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Compliance made effortless: An easy approach for enhancing your Device-Security with Jamf



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Agenda

1 | An overview of types of security compliance and their importance

Types, Consequences, Benefits, Frameworks

2 | Compliance Monitoring

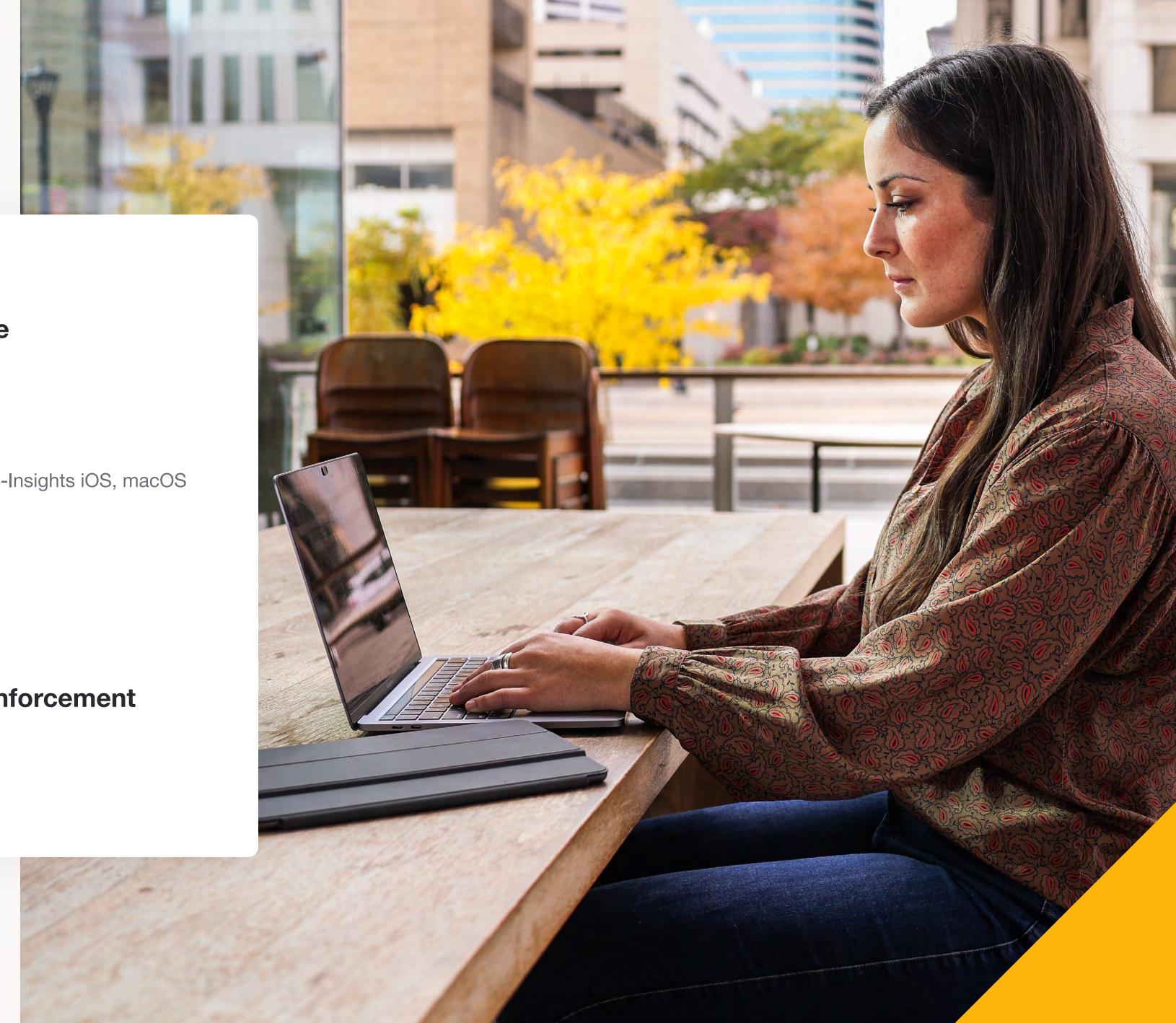
Compliance Dashboard, CVE-Monitoring, App-Insights iOS, macOS

3 | Compliance with Jamf

Compliance Editor, Jamf Pro

4 | Compliance Remediation and Enforcement

Jamf Pro, Jamf Protect



An overview of types of security compliance and their importance

Adhering to:

Laws
Industry Standards
Data and Security Requirements

Dependent on industry Device and data Requirements as a legal entity

Impact on the organization Workforce and customers

Types of Compliance



Legal Regulations



Industry Standards



Security Compliance



Company Rules and Responsibilities

Consequences of non-compliance



Data breaches and leakage



Monetary loss (fines, settlements)



Loss of customers, accounts or job

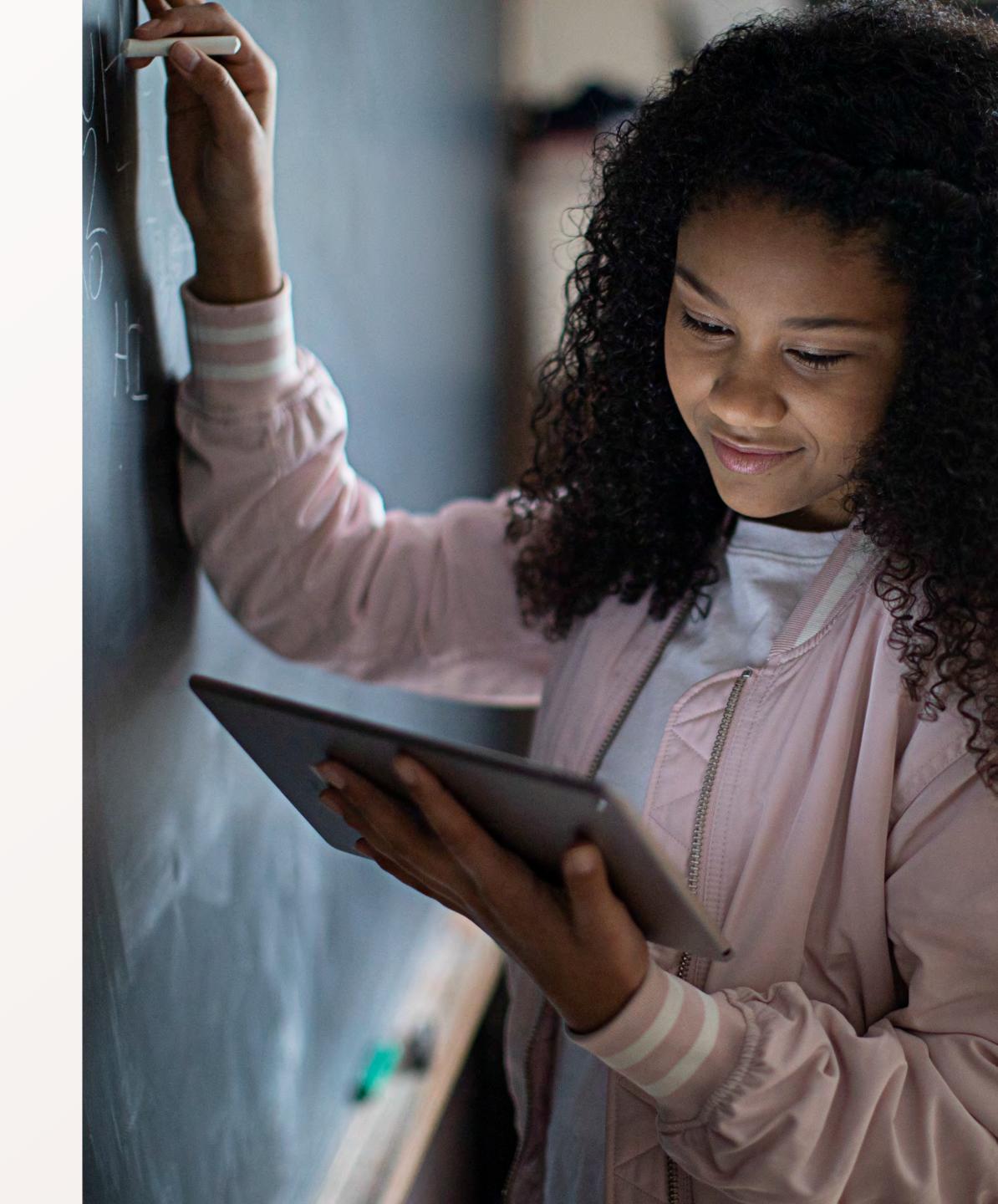


Loss of reputation

Benefits of Compliance

Besides the monetary fines and sanctions, following security compliance in an organization brings several benefits such as;

- Protecting your company's reputation
- Mitigating security risks
- Enhancing customer confidence
- Improving operational efficiency
- Staying ahead of the competition



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Compliance Frameworks













Baselines and Benchmarks

A "security baseline" is a set of controls that an organisation wants to configure on their devices.

Once these are in place, they must continually check that the controls remain in place and that the devices are compliant.

This compliance assessment system is the "benchmark".



Why implement Baselines and Benchmarks?

Some government agencies require all computers that interact with their systems and data to be subject to a specific benchmark with few allowances for exceptions. Many regulated industries will also be required to implement a security benchmark.

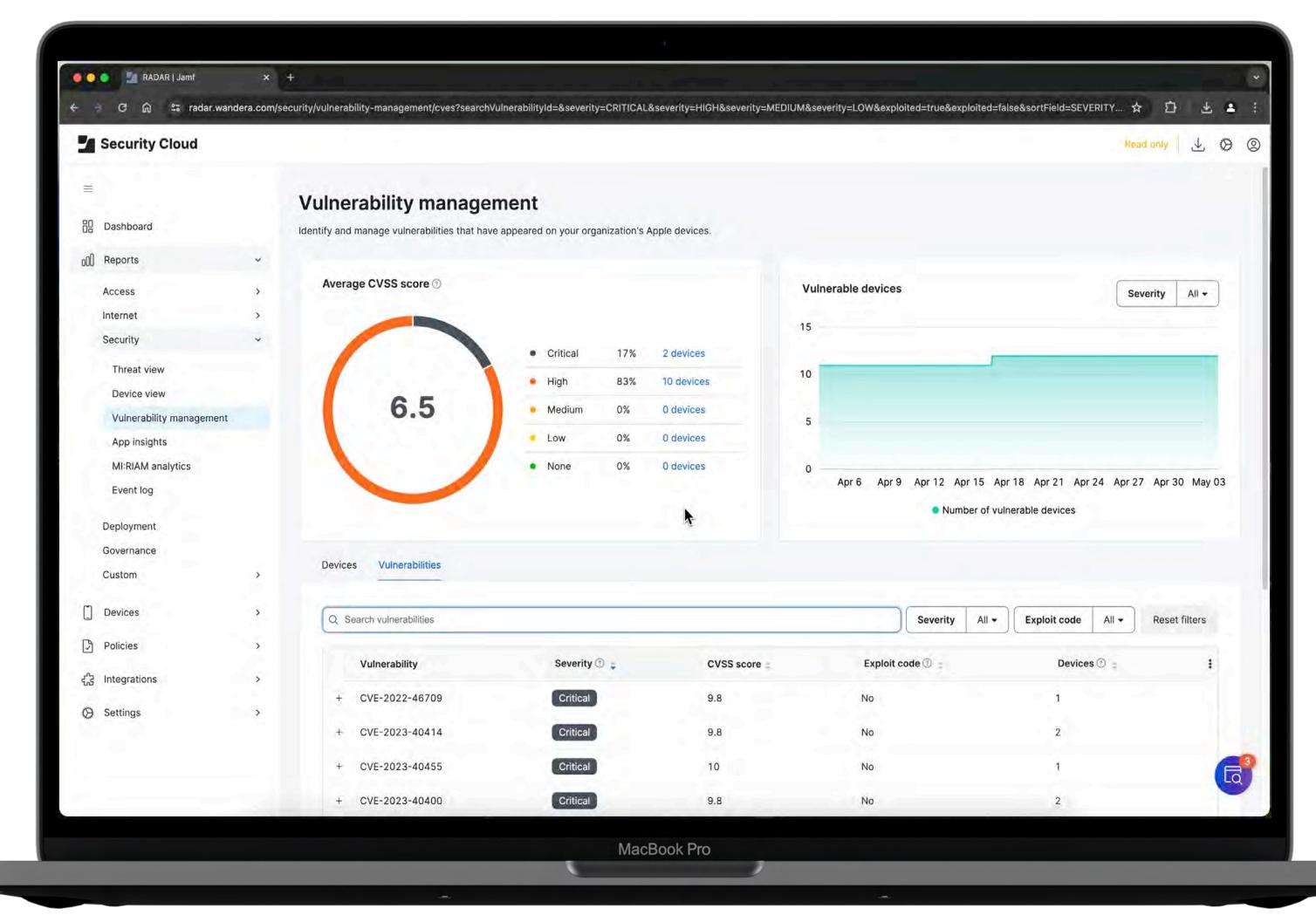
- IT and Information Security departments need to collaborate
- Balance between information security and user productivity
- Different devices with different risk categories

Compliance and Vulnerability Monitoring with Jamf Protect

Vulnerability Management

In Jamf Protect

- Detailed reporting of Apple devices with known vulnerabilities
- Built-in CVE reporting for OS and apps
- Automatic risk elevation, devices running risky OS will have elevated risk status
- Users can be notified of update vulnerable systems

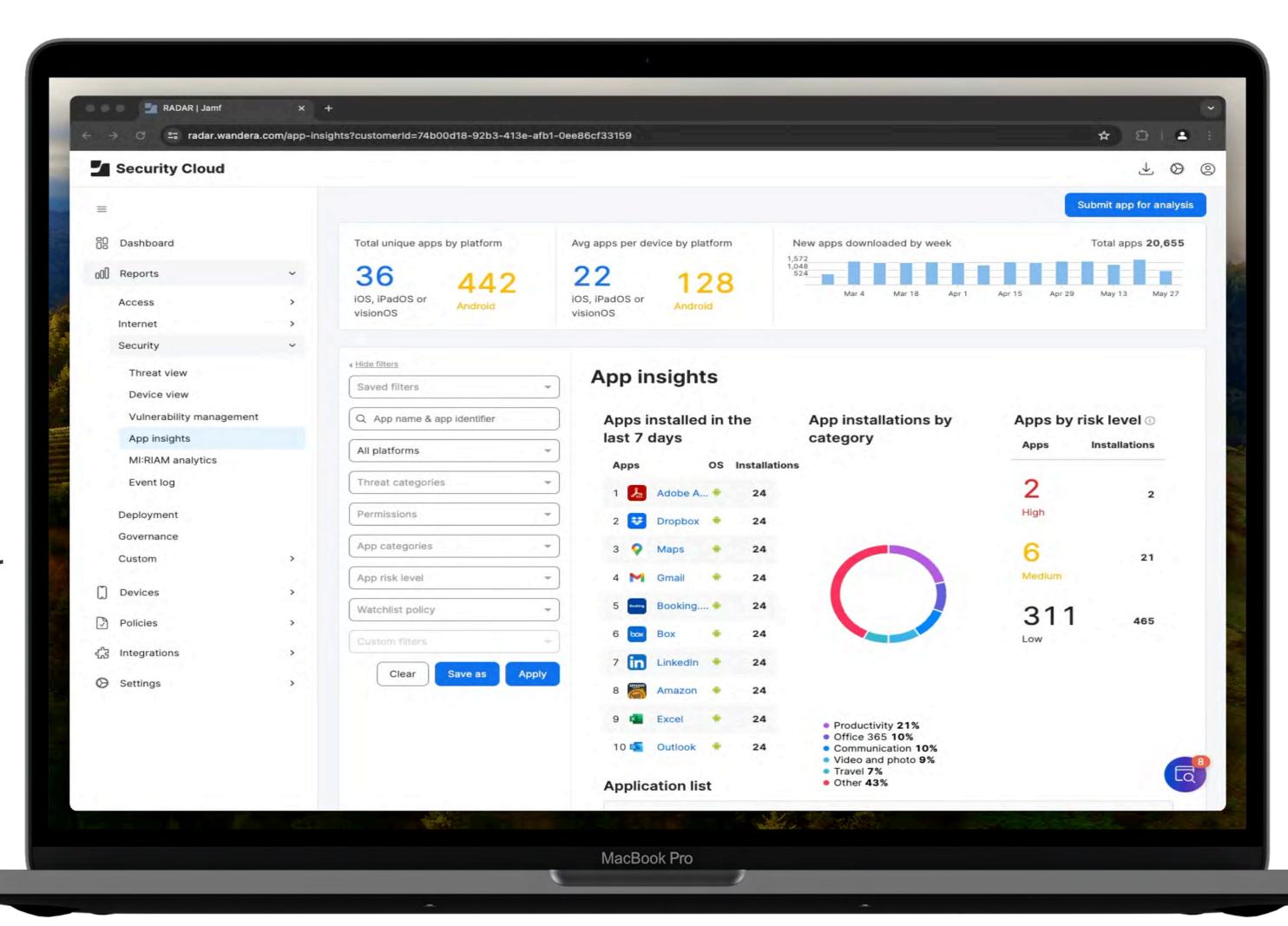


App Insights In Jamf Protect

• Returns information on the apps installed on your devices, including their versions, permissions, and the level of risk they may pose.

Identify:

- How many users are using an outdated or risky version of an app
- Which apps are leaking data or have been side-loaded



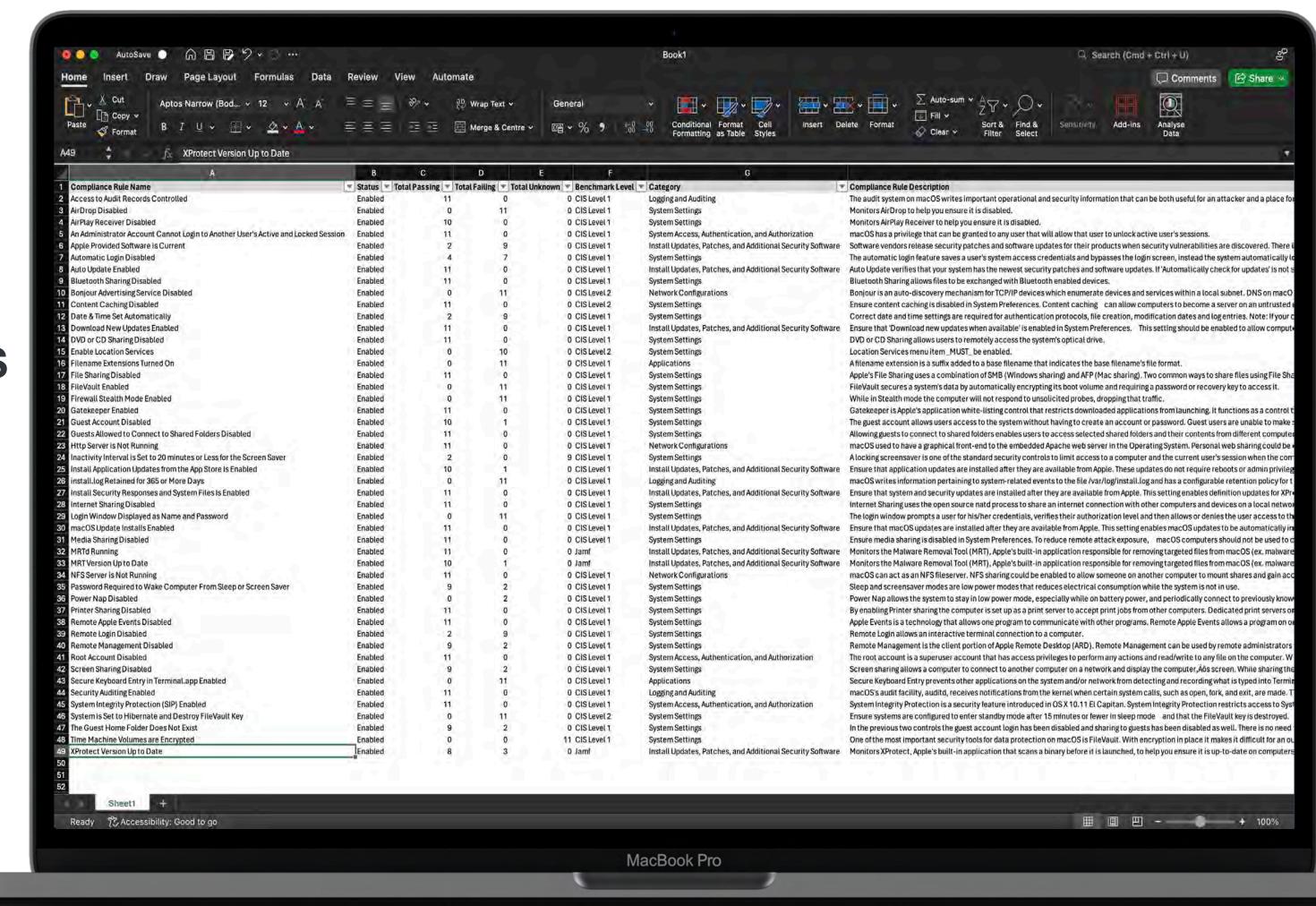
Compliance Baseline In Jamf Protect

- New dashboard with widgets for better visibility
- Compliance baseline rules built on the CIS
 benchmark for macOS Sonoma
- More visibility for administrators to ensure their Mac computers stay compliant
- The perfect tool to monitor Jamf
 Compliance Editor's effectiveness



Compliance Baseline In Jamf Protect

- New dashboard with widgets for better visibility
- Compliance baseline rules built on the CIS
 benchmark for macOS Sonoma
- More visibility for administrators to ensure their Mac computers stay compliant
- Easily generate Reporting



Compliance with Jamf

- 1.Go to CIS website
- 2.Go to Solutions > Benchmarks
- 3.Fill in a form
- 4.Get an email





- 5.Access the benchmarks webpage
- 6.Find the benchmark you want.
- 7.Download the PDF
- 8.Read the PDF



- 9.Create all the scripts/configuration profiles needed
- 10.Upload them to Jamf Pro
- 11.Deploy to devices
- 12.Test them.

Center for Internet Security

CIS Apple macOS 14.0 Sonoma

v1.0.0 - 10-16-2023

2.2.1 Ensure Firewall Is Enabled (Automated)

Profile Applicability:

Level 1

Description:

A firewall is a piece of software that blocks unwanted incoming connections to a system. Apple has posted general documentation about the application firewall:

Rationale:

A firewall minimizes the threat of unauthorized users gaining access to your system while connected to a network or the Internet.

Impact:

The firewall may block legitimate traffic. Applications that are unsigned will require special handling.



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Audit:

Graphical Method:

Perform the following steps to ensure the firewall is enabled:

- 1. Open System Settings
- 2. Select Network
- 3. Verify that the Firewall is Active

or

- 1. Open System Settings
- 2. Select Privacy & Security
- 3. Select Profiles
- 4. Verify that an installed profile has Firewall set to Enabled

Terminal Method:

Run the following command to verify that the firewall is enabled:

```
$ /usr/bin/sudo /usr/bin/osascript -l JavaScript << EOS
function run() {
    app = Application.currentApplication()
    app.includeStandardAdditions = true;
 let pref1 = app.doShellScript('/usr/bin/defaults read
/Library/Preferences/com.apple.alf globalstate')
 let pref2 =
ObjC.unwrap($.NSUserDefaults.alloc.initWithSuiteName('com.apple.security.fire
wall')\
  .objectForKey('EnableFirewall'))
   if ( ( ( pref1 == 1 ) || ( pref1 == 2 ) || ( pref2 == "true" ) ) &&
(pref1 != 0 ) ) {
    return("true")
  } else {
    return("false")
EOS
true
```





Remediation:

Graphical Method:

Perform the following steps to turn the firewall on:

- 1. Open System Settings
- 2. Select Network
- 3. Select Firewall
- 4. Set Firewall to enabled

Terminal Method:

Run the following command to enable the firewall:

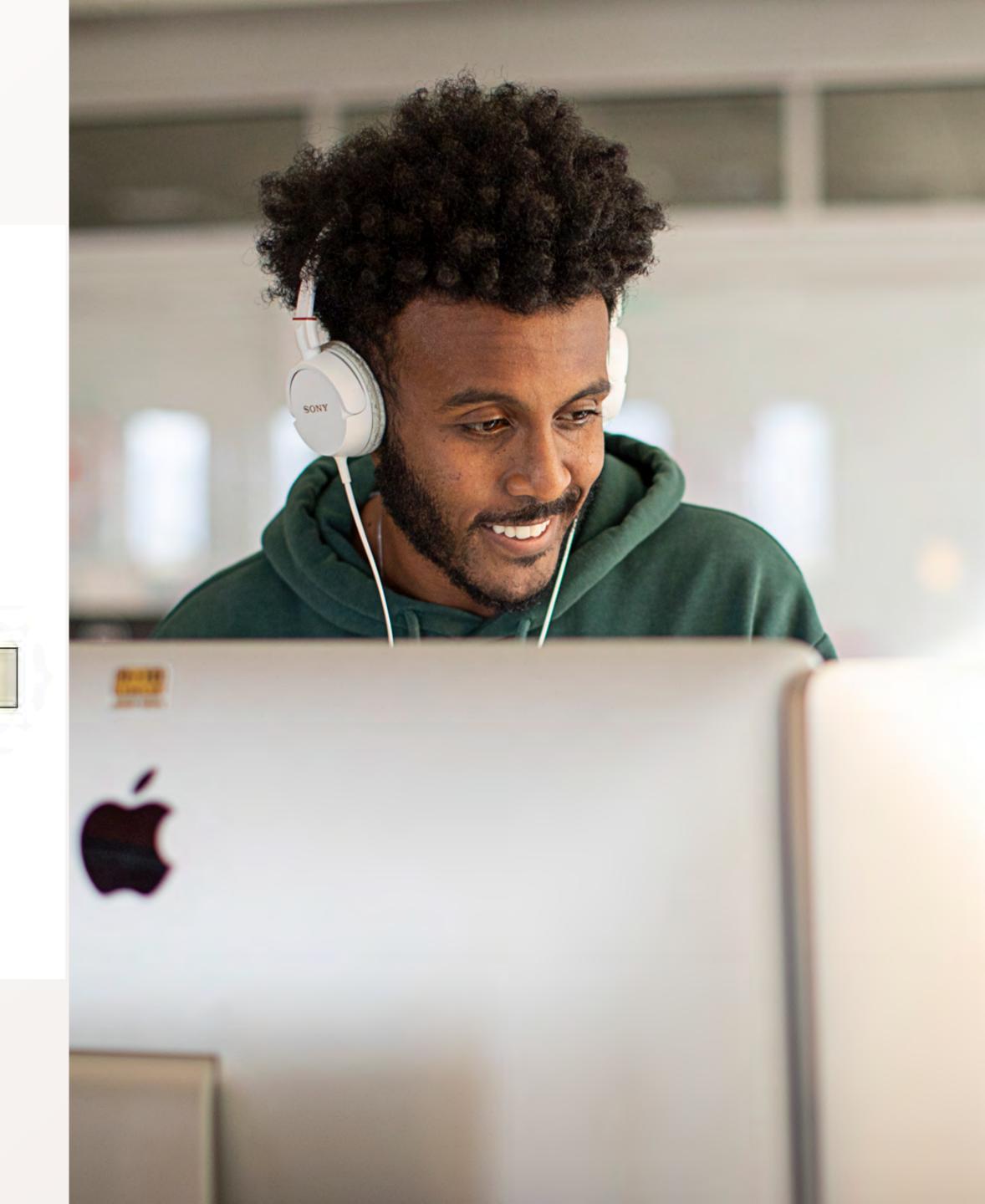
\$ /usr/bin/sudo /usr/bin/defaults write /Library/Preferences/com.apple.alf
globalstate -int <value>

For the <value>, use either 1, specific services, or 2, essential services only.

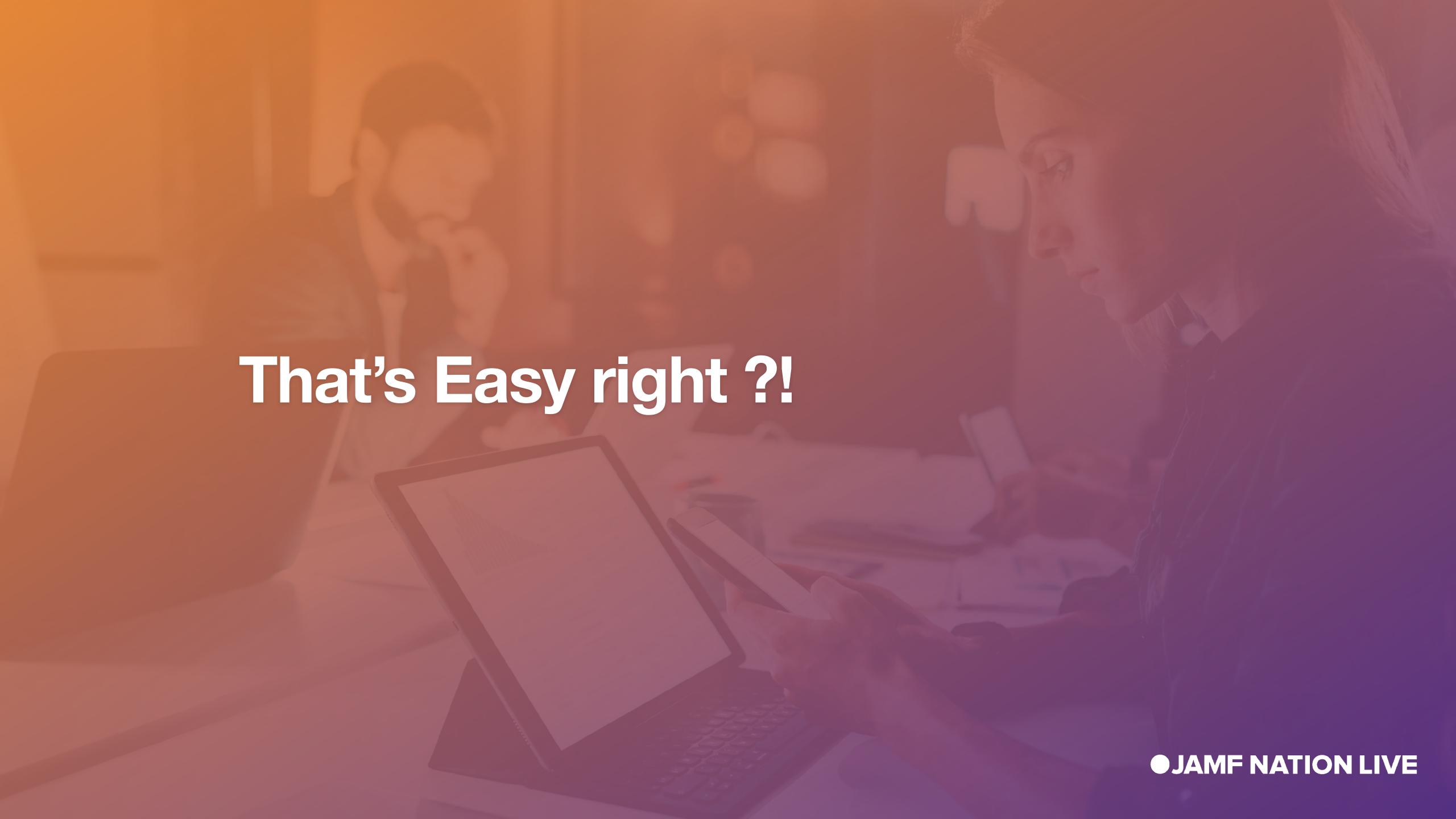
Profile Method:

Create or edit a configuration profile with the following information:

- 1. The PayloadType string is com.apple.security.firewall
- 2. The key to include is EnableFirewall
- 3. The key must be set to <true/>



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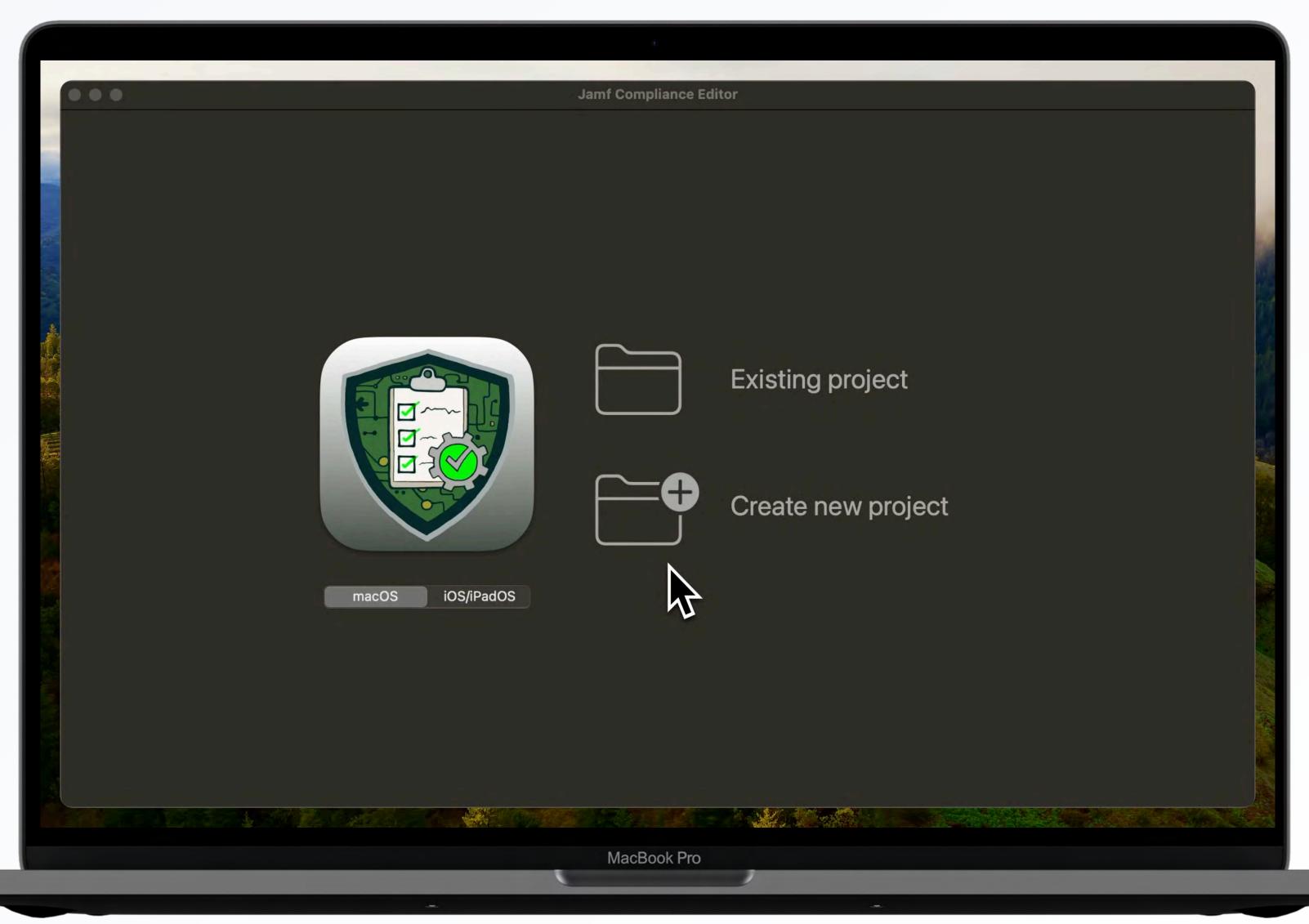


Jamf Compliance Editor

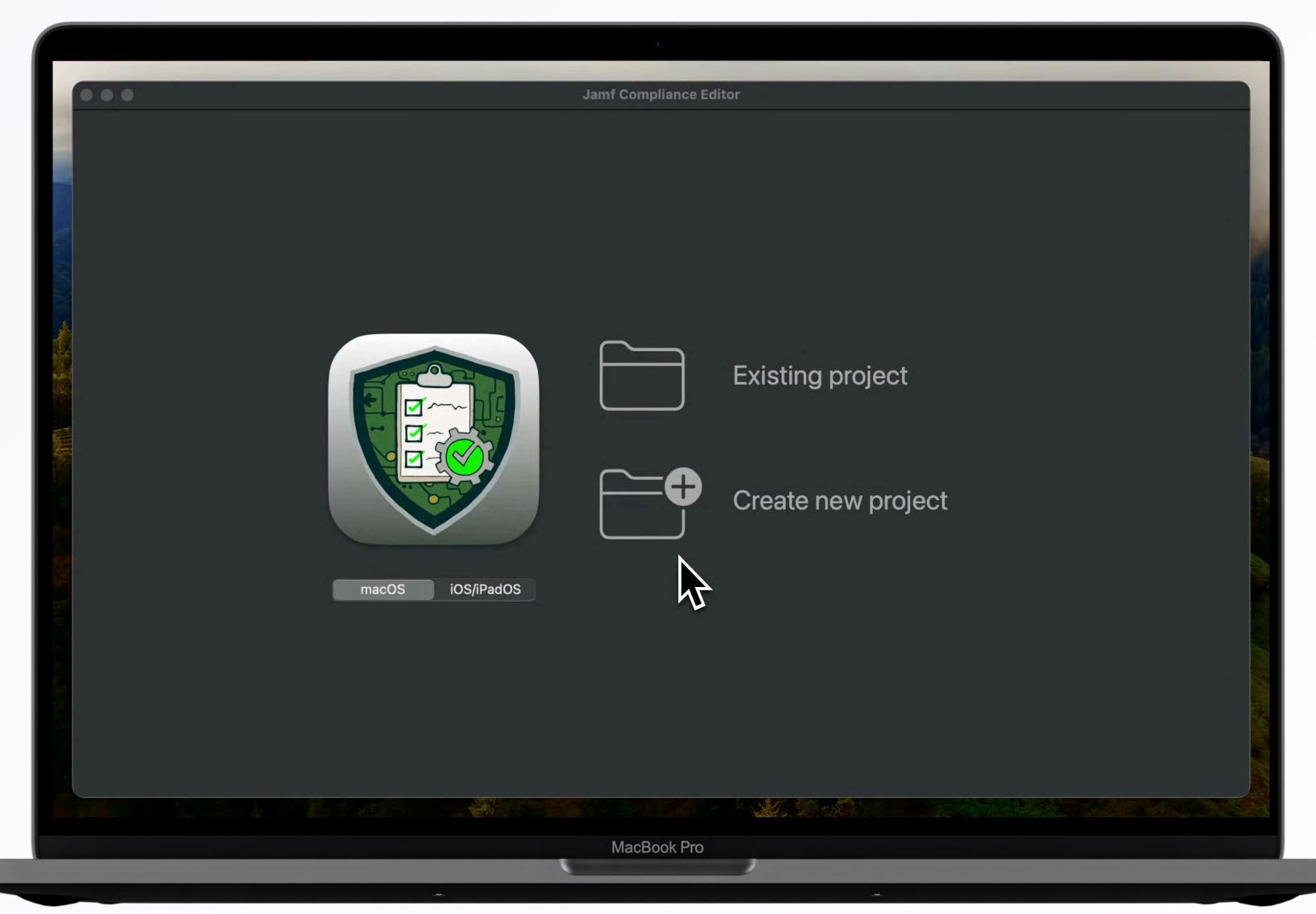
- Automatically generate compliance
 baselines for common compliance
 benchmarks
- One-click guidance creation
- Easy to customize guidance for any organization's specific needs
- Integrate with Jamf Pro for quick deployments
- Generate detailed reporting



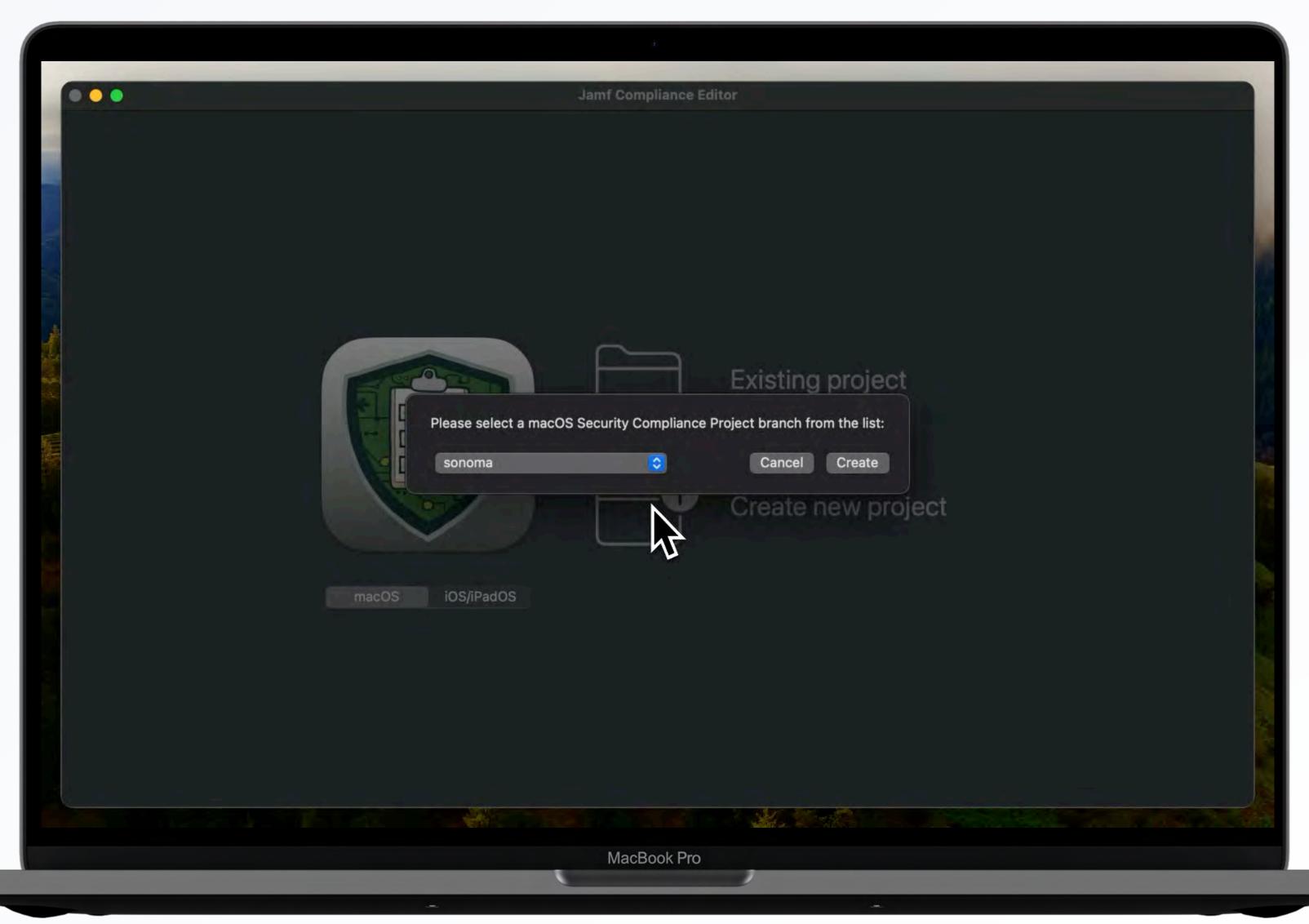
Select your Platform



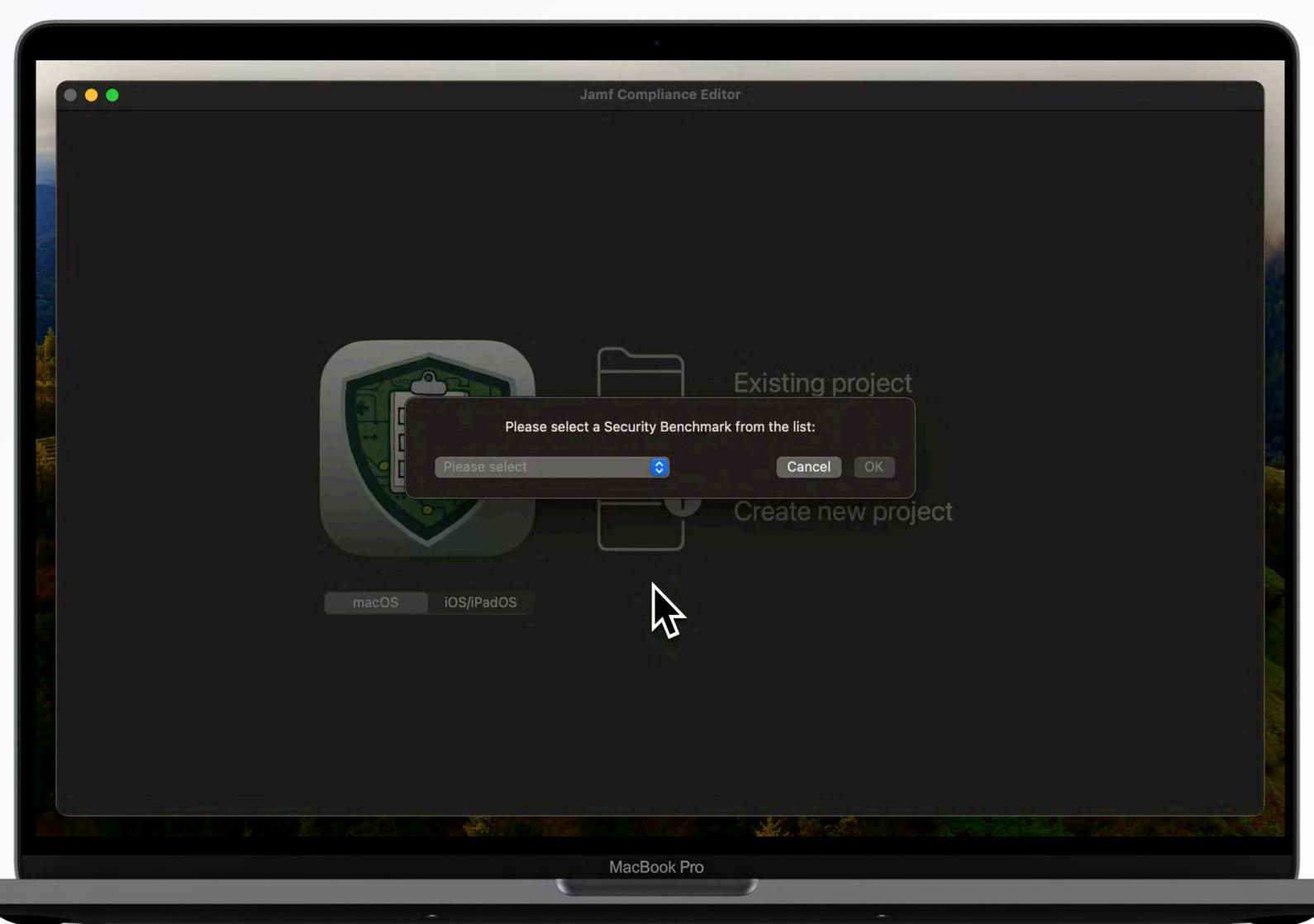
Create a new Project Select your OS



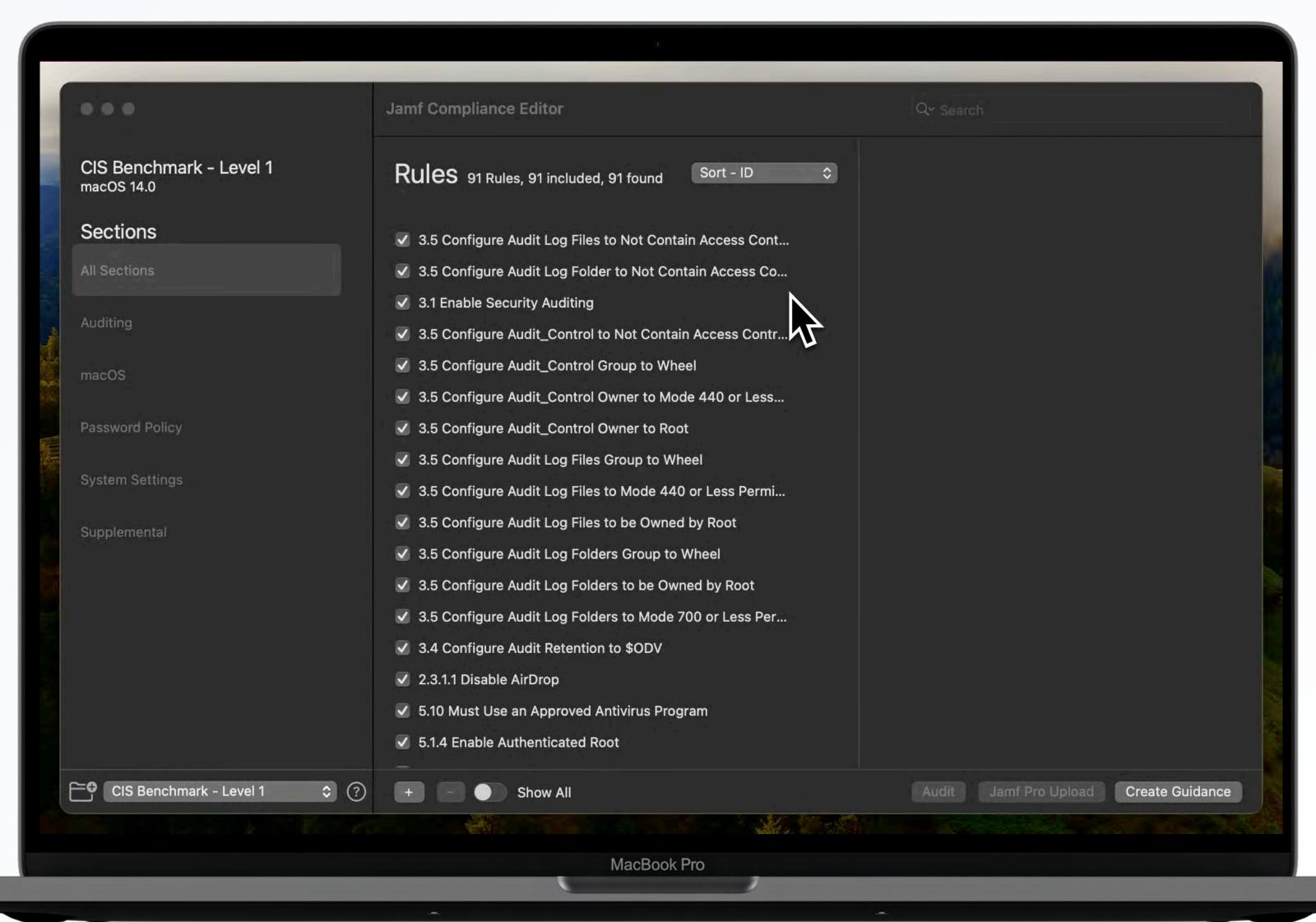
Save your Project



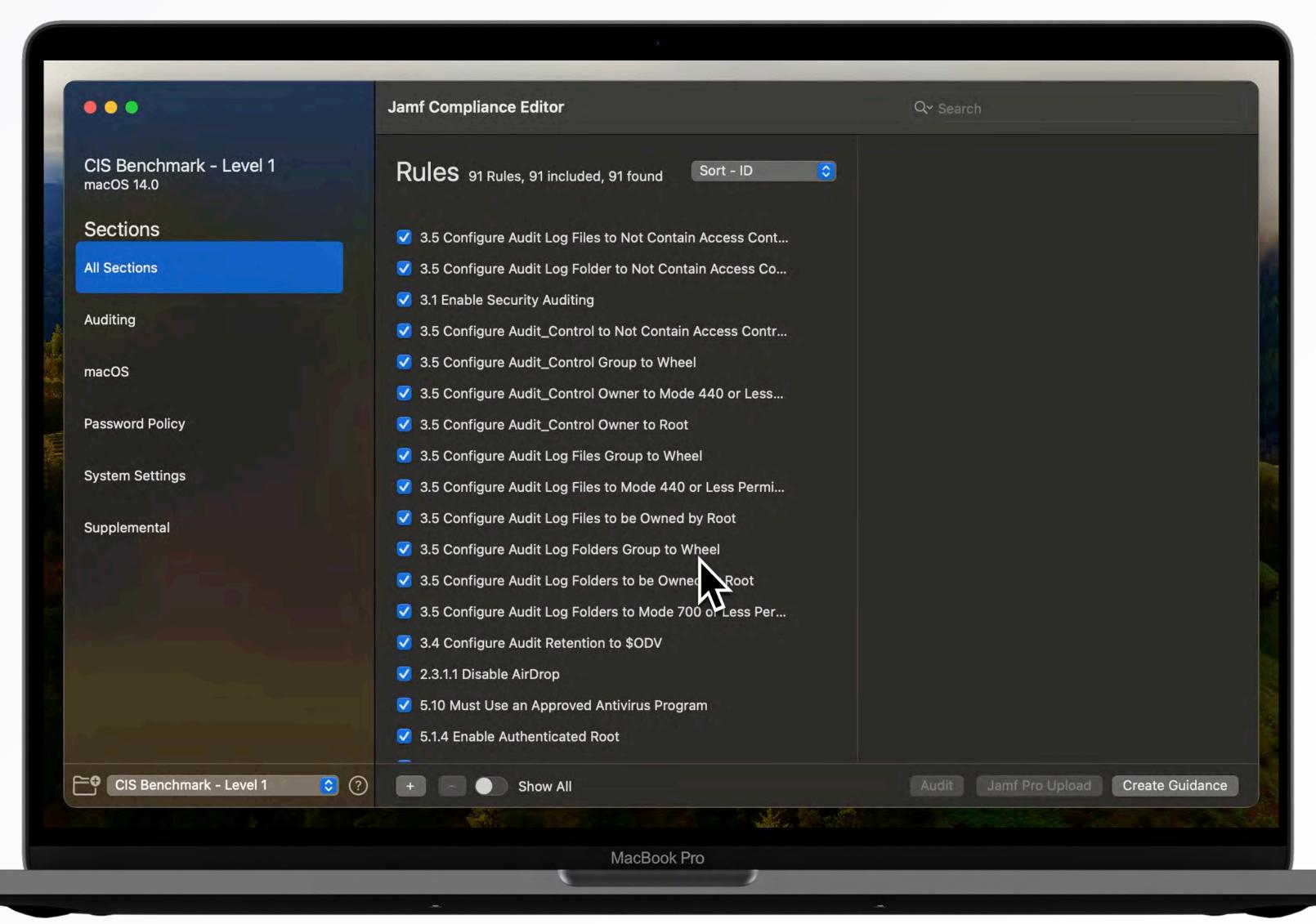
Select your Benchmark



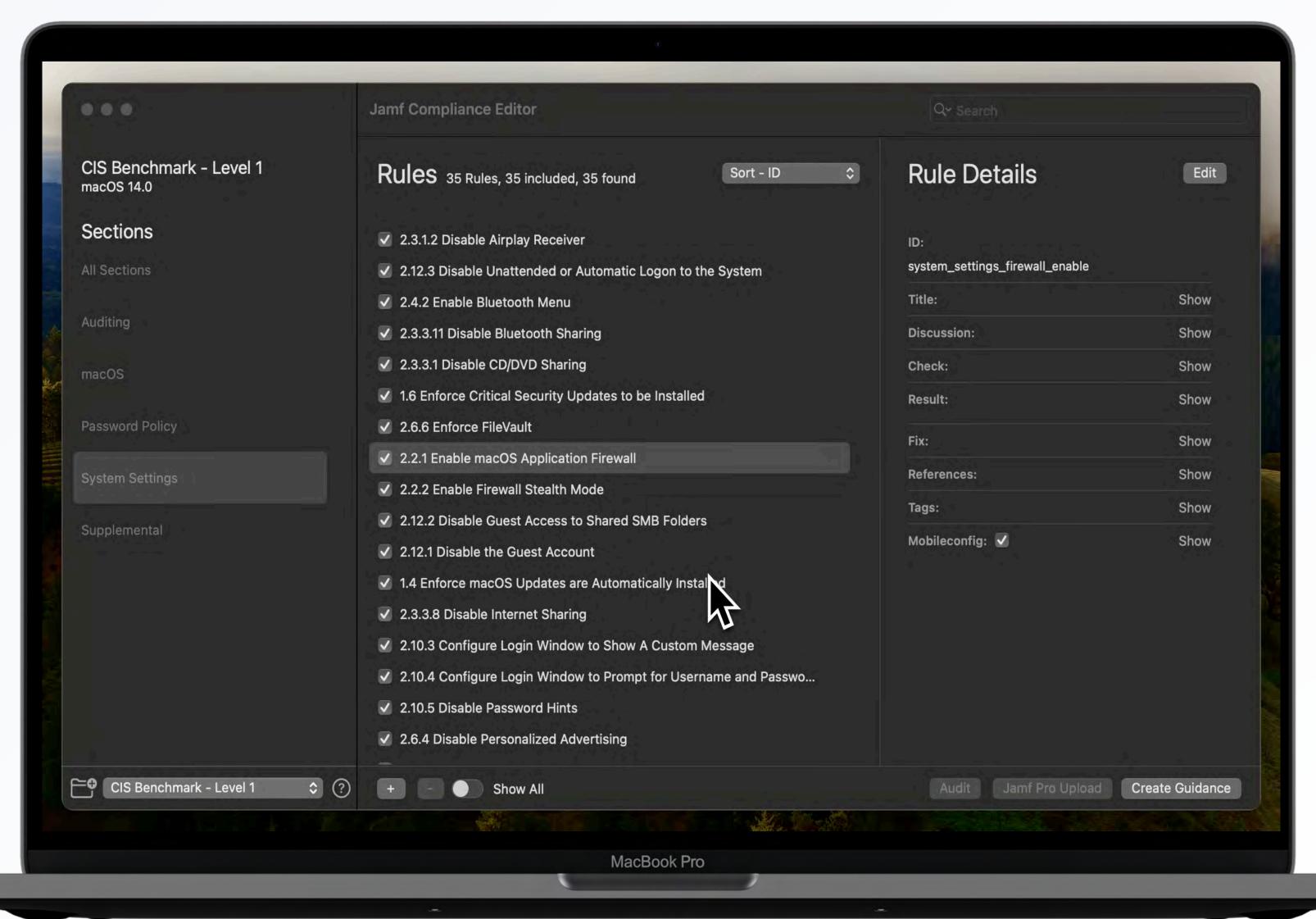
Overview of all Rules



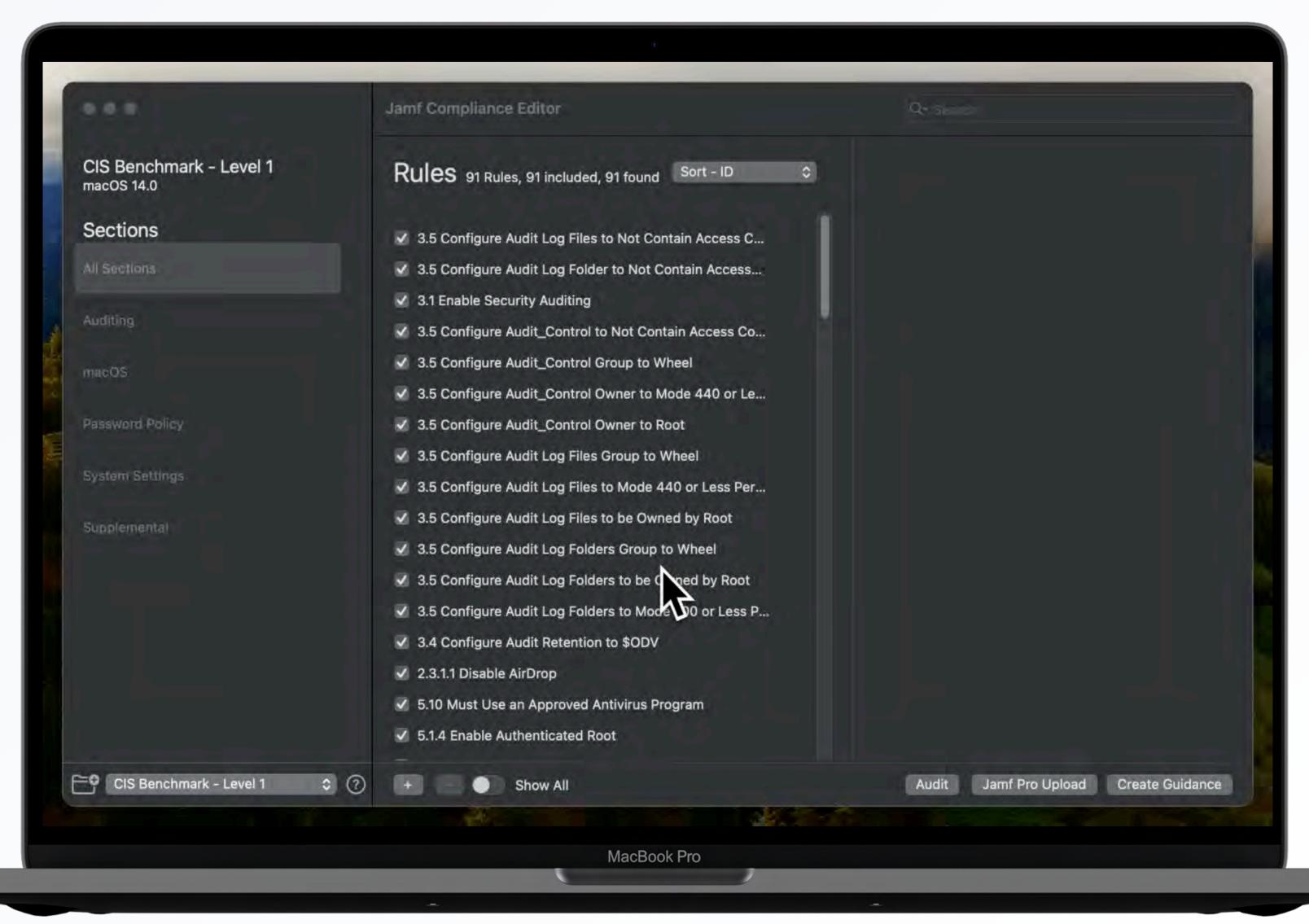
Check specific Rules e.g. (AirDrop or Firewall)



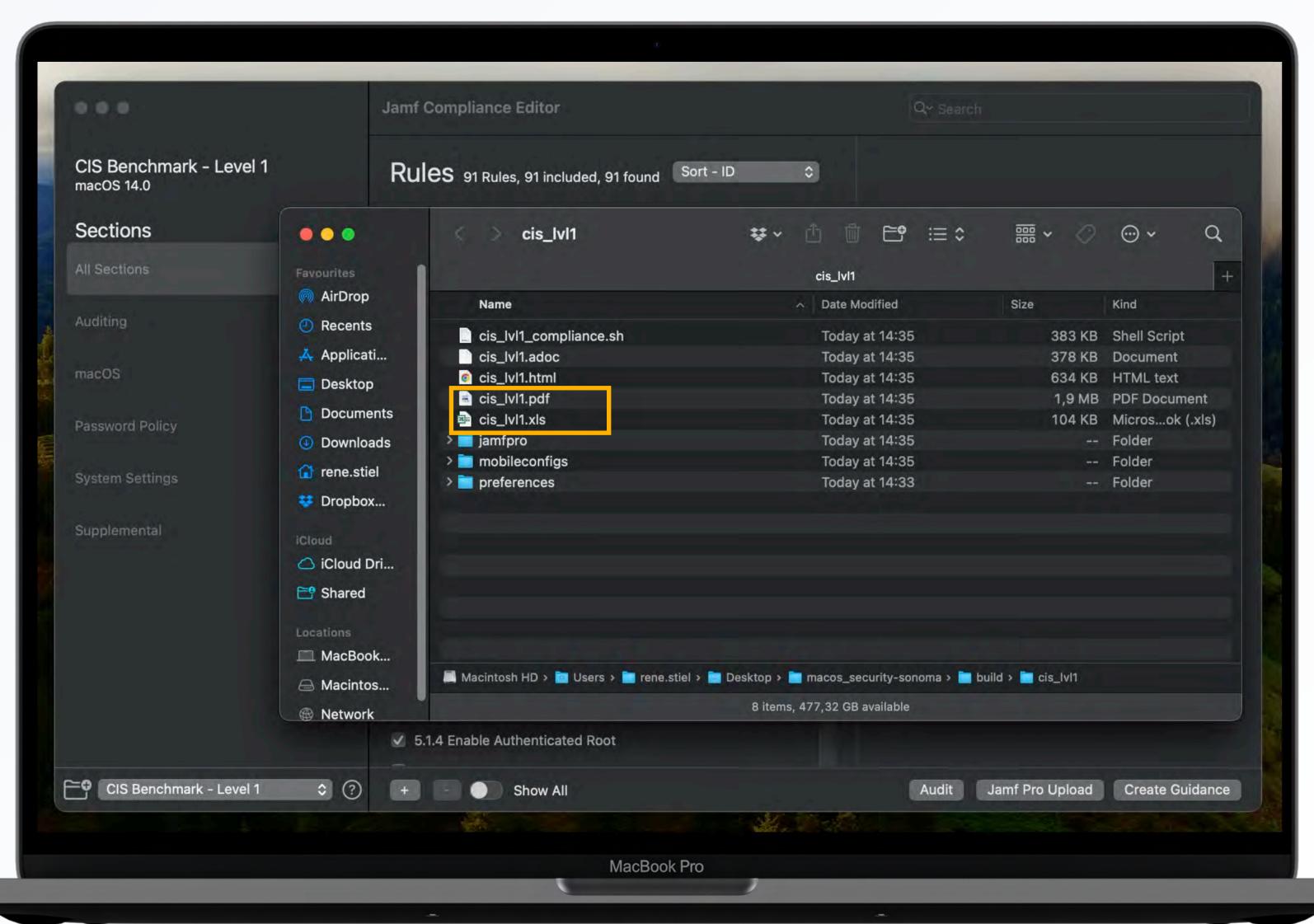
Optional: Edit Rules e.g. (Screen Saver)



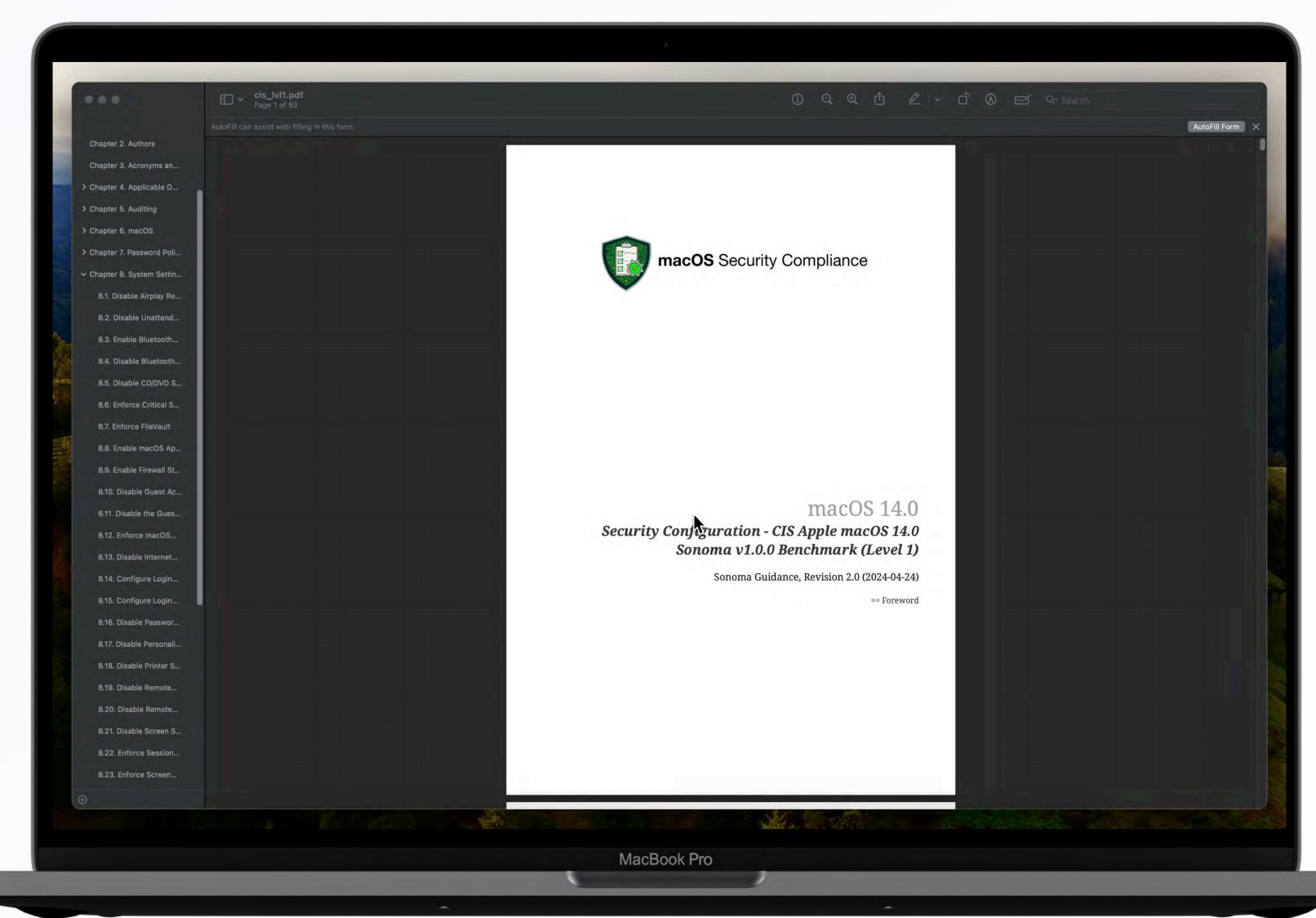
Create your Guidance



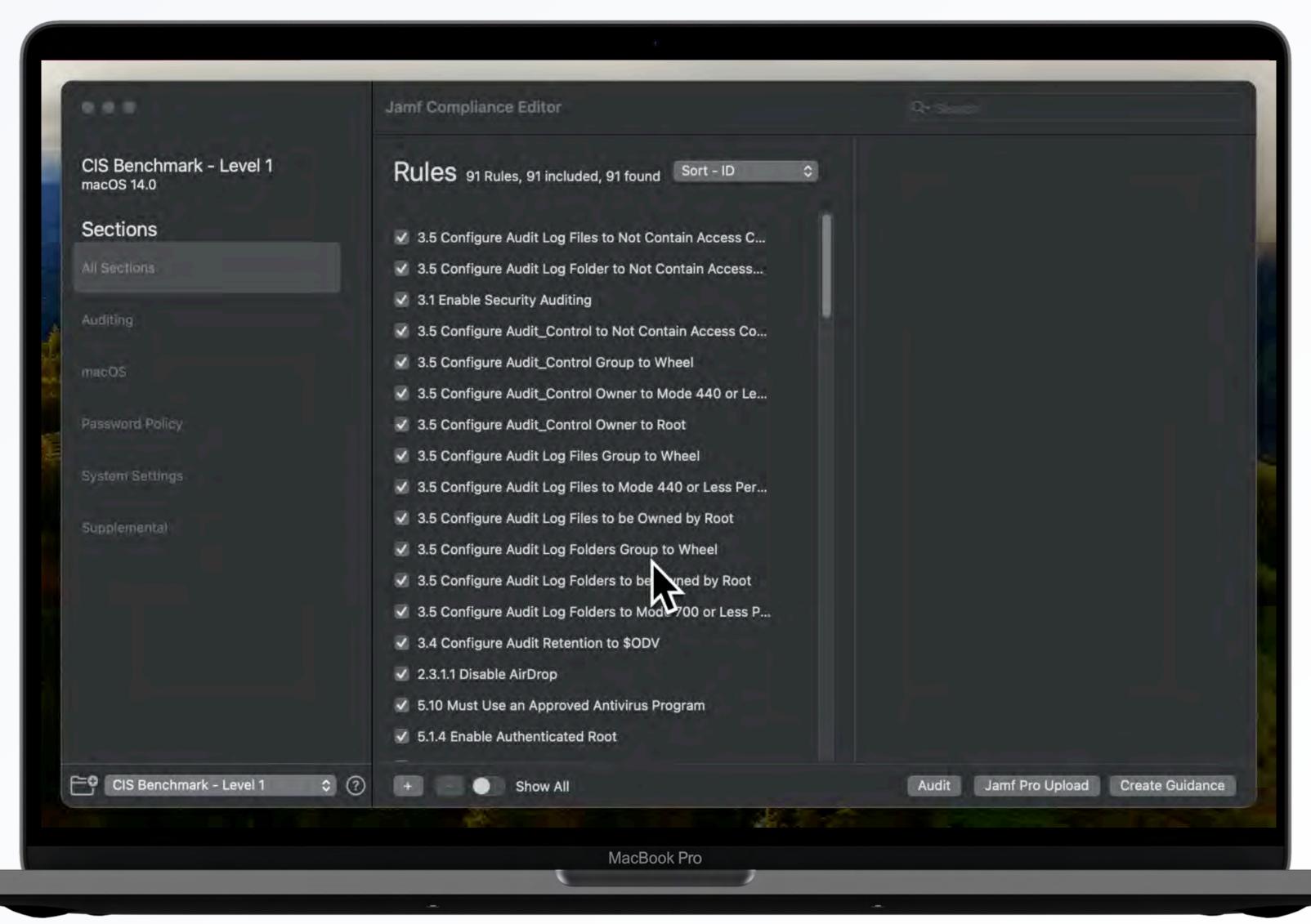
Create your Guidance



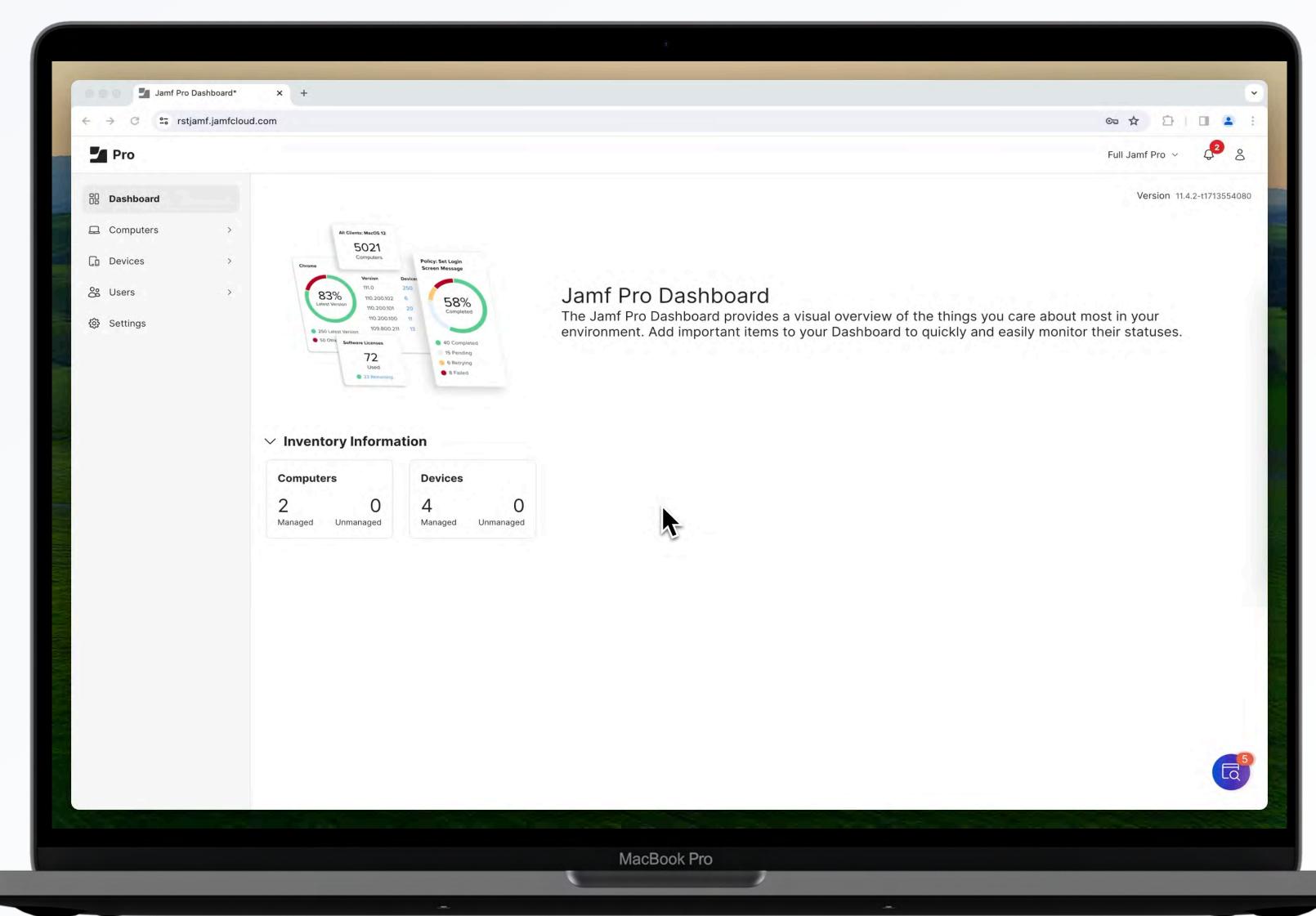
Create your Guidance



Upload to Jamf Pro



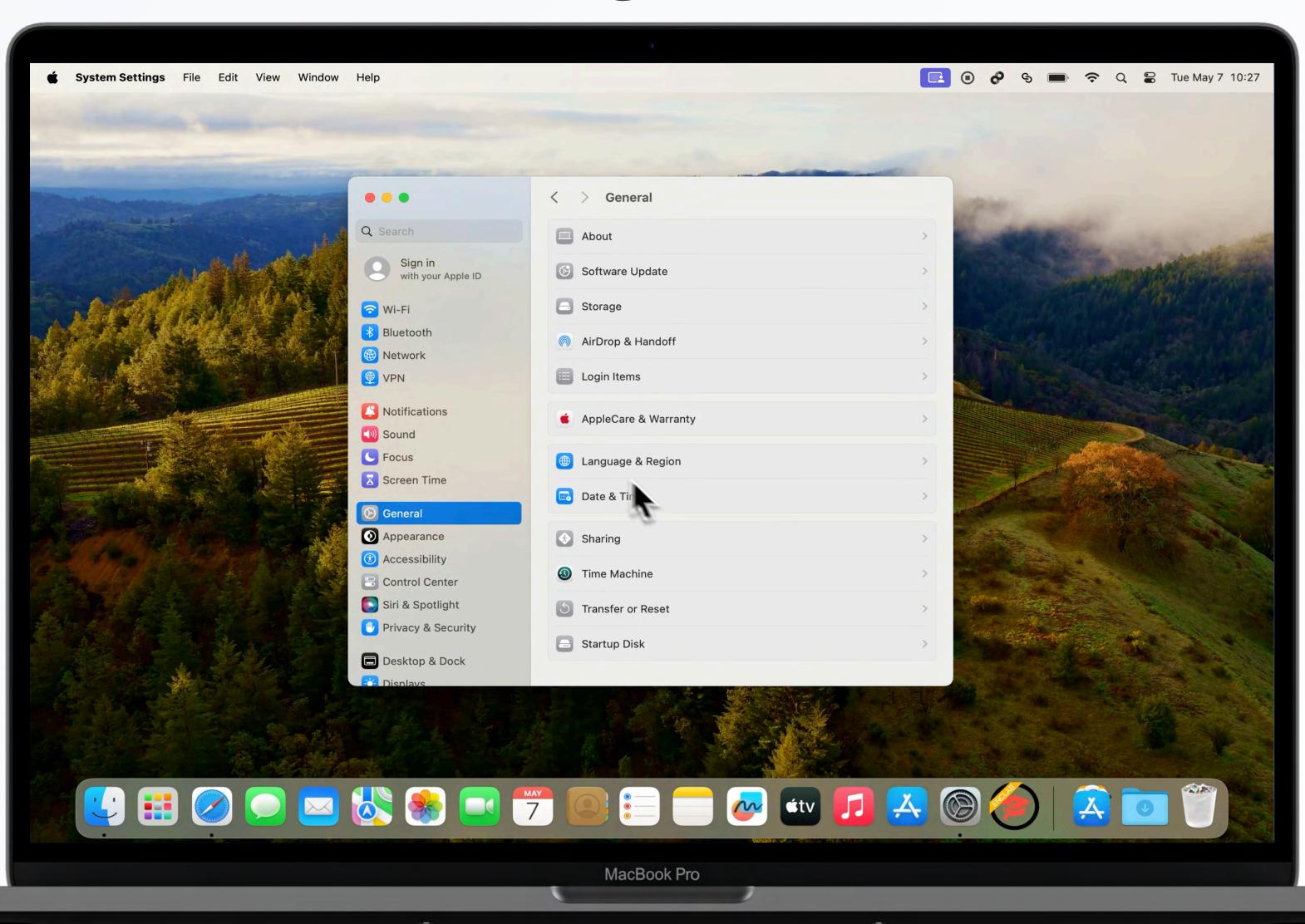
All Profiles and Scripts needed are available in Jamf Pro



Compliance - Remediation and Enforcement

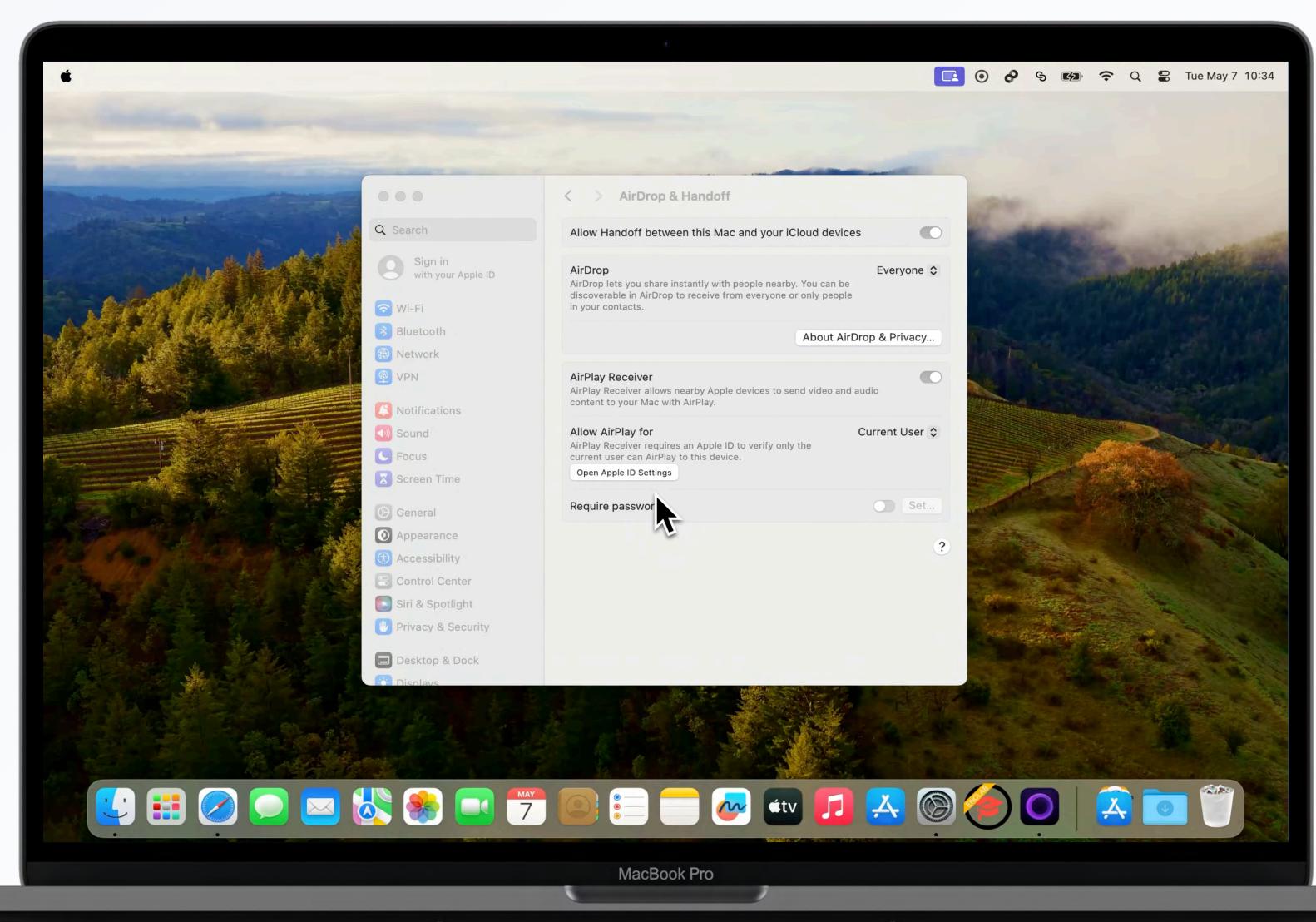
Non-Compliant Device: Firewall-setting - not enforced

"Standard" User!

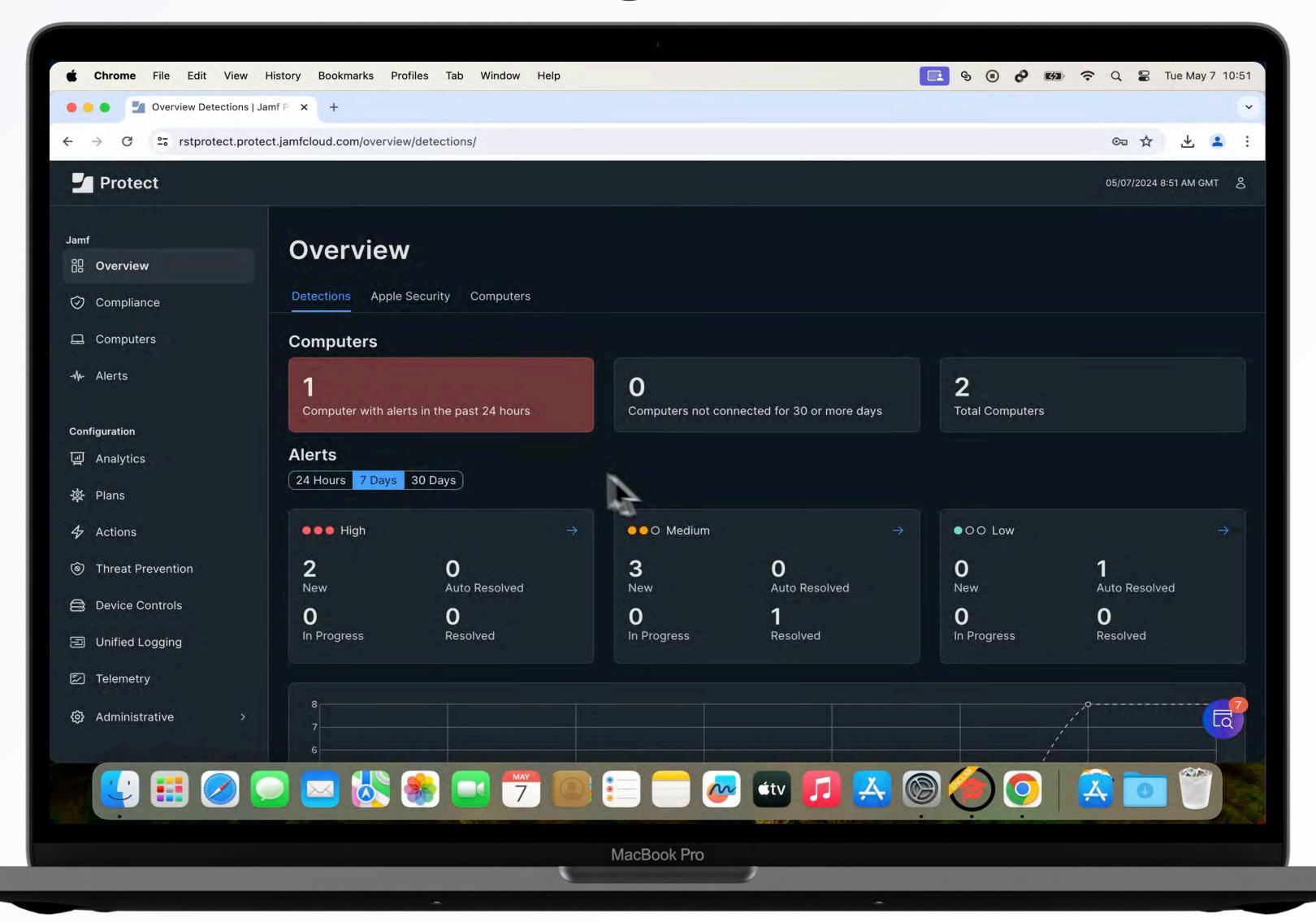


Non-Compliant Device: Firewall-setting - not enforced

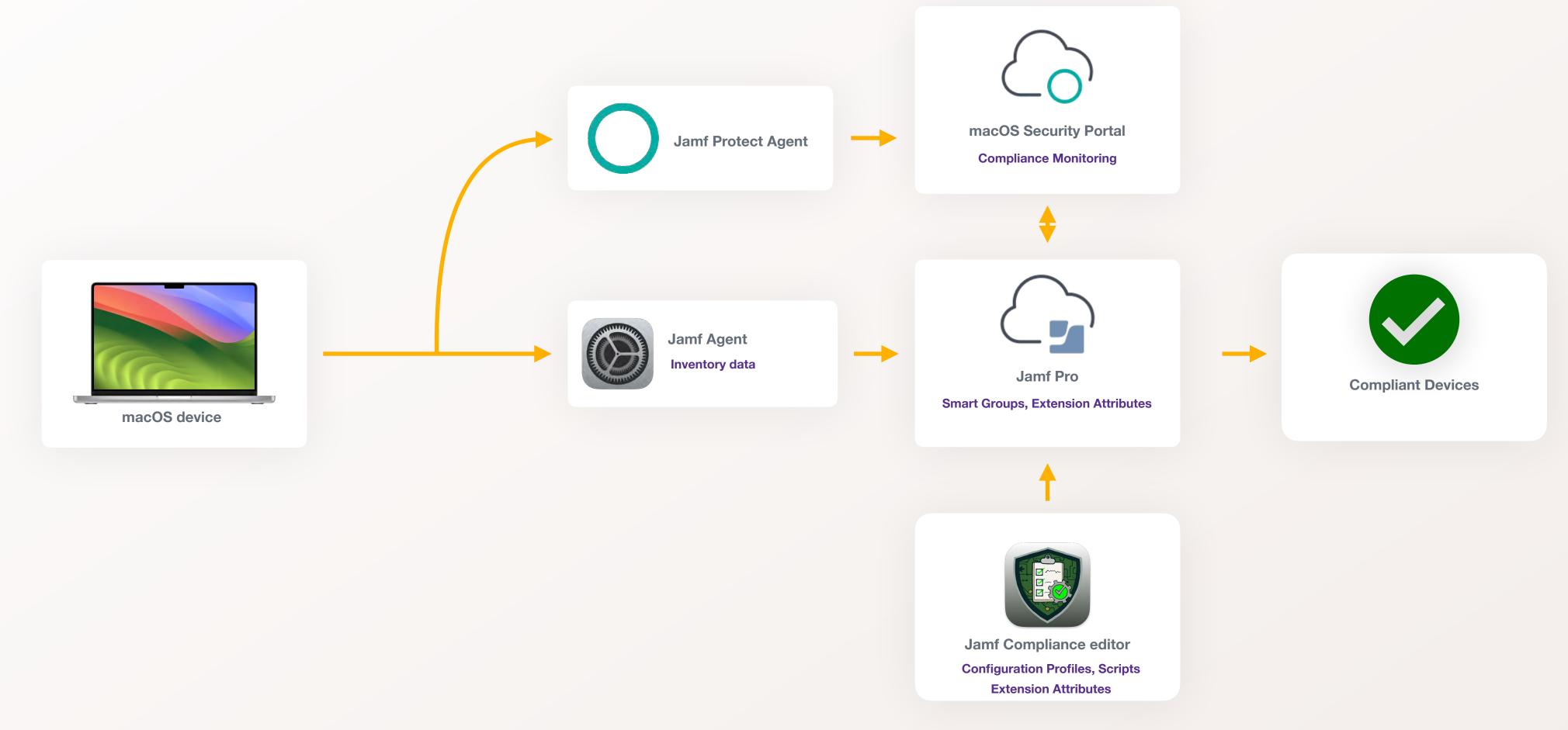
Do the "Admin" thing!



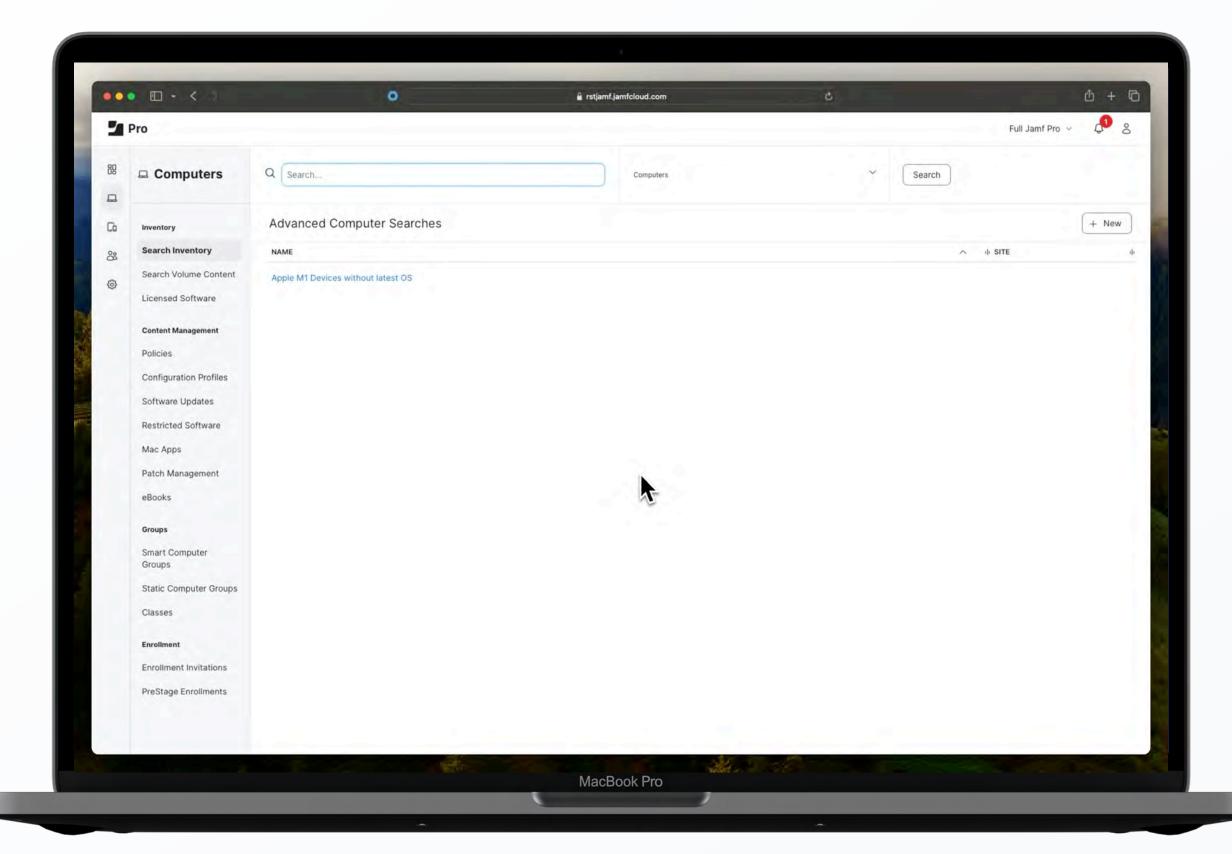
Compliance Monitoring: Show Non-Compliant devices



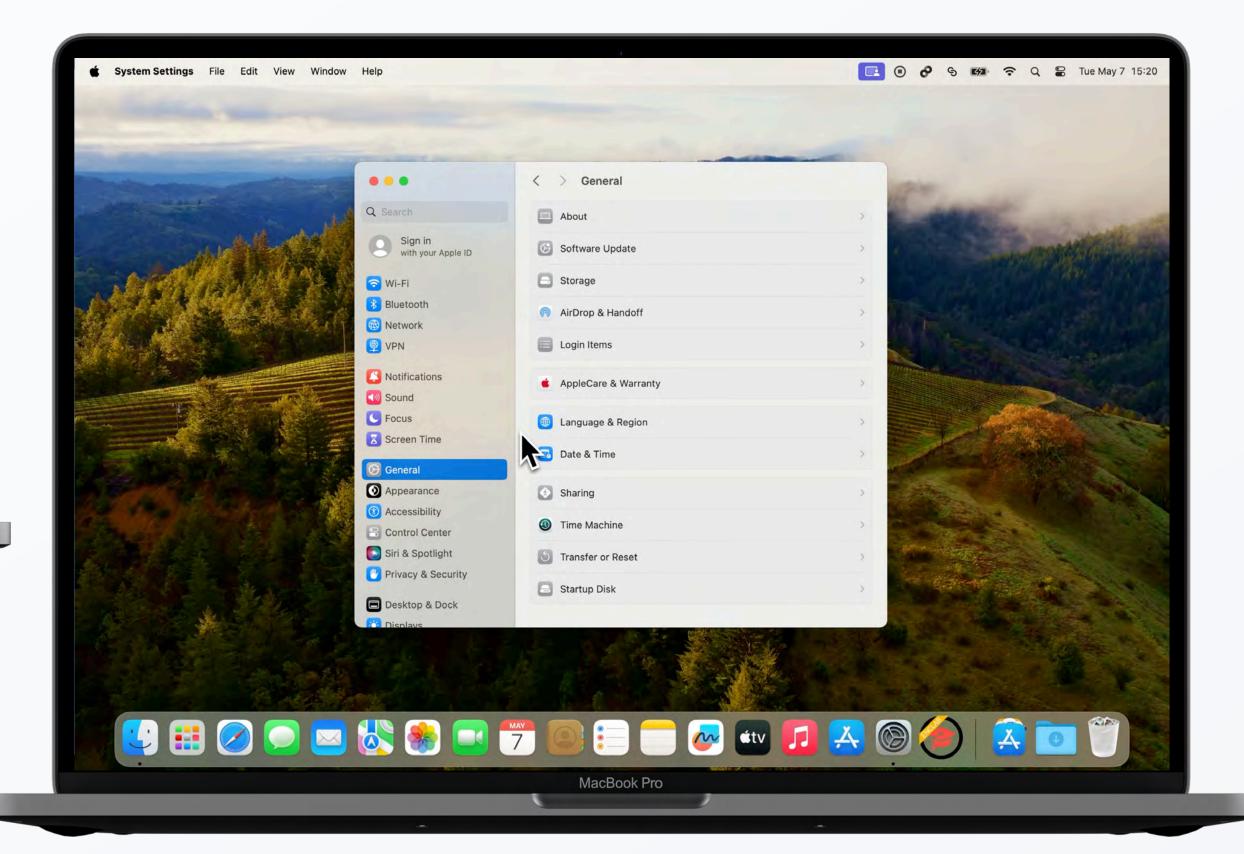
Behind the scenes



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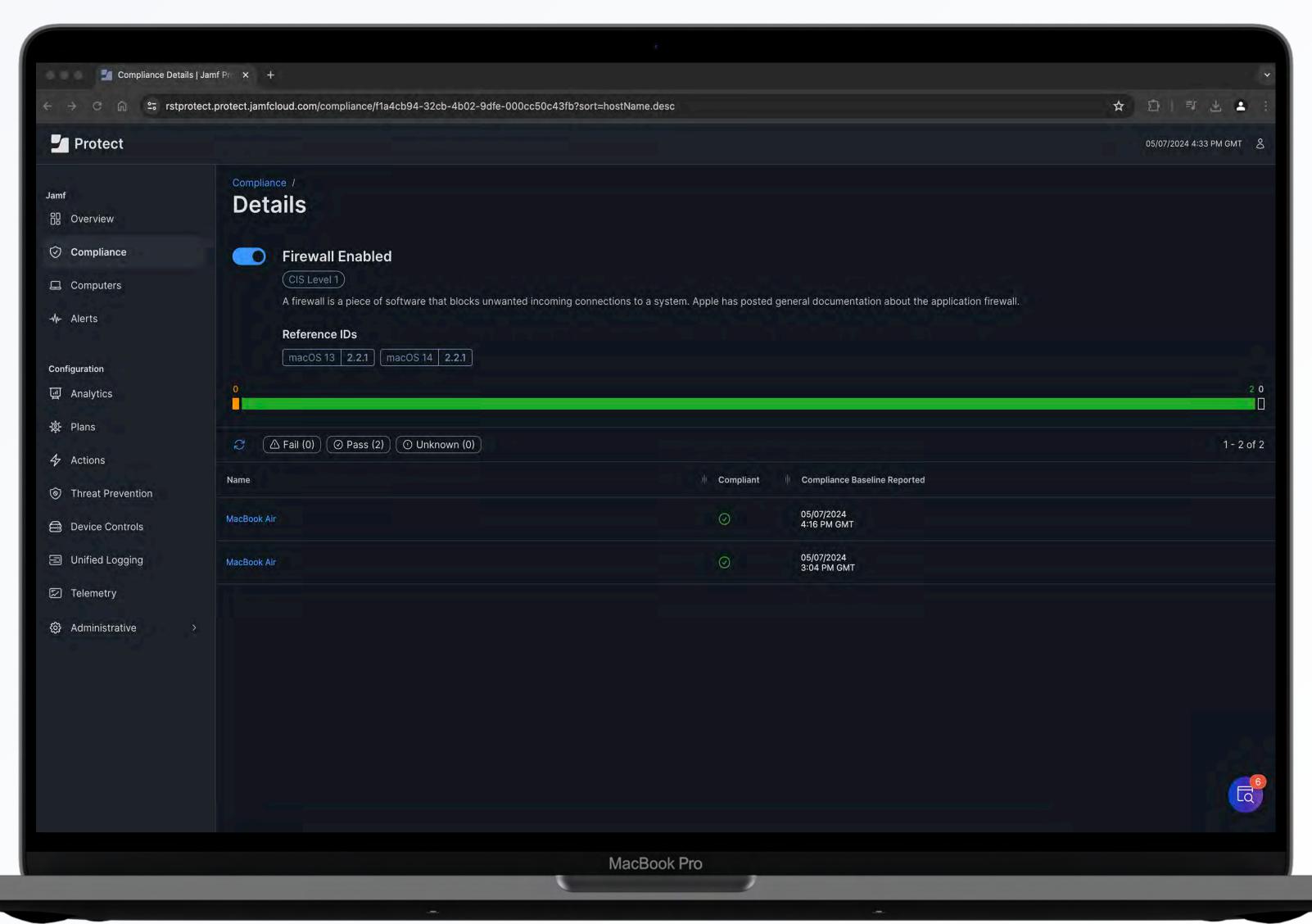


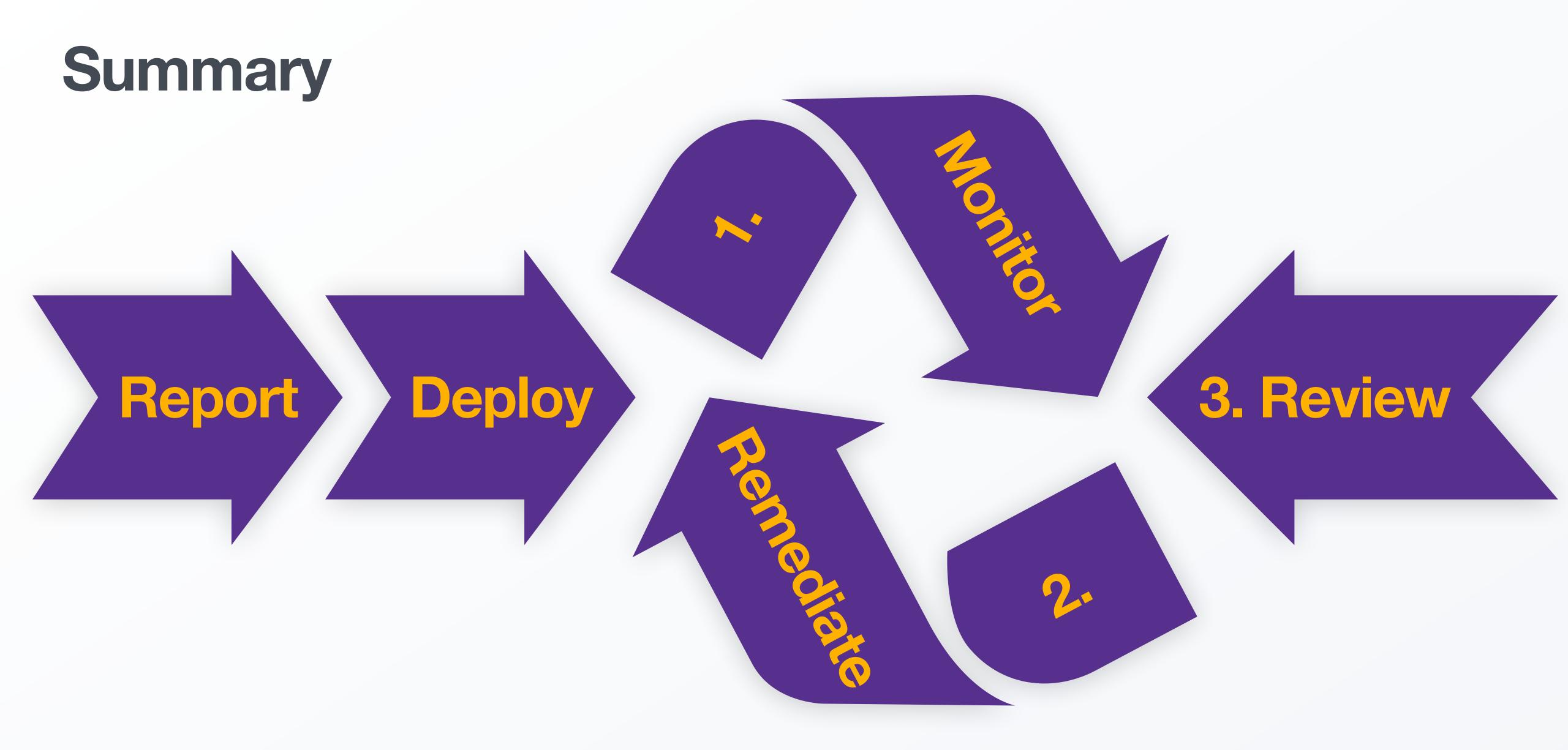
Compliant Device: Firewall-setting - enforced



Review Compliance Status

Compliance Review: Show Compliant devices





Thank You!