

# Security Configuration Benchmark For

## Apple Safari 4.0

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## Overview

This document, *Security Configuration Benchmark for Apple Safari*, provides prescriptive guidance for establishing a secure configuration posture for Apple Safari 4.0 running on Microsoft Windows and Apple OSX. This benchmark was tested using Safari 4.0.5 on Microsoft Windows XP Professional: Service Pack 3 and Microsoft Windows Vista (x86) and Safari 4.0.3 on Apple OSX 10.5. To obtain the latest version of this guide, please visit <http://cisecurity.org>. If you have questions, comments, or have identified ways to improve this guide, please write us at [feedback@cisecurity.org](mailto:feedback@cisecurity.org).

## Consensus Guidance

This guide was created using a consensus review process comprised of volunteer and contract subject matter experts. Consensus participants provide perspective from a diverse set of backgrounds including consulting, software development, audit and compliance, security research, operations, government, and legal.

Each CIS benchmark undergoes two phases of consensus review. The first phase occurs during initial benchmark development. During this phase, subject matter experts convene to discuss, create, and test working drafts of the benchmark. This discussion occurs until consensus has been reached on benchmark recommendations. The second phase begins after the benchmark has been released to the public Internet. During this phase, all feedback provided by the Internet community is reviewed by the consensus team for incorporation in the CIS benchmark. If you are interested in participating in the consensus review process, please send us a note to [feedback@cisecurity.org](mailto:feedback@cisecurity.org).

## Intended Audience

This document is intended for system and application administrators, security specialists, auditors, help desk, users, and platform deployment personnel, who plan to develop, deploy, assess, use or secure solutions that incorporate Safari 4.0.

## Acknowledgements

This benchmark exemplifies the great things a community of users, vendors, and subject matter experts can accomplish through consensus collaboration. The CIS community thanks the entire consensus team with special recognition to the following individuals who contributed greatly to the creation of this guide:

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## Typographic Conventions

The following typographical conventions are used throughout this guide:

Convention	Meaning
<code>Stylized Monospace font</code>	Used for blocks of code, command, and script examples. Text should be interpreted exactly as presented.
<code>Monospace font</code>	Used for inline code, commands, or examples. Text should be interpreted exactly as presented.
<i>&lt;italic font in brackets&gt;</i>	Italic texts set in angle brackets denote a variable requiring substitution for a real value.
<i>Italic font</i>	Used to denote the title of a book, article, or other publication.
<b>Note</b>	Additional information or caveats

## Configuration Levels

This section defines the configuration levels that are associated with each benchmark recommendation. Configuration levels represent increasing levels of security assurance.

### *Level-I Benchmark Settings/Actions*

Level-I Benchmark recommendations are intended to:

- be practical and prudent;
- provide a clear security benefit;
- not negatively inhibit the utility of the technology beyond acceptable means

### *Level-II Benchmark Settings/Actions*

Level-II Benchmark recommendations exhibit one or more of the following characteristics:

- may negatively inhibit the utility or performance of the technology
- act as a defense in depth measure

## Scoring Status

This section defines the scoring statuses used within this document. The scoring status indicates whether compliance with the given recommendation is discernable in an automated manner.

### *Scorable*

The platform's compliance with the given recommendation can be determined via automated means.

### *Not Scorable*

The platform's compliance with the given recommendation cannot be determined via automated means.

# Recommendations

## 1. Safari Configurations

This section provides guidance on the secure configuration for Safari 4.0.

Audit Steps for all Scorable configuration recommendations require that the Safari configuration file be converted from binary plist format to XML. Plist editor[1] and plutil.pl [2] can be used for this purpose. The Safari configuration file is stored at the following locations:

(Windows) %APPDATA%\Apple Computer\Preferences\com.apple.Safari.plist  
(Apple OSX) \$HOME/Library/Preferences/com.apple.Safari.plist

### 1.1 Security Settings

#### 1.1.1 Enable Pop-Up Blocker (Level I, Scorable)

**Description:**

The Pop-Up Blocker is used to block pop-up windows which a website might open with or without any user interaction. Pop-ups can be used to open un-trusted malicious content. It is recommended that the Popup Blocker be enabled.

**Rationale:**

By enabling the Pop-Up Blocker, all pop-ups will be blocked which will guard a user against any attacks launched using a pop-up.

**Remediation:**

Perform the following within Safari:

Microsoft Windows:

1. Click on 'Edit' (Alt-E)
2. Select 'Block Pop-Up Windows' if not selected

Apple OSX:

1. Click on 'Safari'
2. Select 'Block Pop-Up Windows' if not selected

**Audit:**

Perform the following to determine if Safari is configured as recommended:

1. Open the config.xml file
2. Find the token <key>WebKitJavaScriptCanOpenWindowsAutomatically</key>
3. Ensure this token is immediately followed by <false/>

Repeat the above steps for other profiles which need to be accessed.

### *1.1.2 Validate Proxy Settings (Level I, Not Scorable)*

**Description:**

Safari can be configured to send web related traffic through a proxy server. A proxy server acts as an intermediary between the web browser and web server. It is recommended that the list of proxy servers used by Safari be reviewed to ensure that only trusted servers are present in it.

**Rationale:**

Given a proxy server's position between the web browser and web server, it has the ability to read and alter all information that is not cryptographically protected. Given this, if an untrusted proxy server is configured in Safari, the information sent and received by Safari is at considerable risk.

**Audit:**

Perform the following within Safari:

Microsoft Windows:

1. Click on 'Edit' (Alt-E)
2. Click on 'Preferences'
3. Click on 'Advanced' Icon
4. Click on 'Change Settings ...'
5. Click on 'LAN Settings'
6. Ensure that the proxy listed is trusted

Apple OSX:

1. Click on 'Safari'
2. Click on 'Preferences'
3. Click on 'Advanced' Icon
4. Click on 'Change Settings ...'
5. Click on 'Proxies' tab
6. Ensure that the proxy listed is trusted

### *1.1.3 Accept only 1<sup>st</sup> Party Cookies (Level II, Scorable)*

**Description:**

1<sup>st</sup> party cookies are cookies that are set by the web site that appears in the Safari address bar. For example, if Safari visits [www.example.org](http://www.example.org) and the domain specified in a Set-Cookie header sent by the visited web server is [example.org](http://example.org) or a sub-domain of it, the cookie is considered a 1<sup>st</sup> party cookie. If Safari visits [www.example.org](http://www.example.org) and the domain specified in a Set-Cookie header sent by the visited web server is NOT [example.org](http://example.org) or a sub-domain of it, the cookie is considered a 3<sup>rd</sup> party cookie. Commonly, advertisement networks leverage 3<sup>rd</sup> party cookies to track browsing sessions across disparate web sites



to build a profile for the user. It is recommended that Safari be configured to accept only 1<sup>st</sup> party cookies.

**Rationale:**

Configuring Safari to accept only 1<sup>st</sup> party cookies will limit the means by which an advertisement agency can build a browsing profile for the user.

**Remediation:**

Perform the following within Safari:

Microsoft Windows:

1. Click on 'Edit' (Alt-E)
2. Click on 'Preferences'
3. Click on 'Security' Icon
4. In Accept Cookies Select 'Only from sites I visit'

Apple OSX:

1. Click on 'Safari'
2. Click on 'Preferences'
3. Click on 'Security' Icon
4. In Accept Cookies Select 'Only from sites I visit'

**Audit:**

Perform the following to determine if Safari is configured as recommended:

1. Open the `config.xml` file
2. Find the token `<key>WebKitCookieStorageAcceptPolicy</key>`
3. Ensure this token is immediately followed by `<integer>2</integer>` or nothing.

Repeat the above steps for other profiles which need to be accessed.

#### *1.1.4 Prompt for Insecure Form Submissions (Level I, Scorable)*

**Description:**

Safari can be configured to warn the user before submitting form data over an insecure transport, such as HTTP. It is recommended that Safari be configured to warn the user in this scenario.

**Rationale:**

Warning the user before form data is sent over an insecure transport provides the user with the opportunity to approve or deny the request based on the data's security classification.

**Remediation:**

Perform the following within Safari:

Microsoft Windows:

1. Click on 'Edit' (Alt-E)
2. Click on 'Preferences'
3. Click on 'Security' Icon
4. Check the option 'Ask before sending a non-secure form to a secure website'

Apple OSX:

1. Click on 'Safari'
2. Click on 'Preferences'
3. Click on 'Security' Icon
4. Check the option 'Ask before sending a non-secure form to a secure website'

### **Audit:**

Perform the following to determine if Safari is configured as recommended:

1. Open the `config.xml` file
2. Find the token `<key>AskBeforeSubmittingInsecureForms</key>`
3. Ensure this token is immediately followed by `<true />` or nothing.

Repeat the above steps for other profiles which need to be accessed.

### *1.1.5 Disable Storage and Usage of Form Data (Level II, Scorable)*

#### **Description:**

Safari can store the information typed in forms for later use on other websites. It is recommended that Safari be configured such that it does not store and auto-fill form contents.

#### **Rationale:**

If Safari or other applications executing at equal or higher security contexts is compromised, potentially sensitive, persisted, form data is at increased risk.

#### **Remediation:**

Perform the following within Safari:

Microsoft Windows:

1. Click on 'Edit' (Alt-E)
2. Click on 'Preferences'
3. Click on 'AutoFill' Button
4. Unselect 'Other forms'
5. Click the "Edit" button and select "Remove All"

Apple OSX:

1. Click on 'Safari'
2. Click on 'Preferences'

3. Click on 'AutoFill' Button
4. Unselect 'Other forms'
5. Click the "Edit" button and select "Remove All"

**Audit:**

Perform the following to determine if Safari is configured as recommended:

1. Open the `config.xml` file
2. Find the token `<key>AutoFillMiscellaneousForms</key>`
3. Ensure this token is immediately followed by `<false />` or nothing.

Repeat the above steps for other profiles which need to be accessed.

### *1.1.6 Disable Storage and Usage of Credentials (Level II, Scorable)*

**Description:**

Safari can store and auto-fill authentication credentials used to access web sites visited by the user. It is recommended that Safari be configured such that it does not store and auto-fill authentication credentials.

**Rationale:**

If Safari or another application executing at an equal or higher security context is compromised, persisted authentication credentials are at increased risk.

**Remediation:**

Perform the following within Safari:

Microsoft Windows:

1. Click on 'Edit' (Alt-E)
2. Click on 'Preferences'
3. Click on 'AutoFill' Button
4. Unselect 'User names and passwords'
5. Click the "Edit" button and select "Remove All"

Apple OSX:

1. Click on 'Safari'
2. Click on 'Preferences'
3. Click on 'AutoFill' Button
4. Unselect 'User names and passwords'
5. Click the "Edit" button and select "Remove All"

**Audit:**

Perform the following to determine if Safari is configured as recommended:

1. Open the `config.xml` file

2. Find the token `<key>AutoFillPasswords</key>`
3. Ensure this token is immediately followed by `<false />` or nothing.

Repeat the above steps for other profiles which need to be accessed.

### *1.1.7 Disable Storage and Usage of Address Book Card (Level II, Scorable)*

**Description:**

Safari allows the user to enter personal and business contact information into an Address Book card. This information can then be used to populate web forms by pressing the AutoFill button. It is recommended that this capability be disabled in environments where security is paramount.

**Rationale:**

If Safari or another application executing at an equal or higher security context is compromised, persisted personal and business contact information are at increased risk.

**Remediation:**

Perform the following within Safari:

Microsoft Windows:

1. Click on 'Edit' (Alt-E)
2. Click on 'Preferences'
3. Click on 'AutoFill' Button
4. Unselect 'Using info from my Address Book card'
5. Click the "Edit" button and remove any existing contact information

Apple OSX:

1. Click on 'Safari'
2. Click on 'Preferences'
3. Click on 'AutoFill' Button
4. Unselect 'Using info from my Address Book card'
5. Click the "Edit" button and remove any existing contact information

**Audit:**

Perform the following to determine if Safari is configured as recommended:

1. Open the `config.xml` file
2. Find the token `<key>AutoFillFromAddressBook</key>`
3. Ensure this token is immediately followed by `<false />` or nothing.

Repeat the above steps for other profiles which need to be accessed.

### *1.1.8 Enable Safe Browsing (Level I, Scorable)*

**Description:**

Safari can be configured to alert the user that the site they are visiting is malicious. It is recommended that this capability be enabled.

**Rationale:**

Users will be alerted about known malicious web sites, thus decreasing the probability of a user's browser or system being exploited by known malware or phishing site.

**Remediation:**

Perform the following within Safari:

Microsoft Windows:

1. Click on 'Edit' (Alt-E)
2. Click on 'Preferences'
3. Click on 'Security' Button
4. Select 'Warn when visiting a fraudulent website'

Apple OSX:

1. Click on 'Safari'
2. Click on 'Preferences'
3. Click on 'Security' Button
4. Select 'Warn when visiting a fraudulent website'

**Audit:**

Perform the following to determine if Safari is configured as recommended:

1. Open the config.xml file
2. Find the token `<key>WarnAboutFraudulentWebsites</key>`
3. Ensure this token is immediately followed by `<true />` or nothing.

Repeat the above steps for other profiles which need to be accessed.

### *1.1.9 Disable plug-ins (Level II, Scorable)*

**Description:**

Plug-ins provides means for extending the capabilities and features native to Safari. It is recommended that Plug-ins be disabled on systems where security is paramount.

**Rationale:**

Plug-ins increase the remote attack surface of Safari. Additionally, some plug-ins do not undergo rigorous security testing and are therefore more likely to contain exploitable defects.

**Remediation:**

Perform the following within Safari:

Microsoft Windows:

1. Click on 'Edit' (Alt-E)
2. Click on 'Preferences'
3. Click on 'Security' Button
4. Unselect 'Enable plug-ins'

Apple OSX:

1. Click on 'Safari'
2. Click on 'Preferences'
3. Click on 'Security' Button
4. Unselect 'Enable plug-ins'

**Audit:**

Perform the following to determine if Safari is configured as recommended:

1. Open the `config.xml` file
2. Find the token `<key>WebKitPluginsEnabled</key>`
3. Ensure this token is immediately followed by `<false/>` or nothing.

Repeat the above steps for other profiles which need to be accessed.

### *1.1.10 Disable Java (Level II, Scorable)*

**Description:**

Java is used to load code in the local machine which has more access to the local operating systems resource and can be used as an attack vector.

**Rationale:**

Some malicious websites can have active content to exploit vulnerabilities using Java. It is recommended as a defense-in-depth strategy to always disable unwanted features, such as Java.

**Remediation:**

Perform the following within Safari:

Microsoft Windows:

1. Click on 'Edit' (Alt-E)
2. Click on 'Preferences'
3. Click on 'Security' Button
4. Unselect 'Enable Java'

Apple OSX:

1. Click on 'Safari'
2. Click on 'Preferences'
3. Click on 'Security' Button
4. Unselect 'Enable Java'

**Audit:**

Perform the following to determine if Safari is configured as recommended:

1. Open the `config.xml` file
2. Find the token `<key>WebKitJavaEnabled</key>`
3. Ensure this token is immediately followed by `<false />` or nothing.

Repeat the above steps for other profiles which need to be accessed.

### *1.1.11 Disable JavaScript (Level II, Scorable)*

**Description:**

JavaScript enables web site authors to create enhanced user interfaces. In support of this, JavaScript enables web sites to programmatically read and alter the document object model (DOM) for the rendered web site as well as instantiate various objects, such as asynchronous XML HTTP request (XHR) objects. It is recommended that JavaScript be disabled.

**Rationale:**

JavaScript continues to be an attack vector for exploiting vulnerabilities in the browser. Additionally, JavaScript is commonly leveraged by exploit authors to create a deterministic memory layout in support of increasing the reliability of exploits.

**Remediation:**

Perform the following within Safari:

Microsoft Windows:

1. Click on 'Edit' (Alt-E)
2. Click on 'Preferences'
3. Click on 'Security' Button
4. Unselect 'Enable JavaScript'

Apple OSX:

1. Click on 'Safari'
2. Click on 'Preferences'
3. Click on 'Security' Button
4. Unselect 'Enable JavaScript'

**Audit:**

Perform the following to determine if Safari is configured as recommended:

1. Open the `config.xml` file
2. Find the token `<key>WebKitJavaScriptEnabled</key>`
3. Ensure this token is immediately followed by `<false />` or nothing.

Repeat the above steps for other profiles which need to be accessed.

### *1.1.12 Use of Private Browsing (Informational, Not Scorable)*

**Description:**

Safari provides private browsing for users who want to remove all traces of a session after a browsing session ends. This is particularly useful when using shared computers. Perform the following to enable private browsing:

Microsoft Windows:

1. Click on 'Edit' (Alt-E)
2. Click on 'Private Browsing'

Apple OSX:

1. Click on 'Safari'
2. Click on 'Private Browsing'

For more information on Private Browsing, see  
[http://www.apple.com/pro/tips/privacy\\_safari.html](http://www.apple.com/pro/tips/privacy_safari.html)



## Appendix A: References

Resource	Location
1. pList Editor	<a href="http://www.topshareware.com/plist-Editor-for-Windows-transfer-67471.htm">http://www.topshareware.com/plist-Editor-for-Windows-transfer-67471.htm</a>
2. plutil.pl	<a href="http://scw.us/iPhone/plutil/">http://scw.us/iPhone/plutil/</a>

## Appendix B: Change History

Date	Version	Changes for this version
May 5th, 2010	1.0.0	Public Release