



How to Configure  
Sonoma Blocker with Jamf Pro



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## Preface

### What is Sonoma Blocker?

Sonoma Blocker is a binary that listens for the macOS Sonoma installer application process and terminates the process which stops macOS Sonoma from being installed on a Mac Computer. Sonoma Blocker will NOT block macOS Sonoma from showing up in software update. You MUST use an MDM configuration profile to block macOS Sonoma from Software update but you are limited to only 90 days. After 90 days, users will be prompted to upgrade to macOS Sonoma.

While this is good for most end users, many organizations have Mac Computers that will not support macOS Sonoma as well as applications that may not run on macOS Sonoma.

The Sonoma Blocker binary is installed in `/usr/local/bin` and is launched for each user through a launch agent that is running in the user session and has the privileges of the current logged in user. Sonoma Blocker runs in the background and listens for app launch notifications. If a user launches the macOS Sonoma installer application, the Sonoma Blocker binary will forcefully terminate the process and display a warning message to the user.

NOTE: By design, Sonoma Blocker will NOT block the `startosinstall` command.

Sonoma Blocker does NOT require an MDM server.

### Requirements for Sonoma Blocker:

- A. macOS 11 or later
- B. Sonoma Blocker installer package. Get it here:  
<https://github.com/Theile/sonomablocker/releases>

If you want to enforce Sonoma Blocker and make sure it cannot be disabled, you can use configuration profiles and your MDM server. This guide will use Jamf Pro as the MDM server. Get the configuration profiles here:

<https://github.com/Theile/sonomablocker/tree/main#management-profiles>

There are two configuration profiles:

1. `sonomablocker.profile.mobileconfig` - Use this management profile to make sure Sonoma Blocker cannot be disabled by a user.
2. `dk.envo-it.sonomablocker.plist` - Use this to display a custom message to the user when they try and run the macOS Sonoma from the applications folder. Use the contents of the plist to create an Application & Custom Settings configuration profile in Jamf Pro.

NOTE: If you don't have an MDM server, you can install the Sonoma Blocker package manually or via Apple Remote Desktop to multiple Mac Computers. This guide will focus on deploying and configuring Sonoma Blocker using Jamf Pro with the mobile configuration profiles.

This guide will use the following:

1. Mac Computer running macOS 13.6.1
2. Jamf Pro Server version 11.0.1
3. Sonoma Blocker version 20230921



## Section 1: Download Sonoma Blocker and macOS Sonoma

### 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:

- Sonoma Blocker installer package
- Sonoma Blocker configuration profiles
- macOS Sonoma installer. This guide will use version 14.1

We recommend following the steps below on a Mac Computer that is running macOS Big Sur or later. Do not use a Mac Computer that is running macOS Sonoma. In this section we will download all the items needed to follow along with this guide.

1. Download the Sonoma Blocker package here:  
<https://github.com/Theile/sonomablocker/releases>

### Sonoma Blocker v20230921 Latest

Sonoma Blocker that will now block the full installer of Sonoma:

- com.apple.InstallAssistant.Sonoma
- com.apple.InstallAssistant.macOSSonoma
- com.apple.InstallAssistant.Seed.macOS14Seed0
- com.apple.InstallAssistant.Seed.macOS14Seed1

Installer has been signed and notarized.

Previous version had an incorrect removal-script so I have made a new release with same version, as peg is identical.

#### ▼ Assets 3

<a href="#">sonomablocker-20230921.pkg</a>	44.3 KB	Sep 21
<a href="#">Source code (zip)</a>		Sep 21
<a href="#">Source code (tar.gz)</a>		Sep 21

2. Download the Sonoma Blocker configuration profiles here:  
<https://github.com/Theile/sonomablocker/tree/main/Management%20profiles>  
Click on dk.envo-it.sonomablocker.plist

NOTE: Another Option for getting the configuration profiles is to download the Source code (zip) file which is shown in the picture in step 1. That file contains the configuration profiles as well.

[sonomablocker](#) / [Management profiles](#) /

**Theile** Management profiles

---

Name
..
<a href="#">dk.envo-it.sonomablocker.plist</a>
sonomablocker profile.mobileconfig



3. Click Download (↓).
4. Click Management profiles.

4 [sonomablocker](#) / **Management profiles** / [dk.envo-it.sonomablocker.plist](#)

**Theile** Management profiles ee1cbf5 · last month

10 lines (10 loc) · 454 Bytes Code 55% faster with GitHub Copilot

**Code** Blame Raw

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <!DOCTYPE plist PUBLIC "-//Apple//DTD PLIST 1.0//EN" "http://www.apple.com/DTDs/PropertyList-1.0.dtd">
3 <plist version="1.0">
4   <dict>
5     <key>AlertTitle</key>
6     <string>macOS 14 Sonoma installation prohibited</string>
7     <key>AlertText</key>
8     <string>We do not currently support macOS 14 Sonoma in our configurations, so it has been blocked for installa
9   </dict>
10  </plist>
```

3

5. Click on sonomablocker profile.mobileconfig

[sonomablocker](#) / [Management profiles](#) /

**Theile** Management profiles

Name
..
dk.envo-it.sonomablocker.plist
<b>sonomablocker profile.mobileconfig</b>

6. Click Download (↓).

[sonomablocker](#) / [Management profiles](#) / [sonomablocker profile.mobileconfig](#)

**Theile** Management profiles ee1cbf5 · last month

**Code** Blame 42 lines (42 loc) · 1.21 KB Code 55% faster with GitHub Copilot Raw

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <!DOCTYPE plist PUBLIC "-//Apple//DTD PLIST 1.0//EN" "http://www.apple.com/DTDs/PropertyList-1.0.dtd">
3 <plist version="1.0">
4   <dict>
5     <key>PayloadContent</key>
6     <array>
7       <dict>
8         <key>PayloadDisplayName</key>
9         <string>Service Management - Managed Login Items</string>
10        <key>PayloadIdentifier</key>
11        <string>com.apple.servicemanagement.B653ECAA-68F3-4A6C-BF95-9CD9C33F7B29</string>
12        <key>PayloadType</key>
13        <string>com.apple.servicemanagement</string>
14        <key>PayloadUUID</key>
15        <string>B653ECAA-68F3-4A6C-BF95-9CD9C33F7B29</string>
16        <key>PayloadVersion</key>
17        <integer1</integer>
18        <key>Rules</key>
19        <array>
```



7. Download macOS Sonoma 14.1 here:

<https://mrmacintosh.com/macOS-sonoma-full-installer-database-download-directly-from-apple/#:~:text=Date-,InstallAssistant.pkg,-14.1>

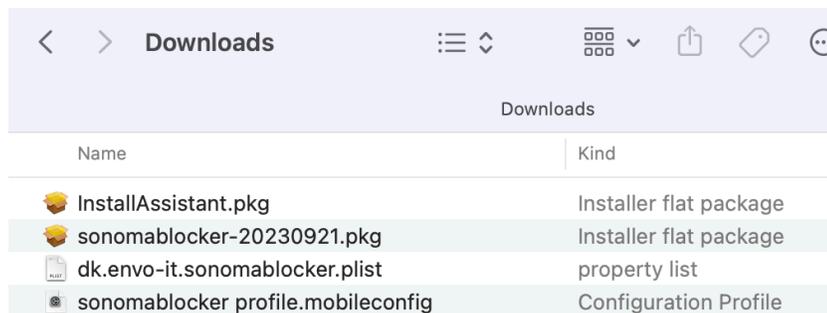
NOTE: This file is almost 13 GB in size and may take a while to download depending on your internet speed. There are other ways to get the macOS Sonoma installer but this guide will use this method for simplicity.

## macOS Sonoma Final Full Installer

macOS Sonoma Final	Version	Build	App	Avail	Date
<a href="#">InstallAssistant.pkg</a>	14.1	23B74		YES	10/25
<a href="#">InstallAssistant.pkg</a>	14.1	23B2077	M3 only	YES	11/01
<a href="#">InstallAssistant.pkg</a>	14.0	22A344	19.0.02	YES	9/26

8. Confirm the following files are in your downloads folder:

- A. Sonomablocker-20230921.pkg
- B. dk.envo-it.sonomablocker.plist
- C. sonomablocker profile.mobileconfig
- D. InstallAssistant.pkg





## Section 2: Configure the Jamf Pro Server

### What You'll Need

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

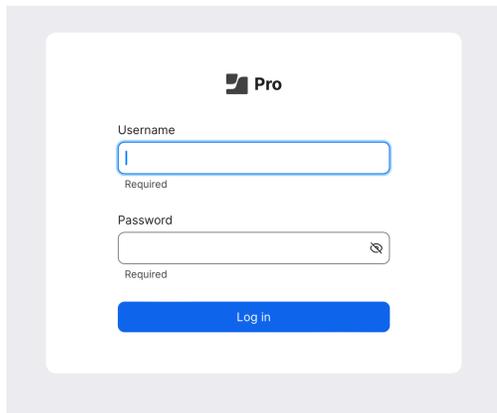
### Hardware and Software

Requirements for following along with this section:

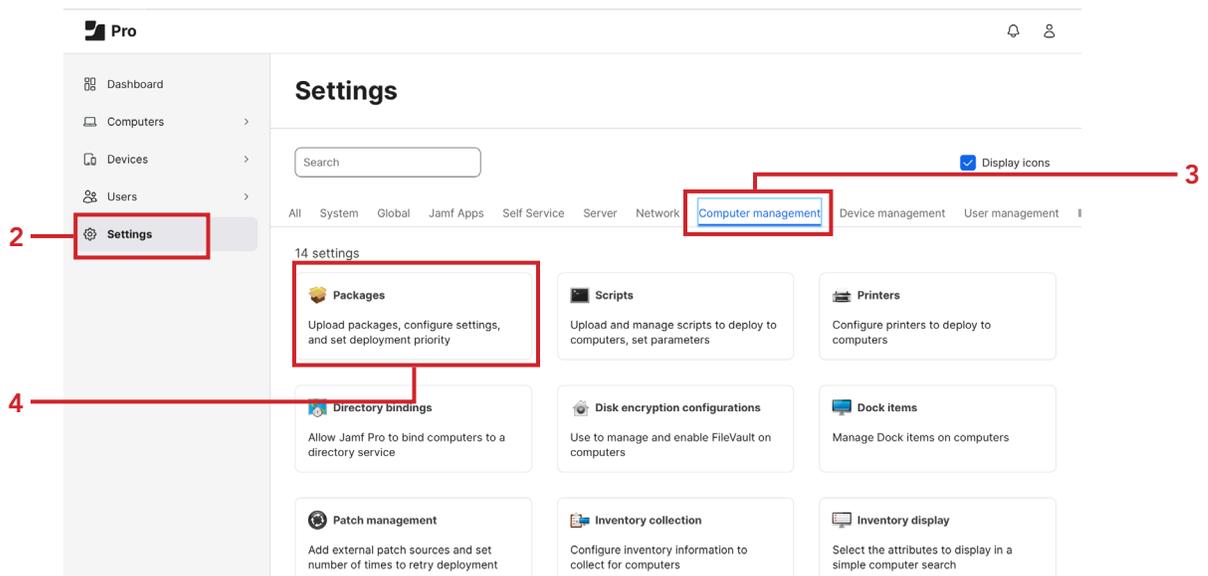
- Administrative access to your Jamf Pro server
- Completion of section 1 of this guide
- Mac Computer running macOS Big Sur or later. NOT running macOS Sonoma

In this section we will configure the Jamf Pro server with all the items needed to deploy and configure Sonoma Blocker.

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

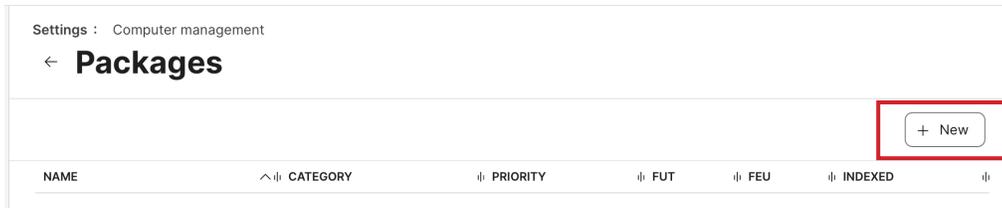


2. Click Settings.
3. Click Computer Management.
4. Click Packages.



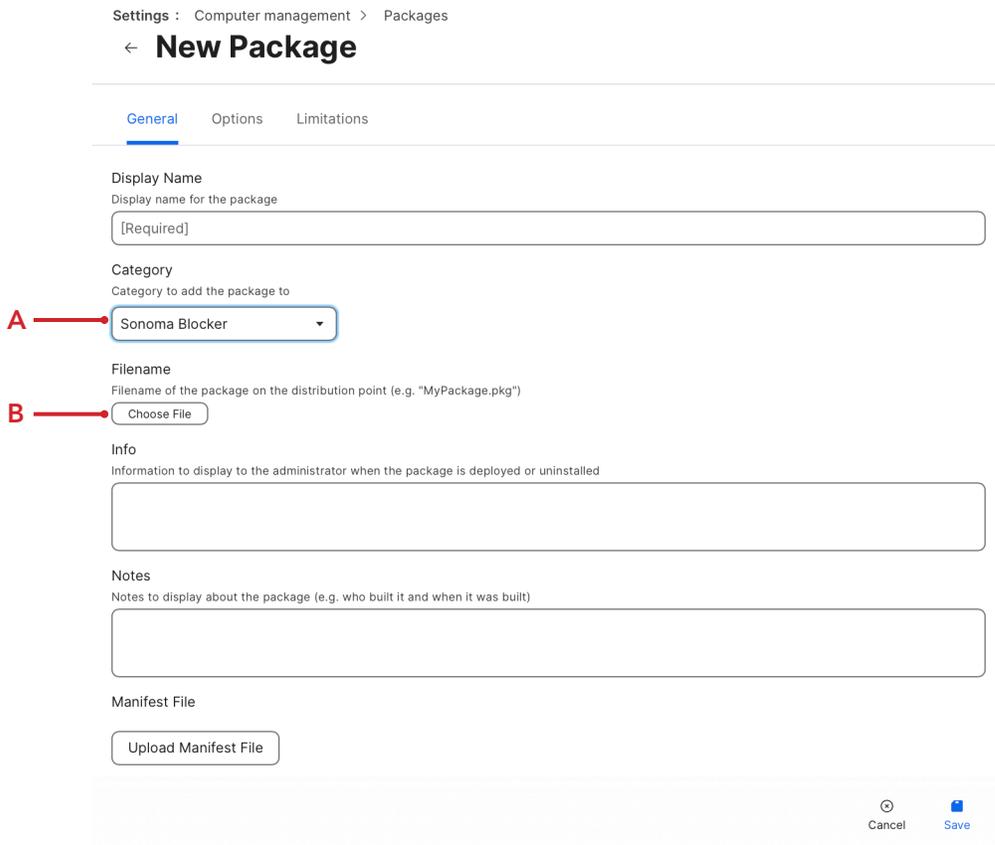


5. Click New.



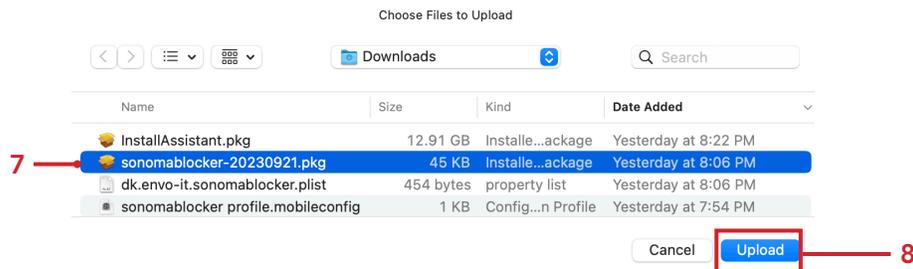
6. Configure the following:

- A. Select a Category. This guide will use Sonoma Blocker.
- B. Click Choose File. Navigate to your Downloads folder.



7. Select sonomablocker-20230921.pkg.

8. Click Upload.





9. Click Save.

Settings : Computer management > Packages

**< New Package**

---

[General](#)   [Options](#)   [Limitations](#)

---

**Display Name**  
Display name for the package

**Category**  
Category to add the package to

**Filename**  
Filename of the package on the distribution point (e.g. "MyPackage.pkg")

**Info**  
Information to display to the administrator when the package is deployed or uninstalled

**Notes**  
Notes to display about the package (e.g. who built it and when it was built)

**Manifest File**

10. Confirm the upload is complete.

NOTE: The Availability pending message is normal and will go away on its own.

Settings : Computer management > Packages

**< sonomablocker-20230921.pkg**

---

 Availability pending

---

[General](#)   [Options](#)   [Limitations](#)

---

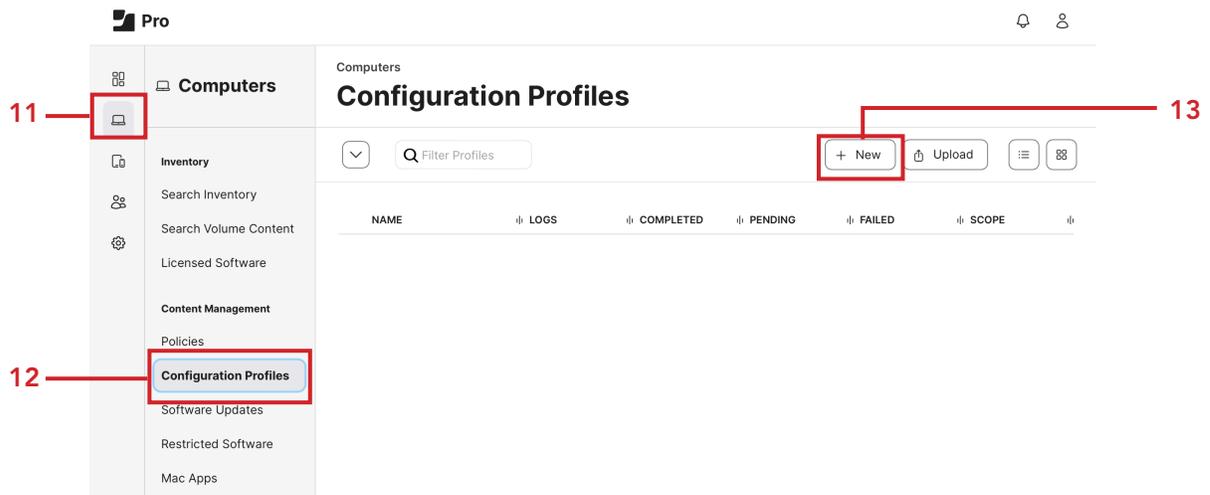
**Display Name**  
Display name for the package

**Category**  
Category to add the package to

**Filename**  
Filename of the package on the distribution point (e.g. "MyPackage.pkg")



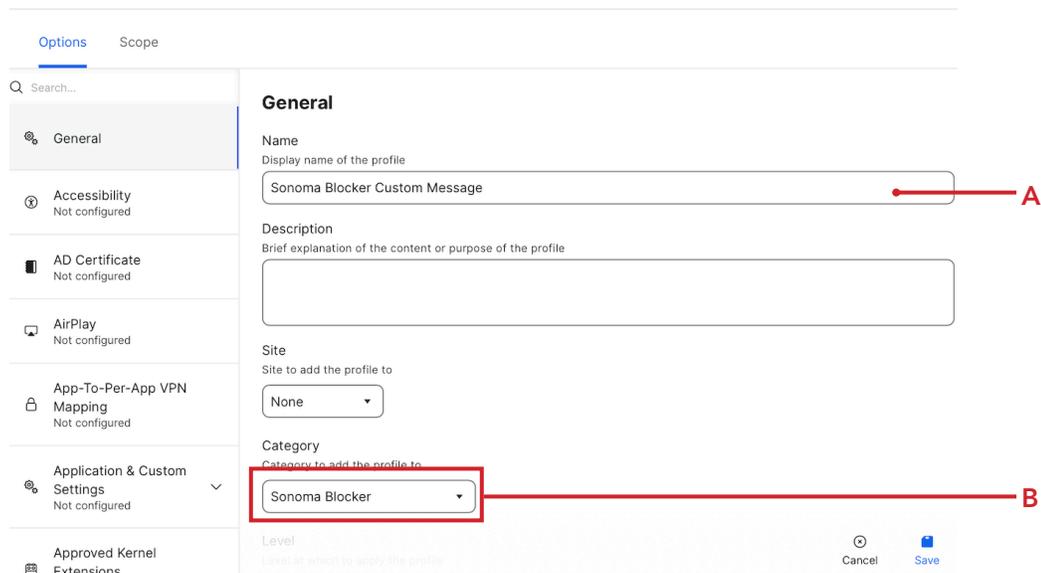
11. Click Computers.
12. Click Configuration Profiles.
13. Click New.



14. Configure the following:
  - A. Name: Sonoma Blocker Custom Message
  - B. Category: Select a category of your choosing. This guide will use Sonoma Blocker.

Computers : Configuration Profiles

## ← New macOS Configuration Profile





- 15. Click Application & Custom Settings.
- 16. Click Upload
- 17. Click Add.

Computers : Configuration Profiles  
← **New macOS Configuration Profile**

Options Scope

Search...

App-To-Per-App VPN Mapping Not configured

Application & Custom Settings Not configured

Jamf Applications

External Applications

Upload

**Upload**  
Use this section to define generic settings for preference domains.

Remove all + Add

- 18. In the Preference Domain field, enter: dk.envo-it.sonomablocker.

Computers : Configuration Profiles  
← **New macOS Configuration Profile**

Options Scope

Search...

App-To-Per-App VPN Mapping Not configured

Application & Custom Settings 1 payload configured

Jamf Applications

External Applications

Upload

Approved Kernel Extensions Not configured

Associated Domains Not configured

Certificate Not configured

**Upload**  
1 payload configured

Remove all + Add

**dk.envo-it.sonomablocker**  
Use this section to define generic settings for preference domains.

Preference Domain  
The name of the preference domain (com.company.application)

dk.envo-it.sonomablocker

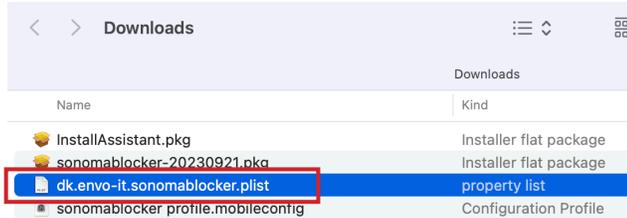
Required

Property List  
PLIST containing key value pairs for settings in the specified domain.

Required



19. Navigate to your Downloads folder and open the file named dk.envo-it.sonomablocker.plist using a plain text editor. This guide will use BBEdit.

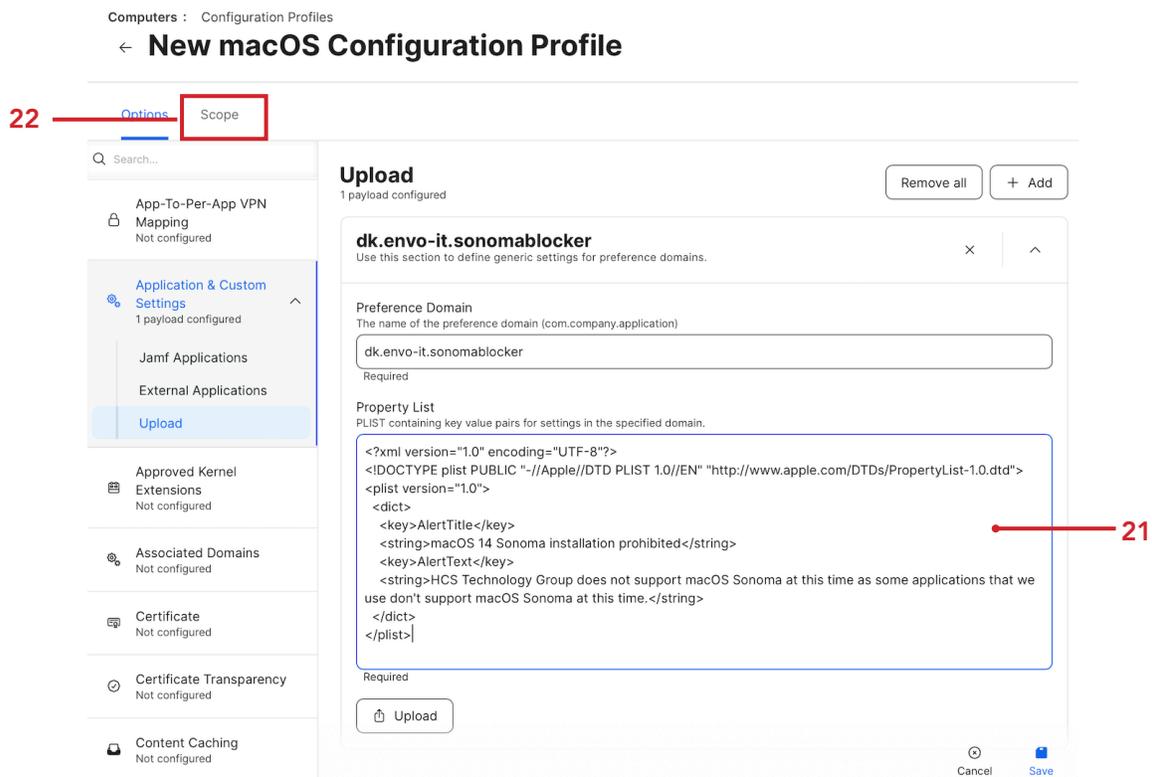


20. In the <string> section, enter the message you want users to see when they try and install macOS Sonoma using a local installer. Copy the entire plist when done.



21. Switch back to your Jamf Pro server and paste the plist in the Property List section.

22. Click Scope.





- 23. Scope it to your needs. This guide will scope to All Computers for simplicity.
- 24. Click Save.

Computers : Configuration Profiles

### New macOS Configuration Profile

Options Scope

Targets Limitations Exclusions

Target Computers  
Computers to assign the profile to  
**All Computers**

Target Users  
Users to distribute the profile to  
Specific Users

**Selected Deployment Targets** + Add

TARGET	TYPE
No Targets	

Cancel **Save**

**23** (points to 'All Computers' dropdown)

**24** (points to 'Save' button)

- 25. Click Configuration Profiles.

Computers : **Configuration Profiles**

### Sonoma Blocker Custom Message

Options Scope

- 26. Click Upload.

Pro

Computers

### Configuration Profiles

+ New **Upload** Filter Profiles

NAME	LOGS	COMPLETED	PENDING	FAILED	SCOPE
------	------	-----------	---------	--------	-------

**Upload** button is highlighted with a red box.



27. Click Choose File.

### Upload OS X Configuration Profile

No File Chosen

28. Navigate to your Downloads folder and select sonomablocker profile.mobileconfig.  
29. Click Upload.

Choose Files to Upload

< > [Icons] Downloads [Dropdown] Search

Name	Size	Kind	Date Added
InstallAssistant.pkg	12.91 GB	Installe...ackage	Yesterday at 8:22 PM
sonomablocker-20230921.pkg	45 KB	Installe...ackage	Yesterday at 8:06 PM
dk.envo-it.sonomablocker.plist	454 bytes	property list	Yesterday at 8:06 PM
<b>sonomablocker profile.mobileconfig</b>	1 KB	Config...n Profile	Yesterday at 7:54 PM

30. Click Upload.

### Upload OS X Configuration Profile

sonomablocker profile.mobileconfig



31. Configure the following:

A. Change the name to: Sonoma Blocker Managed Login Item

B. Category: Select a category of your choosing. This guide will use Sonoma Blocker.

Computers : Configuration Profiles

### < New macOS Configuration Profile

Options Scope

Search...

- General
- Accessibility Not configured
- AD Certificate Not configured
- AirPlay Not configured
- App-To-Per-App VPN Mapping Not configured
- Application & Custom Settings Not configured

#### General

Name  
Display name of the profile

Sonoma Blocker Managed Login Item **A**

Description  
Brief explanation of the content or purpose of the profile

Site  
Site to add the profile to

None

Category  
Category to add the profile to

Sonoma Blocker **B**

32. Scroll down to the Managed Login Items Payload section.

33. Confirm you see the items shown in the picture below.

34. Click Scope.

Computers : Configuration Profiles

### < New macOS Configuration Profile

Options **Scope**

Search...

- Font Not configured
- Identification Not configured
- Login Items Not configured
- Login Window Not configured
- Managed Login Items** 1 setting configured

#### Managed Login Items

1 setting configured

Exclude all

Setting

#### Managed Login Item rules

A custom set of keys that identifies the rule types and values for the Managed Login Items

Rule Type  
The rule to identify the item

Label

Rule Value  
The value to match the rule type

dk.envo-it.sonomablocker

Include



- 35. Scope it to your needs. This guide will scope to All Computers for simplicity.
- 36. Click Save.

Computers : Configuration Profiles

## New macOS Configuration Profile

Options **Scope**

Targets Limitations Exclusions

Target Computers  
Computers to assign the profile to

Target Users  
Users to distribute the profile to

**35** All Computers Specific Users

Selected Deployment Targets + Add

TARGET	TYPE
No Targets	

Cancel **Save** **36**

- 37. Click Configuration Profiles.

Computers : **Configuration Profiles**

## Sonoma Blocker Managed Login Item

- 38. Click New.

Pro

Computers

## Configuration Profiles

+ New Upload

NAME	LOGS	COMPLETED	PENDING	FAILED	SCOPE
------	------	-----------	---------	--------	-------



39. Configure the following:

A. Name: Software Update Restrictions

B. Category: Select a category of your choosing. This guide will use Sonoma Blocker

Computers : Configuration Profiles

## ← New macOS Configuration Profile

Options Scope

Search...

- General
- Accessibility Not configured
- AD Certificate Not configured
- AirPlay Not configured
- App-To-Per-App VPN Mapping Not configured
- Application & Custom Settings Not configured

### General

Name  
Display name of the profile

 **A**

Description  
Brief explanation of the content or purpose of the profile

Site  
Site to add the profile to

Category  
Category to add the profile to

 **B**

40. Click Restrictions payload.

41. Click Configure.

Computers : Configuration Profiles

## ← New macOS Configuration Profile

Options Scope

Search...

- Proxies Not configured
- Restrictions Not configured** **40**
- SCEP Not configured
- Security and Privacy Not configured
- Single Sign-On Extensions Not configured

### Configure Restrictions

Use this section to specify settings related to app and content restrictions. (Users will not be able to modify these settings on their devices once the configuration profile is installed.)

 **41**



42. Click Functionality.

Computers : Configuration Profiles  
← **New macOS Configuration Profile**

Options Scope

Search...

Restrictions  
1 payload configured

Restrictions

Preferences Applications Widgets Media Sharing Services **Functionality**

43. Scroll down to Defer update of.

44. Click Only major software updates for 90 Days.

45. Click Scope

Computers : Configuration Profiles  
← **New macOS Configuration Profile**

Options **Scope**

Search...

Restrictions  
1 payload configured

Allow file provider to access the path of the requesting process

Defer updates of **Only major software updates** for **90 Days**

46. Scope to your needs. This guide will scope to All Computers for simplicity.

47. Click Save.

Computers : Configuration Profiles  
← **New macOS Configuration Profile**

Options **Scope**

Targets Limitations Exclusions

Target Computers  
Computers to assign the profile to  
**All Computers**

Target Users  
Users to distribute the profile to  
Specific Users

Selected Deployment Targets

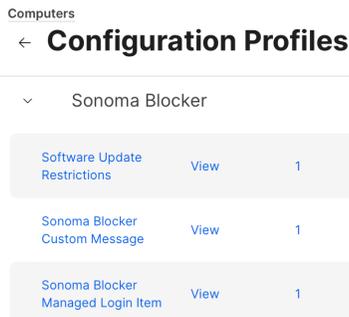
Cancel Save



48. Click Configuration Profiles.

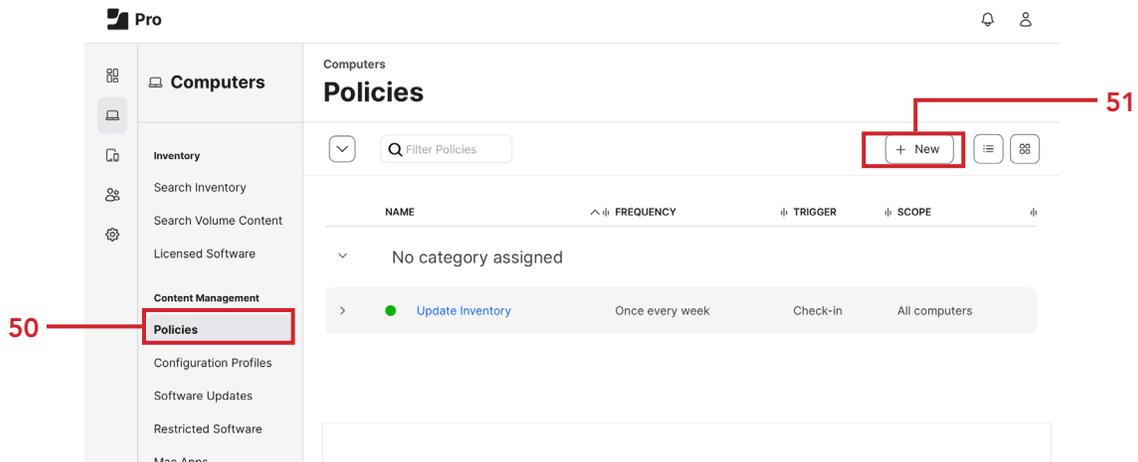


49. Confirm you have the three configuration profiles listed below.



50. Click Policies.

51. Click New.





52. Configure the following:
- A. Display Name: Install Sonoma Blocker
  - B. Category: This guide will use Sonoma Blocker.
  - C. Trigger: Once per computer
  - D. Automatically re-run policy on failure: Enabled
  - E. Retry Event: On next recurring check-in
  - F. Retry Attempts: 3

Computers : Policies

← **New Policy**

Options Scope Self Service User Interaction

**General**

Display Name  
Display name for the policy  
Install Sonoma Blocker **A**

Enabled

Site  
Site to add the policy to  
None

Category  
Category to add the policy to  
Sonoma Blocker **B**

**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 f

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

Network State Change  
When a computer's network state changes (e.g., when the network connection changes, when the co

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

Execution Frequency  
Frequency at which to run the policy  
Once per computer **C**

Automatically re-run policy on failure **D**

Retry Event  
Event to use to re-run the policy  
On next recurring check-in **E**

Retry Attempts  
3 **F**



- 53. Click Packages.
- 54. Click Configure.

Computers : Policies  
← **New Policy**

Options Scope Self Service User Interaction

**53** → Packages  
0 Packages

Software Updates  
Not Configured

Scripts  
0 Scripts

Printers  
0 Printers

Disk Encryption  
Not Configured

Dock Items  
0 Dock Items

Local Accounts  
0 Accounts

**54** → Configure Packages  
Use this section to install, cache, and uninstall packages.  
Also use this section to install a single cached package.

Configure

- 55. Find the sonomablocker-20230921.pkg in the list and click Add.

sonomablocker-20230921.pkg	Sonoma Blocker	<b>Add</b>
----------------------------	----------------	------------

- 56. Select your distribution point. This guide will use the default distribution point.
- 57. Confirm the Action is set to Install.

Computers : Policies  
← **New Policy**

Options Scope Self Service User Interaction

**56** → Packages  
1 Package

Software Updates  
Not Configured

Scripts  
0 Scripts

Printers  
0 Printers

Disk Encryption  
Not Configured

Dock Items  
0 Dock Items

**57** → Packages

Distribution Point  
Distribution point to download the package(s) from  
Each computer's default distribution point

sonomablocker-20230921.pkg

Action  
Action to take on computers  
Install



58. Click Maintenance

59. Click Configure.

- Dock Items  
0 Dock Items
- Local Accounts  
0 Accounts
- Management Accounts  
Not Configured
- Directory Bindings  
0 Bindings
- EFI Password  
Not Configured
- Restart Options  
Not Configured
- Maintenance**  
Not Configured

**Configure Maintenance**

Use this section to update inventory, reset computer names, install all cached packages, and run common maintenance tasks.

**Configure**

60. Confirm Update Inventory is enabled.

61. Click Scope.

Computers : Policies

← **New Policy**

Options **Scope** Self Service User Interaction

**Packages**  
1 Package

**Software Updates**  
Not Configured

**Scripts**  
0 Scripts

**Maintenance**

- Update Inventory**  
Force computers to submit updated inventory information to Jamf Pro
- Reset Computer Names**  
Change the computer name on computers to match the computer name in Jamf Pro



- 62. Scope it to your needs. This guide will scope to All Computers for simplicity.
- 63. Click Save.

Computers : Policies

## ← New Policy

---

Options **Scope** Self Service User Interaction

---

Targets Limitations Exclusions

Target Computers  
Computers to deploy the policy to

62 →

Target Users  
Users to deploy the policy to

**Selected Deployment Targets** + Add

TARGET	TYPE
No Targets	

Cancel **Save** → 63

64. Sonoma Blocker is now ready to be deployed.

Computers : Policies

## ← Install Sonoma Blocker

---

Options **Scope** Self Service User Interaction

---

This completes this section. In the next section we will test our work to make sure macOS Sonoma is being blocked when an install is attempted by a user.



## Section 3: Testing Sonoma Blocker

### What You'll Need

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

### Hardware and Software

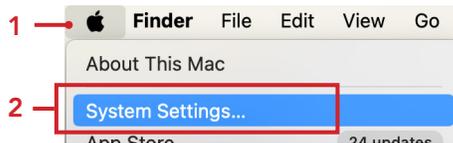
Requirements for following along with this section:

- Mac Computer enrolled in your Jamf Pro Server running macOS Big Sur or later.

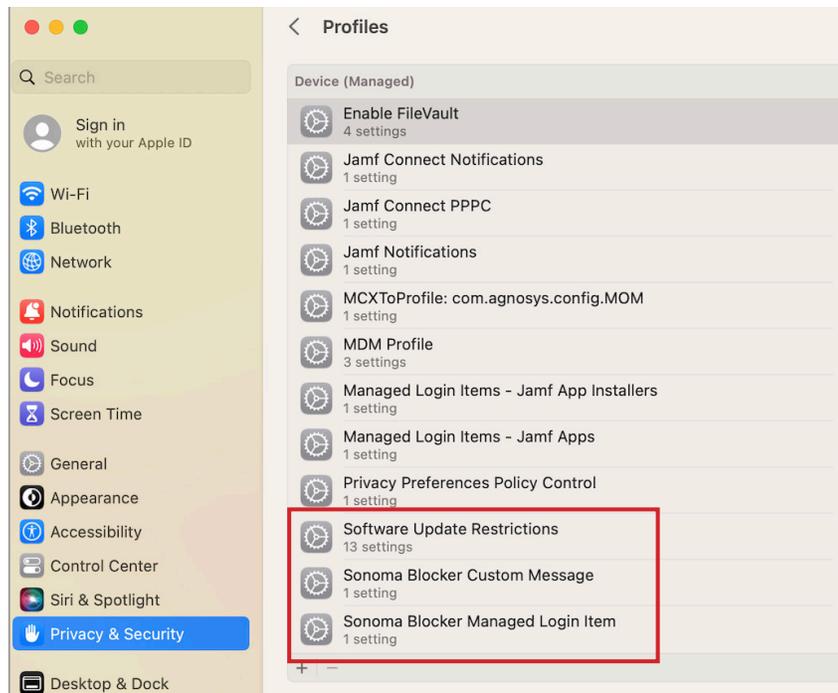
Do not use a Mac Computer running macOS Sonoma for this test. This guide assumes you are using the same Mac Computer that you downloaded all the files on in section 1 of this guide. Those files will be in your Downloads folder.

In this section we will test our work to make sure macOS Sonoma cannot be installed on a Mac Computer. This guide will use a Mac Computer running macOS Ventura 13.6.1

1. Log into your Mac Computer and click the Apple Logo.
2. Select System Settings.

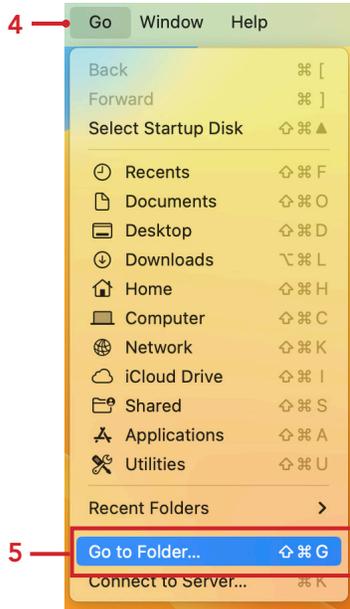


3. Go to Privacy & Security and confirm you have the three configuration profiles listed below:
  - A. Software Update Restrictions
  - B. Sonoma Blocker Custom Message
  - C. Sonoma Blocker Managed Login Item

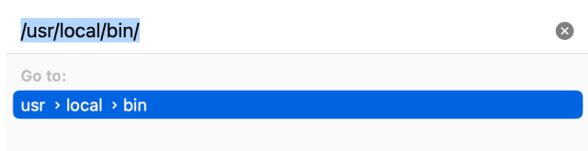




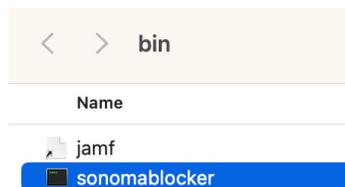
4. Go to the Go menu.
5. Select Go to Folder.



6. Enter the following path: /usr/local/bin then press Return Key.

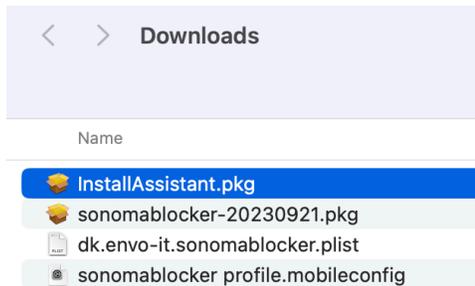


7. You should see the sonomablocker binary.  
NOTE: If you don't see sonomablocker, Jamf Pro has not installed it yet. You can wait for Jamf Pro to install it on next check in or open Terminal.app and run `sudo jamf policy` to install it immediately provided you have administrative access on your Mac Computer.





8. Go to your Downloads folder and install the InstallAssistant.pkg. Accept all the defaults during the installation. This will put the macOS Sonoma installer in your Applications folder.



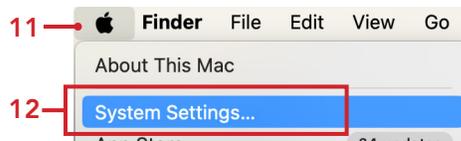
9. Go to your Applications folder and open Install macOS Sonoma.



10. You will be presented with the custom message we created in section 2 of this guide. Click OK..



11. Now let's test the 90 day major update restriction that we put in place in section 2 of this guide. Click the Apple Logo
12. Select System Settings.





13. Select General, then select Software Update. Notice the message below that says "Your Mac is running the latest software updated allowed by your administrator". This means our major update restriction configuration profile is being enforced.

NOTE: Apple only allows this restriction for 90 days. After 90 days, the user will be allowed to upgrade to macOS Sonoma. Sonoma Blocker cannot stop that installation as the installer is not local to the Mac Computer and is coming directly from Apple Software Update Servers.

