



Configure Jamf Compliance Editor and Jamf Pro for Compliance Reporting



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Preface

The Jamf Compliance Editor (JCE) is a tool designed to simplify the implementation of the macOS Security Compliance Project (mSCP) within a Jamf Pro environment. It allows IT administrators to enforce security standards by generating configuration profiles, scripts, and compliance reports for managed macOS, iOS/iPadOS, and visionOS devices. This guide will cover configuring the Jamf Compliance Editor using CIS Level 2 for Mac Computers and iOS devices enrolled in Jamf Pro. While the mSCP is script and command line driven, this document will cover using JCE as a guide for mSCP. For additional information on using mSCP scripts in the command line, please refer to Apple's Mac Security Compliance training at

<https://it-training.apple.com/tutorials/apt-compliance/>

Jamf Compliance Editor Key Features

- 1. Based on NIST's macOS Security Compliance Project (mSCP)**
Supports multiple compliance standards for government and enterprise security. Leverages NIST's macOS Security Compliance Project. https://github.com/usnistgov/macOS_security/wiki
- 2. Graphical Interface (GUI) for Compliance Management**
Eliminates the need to manually edit configuration files or use command-line operations.
- 3. Customizable Compliance Selection**
Administrators can select specific security benchmarks and rules that fit their organization's needs.
- 4. Automated Profile and Script Generation**
Generates configuration profiles and scripts for enforcing and remediating compliance violations.
- 5. Compliance Reporting and Documentation**
Produces reports for internal teams and auditors to verify compliance efforts.
- 6. Integration with Jamf Pro**
Directly uploads compliance profiles, scripts, and extension attributes to Jamf Pro.

Supported Compliance Standards

The NIST macOS Security Compliance Project (mSCP) currently supports the following security frameworks.

Government and Regulatory Standards

- NIST 800-53 ([FISMA High/Moderate/Low](#))
- NIST 800-171 ([Controlled Unclassified Information \(CUI\) Security](#))
- DISA STIG ([U.S. Department of Defense Security Technical Implementation Guide](#))
- CMMC 2.0 ([Cybersecurity Maturity Model Certification](#))
- CNSSI-1253 ([Committee on National Security Systems Instructions](#))
- Indigo (Base/High) ([German Federal Office for Information Security \[BSI\]](#)) BSI is iOS only

Industry and Non-Governmental Security Standards

- CIS Benchmarks ([macOS, iOS/iPadOS](#))
- CIS Critical Security Controls Version 8 ([CIS Controls](#))



The mSCP project can be extended to support over 200 additional baselines developed by the Secure Controls Framework (SCF):

<https://github.com/securecontrolsframework/securecontrolsframework/releases>

A crosswalk mapping script—`secure-framework-automapping.py`—is available here:

https://github.com/boberito/mscp_scripts

This script requires the command-line version of mSCP and the dependencies outlined in the README. It can be used to generate baseline files aligned with various regulatory or compliance frameworks.

NOTE: While these baselines use the same controls evaluated by mSCP, they are not tested or validated by NIST. Additional due diligence is recommended.

Benefits for Organizations Using Jamf Pro

- Reduces complexity in implementing security standards.
- Automates compliance enforcement with minimal manual effort.
- Ensures regulatory alignment for organizations handling sensitive data.
- Streamlines auditing and reporting with built-in documentation tools.

Special thanks to the following individuals for making this guide possible:

- Allen Golbig
- Bob Gendler
- Jamie Richardson
- Nick Koval
- Tom Rice



Section 1: Creating an API Role in 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:

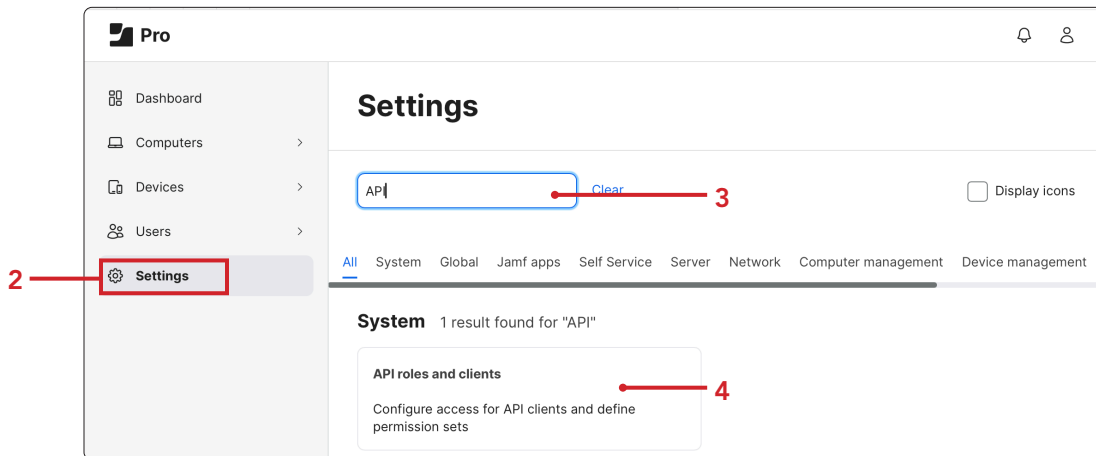
- A Jamf Pro server with administrative privileges to create or modify API roles and API Clients

In this section we create an API Role in Jamf Pro for use with the Jamf Compliance Editor application.

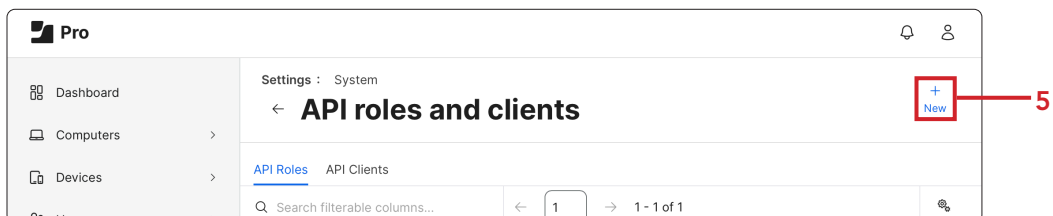
1. Log into your Jamf Pro Server with administrative privileges.

The login form for Jamf Pro. It features a 'Pro' logo at the top. Below it are two input fields: 'Username' and 'Password'. Both fields are marked as 'Required'. The 'Password' field has a toggle icon to show or hide the password. At the bottom is a blue 'Log in' button.

2. Click Settings.
3. Enter **API** in the search field.
4. Click on API roles and clients.



5. Click New.





6. Configure the following:

A. Enter **Jamf Compliance Editor** for the Display Name.

B. Enter and select the following under Privileges:

- **Categories:** Create
- **Computer Extension Attributes:** Create, Read, Update
- **macOS Configuration Profiles:** Create, Read, Update
- **iOS Configuration Profiles:** Create, Read, Update
- **Scripts:** Create, Read, Update

C. Click Save.

D. Click Previous (←).

7. Click API Clients.

8. Click New (+).



9. Configure the following:

- A. Enter **Jamf Compliance Editor** for the Display Name.
- B. Select **Jamf Compliance Editor** under API roles.
- C. Access token lifetime: **60**.
- D. Click enable API client.
- E. Click Save.

The screenshot shows the 'New API Client' configuration screen. The breadcrumb trail is 'Settings > System > API roles and clients'. The title is 'New API Client'. The 'Display name' field is labeled 'Display name for the API Client.' and contains the text 'Jamf Compliance Editor'. The 'API roles' section is labeled 'Assign roles to determine privileges for the client. Adding multiple roles combines their privileges.' and shows a dropdown menu with 'Jamf Compliance Editor' selected. The 'Access token lifetime' section is labeled 'The duration in seconds that a token allows access. Revoking the token or disabling the client does not end the lifetime of an active token.' and shows a value of '60'. The 'Enable/disable API Client' section has a toggle switch labeled 'Enable API client' which is currently turned on. At the bottom right, there are 'Cancel' and 'Save' buttons. Red lines with letters A through E point to the following elements: A points to the 'Display name' input field; B points to the 'API roles' dropdown menu; C points to the 'Access token lifetime' input field; D points to the 'Enable API client' toggle switch; E points to the 'Save' button.

10. Click Generate client secret.

The screenshot shows the 'API roles and clients' screen. The breadcrumb trail is 'Settings > System'. The title is 'API roles and clients'. The 'Display name' field is labeled 'Display name for the API Client' and contains the text 'Jamf Compliance Editor'. The 'API roles' section is labeled 'Assign roles to determine privileges for the client. Adding multiple roles combines their privileges.' and shows a dropdown menu with 'Jamf Compliance Editor' selected. The 'Access token lifetime' section is labeled 'The duration in seconds that a token allows access. Revoking the token or disabling the client does not end the lifetime of an active token.' and shows a value of '60'. The 'Client ID' field is labeled 'Client ID' and contains a long alphanumeric string. Below the 'Client ID' field is a blue button labeled 'Generate client secret'. The 'Enable/disable API client' section has a toggle switch labeled 'Enable/disable API client' which is currently turned on. At the bottom right, there are 'Cancel' and 'Create secret' buttons. A red box highlights the 'Generate client secret' button.

11. Click Create secret.

The screenshot shows the 'Generate client credentials' dialog box. The title is 'Generate client credentials'. The text inside says 'This will generate a client secret for this client. This action cannot be undone.' At the bottom right, there are 'Cancel' and 'Create secret' buttons. A red box highlights the 'Create secret' button.



12. Perform the following:

- A. Click Copy client credentials to clipboard and paste into a text edit document. Save it to your Desktop with a name of your choosing.
- B. Click Close.

NOTE: We will need the Client ID and Client secret info in the next section of this guide.

A dialog box titled "Save client secret" with a warning icon. It contains the following text: "This client secret will not be revealed again. Save it somewhere safe." followed by "Client credentials can be redeemed for access tokens using form-urlencoded data at the Jamf Pro API OAuth token endpoint. The endpoint is: /api/oauth/token". Below this, it shows "Client ID:" followed by a masked value ending in "384c". Then "Client secret:" followed by a masked value ending in "/AFvcC". At the bottom, there are two buttons: "Copy client credentials to clipboard" (labeled A) and "Close" (labeled B).

13. Confirm you see the Rotate client secret button.

A screenshot of the "API roles and clients" settings page. The page has a header "Settings : System" and a back arrow. The title is "API roles and clients". Below this, there are sections for "Display name" (Jamf Compliance Editor), "API roles" (Assign roles to determine privileges for the client. Adding multiple roles combines their privileges. Jamf Compliance Editor), "Access token lifetime" (The duration in seconds that a token allows access. Revoking the token or disabling the client does not end the lifetime of an active token. 60), "Client ID" (7e...984c), "Client secret" (masked with asterisks), and a red button labeled "Rotate client secret". At the bottom, there is a section for "Enable/disable API client" which is currently "Enabled".

This completes this section. In the next section, we will download and configure the Jamf Compliance Editor application.



Section 2: Configure the Jamf Compliance Editor Application.

What You'll Need:

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

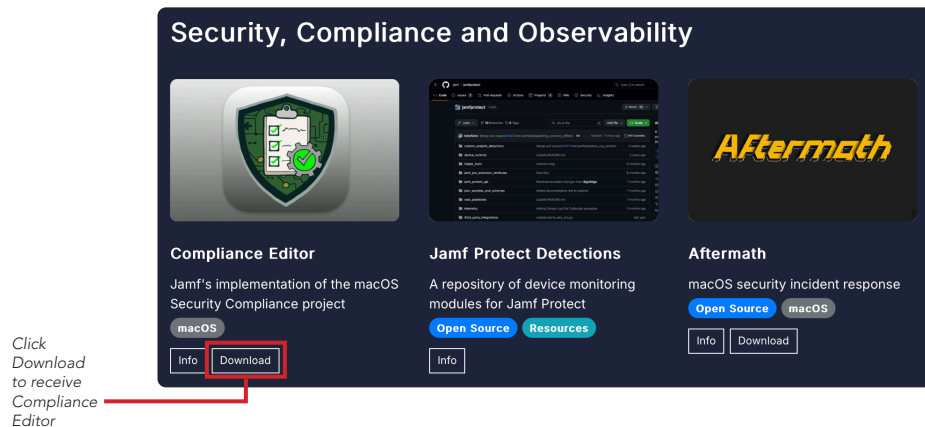
Hardware and Software:

Requirements for following along with this section:

- Jamf Compliance Editor Application
- Jamf API Role Client ID and Secret
- A Jamf Pro server with administrative privileges

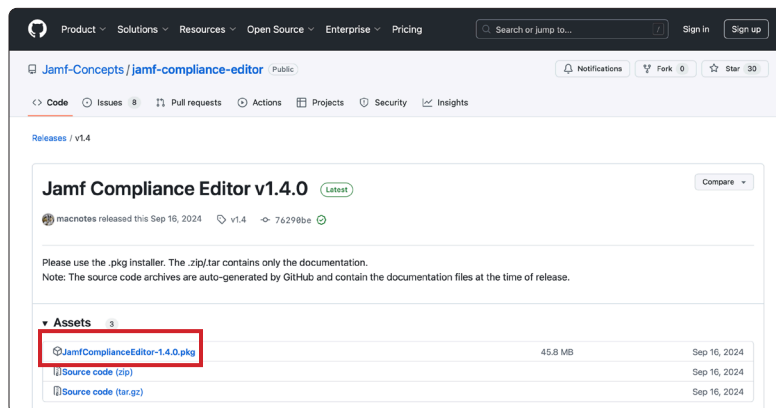
In this section we install and configure the Jamf Compliance Editor application to pre configure the Jamf Pro Server with the needed items for compliance.

1. Go to <https://concepts.jamf.com>.
2. Scroll down to the Security, Compliance and Observability section and click Download under Compliance Editor.

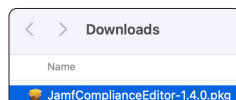


3. Click JamfComplianceEditor-1.4.0.pkg.

NOTE: 1.4.0 was the version at the time of this writing, your version number may be different.



4. Go to your Downloads folder and double-click to open JamfComplianceEditor-1.4.0.pkg and follow the default prompts to install it.

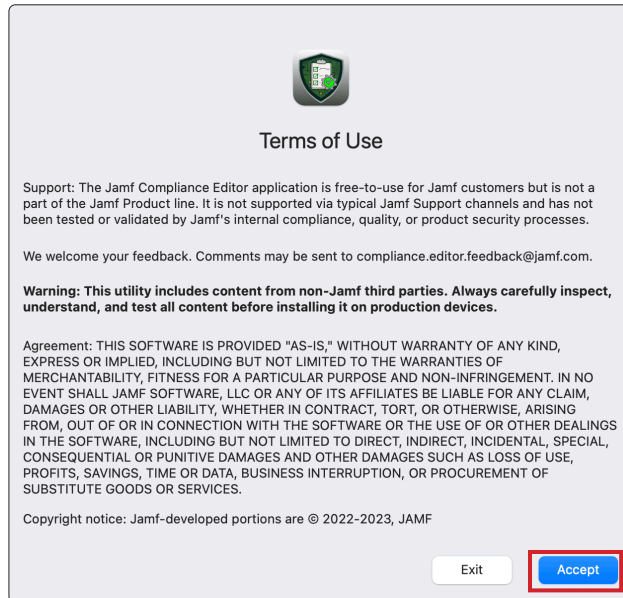




5. Open the Jamf Compliance Editor located in the Applications folder.



6. Read the Terms of Use then click Accept.



7. Click Jamf Compliance Editor menu.

8. Select Settings (⌘,).

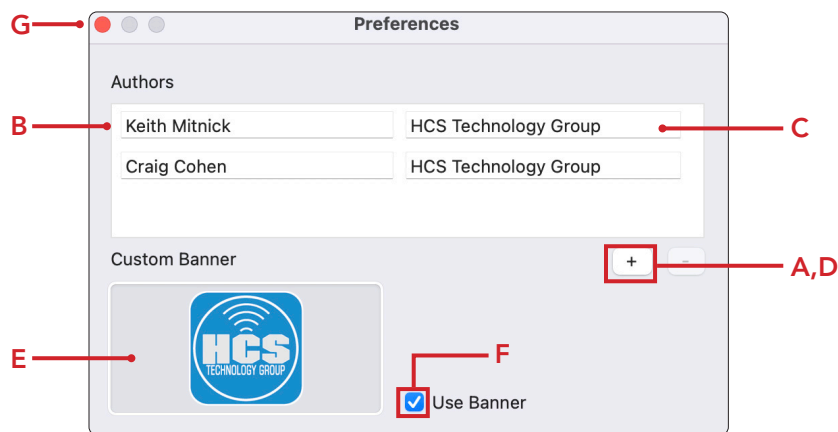




9. Configure the following:

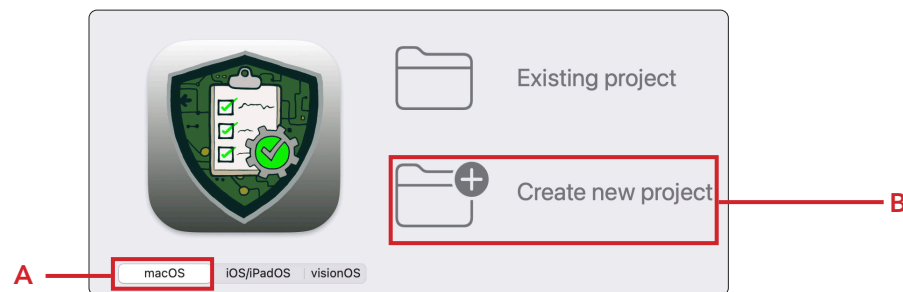
- A. Click Add (+)
- B. Enter your full name
- C. Enter your organization name
- D. If adding multiple authors like shown below, click Add (+)
- E. Drag a logo from your Mac filesystem to the Custom Banner field. Drag and drop from a webpage is not supported.
- F. Select the check box for Use Banner
- G. Close (X) the window.

NOTE: The custom banner logo configured here will show up in the reports discussed later in this guide. The author information will only show up in a report if a baseline is manually altered to remove items from the baseline.



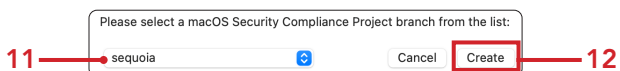
10. Configure the following:

- A. Select the device you're looking to configure. macOS, iOS/iPadOS, visionOS - This guide will use macOS.
- B. Click Create new project.



11. Select your macOS version. I.E. Sequoia.

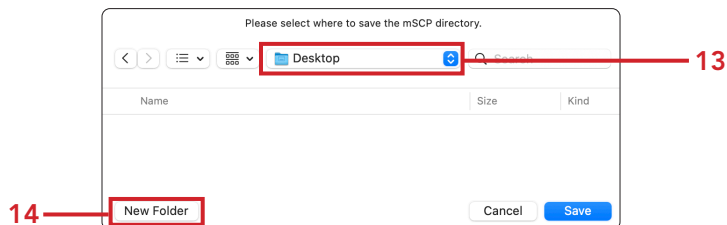
12. Click Create.





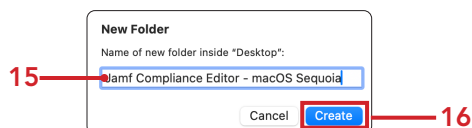
13. Select the Desktop as the destination.

14. Click New Folder.



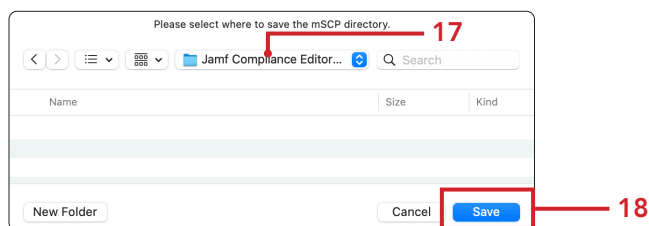
15. Enter **Jamf Compliance Editor - macOS Sequoia** for the name of the folder. (Change Sequoia to match whatever macOS version you selected in step 11.)

16. Click Create.



17. Confirm the location matches what you created in the previous step.

18. Click Save.



19. Select a Benchmark. This guide will select CIS Benchmark - Level 2

20. Click OK.

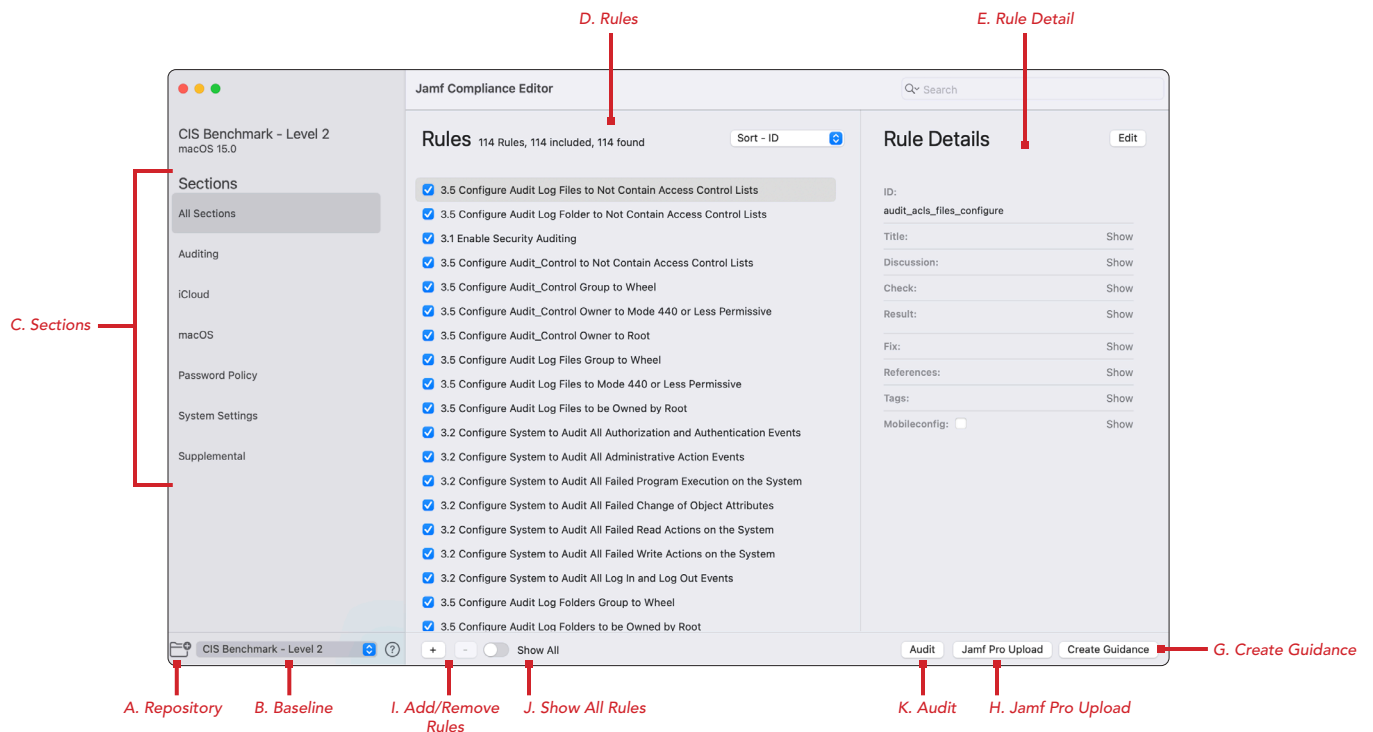




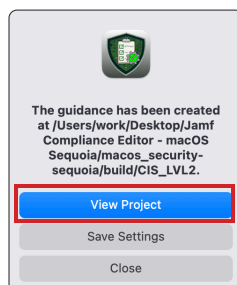
21. The Jamf Compliance Editor window is divided into the following areas:

- A. Repository button - Used to select an existing repository or download a new one
- B. Baseline popup menu - Switch between the baselines/benchmarks available
- C. Sections - Displays all sections available from the selected baseline/benchmark
- D. Rules - Displays rules from the selected Section
- E. Rule Details - Allows editing of the various rule details including ODV values
- F. Create Guidance - Generates output from mSCP plus files for Jamf Pro
- G. Jamf Pro Upload - Uploads configuration profiles, compliance script, and
- H. Extension Attributes to a Jamf Pro server (Button is greyed out until Create Guidance is completed)
- I. Add/Remove Rules - Add/Remove custom rules
- J. Show All Rules - Shows rules not in current baseline
- K. Audit - Run audit against generated baseline (Button is greyed out until Create Guidance is completed)

22. Click the Create Guidance button.

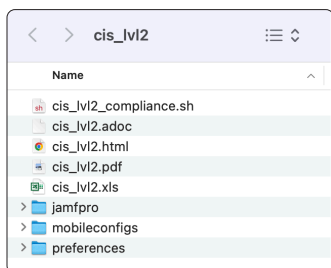


23. Click View Project.



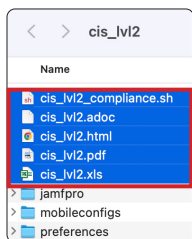


24. Confirm you see the the `cis_lvl2` project files. These files contain everything that was configured when the Create Guidance button was clicked. The files are located in the project folder we created earlier in this guide. The path is:
~/Desktop/Jamf\ Compliance\ Editor\ -\ macOS\ Sequoia\ macos_security-sequoia/build/
`cis_lvl2`



25. The script, `cis_lvl2_compliance.sh`, is used with a policy in Jamf Pro to make sure all the CIS Level 2 guidance is accurate on all Mac computers. If a rule was changed by the user, the script can set it back to the CIS Level 2 default setting.

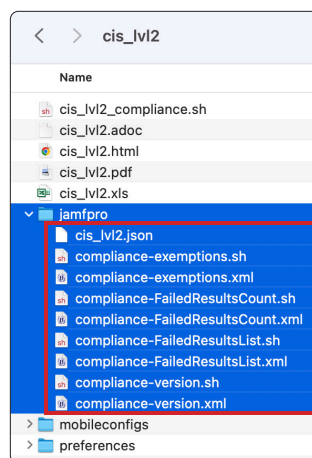
26. The documents, `cis_lvl2 - adoc`, `html`, `pdf`, `xls`, are documented reports in different file formats that contain everything that was configured when the guidance was created.



27. The file, `cis_lvl2.json`, is a custom settings schema that allows you to configure custom application settings. The file is used by the compliance script and the Extension Attributes to determine any exemption rules that a user in an organization has approval for. This ensures that the compliance checks succeed without the result count going up. It needs to be manually added to jamf pro and is discussed in detail in a later section of this guide.

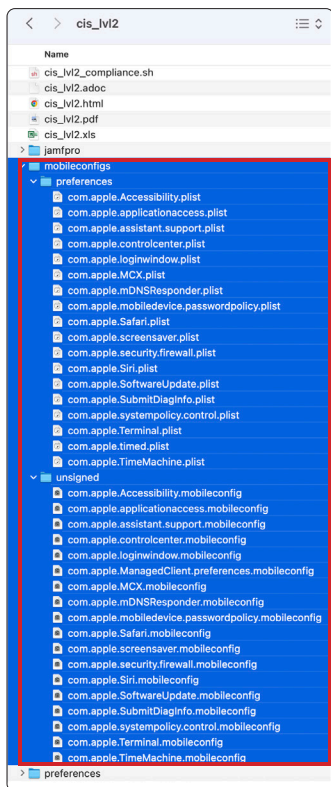
28. The three scripts: `compliance-exemptions.sh`, `compliance-FailedResultsCount.sh`, `compliance-FailedResultsList.sh` are used when running a local Mac audit without using Jamf Pro.

29. The three xml files, `compliance-exemptions.xml`, `compliance-FailedResultsCount.xml`, `compliance-FailedResultsList.xml`, are imported into Jamf Pro and will create Extension Attributes for reporting.

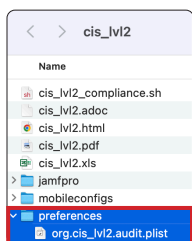




30. In the **mobileconfigs** folder, resides two folders named **preferences** and **unsigned**.
- A. The preferences folder contains the plist files for all the settings that are configured for CIS Level 2. These are used when running a local Mac audit without using Jamf Pro.
 - B. The unsigned folder contains all the mobileconfig files CIS Level 2. These get uploaded to the Jamf Pro server when the Jamf Pro Upload button is clicked.



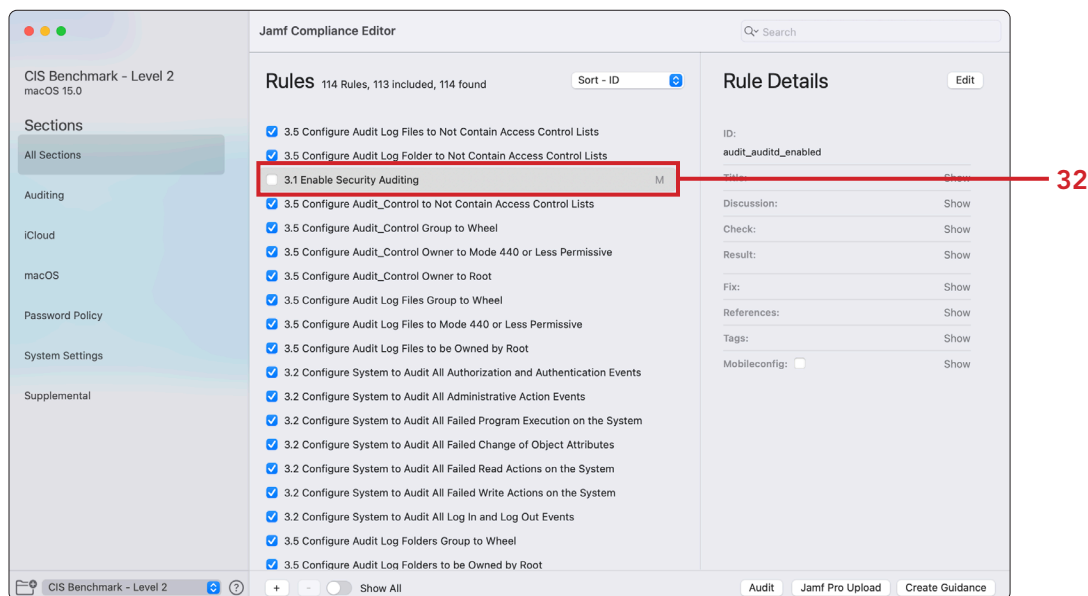
31. In the **preferences** folder, a file named **org.cis_lv12.audit.plist** is used when running a local Mac audit without using Jamf Pro.





32. Switch back to the Jamf Compliance Editor application. Disable rule 3.1 Enable Security Auditing. Confirm the rule shows the letter “M” to the right of the rule. This means the rule has been modified from the original CIS Level 2 benchmark.

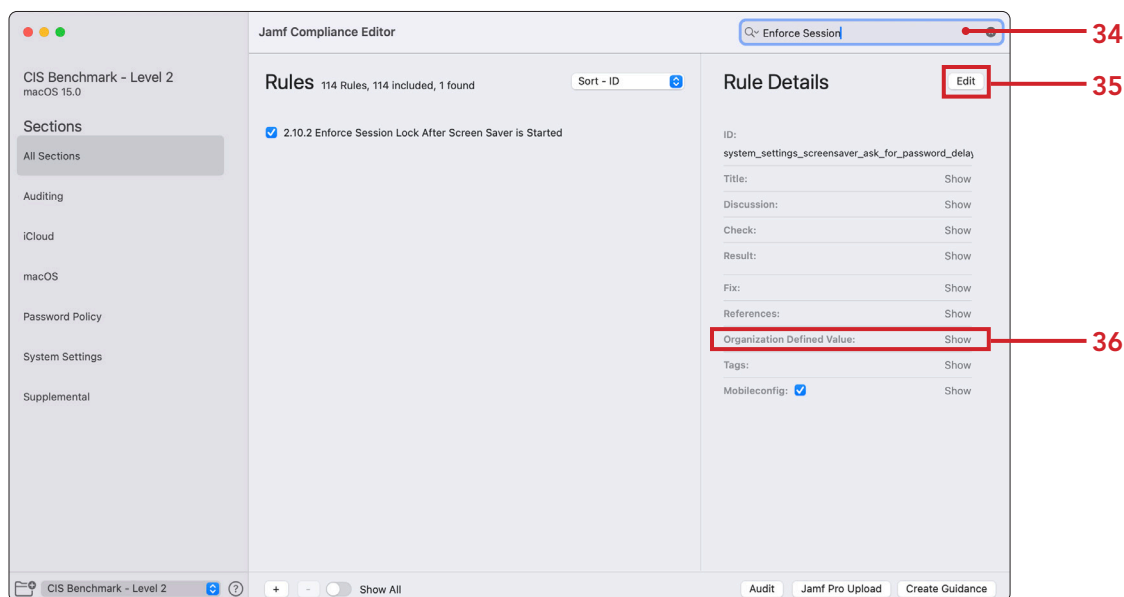
33. Re-enable the 3.1 Enable Security Auditing.



34. In the search field, enter **Enforce Session**.

35. In the Rule Details section, click **Edit**.

36. Click **Show** for Organization Defined Value.





37. In the Organization Defined Value field, change from 5 to 10.

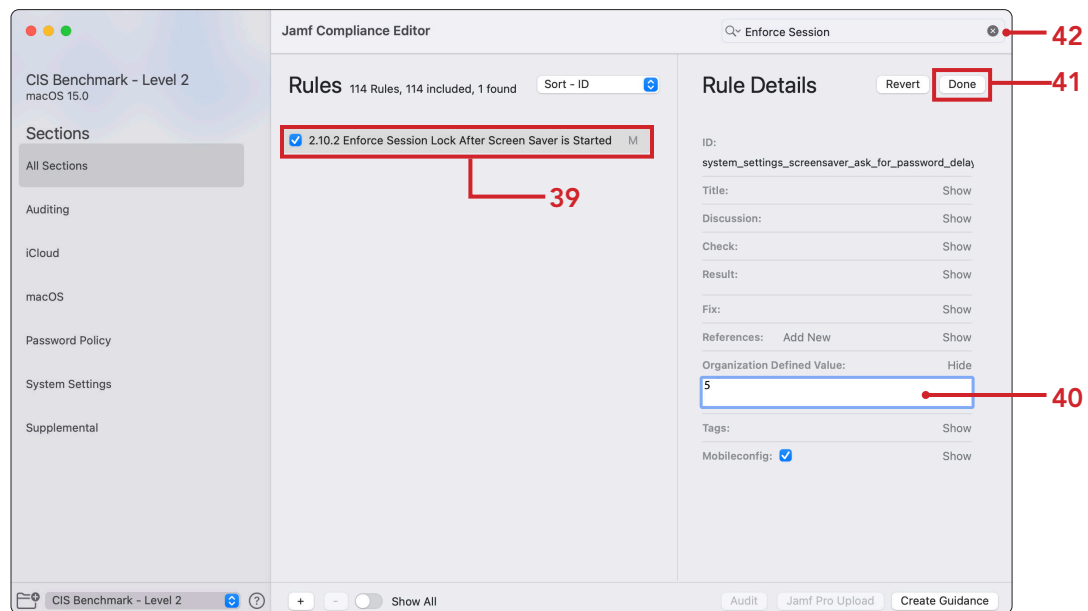
The screenshot shows the Jamf Compliance Editor application. On the left is a sidebar with a tree view of sections: All Sections, Auditing, iCloud, macOS, Password Policy, System Settings, and Supplemental. The main area is titled 'Jamf Compliance Editor' and shows a list of rules under the heading 'Rules'. One rule is selected: '2.10.2 Enforce Session Lock After Screen Saver is Started'. The right-hand pane, titled 'Rule Details', shows various fields for this rule. The 'Organization Defined Value' field is highlighted with a red box and a red arrow labeled '37'. The value '10' is entered in this field. Other fields include ID, Title, Discussion, Check, Result, Fix, References, Tags, and Mobileconfig, each with a 'Show' or 'Hide' button. At the bottom of the application window, there are buttons for 'Audit', 'Jamf Pro Upload', and 'Create Guidance'.

38. Confirm a message that states modifying is not recommended. Click OK.

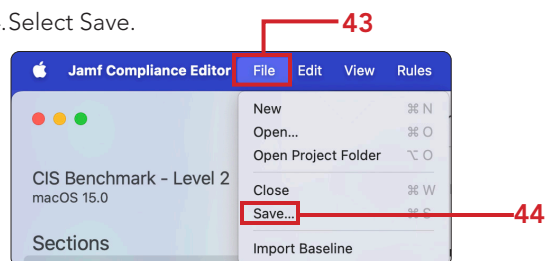
A macOS-style warning dialog box is displayed. It has a title bar with a green shield icon. The text inside reads: 'Customising the ODV values is not recommended for CIS Benchmark - Level 2.' Below the text is a blue button labeled 'OK', which is highlighted with a red box and a red arrow labeled '38'. At the bottom of the dialog is a checkbox labeled 'Do not show this message again'.



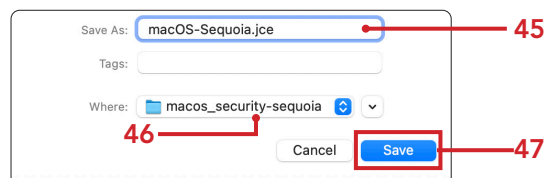
39. In the rules section, Notice the letter “M” next to the Enforce Session rule. This means the rule has been modified.
40. In the Organization Defined Value field, change from 10 to 5 to keep things back to the default value.
41. Click Done
42. Remove (●) “Enforce Session” from the search field.
NOTE: This was to demonstrate that a rule does not have to be disabled to be modified in a benchmark.



43. Click File.
44. Select Save.

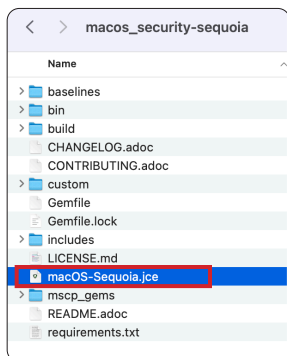


45. Enter macOS-Sequoia.jce for the File Name.
46. Save to a location of your choosing. This guide will save it to the existing project folder.
47. Click Save.

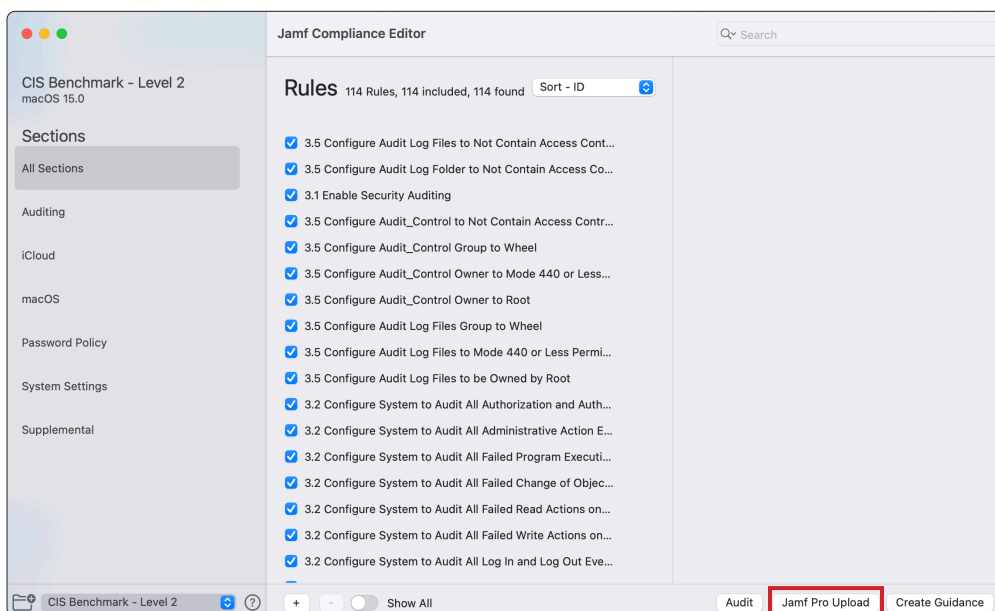




48. Confirm the macOS-Sequoia.jce was created in the location you saved it in.



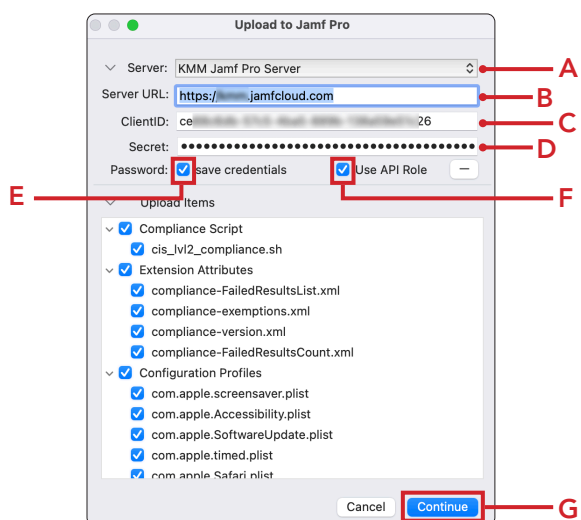
49. Click Jamf Pro Upload.



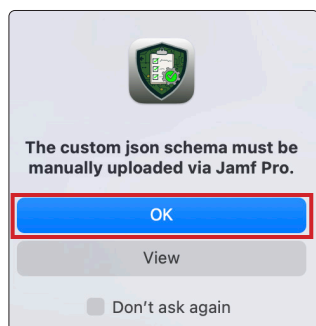


50. Configure the following:

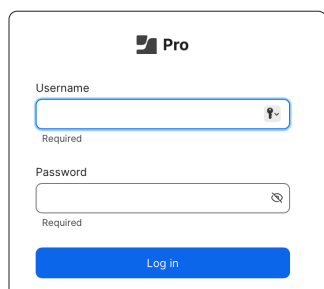
- A. Enter the name of your Jamf Pro server.
- B. Enter the URL of your Jamf Pro server.
- C. Enter the client ID we saved in section one of this guide.
- D. Enter the secret we saved in section one of this guide.
- E. Select the checkbox for save credentials.
- F. Select the checkbox or Use API Role.
- G. Click Continue (The button may say Add before it says Continue.)



51. Click OK.



52. Let's confirm the category, configuration profiles, extension attributes and scripts were created by the JCE application, Switch back to your Jamf Pro server. If necessary, login with administrative privileges.

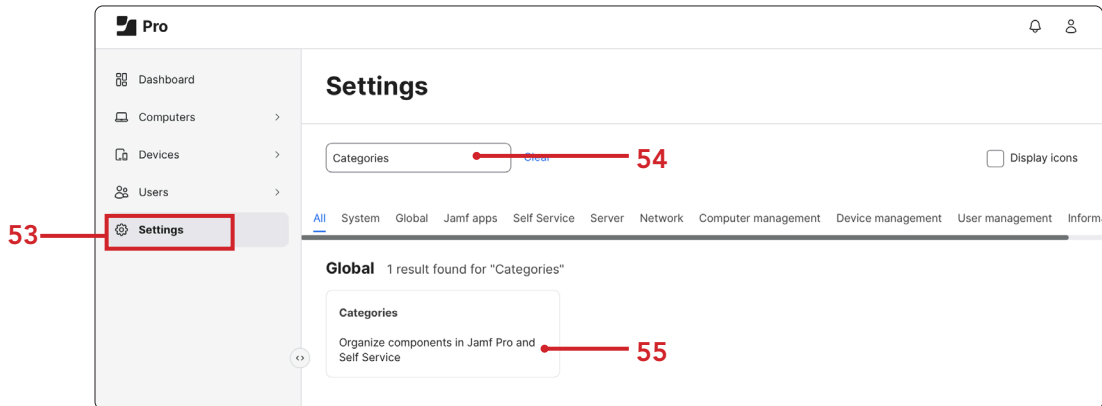




53. Select Settings.

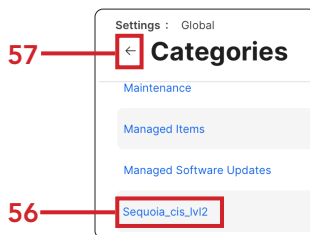
54. Enter categories in the search field.

55. Click Categories.



56. Confirm a category named Sequoia_cis_lvl2 was created.

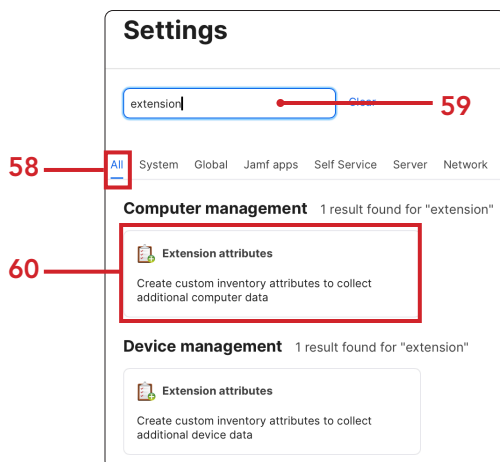
57. Click Previous (←).



58. Click All.

59. Enter extension in the search field.

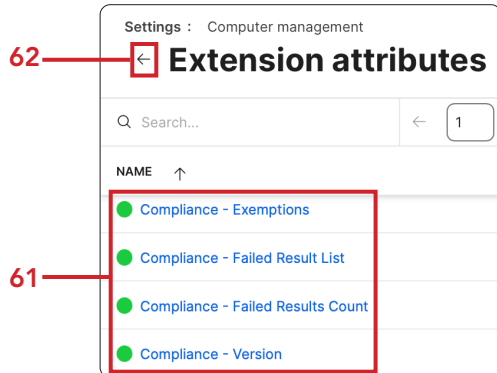
60. Click Extension attributes under Computer management.





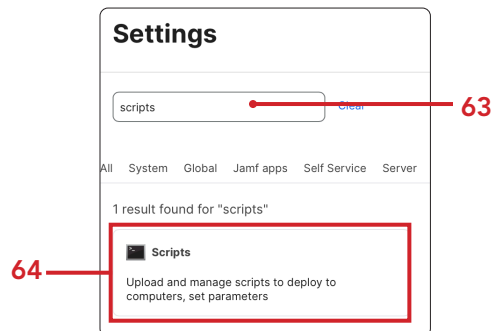
61. Confirm that four Extension Attributes that start with Compliance were created.

62. Click Previous (←).



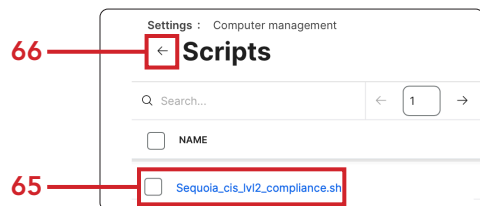
63. Enter scripts in the search field.

64. Click Scripts.



65. Confirm a script named Sequoia_cis_lvl2_compliance.sh was created.

66. Click Previous (←).



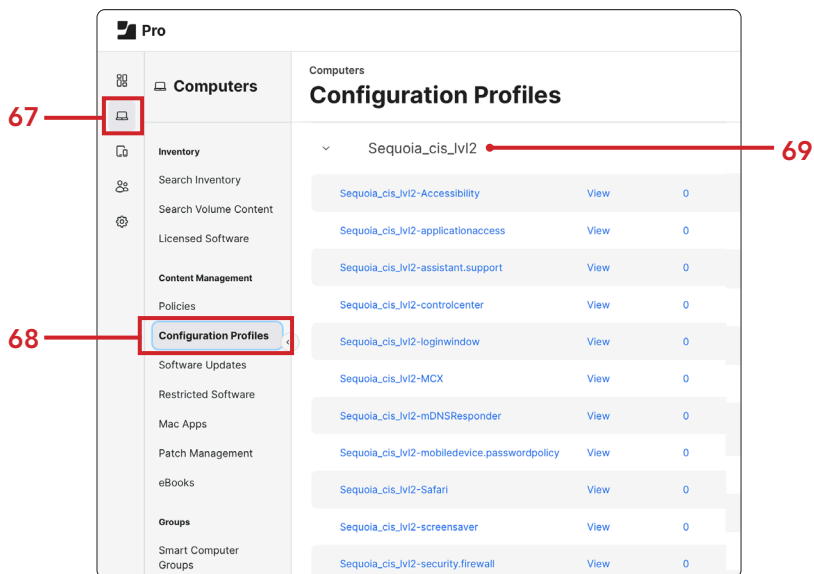


67. Click Computers.

68. Click Configuration Profiles.

69. Confirm a category named Sequoia_cis_lv12 was created with multiple configuration profiles listed.

NOTE: These configuration profiles have not been scoped to any Mac computers yet.



This completes this section. In the next section, we will create smart computer groups to use for scoping in Jamf Pro.



Section 3: Creating Smart Computer Groups

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 Jamf Pro server with administrative privileges

In this section we create three smart computer groups in Jamf Pro to use for scoping.

1. If necessary, Log into your Jamf Pro Server with administrative privileges.

The image shows the Jamf Pro login interface. It has a 'Pro' logo at the top left. Below it are two input fields: 'Username' and 'Password'. Both fields have a 'Required' label below them. The 'Username' field contains the letter 'I'. There is a 'Log in' button at the bottom.

2. Click Computers.

3. Click Smart Computer Groups.

4. Click New.

The image shows the 'Computers' page in Jamf Pro. The left sidebar has a 'Computers' icon highlighted with a red box and the number '2'. Below it, the 'Groups' section has 'Smart Computer Groups' highlighted with a red box and the number '3'. The main content area is titled 'Smart Computer Groups' and has a '+ New' button highlighted with a red box and the number '4'. Below the title is a table with columns 'NAME' and 'COUNT'.

NAME	COUNT
All Managed Clients	3
All Managed Servers	0
Disk Usage	0
MacBook test	1
Macs Enrolled with Jamf Setup Manager PreStage	1
Macs with low disk space	0

5. Enter **Computers running macOS Sequoia** for the Display Name.

NOTE: Change the macOS name to your needs.

The image shows the 'New Smart Computer Group' form in Jamf Pro. The title is 'New Smart Computer Group'. Below it are two tabs: 'Computer Group' and 'Criteria'. The 'Computer Group' tab is selected. The 'Display Name' field is highlighted with a red box and contains the text 'Computers running macOS Sequoia'. Below it is a checkbox for 'Send email notification on membership change'. At the bottom is a 'Site' dropdown menu with 'None' selected.



6. Click Criteria.

7. Click Add (+).

Computers : Smart Computer Groups

← **New Smart Computer Group**

Computer Group **Criteria**

AND/OR	CRITERIA	OPERATOR	VALUE
No Criteria Specified			

+ Add

8. Scroll down to Operating System Version and click Choose.

Operating System Version Choose

9. Set the Operator to like.

10. Enter the value to your needs. This guide will use 15.

11. Click Save.

Computers : Smart Computer Groups

← **New Smart Computer Group**

Computer Group **Criteria**

AND/OR	CRITERIA	OPERATOR	VALUE
	Operating System Version	like	15

+ Add

Cancel Save

12. Click Previous (←).

Computers : Smart Computer Groups

← **Computers running macOS Sequoia**

Computer Group **Criteria** Reports ☐ Show in Jamf Pro Dashboard

AND/OR	CRITERIA	OPERATOR	VALUE
	Operating System Version	like	15

13. Click New (+).

Computers

Smart Computer Groups

+ New



14. Enter **macOS_Sequoia_CIS_LVL2_Compliant** for the Display Name.
NOTE: Change the macOS name to your needs.

Computers : Smart Computer Groups
← **New Smart Computer Group**

Computer Group Criteria

Display Name
Display name for the smart computer group
macOS_Sequoia_CIS_LVL2_Compliant

☐ Send email notification on membership change
When group membership changes, send an email notification to Jamf Pro users with

Site
Site to add the smart computer group to
None

15. Click Criteria.

16. Click Add (+).

Computers : Smart Computer Groups
← **New Smart Computer Group**

Computer Group **Criteria**

AND/OR	CRITERIA	OPERATOR	VALUE
No Criteria Specified			

+ Add

17. Scroll down to Operating System and click Choose.

Operating System Version **Choose**

18. Set the Operator to like.

19. Enter the value to your needs. This guide will use 15.

20. Click Add (+).

Computers : Smart Computer Groups
← **New Smart Computer Group**

Computer Group **Criteria**

AND/OR	CRITERIA	OPERATOR	VALUE
	Operating System Version	like	15

+ Add

21. Click Show Advanced Criteria, if necessary.

Computers : Smart Computer Groups
← **New Smart Computer Group**

Computer Group **Criteria**

NEW CRITERIA **Show Advanced Criteria**



22. Scroll down to Compliance - Failed Results Count and click Choose.

Compliance - Failed Results Count	Choose
-----------------------------------	--------

23. From the menu, select and.

24. Set the Operator to is.

25. Enter the Value: 0.

26. Click Save.

AND/OR	CRITERIA	OPERATOR	VALUE
<input type="button" value="v"/>	Operating System Version	<input type="button" value="like"/>	<input type="text" value="15"/>
23 → <input type="button" value="and"/>	Compliance - Failed Results Count	24 → <input type="button" value="is"/>	25 → <input type="text" value="0"/>

26 →

27. Click Previous (←).

Computers : Smart Computer Groups
← macOS_Sequoia_CIS_LVL2_Compliant

28. Click New (+).

Computers
Smart Computer Groups
<input type="button" value="+ New"/>



29. For the Display Name, enter: macOS_Sequoia_CIL_LVL2_NotCompliant.

A screenshot of the 'New Smart Computer Group' form. The 'Display Name' field is highlighted with a red box and contains the text 'macOS_Sequoia_CIL_LVL2_NotCompliant'. The 'Computer Group' tab is selected, and the 'Criteria' tab is also visible. The 'Site' dropdown menu is set to 'None'.

30. Click Criteria.

31. Click Add.

A screenshot of the 'New Smart Computer Group' form. The 'Criteria' tab is selected and highlighted with a red box, with a red arrow labeled '30' pointing to it. Below the tabs, there is a table with columns 'AND/OR', 'CRITERIA', 'OPERATOR', and 'VALUE'. The table currently shows 'No Criteria Specified'. At the bottom right, there is a '+ Add' button highlighted with a red box, with a red arrow labeled '31' pointing to it.

32. Click Show Advanced Criteria.

A screenshot of the 'New Smart Computer Group' form. The 'Criteria' tab is selected. At the bottom right, there is a 'Show Advanced Criteria' button highlighted with a red box.

33. Scroll down to Compliance - Failed Results Count and click Choose.

A screenshot of the 'Compliance - Failed Results Count' section. The text 'Compliance - Failed Results Count' is displayed, and a 'Choose' button is highlighted with a red box.



34. For the Operator, select **more than**.

35. Enter **0** for the Value.

36. Click Add.

AND/OR	CRITERIA	OPERATOR	VALUE
<div>▼</div>	Compliance - Failed Results Count	more than ▼	0

+ Add

37. Scroll down to Operating System and click Choose.

Operating System Version Choose

38. From the menu, select **and**.

39. Set the Operator to **like**.

40. Enter **15** for the Value.

41. Click Save.

AND/OR	CRITERIA	OPERATOR	VALUE	
<div>▼</div>	Compliance - Failed Results Count	more than ▼	0	<div>▼</div> Delete
and ▼	Operating System Version	like ▼	15	... <div>▼</div> Delete

+ Add

Cancel Save

This completes this section. In the next section, we will create three policies in Jamf Pro.



Section 4: Creating Policies

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 Jamf Pro server with administrative privileges

In this section, we will create three Jamf Pro policies to execute the sequoia_cis_lvl2_compliance.sh script generated by Jamf Compliance Editor. This script supports several flags that control its behavior. The policies will use the following flags:

- **--check** Runs an audit only (no remediation).
- **--cfc** Runs an audit, applies remediation, then re-audits to verify compliance.
- **--reset** Clears results from the previous audit for the current baseline.

Policies to Create in Jamf Pro

Sequoia_CIS Level 2_Audit

- Script flag: **--check**
- Purpose: Performs a compliance audit only.

Sequoia_CIS Level 2_Remediation

- Script flag: **--cfc**
- Purpose: Performs audit, remediates failures, then verifies compliance.

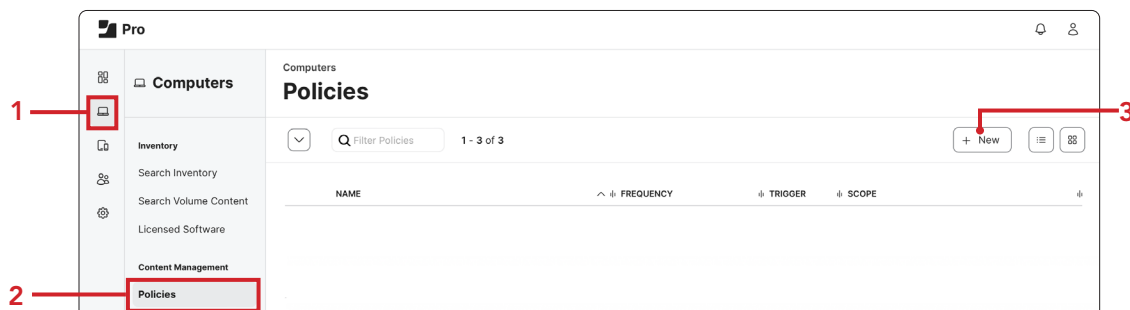
Reset Baseline

- Script flags: **--reset --check**
- Purpose: Clears previous results and runs a fresh audit.

For a listing of all the flags, have a look at the usage code block in the sequoia_cis_lvl2_compliance.sh

```
usage=(  
  "$0 Usage"  
  "$0 [--check] [--fix] [--cfc] [--stats] [--compliant] [--non_compliant] [--reset] [--reset-all] [--quiet=<value>]"  
  "  
  "Optional parameters:"  
  "--check      : run the compliance checks without interaction"  
  "--fix        : run the remediation commands without interaction"  
  "--cfc        : runs a check, fix, check without interaction"  
  "--stats      : display the statistics from last compliance check"  
  "--compliant   : reports the number of compliant checks"  
  "--non_compliant : reports the number of non_compliant checks"  
  "--reset      : clear out all results for current baseline"  
  "--reset-all  : clear out all results for ALL MSCP baselines"  
  "--quiet=<value> : 1 - show only failed and exempted checks in output"  
  "                2 - show minimal output"  
)
```

1. Click Computers.
2. Click Policies.
3. Click New.





4. Configure the following:
 - A. Click General.
 - B. For the Display Name, enter: **Sequoia_CIS Level 2_Audit**.
 - C. Category: **Sequoia_CIS Level 2_Audit**.
 - D. Set the Trigger: **Recurring Check-in**.
 - E. Select an execution frequency of your choosing. This guide will choose **Once Every Day**.

Computers : Policies

New Policy

Options Scope Self Service User Interaction

A General

B Display Name
Display name for the policy
Sequoia_CIS Level 2_Audit

☒ Enabled

Site
Site to add the policy to
None

C Category
Category to add the policy to
Sequoia_cis_lvl2

D Trigger
Event(s) to use to initiate the policy

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

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

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

☐ Enrollment Complete
Immediately after a computer completes the enrollment process

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

☐ Custom
At a custom event

E Execution Frequency
Frequency at which to run the policy
Once every day

5. Select Scripts.

6. Click Configure.

Computers : Policies

New Policy

Options Scope Self Service User Interaction

5 General

Packages
0 Packages

Software Updates
Not Configured

6 Scripts
0 Scripts

Configure Scripts
Use this section to run scripts.
Configure

7. Find the **sequoia_cis_lvl2_compliance.sh** and click Add.

Sequoia_cis_lvl2_compliance.sh Sequoia_cis_lvl2 Add



8. Configure the following:

A. Set the Priority: **After**

B. Parameter 4, enter: **--check**

NOTE: A the --check flag runs a compliance check without user interaction.

Computers : Policies
← **New Policy**

Options Scope Self Service User Interaction

Packages
0 Packages

Software Updates
Not Configured

Scripts
1 Script

Printers
0 Printers

Disk Encryption
Not Configured

Dock Items
0 Dock Items

Scripts

Sequoia_cis_lv12_compliance.sh (x) (+)

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

After (A)

Parameter Values
Values for script parameters. Parameters 1-3 are predefined as mount point, computer name, and username

Parameter 4
--check (B)

Parameter 5

9. Scroll down and click Maintenance.

10. Click Configure.

Computers : Policies
← **New Policy**

Options Scope Self Service User Interaction

Packages
Not Configured

Scripts
1 Script

Printers
0 Printers

Disk Encryption
Not Configured

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 (9)

Configure Maintenance

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

Configure (10)

11. Confirm the the checkbox is selected for Update Inventory.

Maintenance (x)

☒ **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



12. Click Scope.

13. Confirm Specific Computers is selected for Target Computers.

14. Click Add.

Computers : Policies
← **New Policy**

Options **Scope** Self Service User Interaction

Targets Limitations Exclusions

Target Computers
Computers to deploy the policy to
Specific Computers

Target Users
Users to deploy the policy to
Specific Users

Selected Deployment Targets

+ Add

TARGET	TYPE
No Targets	

15. Perform the following:

A. Select Computer Groups.

B. In the search field, enter **computers running**.

C. Click Add for the group named Computers running macOS Sequoia.

D. Click Done.

Computers : Policies
← **New Policy**

Options **Scope** Self Service User Interaction

Targets Limitations Exclusions

Add Deployment Targets

Done

Computers Computer Groups Users User Groups

Buildings Departments

Computers running 1 - 1 of 1

GROUP NAME

Computers running macOS Sequoia

Add



16. Click Save.

A screenshot of a web application interface with a top navigation bar containing 'Options', 'Scope' (highlighted), 'Self Service', and 'User Interaction'. Below this is a tabbed interface with 'Targets', 'Limitations', and 'Exclusions'. The 'Targets' tab is active, showing 'Target Computers' and 'Target Users' sections. Each section has a dropdown menu set to 'Specific Computers' and 'Specific Users' respectively. Below these is a 'Selected Deployment Targets' section with a table. The table has two columns: 'TARGET' and 'TYPE'. It contains one row: 'Computers running macOS Sequoia' under 'TARGET' and 'Smart Computer Group' under 'TYPE'. To the right of the table is a 'Remove' button. At the bottom right of the interface are 'Cancel' and 'Save' buttons, with the 'Save' button highlighted by a red rectangle.

17. Click Previous (←).

A screenshot of a breadcrumb navigation bar. It shows 'Computers > Policies' with a red square highlighting the 'Policies' link. Below this, the text 'Sequoia_CIS Level 2_Audit' is displayed, with a red square highlighting a left-pointing arrow icon to its left.

18. Click New (+).

A screenshot of a web application interface showing a list of policies. The header 'Computers' is above the word 'Policies'. Below the header is a navigation bar with a right-pointing arrow, a search box labeled 'Filter Policies', and the text '1 - 99 of 99'. On the right side of this bar is a '+ New' button, which is highlighted by a red rectangle.



19. Configure the following:

- A. Select General.
- B. Enter **Sequoia_CIS Level 2_Remediation** for the Display Name.
- C. Select **Sequoia_CIS Level 2_Audit** for the Category
- D. Select the checkbox for **Recurring Check-in**.
- E. Select **Ongoing** for Execution Frequency

Computers : Policies
← **New Policy**

Options Scope Self Service User Interaction

General

Display Name
Display name for the policy
Sequoia_CIS Level 2_Remediation

☒ Enabled

Site
Site to add the policy to
None

Category
Category to add the policy to
Sequoia_cis_lv2

Trigger
Event(s) to use to initiate the policy

☐ Startup
When a computer starts up. A startup script that checks for policies must be present.

☐ Login
When a user logs in to a computer. A login event that checks for policies must be present.

☐ Network State Change
When a computer's network state changes (e.g., when the network connection is lost or restored).

☐ 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
Ongoing

☐ Make Available Offline
Cache the policy to ensure it runs when Jamf Pro is unavailable

20. Click Scripts.

21. Click Configure.

Computers : Policies
← **New Policy**

Options Scope Self Service User Interaction

Scripts
0 Scripts

Configure Scripts
Use this section to run scripts.
Configure

22. Locate **sequoia_cis_lv2_compliance.sh** and click Add.

Sequoia_cis_lv2_compliance.sh Sequoia_cis_lv2 Add



23. Configure the following:

A. Priority: **After**.

B. Parameter 4: **--cfc**.

NOTE: The --cfc flag runs a compliance check, fixes anything that is not compliant, then run another check. It does all of this without any user interaction and it part of the compliance script.

Scripts

Sequoia_cis_lvl2_compliance.sh [X] [+]

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

After

Parameter Values
Values for script parameters. Parameters 1-3 are predefined as mount point, computer name, and username

Parameter 4
--cfc

Parameter 5

24. Scroll down and select Maintenance.

25. Click Configure.

Computers : Policies

← **New Policy**

Options Scope Self Service User Interaction

- Software Updates
Not Configured
- Scripts
1 Script
- Printers
0 Printers
- Disk Encryption
Not Configured
- 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

26. Confirm the checkbox is selected for Update Inventory.

Maintenance [X]

☒ **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



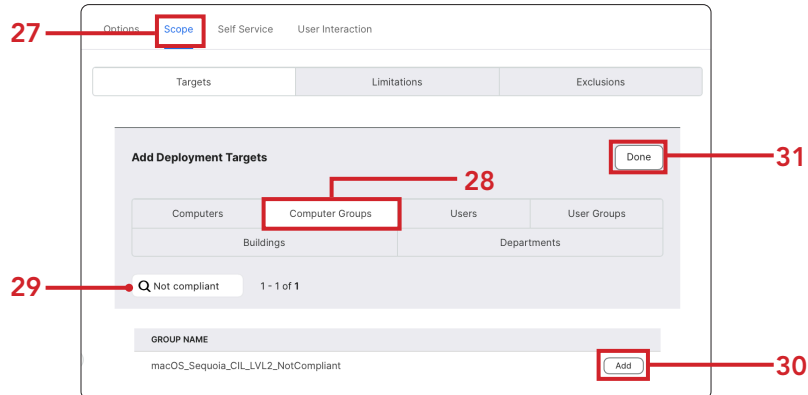
27. Click Scope.

28. Click Computer Groups.

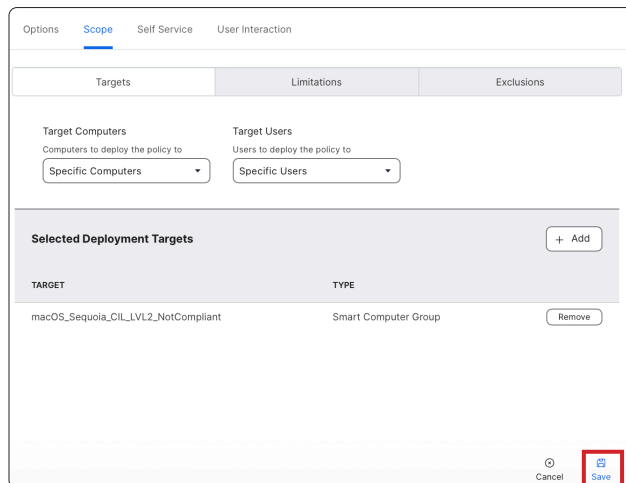
29. In the search field, enter: **not compliant**

30. Click Add for the group named: **macOS_Sequoia_CIL_LVL2_NotCompliant**.

31. Click Done.



32. Click Save.

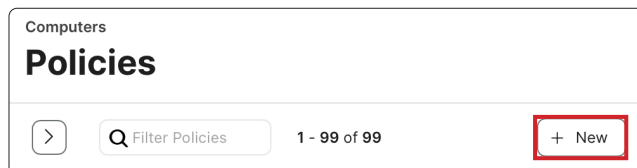


33. Click Previous (←).





34. Click New (+).

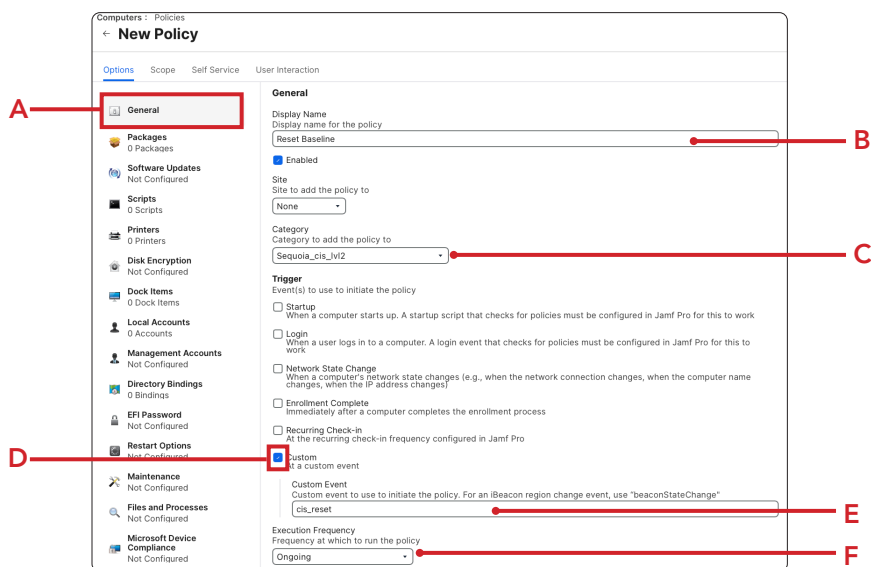


35. Configure the following:

- A. Select General.
- B. Enter **Reset Baseline** for the Display Name:
- C. Select **Sequoia_CIS Level 2_Audit** for the Category.
- D. Select the checkbox for **Custom** under Trigger.
- E. Enter **cis_reset** for Custom Event
- F. Select **Ongoing** for Execution Frequency

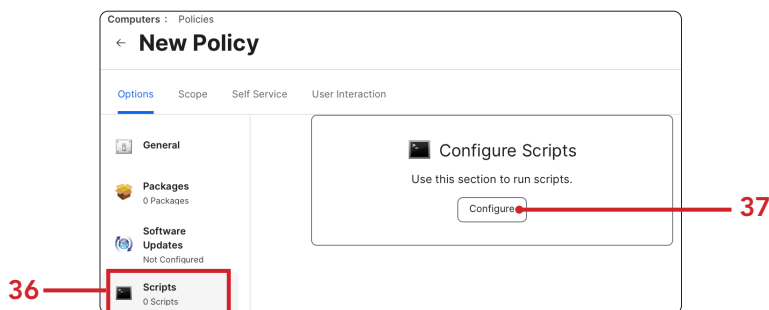
NOTE: This policy needs to be run manually either by offering it in Self Service or by running the command:

```
sudo jamf policy -event cis_reset
```



36. Click Scripts.

37. Click Configure.





38. Find the sequoia_cis_lv12_compliance.sh and click Add.

Sequoia_cis_lv12_compliance.sh	Sequoia_cis_lv12	Add
--------------------------------	------------------	-----

39. Configure the following:

- A. Priority: After.
- B. Parameter 4: --check.
- C. Parameter 5: --reset.

40. Click Maintenance.

41. Click Configure.



42. Confirm the the checkbox is selected for Update Inventory.

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

43. Click Scope.

44. Select "All Computers" for Target Computers.

45. Click Save.

NOTE: When testing your initial configuration you may make changes before settling a final baseline. During this time you might need to reset the plist which the EAs use to calculate compliance. We are scoping this to all computers just to be safe.

Computers : Policies

← **New Policy**

Options **Scope** Self Service User Interaction

Targets Limitations Exclusions

Target Computers
Computers to deploy the policy to

Target Users
Users to deploy the policy to

All Computers Specific Users

Selected Deployment Targets

+ Add

TARGET	TYPE
No Targets	

Cancel Save

46. Click Previous (←).

Computers : Policies

← **Reset Baseline**

47. Go to the Sequoia_cis_lv12 category.

48. Confirm all three policies have been created as shown below.

Expand the category to view the policies

Sequoia_cis_lv12			
Reset Baseline	Ongoing	cis_reset	All computers
Sequoia_CIS Level 2_Audit	Once every day	Check-in	Computers running macOS Sequoia
Sequoia_CIS Level 2_Remediation	Ongoing	Check-in	macOS_Sequoia_CIS_LV12_NotCompliant

This completes this section. In the next section, we will create a custom JSON schema to be used by the extension attributes and the scripts created earlier in this guide.



Section 5: Configure a JSON Schema

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 Jamf Pro server with administrative privileges

Jamf Compliance Editor (JCE) includes a feature that generates a JSON schema, allowing admins to manage exemptions without recreating or re-uploading the full compliance guidance. This schema can be used in a custom application settings configuration profile, which the compliance script and Extension Attributes read to apply approved rule exemptions—ensuring accurate compliance checks without inflating result counts.

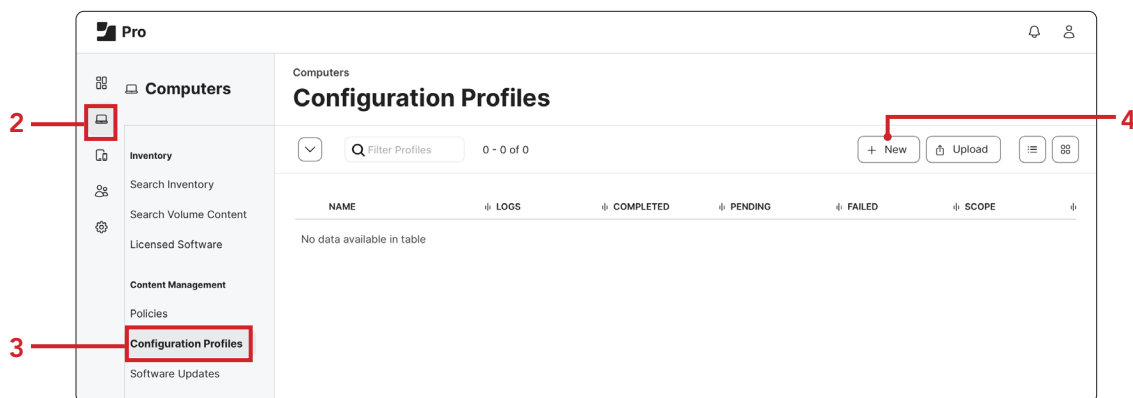
Earlier in the guide, we created an Extension Attribute called "Compliance – Failed Result List." When a JSON schema is used to manage exemptions, those exemptions will still appear in the "Compliance – Failed Result List."

In this section we will create a configuration profile using a custom JSON schema that defines exemptions for specific compliance rules.

1. If necessary, Log into your Jamf Pro Server with administrative privileges.

A screenshot of the Jamf Pro login interface. It features a 'Pro' logo at the top left. Below it are two input fields: 'Username' and 'Password', both marked as 'Required'. A blue 'Log in' button is positioned at the bottom.

2. Click Computers.
3. Click Configuration Profiles.
4. Click New.





5. Configure the following:
 - A. Select the General Payload.
 - B. Enter **Sequoia_cis_lvl2_AirDrop_Exemption** for the Name.
 - C. Select **Sequoia_cis_lvl2** for the Category.

Computers : Configuration Profiles

New macOS Configuration Profile

Options Scope

Search...

General

Name
Display name of the profile
Sequoia_cis_lvl2_AirDrop_Exemption

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
Sequoia_cis_lvl2

Level
Level at which to apply the profile
Computer Level

Distribution Method
Method to use for distributing the profile
Install automatically

Cancel Save

6. Scroll down and select the Application & Custom Settings Payload.
7. Click External Applications.
8. Click Add (+).

Computers : Configuration Profiles

New macOS Configuration Profile

Options Scope

Search...

Application & Custom Settings

External Applications

Remove all + Add

Cancel Save



9. Configure the following:
- A. Source: Select **Custom Schema**.
 - B. Preference Domain: enter **org.cis_lvl2.audit**.
 - C. Click **Add schema**.

Computers : Configuration Profiles

New macOS Configuration Profile

Options Scope

Search...

General

Accessibility
Not configured

ACME Certificate
Not configured

AD Certificate
Not configured

AirPlay
Not configured

App-To-Per-App
VPN Mapping
Not configured

Application & Custom Settings
1 payload configured

Jamf Applications

External Applications

Upload

External Applications

1 payload configured

Remove all + Add

org.cis_lvl2.audit
Use this section to define settings for preference domains available in the repository.

Source
Source to use for the preference domain

Custom Schema

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

org.cis_lvl2.audit

Required

Custom Schema
Required JSON Schema to populate configurable properties in the Property List

+ Add schema

Cancel Save

10. Click Upload.

Custom JSON Schema

Custom Schema
Required JSON Schema to populate configurable properties in the Property List

Required

10 Upload Clear

Cancel Save

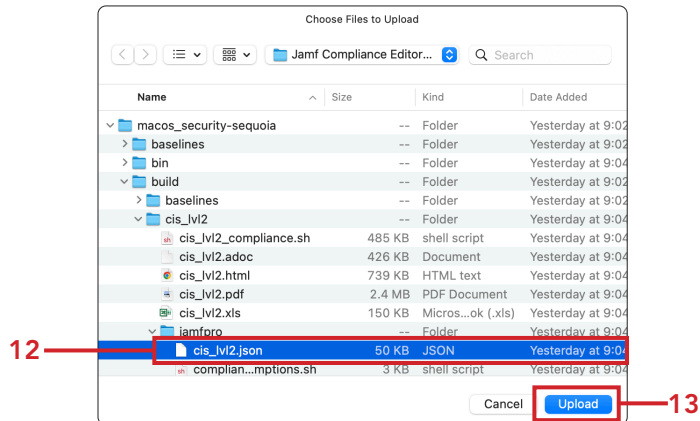


11. Navigate to: ~/Desktop/Jamf Compliance Editor - macOS Sequoia/macOS_security-sequoia/build/cis_lvl2/jamfpro/

NOTE: The **Jamf Compliance Editor - macOS Sequoia** folder was created on your Desktop in Section 2 of this guide.

12. Select the **cis_lvl2.json** file.

13. Click Upload.



14. Click Save.

Custom JSON Schema

Custom Schema

Required JSON Schema to populate configurable properties in the Property List

```
{
  "__feedback": "",
  "__version": "1.0",
  "description": "Preference Domain: org.cis_lvl2.audit, Application: macOS Security Compliance Project",
  "options": {
    "remove_empty_properties": true,
    "properties": {
      "audit_acs_files_configure": {
        "anyOf": [

```

Required

Upload Clear

Cancel Save



15. Configure the following:
- A. Scroll down to `os_aidrop_disable`.
 - B. Set it to **Configured**.
 - C. Exempt: set to **true**.
 - D. Exempt_reason: Enter a reason of your choosing. This guide will use **Required by HCS**.

A screenshot of the 'New macOS Configuration Profile' interface. The interface has a left sidebar with categories like General, Accessibility, ACME Certificate, AD Certificate, AirPlay, App-To-Per-App VPN Mapping, Application & Custom Settings, Jamf Applications, and External Applications. The main area shows configuration options for various macOS settings. Annotations B, C, and D point to specific fields: B points to the 'os_aidrop_disable' dropdown menu, C points to the 'exempt' text input field, and D points to the 'exempt_reason' text input field. The 'exempt_reason' field contains the text 'Required by HCS'.

Computers : Configuration Profiles

New macOS Configuration Profile

Options Scope

Search...

- General
- Accessibility
Not configured
- ACME Certificate
Not configured
- AD Certificate
Not configured
- AirPlay
Not configured
- App-To-Per-App
VPN Mapping
Not configured
- Application & Custom
Settings
1 payload
configured
- Jamf
Applications
- External
Applications

Not Configured

icloud_sync_disable
Not Configured

os_aidrop_disable
Configured

Disable AirDrop

Add/Remove properties

exempt
If value is true, exempt_reason is required
true

exempt_reason
Specify Exempt Reasoning
Required by HCS

os_anti_virus_installed
Not Configured

os_authenticated_root_enable
Not Configured

os_bonjour_disable
Not Configured

Cancel Save



16. Click Scope.

17. Scope to your needs. This guide will scope to All Computers.

18. Click Save.

A screenshot of the 'New macOS Configuration Profile' dialog box. The dialog has a title bar 'Computers : Configuration Profiles' and a back arrow. Below the title is a tabbed interface with 'Options', 'Limitations', and 'Exclusions'. The 'Options' tab is active. Under 'Options', there are two sections: 'Target Computers' and 'Target Users'. 'Target Computers' has a dropdown menu labeled 'Computers to assign the profile to' with 'All Computers' selected. 'Target Users' has a dropdown menu labeled 'Users to distribute the profile to' with 'Specific Users' selected. Below these is a section titled 'Selected Deployment Targets' with a '+ Add' button. At the bottom right, there are 'Cancel' and 'Save' buttons. Red annotations with numbers 16, 17, and 18 point to the 'Scope' link, the 'All Computers' dropdown, and the 'Save' button respectively.

Computers : Configuration Profiles

← **New macOS Configuration Profile**

Options **Scope** 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

This completes this section. In the next section, we will scope the configuration profiles created by the Jamf Compliance Editor application.



Section 6: Scoping the JCE Computer Configuration Profiles

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 Jamf Pro server with administrative privileges

In this section, we'll create an Advanced Computer Search in Jamf Pro to generate reports. This allows administrators to identify which computers are compliant and which require remediation.

1. If necessary, Log into your Jamf Pro Server with administrative privileges.

The image shows the Jamf Pro login interface. It features a 'Pro' logo at the top. Below it are two input fields: 'Username' and 'Password'. Both fields are marked as 'Required'. The 'Password' field has a toggle icon for showing or hiding the password. At the bottom is a blue 'Log in' button.

2. Click Computers.
3. Click Configuration Profiles.
4. Go to the Sequoia_cis_lvl2 category and expand the category to see all the computer configuration profiles that were created by the Jamf Compliance Editor application. Notice none of the computer configuration profiles are scoped. We need to scope all of them to the smart group named Computers running macOS Sequoia.

The screenshot shows the Jamf Pro interface. On the left is a sidebar with a 'Pro' logo and a list of navigation items: 'Computers', 'Inventory', 'Search Inventory', 'Search Volume Content', 'Licensed Software', 'Content Management', 'Policies', 'Configuration Profiles', 'Software Updates', 'Restricted Software', 'Mac Apps', 'Patch Management', 'eBooks', 'Groups', 'Smart Computer Groups', and 'Static Computer Groups'. The 'Configuration Profiles' item is highlighted with a red box and labeled with a red '3'. The main area shows the 'Computers' section with a 'Configuration Profiles' header. Below this header is a list of configuration profiles under the 'Sequoia_cis_lvl2' category. The 'Sequoia_cis_lvl2' category is expanded, and its dropdown arrow is highlighted with a red box and labeled with a red '4'. The list of profiles includes: 'Sequoia_cis_lvl2-Accessibility', 'Sequoia_cis_lvl2-applicationaccess', 'Sequoia_cis_lvl2-assistant.support', 'Sequoia_cis_lvl2-controlcenter', 'Sequoia_cis_lvl2-loginwindow', 'Sequoia_cis_lvl2-MCX', 'Sequoia_cis_lvl2-mDNSResponder', 'Sequoia_cis_lvl2-mobiledevice.passwordpolicy', 'Sequoia_cis_lvl2-Safari', 'Sequoia_cis_lvl2-screensaver', 'Sequoia_cis_lvl2-security.firewall', and 'Sequoia_cis_lvl2-Siri'. Each profile has a 'View' link and a count of '0'.



5. Select the first computer configuration profile in the list. Perform the following:
 - A. Click Scope.
 - B. Click Edit.

Computers : Configuration Profiles

← Sequoia_cis_lvl2-Accessibility

Options **Scope** — A ☐ Show in Jamf Pro Dashboard

Targets Limitations Exclusions

Target Computers
Computers to assign the profile to
Specific Computers

Target Users
Users to distribute the profile to
Specific Users

TARGET	TYPE
No Targets	

History Logs Download Clone Delete **Edit** — B

6. Click Targets.

7. Click Add.

Computers : Configuration Profiles

← Sequoia_cis_lvl2-Accessibility

Options **Scope**

Targets Limitations Exclusions

Target Computers
Computers to assign the profile to
Specific Computers

Target Users
Users to distribute the profile to
Specific Users

Selected Deployment Targets

+ Add — 7

TARGET	TYPE
--------	------

8. Click Computer Groups.

9. In the search field, enter: computers running.

10. Click Add for the group named: Computers running macOS Sequoia.

Options **Scope**

Targets Limitations Exclusions

Add Deployment Targets Done

Computer Groups — 8

Computers Users User Groups
Buildings Departments

Computers running 1 - 1 of 1 — 9

GROUP NAME
Computers running macOS Sequoia

Add — 10



11. Click Done.

12. Click Save.

13. Click Previous (←).

14. Repeat steps 4 - 13 for the remaining computer configuration profiles. They should all be scoped to Computers running macOS Sequoia when done.

Configuration Profile	View	1	1	0	Computers running macOS Sequoia
Sequoia_cis_lvl2-Accessibility	View	1	1	0	Computers running macOS Sequoia
Sequoia_cis_lvl2-applicationaccess	View	0	0	0	No scope defined
Sequoia_cis_lvl2-assistant.support	View	0	0	0	No scope defined
Sequoia_cis_lvl2-controlcenter	View	0	0	0	No scope defined
Sequoia_cis_lvl2-loginwindow	View	0	0	0	No scope defined

This completes this section. In the next section, we will create an Advanced Computer Search for reporting.



Section 7: Creating an Advanced computer Search

What You'll Need:

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

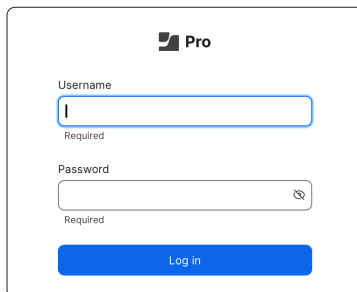
Hardware and Software:

Requirements for following along with this section:

- A Jamf Pro server with administrative privileges

In this section we will create an Advanced Computer Search to run reports.

1. If necessary, Log into your Jamf Pro Server with administrative privileges.

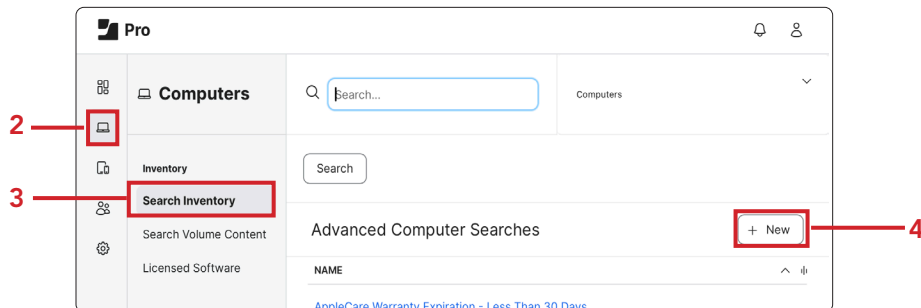


The image shows the Jamf Pro login interface. It features a 'Pro' logo at the top. Below it are two input fields: 'Username' and 'Password'. Both fields have a 'Required' label underneath them. A blue 'Log in' button is positioned at the bottom of the form.

2. Click Computers.

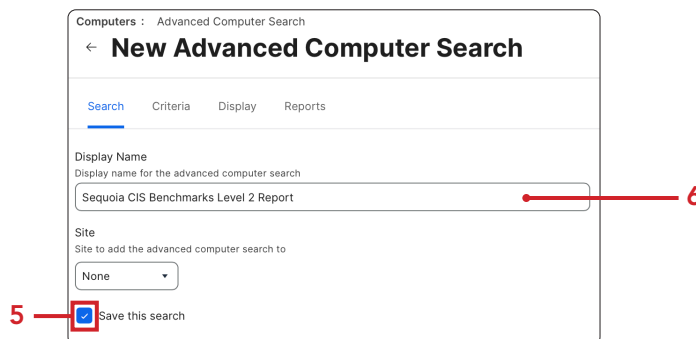
3. Click Search Inventory.

4. Click New.



5. Select the checkbox for Save this search.

6. Enter Sequoia CIS Benchmarks Level 2 Report for the Display Name.



The image shows the 'New Advanced Computer Search' form. It has a title bar with 'Computers : Advanced Computer Search' and a back arrow. Below the title bar are four tabs: 'Search', 'Criteria', 'Display', and 'Reports'. The 'Search' tab is selected. The form has two main sections: 'Display Name' and 'Site'. The 'Display Name' section has a text input field containing 'Sequoia CIS Benchmarks Level 2 Report', which is highlighted with a red box and labeled '6'. The 'Site' section has a dropdown menu with 'None' selected. At the bottom, there is a checkbox labeled 'Save this search', which is highlighted with a red box and labeled '5'.



7. Click Criteria.

8. Click Add.

Computers : Advanced Computer Search

← **New Advanced Computer Search**

Search **Criteria** Display Reports

AND/OR	CRITERIA	OPERATOR	VALUE

+ Add

9. Click Show Advanced Criteria.

Computers : Advanced Computer Search

← **New Advanced Computer Search**

Search **Criteria** Display Reports

NEW CRITERIA

Building Choose

Show Advanced Criteria

10. Find Operating System Version and click Choose.

Operating System Version Choose

11. Select like for the Operator.

12. Enter 15 for the Value.

Computers : Advanced Computer Search

← **New Advanced Computer Search**

Search **Criteria** Display Reports

AND/OR	CRITERIA	OPERATOR	VALUE
	Operating System Version	like	15

+ Add

13. Click Display.

14. Click Extension Attributes.

Computers : Advanced Computer Search

← **New Advanced Computer Search**

Search **Criteria** **Display** Reports

Computer	Hardware	Operating System	Security
User and Location	Purchasing	Storage	Extension Attributes

Export Only



15. Select the following extension attributes:

- Compliance - Exemptions
- Compliance - Failed Result List
- Compliance - Failed Results Count
- Compliance - Version

16. Click Save

Computers : Advanced Computer Search

← **New Advanced Computer Search**

Search Criteria **Display** Reports

☒ Compliance - Exemptions

☒ Compliance - Failed Result List

☒ Compliance - Failed Results Count

☒ Compliance - Version

☐ Controller Chip Type - T1 or T2

☐ Current Logged in User

☐ Days since last reboot

☐ Default Web Browser

☐ Deployment Type

☐ Desktop Installed

Cancel **Save**

17. Click View.

History **View** Clone Delete Edit

18. A list of complaint computers will be shown. You have the option of creating a report showing the compliance of the organizations computers by clicking the report button. A report can be exported in .csv, tsv, or xml formats.

Computers

2 Computers in "Sequoia CIS Benchmarks Level 2 Report"

Filter Results 1 - 2 of 2 + New

NAME	LAST INVENTORY UPDATE	LAST CHECK-IN	IP ADDRESS	COMPLIANCE - FAILED RESULT LIST
Keith MacBook Pro	4 minutes ago	5 minutes ago	24.44.131.89	icloud_sync_disable os_airdrop_disable os_bonjour
Keith's Mac	09/04/2024 at 4:54 PM	09/04/2024 at 6:56 PM	24.44.131.89	

< 1 > Show: 100 Report Action

This completes this section. In the next section, we will use the Jamf Compliance Editor to create a CIS Level 2 Baseline for iOS devices.



Section 8: Creating a Jamf Compliance Editor CIS Level 2 Baseline for iOS.

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 Compliance Editor Application
- A Jamf Pro server with administrative privileges

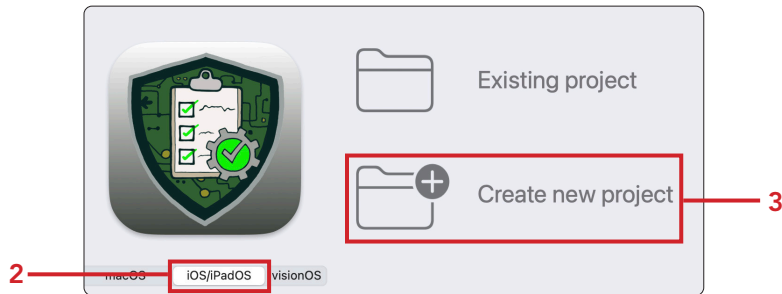
In this section we use the Jamf Compliance Editor application to create a Jamf Compliance Editor using the CIS level 2 benchmark.

1. Open the Jamf Compliance Editor located in the Applications folder.



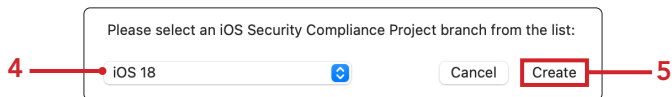
2. Click iOS/iPadOS.

3. Click Create new project



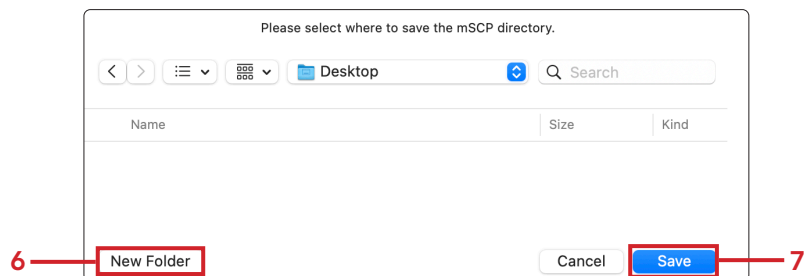
4. Select your iOS version. This guide will use iOS 18.

5. Click Create.



6. Navigate to the Desktop and click New Folder.

7. Click Save.

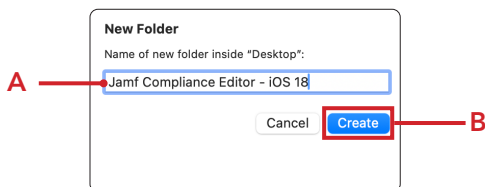




8. Configure the following:

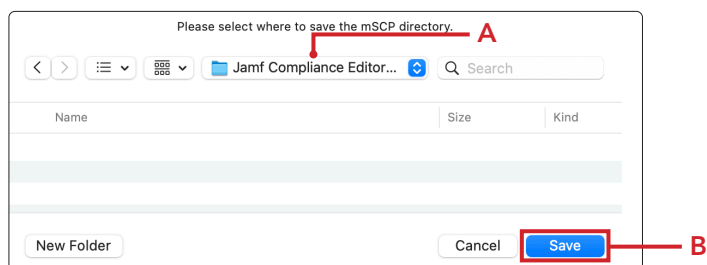
A. Folder name Jamf Compliance Editor - iOS 18 (Change iOS 18 to match whatever version you selected in step 3)

B. Click Create



9. Confirm the save location matches what you created in the previous step.

10. Click Save

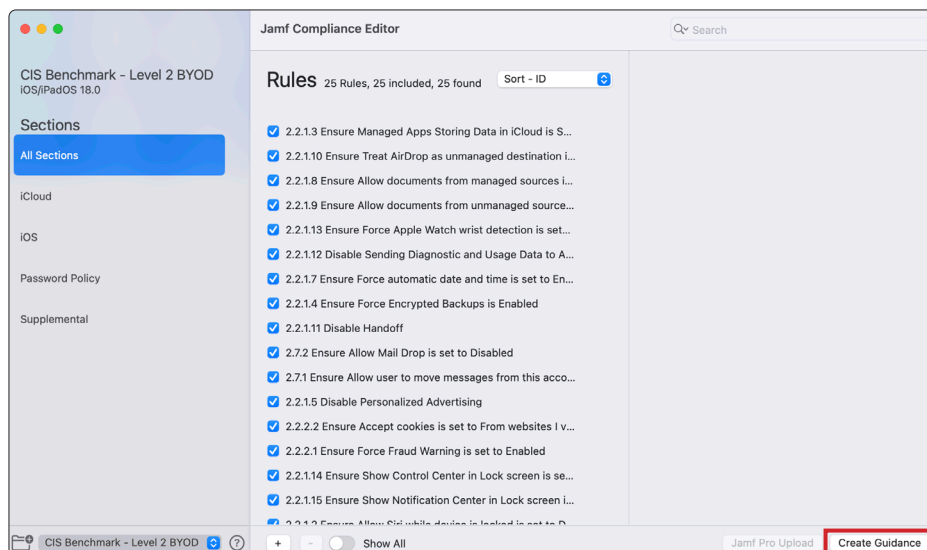


11. Select a Benchmark. This guide will select CIS Benchmark - Level 2 BYOD.

12. Click OK.

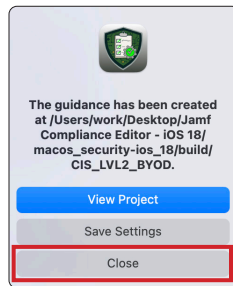


13. Click Create Guidance.

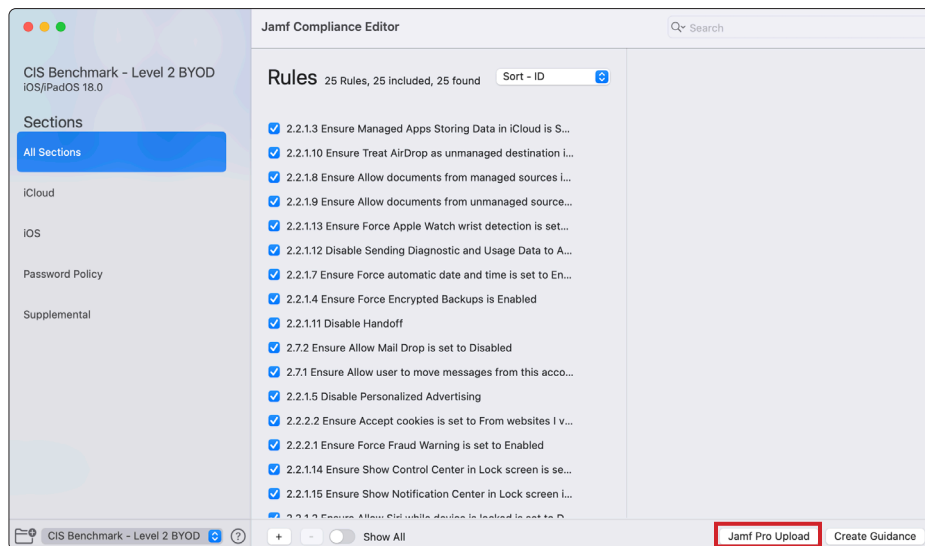




14. At the message below, click Close.

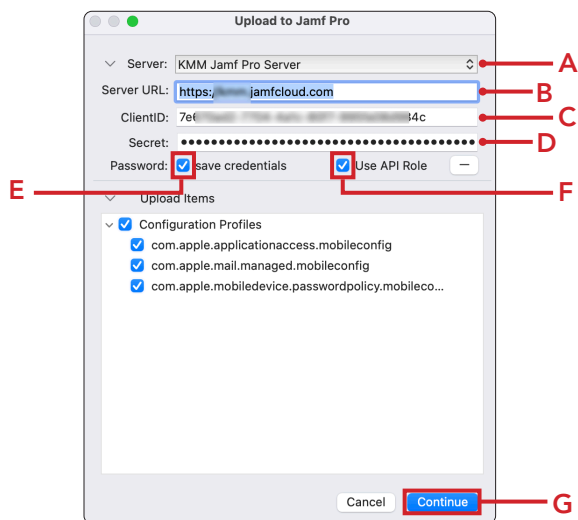


15. Click Jamf Pro Upload. This will upload all the Rules in the list. If you don't want the full rule set, you can deselect the rules you don't want before uploading to Jamf Pro.





16. Enter the name of your Jamf Pro server.
17. Enter the URL of your Jamf Pro server.
18. Enter the client ID we saved in section one of this guide.
19. Enter the secret we saved in section one of this guide.
20. Enable save credentials.
21. Select the checkbox for Use API Role.
22. Click Continue.



23. Quit the Jamf Compliance Editor app.

This completes this section. In the next section, we will create a smart device group for iOS devices using Account Driven Enrollment.



Section 9: Creating a Smart Device Group for iOS Devices using Account Driven Enrollment.

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 Jamf Pro server with administrative privileges

In this section we will create a Smart Device Group for iOS Devices using Account Driven Enrollment. We will use iPadOS 18.3 with CIS Benchmark Level 2 for Account Driven user enrollment as our example for this section. The process is the same for other versions of iOS/ iPadOS/visionOS using different baselines and benchmarks.

Remediation/Scripts for iOS/iPadOS/visionOS:

The ability to audit or remediate does not exist for iOS/iPadOS/visionOS. Once the configuration profile has been validated as deployed by the MDM server it is

considered compliant. There are no scripts that can audit or remediate an iOS/iPadOS/ visionOS device, nor are Jamf Pro Extension Attributes available.

1. If necessary, Log into your Jamf Pro Server with administrative privileges.

The login form for Jamf Pro. It features a 'Pro' logo at the top. Below it are two input fields: 'Username' and 'Password'. Both fields are marked as 'Required'. The 'Password' field has a toggle for visibility. At the bottom is a blue 'Log in' button.

2. Click Devices.

3. Click Smart Device Groups.

4. Click New.

The screenshot shows the Jamf Pro web interface. On the left is a sidebar with a 'Devices' section containing 'Inventory', 'Search Inventory', 'Search Volume Content', 'Content Management', 'Configuration Profiles', 'Software Updates', 'Provisioning Profiles', 'Personal Device Profiles', 'Mobile Device Apps', 'eBooks', 'Groups', 'Smart Device Groups', and 'Static Device Groups'. A red box labeled '2' highlights the 'Devices' icon in the sidebar. Another red box labeled '3' highlights the 'Smart Device Groups' link in the sidebar. The main content area is titled 'Mobile Devices' and 'Smart Device Groups'. It contains a table with columns 'NAME', 'MEMBERSHIP COUNT', and 'AUTOMATED MANAGEMENT'. The table lists three groups: 'All Managed iPads' (0 members), 'All Managed iPhones' (1 member), and 'All Managed iPod touches' (0 members). A red box labeled '4' highlights the '+ New' button in the top right corner of the main content area.

NAME	MEMBERSHIP COUNT	AUTOMATED MANAGEMENT
All Managed iPads	0	No
All Managed iPhones	1	No
All Managed iPod touches	0	No



5. Configure the following:
 - A. Click Mobile Device Group.
 - B. Enter **Account Driven User Enrolled iOS/iPadOS devices running iOS 18** for the Display Name.

Mobile Devices : Smart Device Groups

← **New Smart Mobile Device Group**

Mobile Device Group Criteria Automated Management

Display Name

Display name for the smart mobile device group

Account Driven User Enrolled iOS/iPadOS devices running iOS 18

☐ Send email notification on membership change
When group membership changes, send an email notification to Jamf Pro users with email notifications enabled. An SMTP server must be set up in Jamf Pro for this to work.

Site

Site to add the smart mobile device group to

None

Cancel Save

6. Click Criteria.

7. Click Add.

Mobile Devices : Smart Device Groups

← **New Smart Mobile Device Group**

Mobile Device Group Criteria Automated Management

AND/OR	CRITERIA	OPERATOR	VALUE
No Criteria Specified			

+ Add

8. Click Show Advanced Criteria.

Mobile Devices : Smart Device Groups

← **New Smart Mobile Device Group**

Mobile Device Group Criteria Automated Management

NEW CRITERIA

Show Advanced Criteria

9. Scroll down to OS Version and click Choose.

OS Version

Choose



10. Configure the following:
- A. Select **like** for the Operator.
 - B. Enter **18** for the Value
 - C. Click Add

11. Click Show Advanced Criteria.

12. Select Device Ownership Type and click Choose.

13. Configure the following:
- A. From the menu select **and**
 - B. Select **is** for the Operator.
 - C. Enter **Personal (Account-Driven User Enrollment)** for the Value.
 - D. Click Add

14. Click Show Advanced Criteria.



15. Select Device Ownership Type and click Choose.

Device Ownership Type Choose

16. Configure the following:

- A. From the menu select **or**
- B. Select **is** for the Operator.
- C. Enter **Personal (User Enrollment)** for the Value.
- D. From the menu to the right of **and**, Select an open parentheses { (}.
- E. From the menu to the left Delete, select a closed parentheses {) }.
- F. Click Save

Mobile Devices : Smart Device Groups

← **New Smart Mobile Device Group**

Mobile Device Group Criteria Automated Management Reports

AND/OR	CRITERIA	OPERATOR	VALUE	
	OS Version	like	18	Delete
D {	Device Ownership Type	B is	Personal (Account-Driven User Enrollment)	Delete
A or	Device Ownership Type	is	Personal (User Enrollment)	E) Delete

Cancel **F** Save

17. Click Previous (←).

Mobile Devices : Smart Device Groups

← **Account Driven User Enrolled iOS/iPadOS devices running iOS 18**

18. Confirm Account Driven User Enrolled iOS/iPadOS devices running iOS 18 is shown in the list.

Smart Device Groups	
NAME	MEMBERSHIP COUNT
Account Driven User Enrolled iOS/iPadOS devices running iOS 18	0
All Managed iPads	1



19. Click Devices.
20. Click Configuration Profiles.
21. Go to **iOS18_cis_lvl2_byod** category and expand the category to see all the computer configuration profiles that were created by the Jamf Compliance Editor app.
22. Select the first configuration profile in the list.

The screenshot shows the Jamf Pro interface. On the left sidebar, the 'Devices' menu item is highlighted with a red box and labeled 19. Below it, the 'Configuration Profiles' menu item is highlighted with a red box and labeled 20. The main content area is titled 'Mobile Devices Configuration Profiles'. It shows a list of profiles under the 'iOS18_cis_lvl2_byod' category, which is expanded with a red box and labeled 21. The first profile in the list, 'iOS18_cis_lvl2_byod-applicationaccess', is highlighted with a red box and labeled 22. The table below shows the status of these profiles.

NAME	LOGS	COMPLETED	PENDING	FAILED	SCOPE
iOS18_cis_lvl2_byod-applicationaccess	View	0	0	0	No scope defined
iOS18_cis_lvl2_byod-mail.managed	View	0	0	0	No scope defined
iOS18_cis_lvl2_byod-mobiledevice.passwordpolicy	View	0	0	0	No scope defined

23. Select Scope.
24. Click Edit.

The screenshot shows the 'iOS18_cis_lvl2_byod-applicationaccess' configuration profile page. The 'Options' section has the 'Scope' tab selected, highlighted with a red box and labeled 23. Below this, there are tabs for 'Targets', 'Limitations', and 'Exclusions'. The 'Targets' tab is active, showing 'Target Mobile Devices' and 'Target Users' sections. At the bottom of the page, the 'Edit' button is highlighted with a red box and labeled 24.



25. Click Add.

Mobile Devices : Configuration Profiles

← **iOS18_cis_lvl2_byod-applicationaccess**

Options Scope

Targets Limitations Exclusions

Target Mobile Devices
Mobile devices to assign the profile to. Does not apply to personally owned devices

Target Users
Users to distribute the profile to

Specific Mobile Devices Specific Users

Selected Deployment Targets + Add

TARGET	TYPE
--------	------

26. Perform the following:

A. Select Mobile Device Groups

B. In the search field enter: account driven

C. Click add next to Account Driven User Enrolled iOS/iPadOS devices running iOS 18

Mobile Devices : Configuration Profiles

← **iOS18_cis_lvl2_byod-applicationaccess**

Options Scope

Add Deployment Targets Done

Mobile Devices **Mobile Device Groups** Users User Groups

Buildings Departments

B Q account driven 1 - 1 of 1

GROUP NAME

Account Driven User Enrolled iOS/iPadOS devices running iOS 18 **C** Add

27. Click Done.

Mobile Devices : Configuration Profiles

← **iOS18_cis_lvl2_byod-applicationaccess**

Options Scope

Targets Limitations Exclusions

Add Deployment Targets Done

Mobile Devices Mobile Device Groups Users User Groups

Buildings Departments

Q account driven 1 - 1 of 1



28. Click Save.

Mobile Devices : Configuration Profiles

←

iOS18_cis_lvl2_byod-applicationaccess

Options

Scope

Targets

Limitations

Exclusions

Target Mobile Devices

Mobile devices to assign the profile to. Does not apply to personally owned devices

Specific Mobile Devices

Target Users

Users to distribute the profile to

Specific Users

Selected Deployment Targets

+ Add

TARGET	TYPE	
Account Driven User Enrolled iOS/iPadOS devices running iOS 18	Smart Mobile Device Group	Remove

Cancel

Save

29. Click Previous (←).

Mobile Devices : Configuration Profiles

←

iOS18_cis_lvl2_byod-applicationaccess

30. Scope the remaining two configuration profiles to the mobile device group named Account Driven User Enrolled iOS/iPadOS devices running iOS 18.

▼ iOS18_cis_lvl2_byod

iOS18_cis_lvl2_byod-applicationaccess	View	0	0	0	Account Driven User Enrolled iOS/iPadOS devices running iOS 18
iOS18_cis_lvl2_byod-mail.managed	View	0	0	0	No scope defined
iOS18_cis_lvl2_byod-mobiledevice.passwordpolicy	View	0	0	0	No scope defined

This completes this section. In the next section, we use the Jamf Compliance Editor - macOS Sequoia project we created in section two of this guide using the CIS Benchmark - Level 2 to audit a local Mac computer..



Section 10: Run a local Mac Computer Audit

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 computer with administrative privileges
- Jamf Compliance Editor Application
- The Jamf Compliance Editor - macOS Sequoia project we created in section two of this guide.

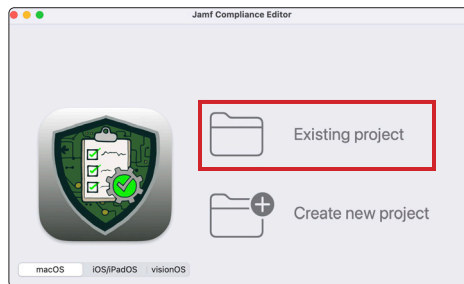
In this section, we use the Jamf Compliance Editor - macOS Sequoia project we created in section two of this guide using the CIS Benchmark - Level 2 to audit a local Mac computer.

1. If necessary, Open Jamf Compliance Editor.



Jamf Compliance Editor

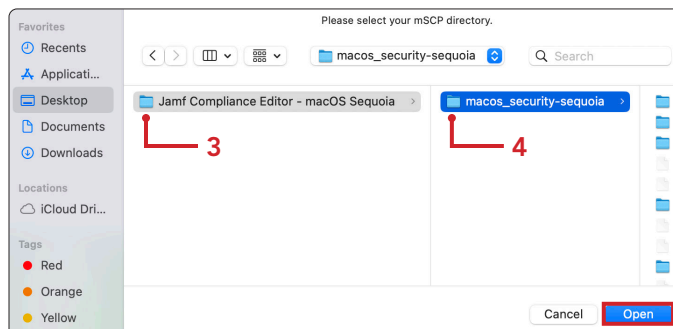
2. Click Existing project.



3. Select the Jamf Compliance Editor - macOS Sequoia folder located on your Desktop.

4. Select the macos_security-sequoia folder.

5. Click Open.



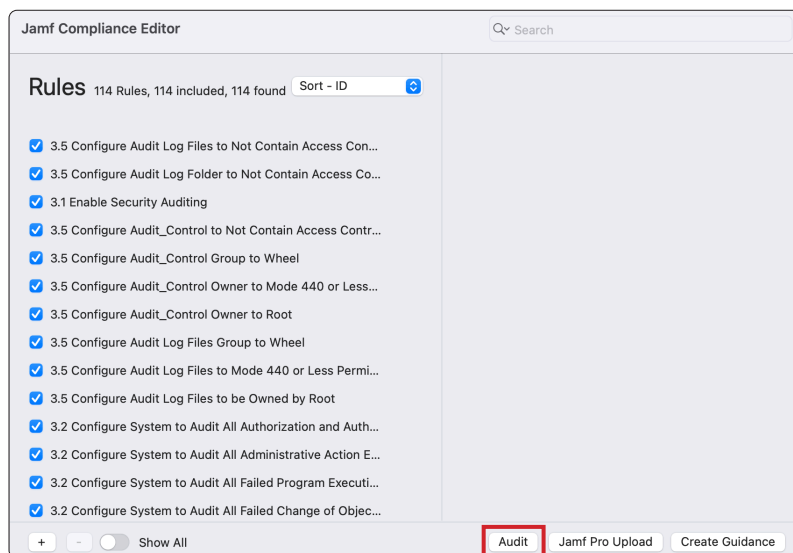
6. Select CIS Benchmark - Level 2.

7. Click OK.



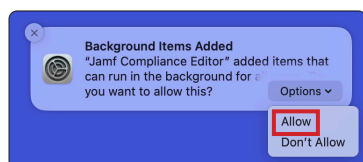


8. Click the Audit button.



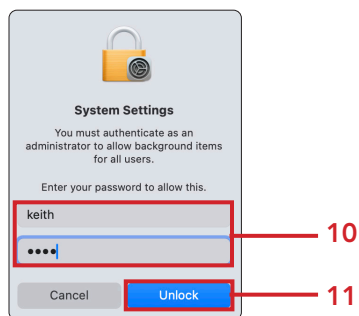
9. If prompted with the message below, select Allow.

NOTE if you did not see notification, you can enable the background item for Jamf Compliance Editor here: System Settings > General > Login Items & Extensions > Allow in Background.

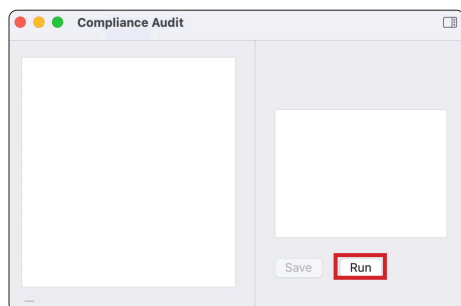


10. Enter your administrator credentials.

11. Click Unlock.



12. Click Run.

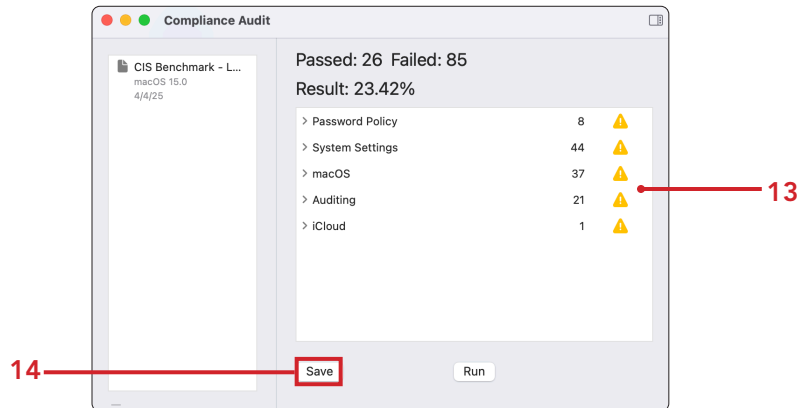




13. Confirm the output of the CIS Benchmark - Level 2 local audit is shown below.

14. Click Save.

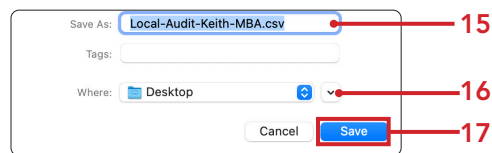
NOTE: The results show in the image below were run on a NON compliant Mac computer to demonstrate what you would see if issue were found.



15. Enter **Local-Audit-Keith-MBA.csv** (replace Keith with your name.)

16. Select Desktop as the destination.

17. Click Save



18. Open the csv file that was saved to your desktop.





19. The file contains a full report of all the items that passed and failed the local audit using the CIS Benchmark - Level 2.

Local-Audit-Keith-MBA.csv			
Title	Finding	Result value	Expected Result
Password Policy			
Require Passwords to Match the Defined Custom Regular Expression	true	false	string: true
Restrict Maximum Password Lifetime to \$ODV Days	true	null	integer: 365
Prohibit Password Reuse for a Minimum of \$ODV Generations	true	null	string: yes
Limit Consecutive Failed Login Attempts to \$ODV	true	null	string: yes
Set Account Lockout Time to \$ODV Minutes	true	null	string: yes
Require Passwords Contain a Minimum of One Special Character	true	null	string: true
Require Passwords Contain a Minimum of One Numeric Character	true	0	integer: 1
Require a Minimum Password Length of \$ODV Characters	true	false	string: true
System Settings			
Ensure Time Machine Volumes are Encrypted	false	0	integer: 0
Enforce macOS Updates are Automatically Installed	true	null	string: true
Enforce Session Lock After Screen Saver is Started	true	false	string: true
Ensure Location Services Is In the Menu Bar	true	null	boolean: 1
Disable Guest Access to Shared SMB Folders	true	null	boolean: 0
Disable Printer Sharing	false	1	boolean: 1
Enable Bluetooth Menu	true	null	integer: 18
Require Administrator Password to Modify System-Wide Preferences	true	0	integer: 1
Enable Location Services	false	true	string: true
Enforce Software Update App Update Updates Automatically	true	null	string: true
Disable the Guest Account	true	false	string: true
Enforce Software Update Downloads Updates Automatically	true	null	string: true
Disable Personalized Advertising	true	null	string: false
Disable Remote Management	false	1	integer: 1
Configure Login Window to Prompt for Username and Password	true	null	string: true
Disable Server Message Block Sharing	true	0	integer: 1
Secure Hot Corners	false	0	integer: 0
Enforce Screen Saver Timeout	true	false	string: true
Disable Password Hints	true	null	integer: 0
Enforce Software Update Automatically	true	null	string: true

This completes this section. In the next section, we will modify the CIS Benchmark - Level 2 to create a risk based benchmark and report with custom author names.



Section 11: Risk based benchmarks and reports

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 computer with administrative privileges
- Jamf Compliance Editor Application
- The Jamf Compliance Editor - macOS Sequoia project we created in section two of this guide.

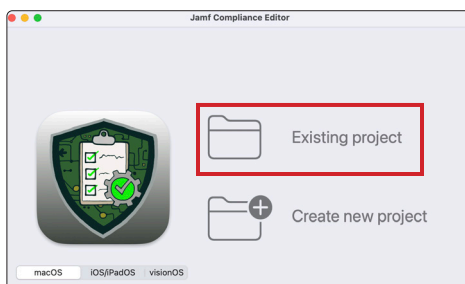
In this section we modify the Jamf Compliance Editor - macOS Sequoia project we created in section two of this guide using the CIS Benchmark - Level 2 to create a risk based benchmark. Modifying CIS benchmarks becomes risk-based when changes are informed by specific risk evaluations, ensuring that controls are tailored to mitigate key threats effectively while maintaining operational balance.

1. If necessary, Open Jamf Compliance Editor.



Jamf Compliance Editor

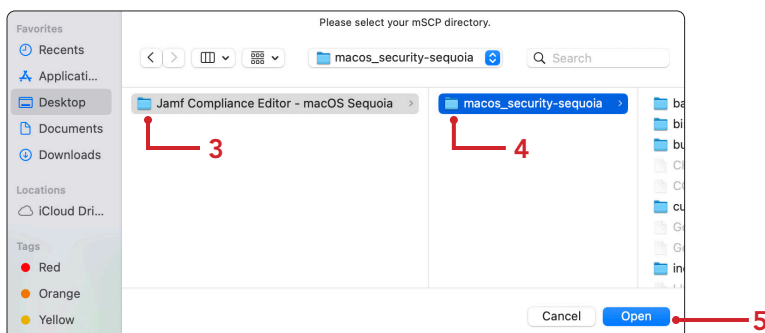
2. Select Existing project.



3. Select the Jamf Compliance Editor - macOS Sequoia folder located on your Desktop

4. Select the macos_security-sequoia folder

5. Click Open





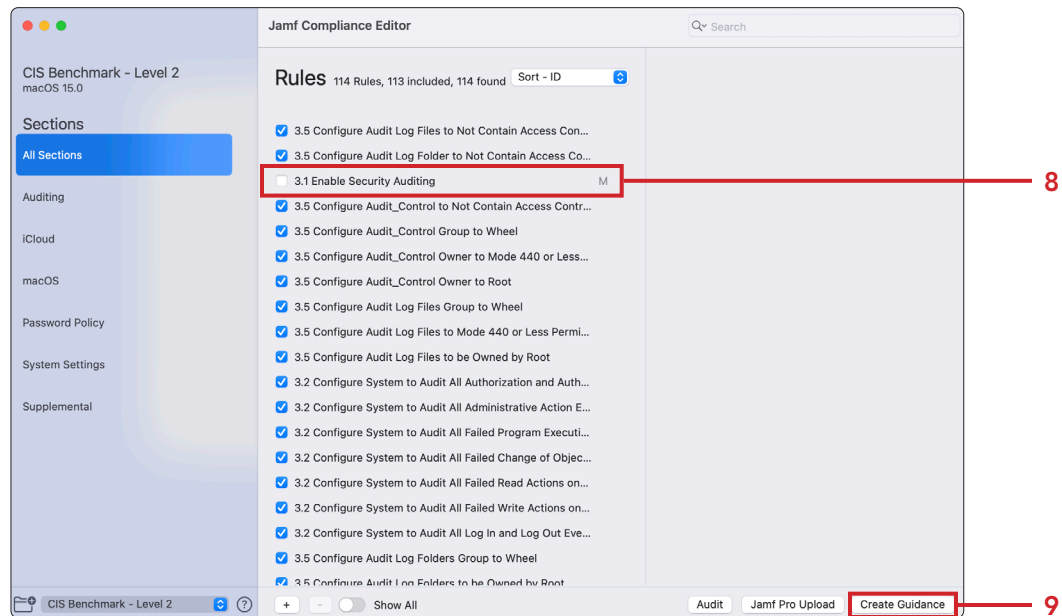
6. Select CIS Benchmark - Level 2.

7. Click OK.



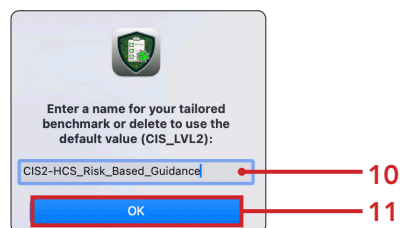
8. Deselect the checkbox for 3.1 Enable Security Auditing. Confirm an "M" to the right of 3.1 Enable Security Auditing. This means the baseline was modified

9. Click Create Guidance



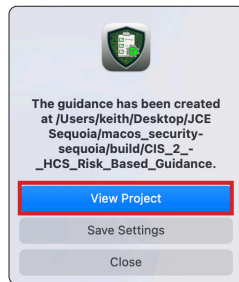
10. Enter a name for the benchmark. This guide will use CIS2-HCS_Risk_Based_Guidance.
NOTE: If you use spaces, JCE will rename it with underscores and dashes.

11. Click OK.

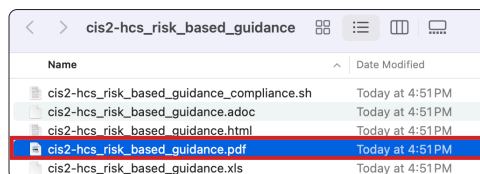




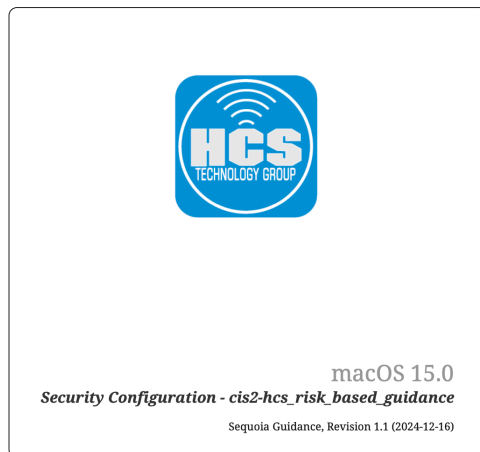
12. Click View Project.



13. Open the file named cis2-hcs_risk_based_guidance.pdf. NOTE: You filename will be different.

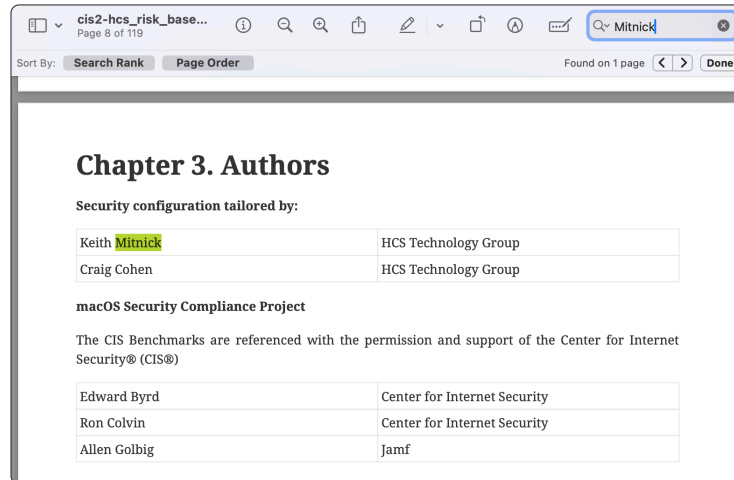


14. The report will have your organizations logo on the cover page.





15. Chapter three of the pdf document will show the authors that were set in the Jamf Compliance Editor app preferences in section two of this guide. The author information will only show up in a report if a baseline is manually altered to remove items from the baseline.



This completes this section. In the next section, we will create Auditor Reports with Organization Defined Values.



Section 12: Auditor Reports with Organization Defined Values

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 computer with administrative privileges
- Jamf Compliance Editor Application
- The Jamf Compliance Editor - macOS Sequoia project we created in section two of this guide.

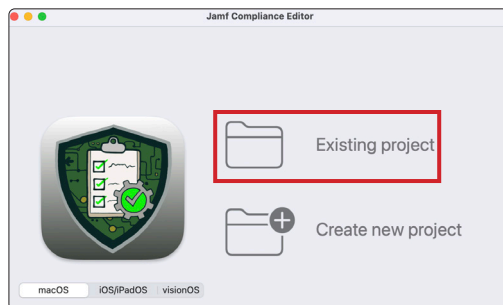
In this section, we will modify the Jamf Compliance Editor macOS Sequoia project created in section two, using the CIS Benchmark Level 2. We'll update an Organizational Defined Value (ODV) and generate a report to provide to an auditor, documenting the changes made.

An Organizational Defined Value (ODV) in Jamf Compliance Editor is a customizable setting within a compliance baseline. Instead of using a fixed benchmark value, ODVs (typically shown as \$ODV) allow organizations to define values that align with their internal security policies or operational needs.

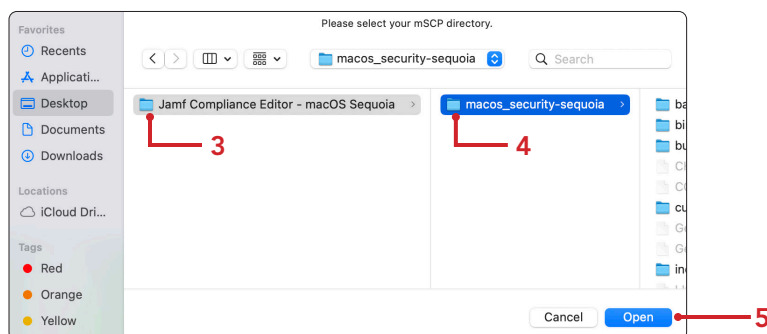
1. If necessary, Open Jamf Compliance Editor.



2. Click Existing project.



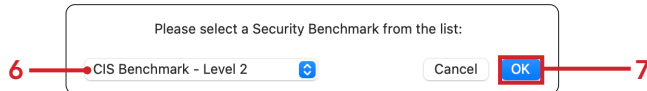
3. Select the Jamf Compliance Editor - macOS Sequoia folder located on your Desktop
4. Select the macos_security-sequoia folder
5. Click Open





6. Select CIS Benchmark - Level 2.

7. Click OK.



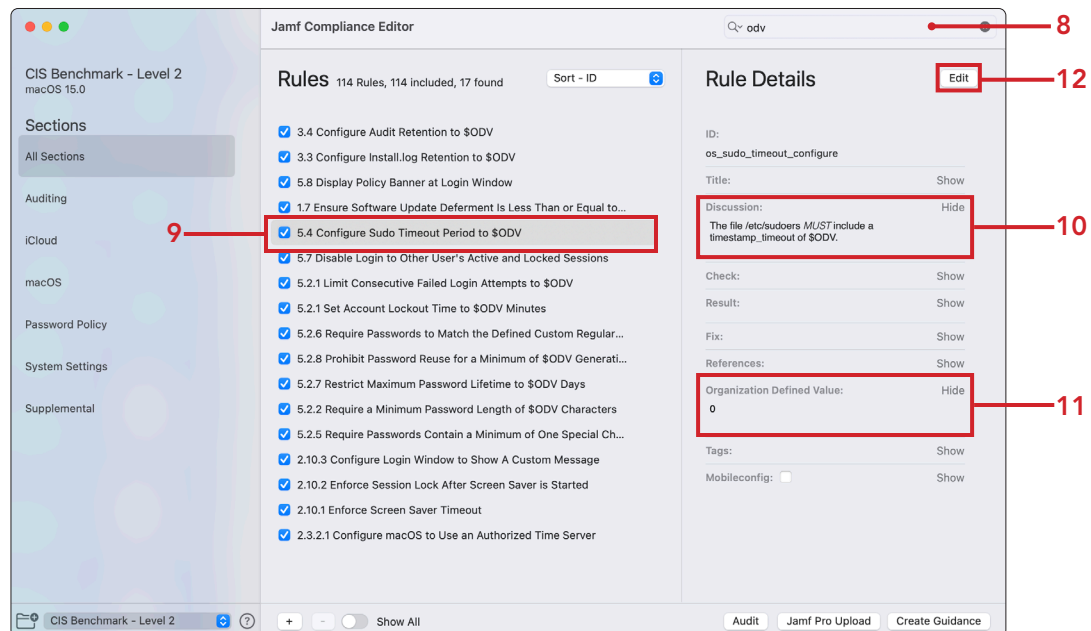
8. Enter **odv** in the search field

9. Select: 5.4 Configure Sudo Timeout Period to \$ODV

10. In the Rule Details section, Click Show next to Discussion

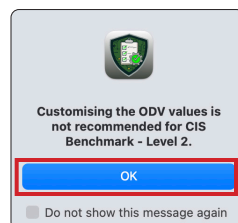
11. In the Rule Details section, Click Show next to Organization Defined Value

12. In the Rule Details section, Click Edit



13. In the Rule Details section, change Organization Defined Value from 0 to 5.

14. Click OK.





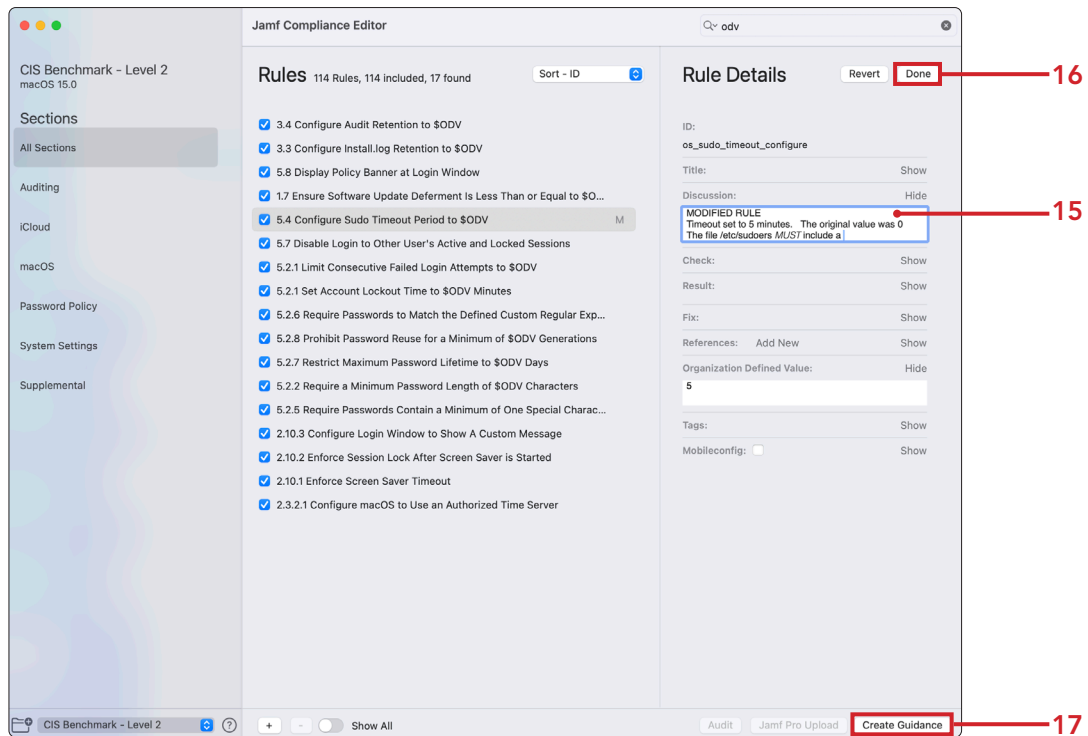
15. In the Rule Details section, Add the following to the top of the Discussion:

MODIFIED RULE

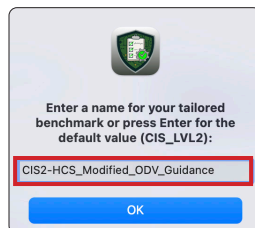
Timeout set to 5 minutes. The original value was 0

16. Click Done

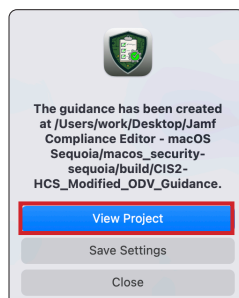
17. Click Create Guidance



18. Enter a name for the benchmark. This guide will name it: CIS2-HCS_Modified_ODV_Guidance. If you use spaces, JCE will rename it with underscores and dashes.

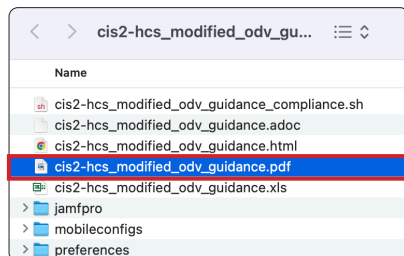


19. Click View Project.

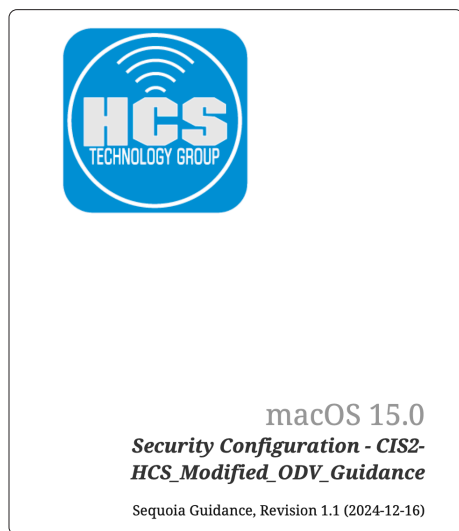




20. Open the file named cis2-hcs_modified_odv_guidance.pdf.
NOTE: Your filename will be different.

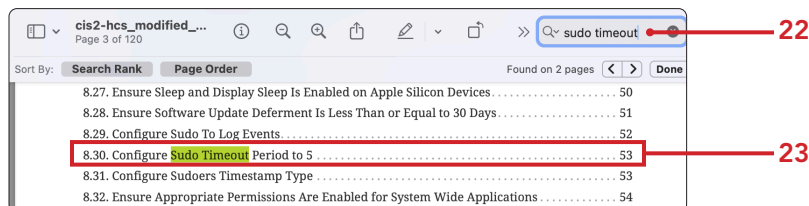


21. The report will have your organizations logo on the cover page.



22. In the search field of the pdf, enter sudo timeout.

23. Click the highlighted page.





24. The modified rule will show with the new value of 5 and the will clearly state MODIFIED RULE in the explanation.

Including the phrase MODIFIED RULE in the explanation field is highly recommended when generating your report for an auditor. This makes it easy to identify all modified rules by searching for “MODIFIED RULE” in the report which will streamline the auditor’s review process.

8.30. Configure Sudo Timeout Period to 5

MODIFIED RULE Timeout set to 5 minutes. The original value was 0 The file /etc/sudoers MUST include a timestamp_timeout of 5.

To check the state of the system, run the following command(s):

```
/usr/bin/sudo /usr/bin/sudo -V | /usr/bin/grep -c "Authentication timestamp timeout: 5.0 minutes"
```

If the result is not 1, this is a finding.

Remediation Description

Perform the following to configure the system to meet the requirements:

```
/usr/bin/find /etc/sudoers* -type f -exec sed -i '' '/timestamp_timeout/d' '{}' \;  
/bin/echo "Defaults timestamp_timeout=5" >> /etc/sudoers.d/mscp
```

ID	os_sudo_timeout_configure	
References	800-53r5	<ul style="list-style-type: none">• N/A
	CIS Benchmark	<ul style="list-style-type: none">• 5.4 (level 1)
	CIS Controls V8	<ul style="list-style-type: none">• 4.3
	CCE	<ul style="list-style-type: none">• CCE-94311-8

This completes the guide.