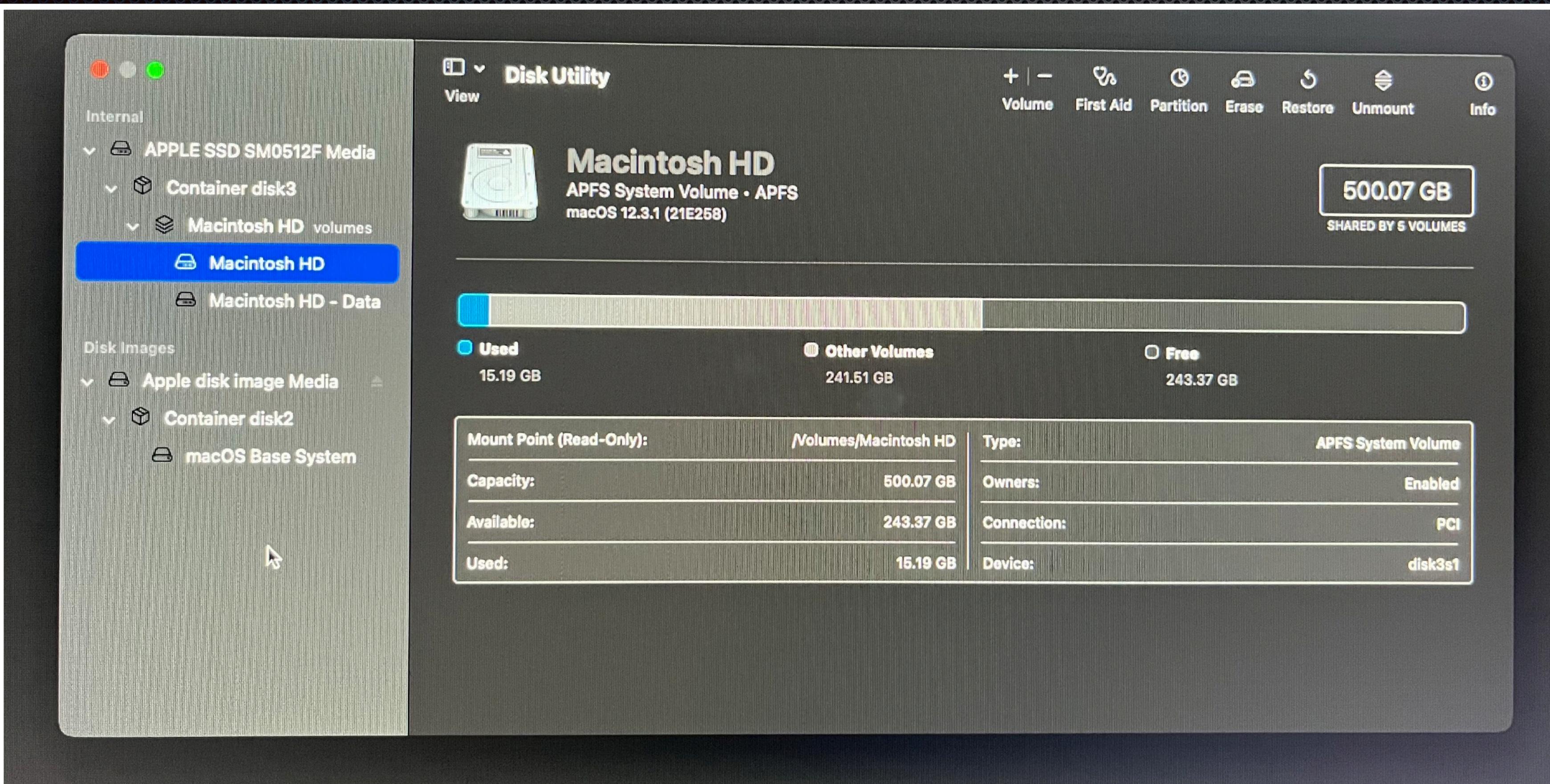
Startup Disk & Exiting Recovery



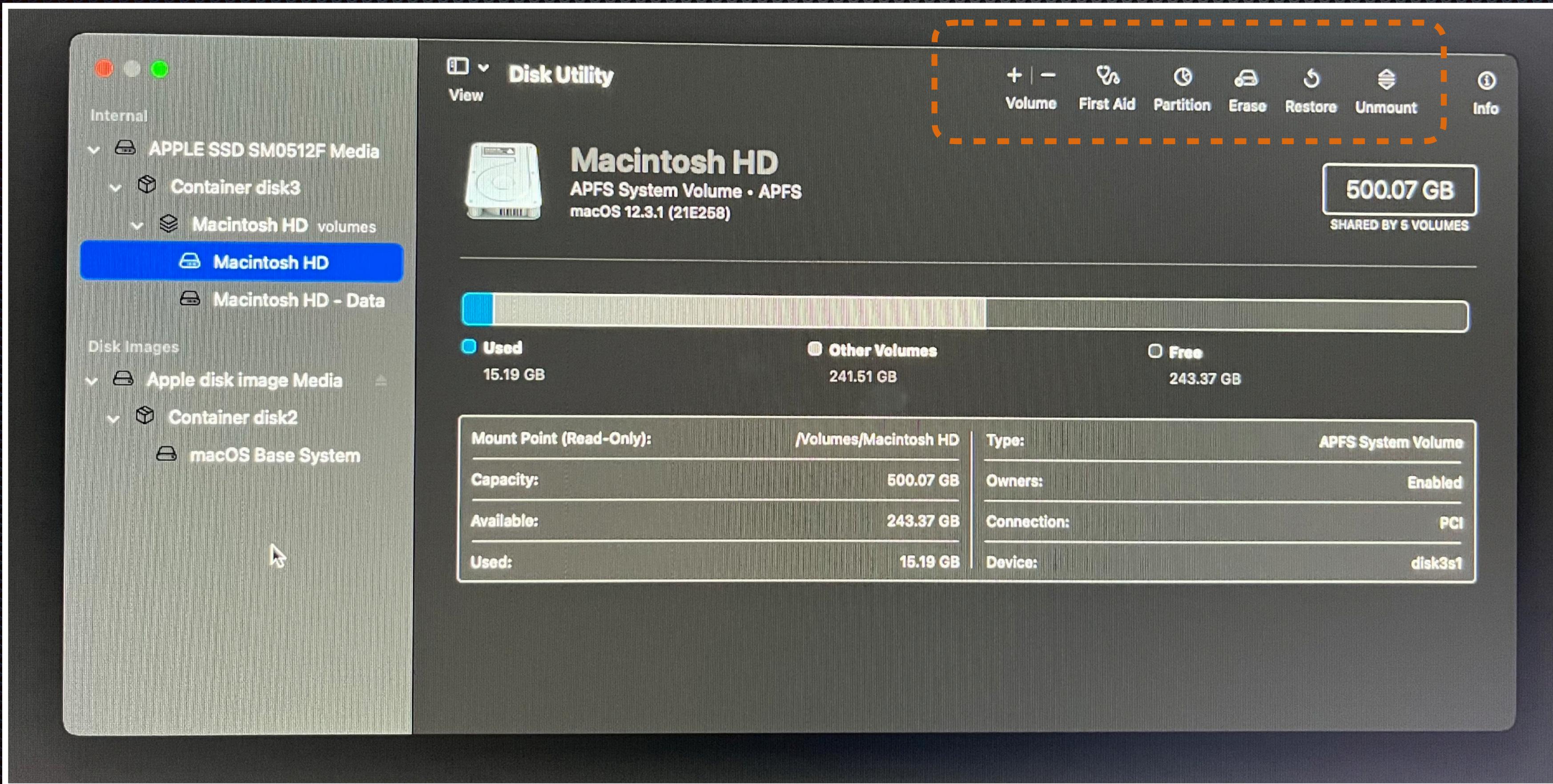
Utilities Menu Options



Disk Utility



Disk Utility



Macintosh HD	
APFS System Volume • APFS	
macOS 12.3.1 (21E258)	
+ -	Volume
	First Aid
	Partition
	Erase
	Restore
	Unmount
	Info
500.07 GB	
SHARED BY 5 VOLUMES	
<input checked="" type="radio"/> Used	<input type="radio"/> Other Volumes
15.19 GB	241.51 GB
<input type="radio"/> Free	<input type="radio"/> Free
243.37 GB	243.37 GB
Mount Point (Read-Only):	/Volumes/Macintosh HD
Capacity:	500.07 GB
Available:	243.37 GB
Used:	15.19 GB
Type:	APFS System Volume
Owners:	Enabled
Connection:	PCI
Device:	disk3s1

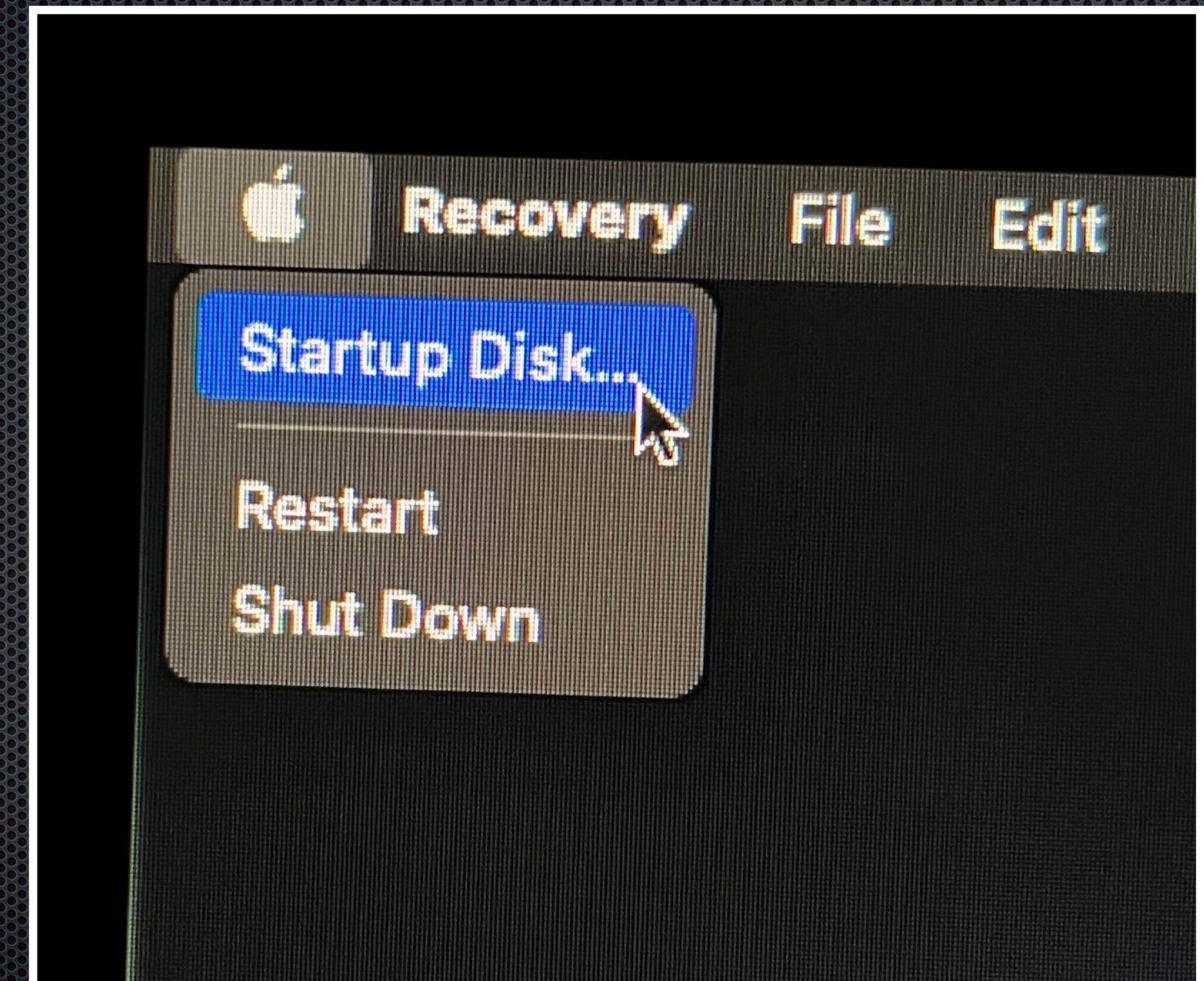
Recovery OS

Apple Silicon Architecture

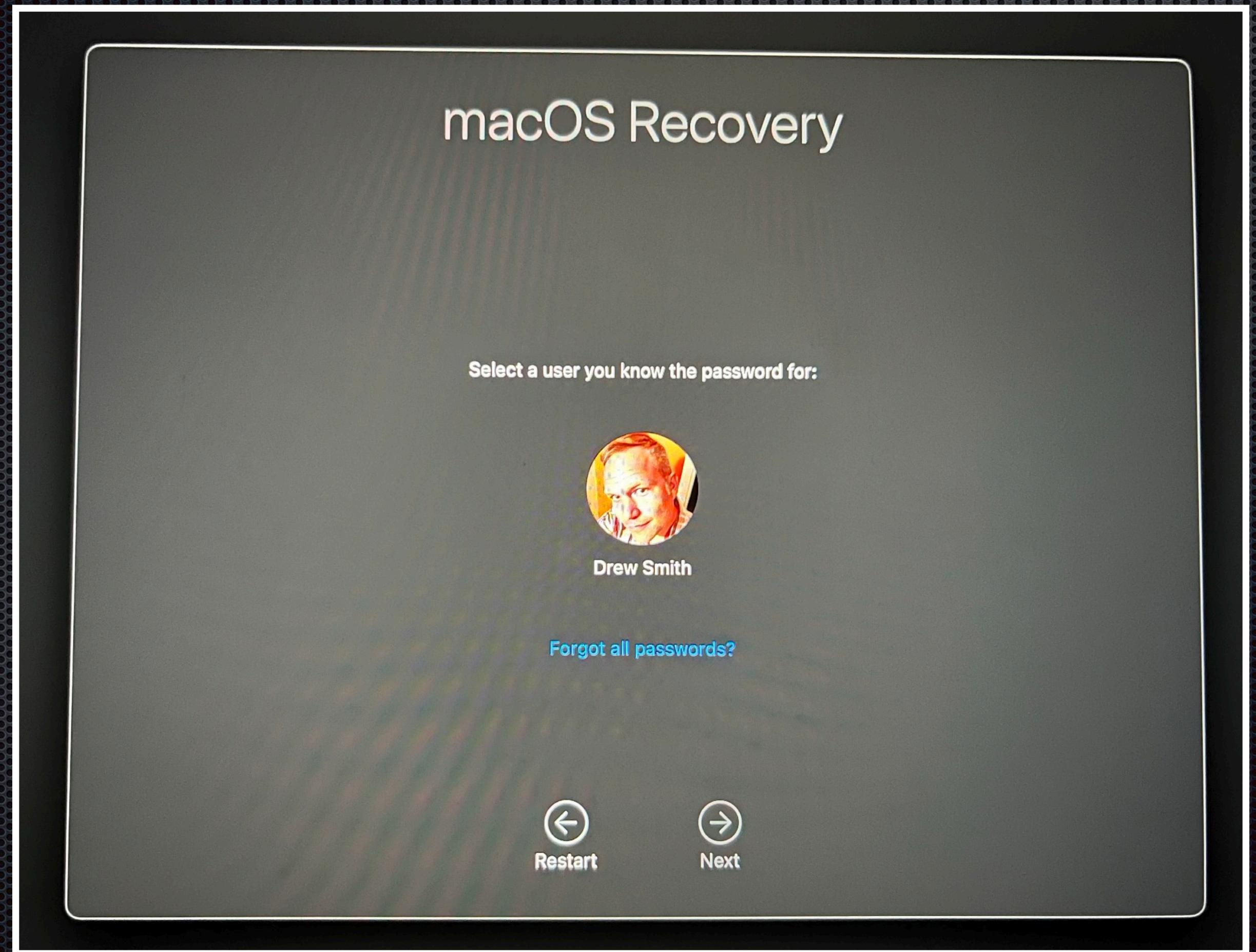
Booting into Recovery OS



Startup Disk & Exiting Recovery



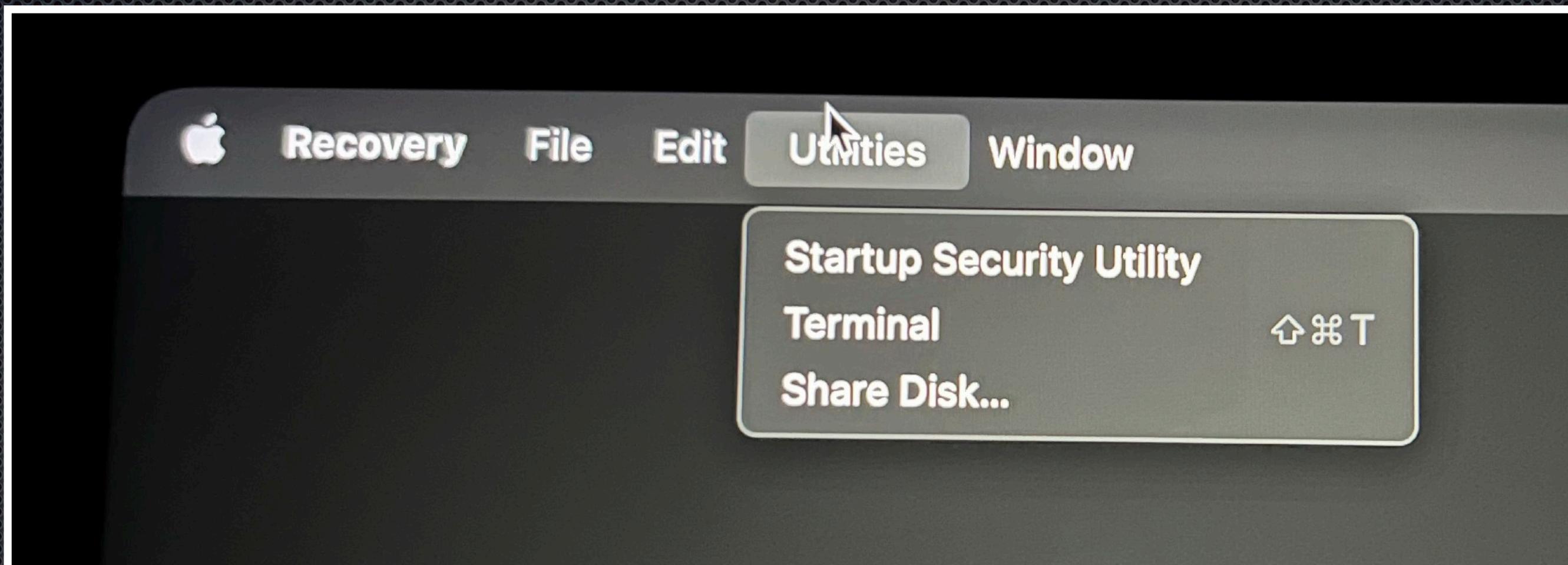
Authentication

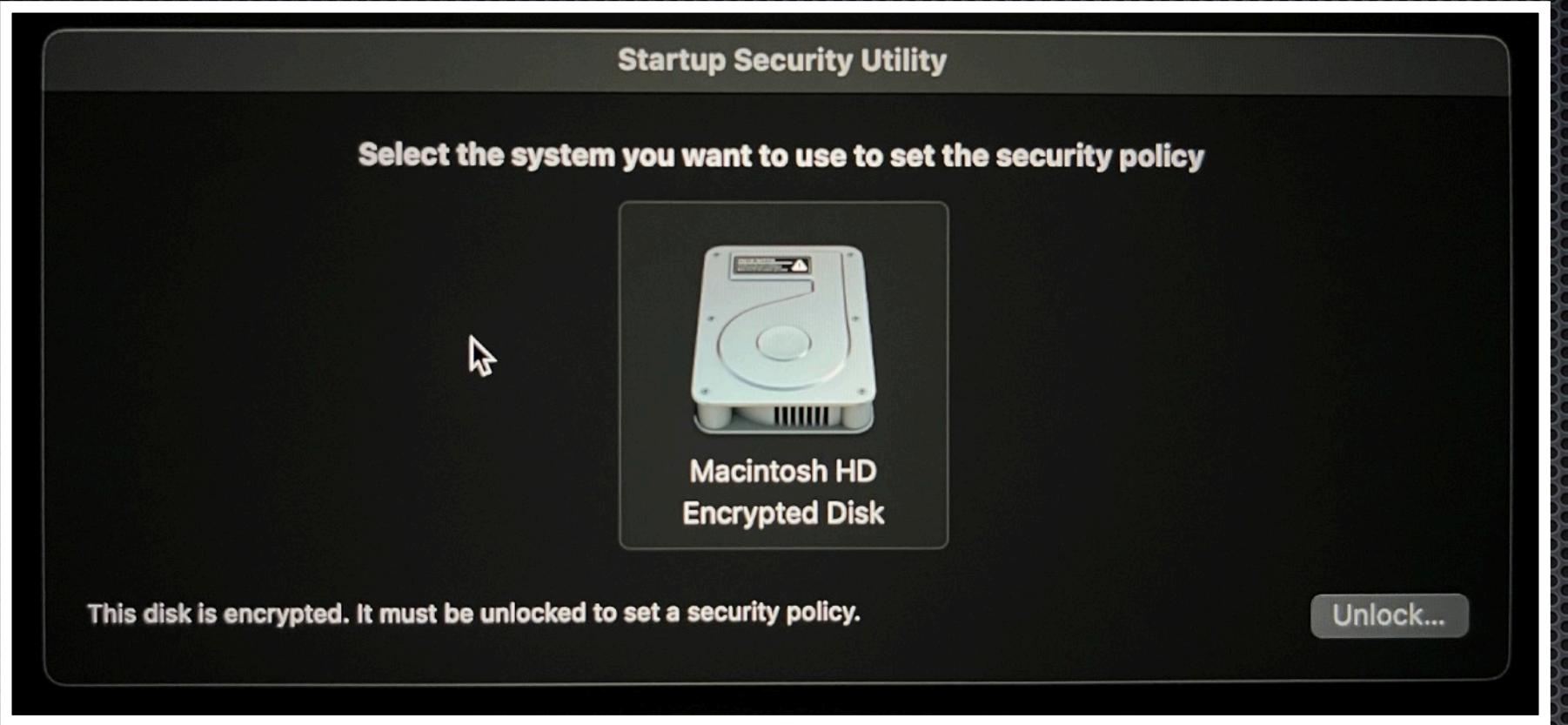


Recovery OS

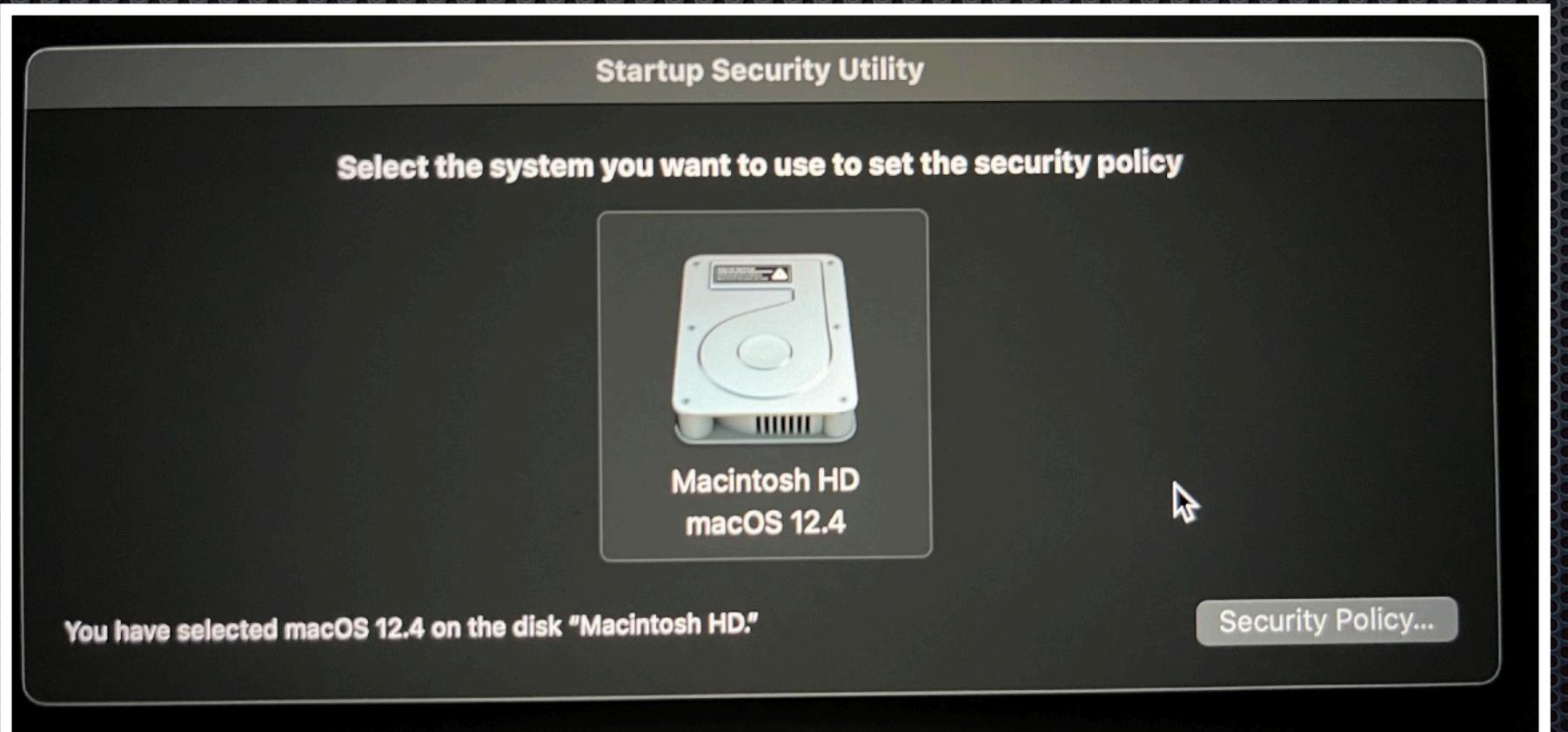


Utilities



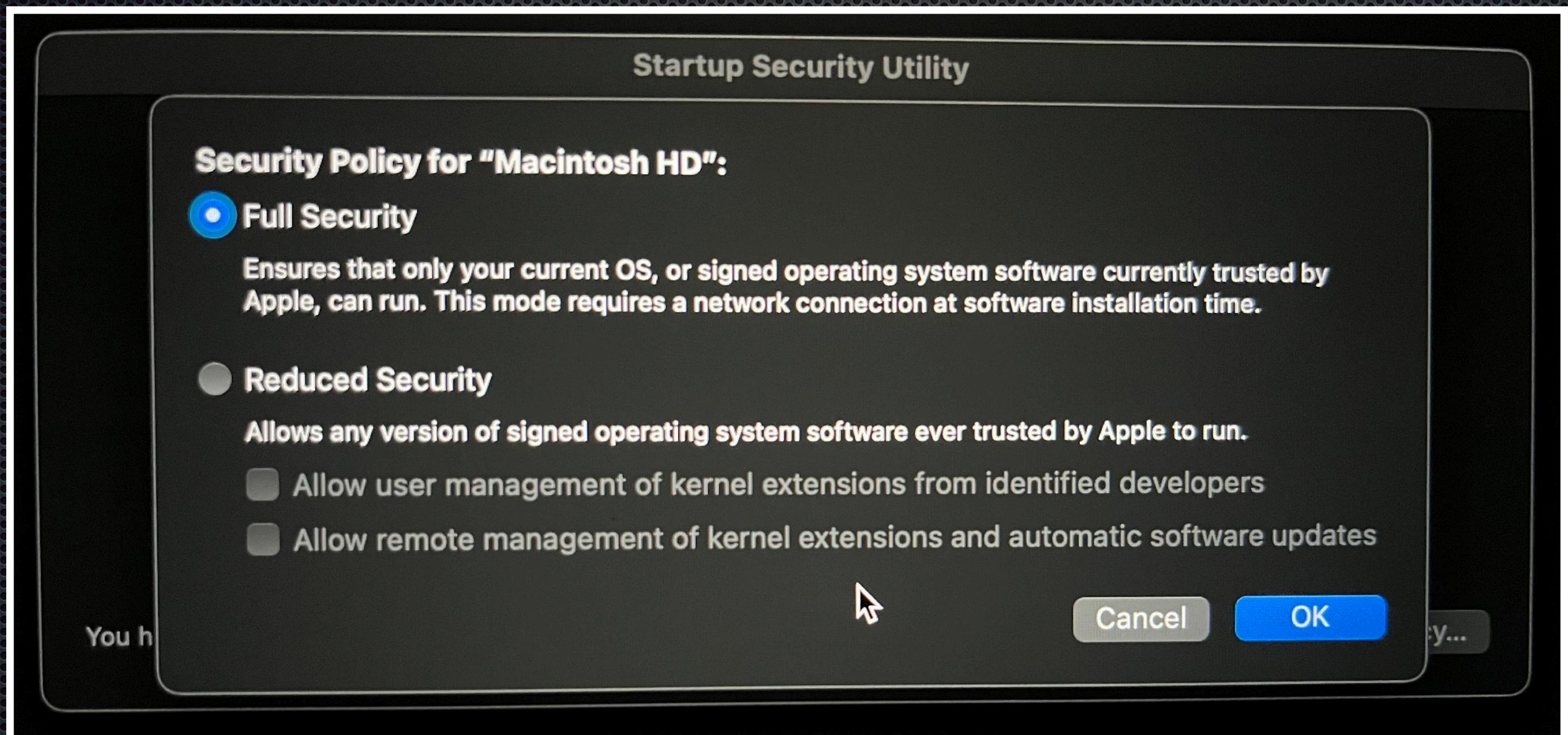


With FileVault



Without FileVault

Startup Security Utility



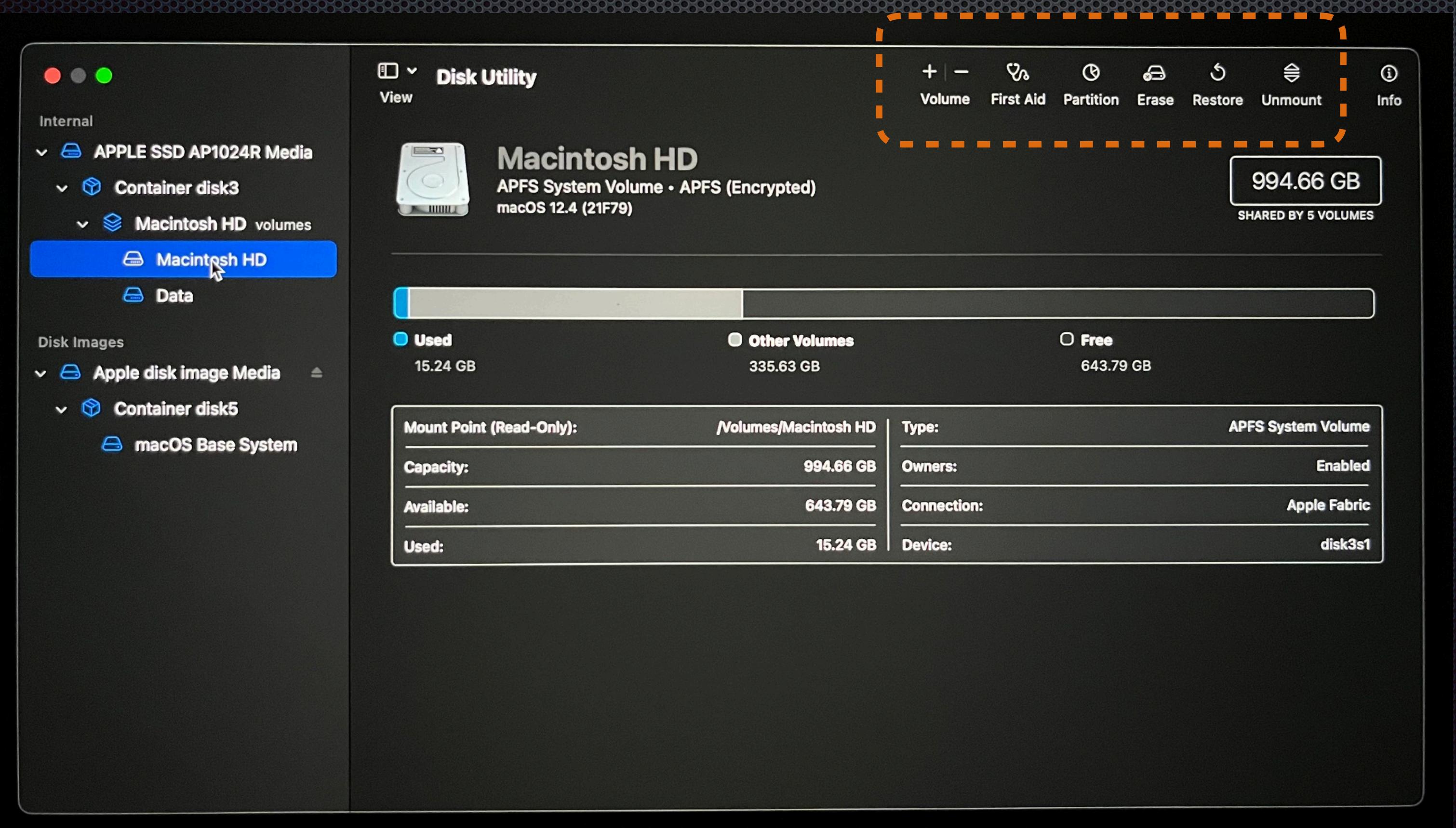
Share Disk Utility



Disk Utility



Disk Utility



Installing macOS

External Hard Disk

Installing macOS

Create Bootable Installation Media