

# Security Configuration Benchmark For

## Mozilla Firefox

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# Table of Contents

Terms of Use Agreement .....	2
Table of Contents .....	5
Overview .....	7
1.1 Consensus Guidance .....	7
1.2 Intended Audience .....	7
1.3 Acknowledgements.....	7
1.4 Typographic Conventions.....	8
1.5 Configuration Levels .....	8
1.5.1 Level-I Benchmark Settings/Actions .....	8
1.5.2 Level-II Benchmark Settings/Actions .....	8
1.6 Scoring Status.....	8
1.6.1 Scorable.....	8
1.6.2 Not Scorable .....	8
Recommendations.....	9
2. Firefox Configurations .....	9
2.1 Network Connections:.....	9
2.1.1 Validate Proxy Settings (Level I, Not Scorable).....	9
2.2 Updating Firefox.....	10
2.2.1 Enable Auto Update (Level I, Scorable) .....	10
2.3 Encryption Settings.....	11
2.3.1 Enable SSL 3.0 and TLS 1.0 (Level I, Scorable).....	11
2.3.2 Enable Warning of Loading Mixed Content (Level I, Scorable) .....	11
2.3.3 Enable Warning of Using Weak Encryption (Level I, Scorable).....	12
2.4 Add-Ons Settings.....	13
2.4.1 Disabling Auto-Install of Add-Ons (Level I, Scorable).....	13
2.4.2 Enable Blocking of Reported Attack Sites (Level I, Scorable).....	14
2.4.3 Enable Blocking of Reported Web Forgeries (Level I, Scorable) .....	14
2.4.4 Enable Online Certificate Status Protocol (Level I, Scorable).....	15
2.5 Dynamic Content Settings.....	16
2.5.1 Disable Closing of Windows via Scripts (Level II, Scorable) .....	16
2.5.2 Disable Caching of SSL Pages (Level 1, Scorable).....	17
2.5.3 Disable Downloading on Desktop (Level I, Scorable) .....	17
2.5.4 Enable Virus Scanning for Downloads (Level I, Scorable) .....	18
2.5.5 Block Reported Web Forgeries (Level I, Scorable).....	19
2.5.6 Block Reported Attack Sites (Level I, Scorable).....	19
2.5.7 Disable Displaying Javascript in History URLs (Level I, Scorable) .....	20
2.6 Network Settings.....	20
2.6.1 Enable SSPI Authentication (Level I, Scorable) .....	21
2.6.2 Disable Referer from an SSL Website (Level I, Scorable) .....	21
2.6.3 Disable Sending LM Hash (Level I, Scorable) .....	22
2.7 Privacy Settings .....	23
2.7.1 Accept Only 1st Party Cookies (Level I, Scorable) .....	23
2.7.2 Disallow Credential Storage (Level I, Scorable).....	24
2.7.3 Disable Prompting for Credential Storage (Level II, Scorable).....	24

2.7.4	Delete History and Form Data (Level II, Scorable) .....	25
2.7.5	Delete Download History (Level II, Scorable).....	26
2.7.6	Delete Search and Form History (Level II, Scorable) .....	27
2.7.7	Block Pop-up Windows (Level I, Scorable) .....	28
2.7.8	Clear SSL Form Session Data (Level II, Scorable).....	28
2.8	Applications Settings.....	29
2.8.1	Secure Application Plug-ins (Level I, Not Scorable).....	29
2.9	Advanced JavaScript Settings:.....	30
2.9.1	Disallow JavaScript s Ability to Hide the Status Bar (Level I, Scorable) .....	30
2.9.2	Disallow JavaScript s Ability to Change the Status Bar Text (Level I, Scorable) 31	
2.9.3	Enable Warning When Entering Insecure Site (Level I, Scorable) .....	32
2.9.4	Enable Warning When Submitting Clear Text Form Data (Level I, Scorable)..	32
2.9.5	Disable Scripting of Plugins by JavaScript (Level I, Scorable) .....	33
2.9.6	Enable Auto Notification of Outdated Plugins (Level I, Scorable) .....	34
2.9.7	Enable Information Bar for Outdated Plugins (Level I, Scorable) .....	34
Appendix A: References .....		36
Appendix B: Change History .....		36

# Overview

This document, *Security Configuration Benchmark for Web Browsers*, provides prescriptive guidance for establishing a secure configuration posture for Firefox 3.6.12 running on *Microsoft Windows Version 5.1 XP Professional: Service Pack 3*, *Windows Vista (x86)*, and *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).

## 1.1 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).

## 1.2 Intended Audience

This document is intended for system and application administrators, security specialists, auditors, help desk, and platform deployment personnel, who plan to develop, deploy, assess, or secure solutions that incorporate Mozilla Firefox 3.6.12.

## 1.3 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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## 1.4 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

## 1.5 Configuration Levels

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

### 1.5.1 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

### 1.5.2 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

## 1.6 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.

### 1.6.1 Scorable

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

### 1.6.2 Not Scorable

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



# Recommendations

## 2. Firefox Configurations

This section provides guidance on the secure configuration of Firefox 3.6.12. The menu options articulated under the Remediation and Audit sections differ depending on the platform Firefox is installed on. The benchmark leverages the menu options (`Tools -> Preferences`) used by Firefox running on Windows. For Linux deployments, the menu options are `Edit -> Preferences`. On the Apple OSX platform, the menu options are `Firefox -> Preferences`. All other menu options articulated below are the same across all three base platforms.

### 2.1 Network Connections:

This section will discuss how to securely configure network connections in Firefox.

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

**Description:**

Firefox can be configured to use one or more proxy servers. When a proxy server is configured for a given protocol (HTTP, FTP, Gopher, etc), Firefox will send applicable requests to that proxy server for fulfillment. It is recommended that the list of proxy servers configured in Firefox be reviewed to ensure it contains only trusted proxy servers.

**Rationale:**

Depending on the protocol used, the proxy server will have access to read and/or alter all information communicated between Firefox and the target server, such a web site.

**Remediation:**

Perform the following procedure:

1. Click on `Tools`
2. Select `Options` from the drop down.
3. Click on `Advanced` Button on Options window
4. Click on `Network` Tab
5. Click on `Settings` Button
6. Ensure that the proxy listed (if any) is the one configured and approved by the enterprise.

**Audit:**

Perform the following procedure:

1. Click on `Tools`
2. Select `Options` from the drop down.
3. Click on `Advanced` Button on Options window
4. Click on `Network` Tab
5. Click on `Settings` Button

6. Ensure that the proxy listed (if any) is the one configured and approved by the enterprise.

## 2.2 Updating Firefox

This section will discuss how to enable auto updates in Firefox.

### 2.2.1 Enable Auto Update (Level I, Scorable)

#### **Description:**

This configuration will show how to enable updates for Firefox and extensions installed on Firefox. It is recommended to enable the auto update feature.

#### **Rationale:**

Security updates are critical in ensuring that a user is safe from known vulnerabilities. Therefore, automatic checking of updates should be enabled.

#### **Remediation:**

Perform the following procedure:

1. Click on **Tools**
2. Click on **Options**
3. Click on **Advanced** tab
4. Click on **Update** tab
5. Select **Firefox, Installed Add-ons, and Search Engines** under the **Automatically check for updates to:** section.
6. Select **Automatically download and install the update** option in the **When updates to Firefox are found** section
7. Select the **Warn me if this will disable any of Add-ons** sub-option.
8. Click **OK**

#### **Audit:**

Perform the following procedure:

1. Close Firefox browser and run the following command:

```
findstr /isl /a:6 "app.update.auto"  
"%APPDATA%\Mozilla\Firefox\Profiles\*prefs.js"
```

If no results are returned it means that auto update has been enabled for the current profile. Repeat the audit steps above for each profile of interest, using an account with appropriate privileges for accessing profiles needed.

**Note:** This setting is not required where organizations are automatically managing the update process remotely.

Repeat the audit steps above for each profile of interest, using an account with appropriate privileges for accessing profiles needed.

## 2.3 Encryption Settings

This section will discuss how to set up encryption settings in Firefox.

### 2.3.1 Enable SSL 3.0 and TLS 1.0 (Level I, Scorable)

**Description:**

This configuration will show how to enable SSL 3.0 and TLS 1.0 for Firefox. It is recommended to enable SSL 3.0 and TLS 1.0.

**Rationale:**

Enabling these protocols will allow Firefox to enforce selection of higher SSL and TLS encryption key lengths and more robust protocols

**Remediation:**

Perform the following procedure:

1. Click on **Tools**
2. Click on **Options**
3. Click on **Advanced Icon**
4. Click on **Encryption Tab**
5. Select **Use SSL 3.0, Use TLS 1.0** under **Protocols** section
6. Select **Ask me everytime** under **Certificates**.
7. Click **OK**

**Audit:**

Perform the following procedure:

1. Close Firefox browser and run the following command:

```
findstr /isl /a:6 "security.enable_ssl3"  
"%APPDATA%\Mozilla\Firefox\Profiles\*prefs.js"
```

If no results are returned it means that auto update has been enabled for the current user. Repeat the audit steps above for each profile of interest, using an account with appropriate privileges for accessing profiles needed.

### 2.3.2 Enable Warning of Loading Mixed Content (Level I, Scorable)

**Description:**

This will warn users when unencrypted data is loaded in an SSL encrypted session. It is recommended to enable warning of loading mixed content.

**Rationale:**

Enabling this setting will alert a user when some content on a secure communication channel is coming under a non secure channel. For example an SSL website can request

part of content on a page under a non-SSL session. This can leave users vulnerable to eavesdropping and Man in the Middle attacks.

**Remediation:**

Use the following procedure:

1. Click on Tools
2. Click on Options
3. Click on Security Icon
4. Click on Settings Button under the Warning Messages section
5. Select I am about to view an encrypted page that contains some unencrypted information.
6. Click OK

**Audit:**

Perform the following procedure:

1. Close Firefox browser and run the following command:

```
findstr /isl /a:6 "security.warn_viewing_mixed"  
"%APPDATA%\Mozilla\Firefox\Profiles\*.js"
```

If no results are returned it means that auto update has been enabled for the current profile. Repeat the audit steps above for each profile of interest, using an account with appropriate privileges for accessing profiles needed.

### *2.3.3 Enable Warning of Using Weak Encryption (Level I, Scorable)*

**Description:**

This will warn users when a website is using weaker encryption. It is recommended to enable the warning for weak encryption.

**Rationale:**

This will protect users from the compromise of their data due to weak encryption.

**Remediation:**

Use the following procedure:

1. Click on Tools
2. Click on Options
3. Click on Security icon
4. Click on Settings button under the Warnings section
5. Select I am about to view a page that uses low-grade encryption.
6. Click OK

**Audit:**

Perform the following procedure:

1. Close Firefox browser and run the following command:

```
findstr /isl /a:6 "security.warn_entering_weak"  
"%APPDATA%\Mozilla\Firefox\Profiles\*prefs.js"
```

If no results are returned it means that auto update has been enabled for the current profile. Repeat the audit steps above for each profile of interest, using an account with appropriate privileges for accessing profiles needed.

## 2.4 Add-Ons Settings

This section will discuss how to set up Add Ons in Firefox.

### 2.4.1 Disabling Auto-Install of Add-Ons (Level I, Scorable)

#### **Description:**

This configuration will show how to ensure that no website is allowed to automatically install Add-Ons. Also, it will list how to ensure that proper notifications are shown when installing Add-Ons. It is recommended to disable auto install of add-ons.

#### **Rationale:**

Add-Ons are extensions of the browser that add new functionality to Firefox or change its appearance. These run in a user's session allowing them to manipulate data and the behavior of the way Firefox interacts with other application and user commands. If malicious Add-Ons are installed automatically, a user's security could be completely compromised.

#### **Remediation:**

Use the following procedure:

1. Click on **Tools**
2. Click on **Options**
3. Click on **Security Icon**
4. Select **Warn me when sites try to install add-ons** under the top section of the dialog
5. Next, click on **Exceptions** button and then click on **Remove All Sites**
6. Hit **Close**
7. Click **OK**

#### **Audit:**

1. Close Firefox browser and run the following command:

```
findstr /isl /a:6 "xpinstall.whitelist.required"  
"%APPDATA%\Mozilla\Firefox\Profiles\*prefs.js"
```

If no results are returned it means that auto update has been enabled for the current profile. Repeat the audit steps above for each profile of interest, using an account with appropriate privileges for accessing profiles needed.

### 2.4.2 Enable Blocking of Reported Attack Sites (Level I, Scorable)

**Description:**

This configuration will have Firefox check whether the site being visited may be an attempt to interfere with normal computer functions or send personal data to unauthorized parties over the Internet. It is recommended to enable blocking of reported attack sites.

**Note:** The absence of a warning does not guarantee that a site is trustworthy.

**Rationale:**

This can help protect users from accidentally visiting a known attack site. It can have privacy implications as a user's browsing activity is sent to a third party as part of the check.

**Remediation:**

Perform the following procedure:

1. Click on **Tools**
2. Click on **Options**
3. Click on **Security Icon**
4. Select **Block reported attack sites** in the top section of the dialog
5. Click **Close**
6. Click **OK**

**Audit:**

Perform the following procedure:

1. Close Firefox browser and run the following command:

```
findstr /isl /a:6 "browser.safebrowsing.malware.enabled"  
"%APPDATA%\Mozilla\Firefox\Profiles\*prefs.js"
```

If no results are returned it means that auto update has been enabled for the current profile. Repeat the audit steps above for each profile of interest, using an account with appropriate privileges for accessing profiles needed.

### 2.4.3 Enable Blocking of Reported Web Forgeries (Level I, Scorable)

**Description:**

This configuration will have Firefox actively check whether the site being visited may be an attempt to mislead you into providing personal information (this is often referred to as phishing). It is recommended to enable blocking of reported web forgeries.

**Rationale:**

This can help protect users from accidentally visiting a known phishing site. It can have privacy implications as a user's browsing activity is sent to a third party as part of the check.

**Remediation:**

Use the following procedure:

1. Click on `Tools`
2. Click on `Options`
3. Click on `Security Icon`
4. Select `Block reported web forgeries` in the top section of the dialog
5. Hit `Close`
6. Click `OK`

**Audit:**

Perform the following procedure:

1. Close Firefox browser and run the following command:

```
findstr /isl /a:6 "browser.safebrowsing.enabled"  
"%APPDATA%\Mozilla\Firefox\Profiles\*prefs.js"
```

If no results are returned it means that auto update has been enabled for the current profile. Repeat the audit steps above for each profile of interest, using an account with appropriate privileges for accessing profiles needed.

#### *2.4.4 Enable Online Certificate Status Protocol (Level I, Scorable)*

**Description:**

Firefox checks with Online Certification Status Protocol (OCSP) to ensure that the certificates are valid. Firefox can validate a certificate if an OCSP server is specified by the certificate or an OCSP server can be configured manually. It is recommended to enable OCSP.

**Rationale:**

To provide assurance on the validity of encryption Certificates these option should be enabled.

**Remediation:**

Perform the following procedure:

1. Click on `Tools`
2. Click on `Options`
3. Click on `Advanced Icon`
4. Click on `Encryption Tab`
5. Click on `Validation Button in the Certificates section`
6. Select `Use the Online Certificate Status Protocol (OCSP) to confirm the current validity of certificates option`

7. Click OK
8. Click OK

**Audit:**

Perform the following procedure:

1. Close Firefox browser and run the following command:

```
findstr /isl /a:6 "security.OCSF.enabled"  
"%APPDATA%\Mozilla\Firefox\Profiles\*prefs.js"
```

If no results are returned it means that auto update has been enabled for the current profile. Repeat the audit steps above for each profile of interest, using an account with appropriate privileges for accessing profiles needed.

## 2.5 Dynamic Content Settings

Dynamic content consists of scripts and native browser objects which can change the content of a browser window without the knowledge of a user. This section will show how to lock down dynamic content in Firefox.

### 2.5.1 Disable Closing of Windows via Scripts (Level II, Scorable)

**Description:**

Firefox can be configured to prevent script from closing browser windows. It is recommended that script be prevented from closing browser windows.

**Rationale:**

Preventing an arbitrary web site from closing the browser window will reduce the probability of a user losing work or state being performed in another tab within the same window.

**Remediation:**

Perform the following procedure:

1. Type `about:config` in the address bar
2. Type `dom` in the filter
3. Set the preference listed with the values specified below

```
dom.allow_scripts_to_close_windows=false
```

**Audit:**

Perform the following procedure:

1. Close Firefox browser and run the following command:

```
findstr /isl /a:6 "dom.allow_scripts_to_close_windows"  
"%APPDATA%\Mozilla\Firefox\Profiles\*prefs.js"
```



This will not return anything if Firefox is configured correctly for the current profile. Repeat the audit steps above for each profile of interest, using an account with appropriate privileges for accessing profiles needed.

### *2.5.2 Disable Caching of SSL Pages (Level 1, Scorable)*

**Description:**

Firefox can locally cache the content of SSL pages on disk. It is recommended that caching SSL content be disabled.

**Rationale:**

This will protect user s confidential information from unauthorized disclosure.

**Remediation:**

Perform the following procedure:

1. Type `about:config` in the address bar
2. Type `browser` in the filter
3. Set the preference listed with the values specified below

```
browser.cache.disk_cache_ssl=false
```

**Audit:**

Perform the following procedure:

1. Close Firefox browser and run the following command:

```
findstr /isl /a:6 "browser.cache.disk_cache_ssl"  
"%APPDATA%\Mozilla\Firefox\Profiles\*.js"
```

This will not return anything if Firefox is configured correctly for the current profile. Repeat the audit steps above for each profile of interest, using an account with appropriate privileges for accessing profiles needed.

### *2.5.3 Disable Downloading on Desktop (Level I, Scorable)*

**Description:**

Firefox can download content on the desktop or other locations. It is recommended not to download files on desktop.

**Rationale:**

This will protect from downloading content on desktop and tricking users into running malicious binaries.

**Remediation:**

Perform the following procedure:

1. Type `about:config` in the address bar
2. Type `browser` in the filter

3. Set the preference listed with the values specified below

```
browser.download.folderList=2
```

**Audit:**

Perform the following procedure:

1. Close Firefox browser and run the following command:

```
findstr /isl /a:6 "browser.download.folderList"  
"%APPDATA%\Mozilla\Firefox\Profiles\*prefs.js"
```

This will return the following if Firefox is configured correctly for the current profile.

```
prefs.js:user_pref("browser.download.folderList", 2);
```

Repeat the audit steps above for each profile of interest, using an account with appropriate privileges for accessing profiles needed.

### *2.5.4 Enable Virus Scanning for Downloads (Level I, Scorable)*

**Description:**

Firefox can be configured to scan downloads for viruses. It is recommended that this capability be enabled.

**Rationale:**

This will ensure that a downloaded file is scanned for viruses before the user has an opportunity to interact with the download.

**Remediation:**

Perform the following procedure:

1. Type `about:config` in the address bar
2. Type `browser` in the filter
3. Set the preference listed with the values specified below

```
browser.download.manager.scanWhenDone=true
```

**Audit:**

Perform the following procedure:

1. Close Firefox browser and run the following command:

```
findstr /isl /a:6 "browser.download.manager.scanWhenDone"  
"%APPDATA%\Mozilla\Firefox\Profiles\*prefs.js"
```

This will not return anything if Firefox is configured correctly for the current user.

Repeat the audit steps above for each profile of interest, using an account with appropriate privileges for accessing profiles needed.

### 2.5.5 Block Reported Web Forgeries (Level I, Scorable)

**Description:**

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

**Rationale:**

Enabling this feature will decrease the probability of a user falling victim to a phishing attack or unknowingly disclosing sensitive information to an untrusted party.

**Remediation:**

Perform the following procedure:

1. Type `about:config` in the address bar
2. Type `browser` in the filter
3. Set the preference listed with the values specified below

```
browser.safebrowsing.enabled=true
```

**Audit:**

Perform the following procedure:

1. Close Firefox browser and run the following command:

```
findstr /isl /a:6 "browser.safebrowsing.enabled"  
"%APPDATA%\Mozilla\Firefox\Profiles\*prefs.js"
```

This will not return anything if Firefox is configured correctly for the current user.

Repeat the audit steps above for each profile of interest, using an account with appropriate privileges for accessing profiles needed.

### 2.5.6 Block Reported Attack Sites (Level I, Scorable)

**Description:**

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

**Rationale:**

Enabling this feature will decrease the probability of a user's browser or system being exploited by known malware.

**Remediation:**

Perform the following procedure:

1. Type `about:config` in the address bar
2. Type `browser` in the filter
3. Set the preference listed with the values specified below

```
browser.safebrowsing.malware.enabled=true
```

**Audit:**

Perform the following procedure:

1. Close Firefox browser and run the following command:

```
findstr /isl /a:6 "browser.safebrowsing.malware.enabled"  
"%APPDATA%\Mozilla\Firefox\Profiles\*prefs.js"
```

This will not return anything if Firefox is configured correctly for the current user.

Repeat the audit steps above for each profile of interest, using an account with appropriate privileges for accessing profiles needed.

### *2.5.7 Disable Displaying Javascript in History URLs (Level I, Scorable)*

**Description:**

This will ensure that JavaScript URLs are not displayed in the history bar. It is recommended to disable displaying of JavaScript in history urls.

**Rationale:**

Various browser elements, even a simple link, can embed `javascript:` URLs and access the `javascript:` protocol. The JavaScript statement used in a `javascript:` URL can be used to encapsulate a specially crafted URL that performs a malicious function.

**Remediation:**

Perform the following procedure:

1. Type `about:config` in the address bar
2. Type `browser` in the filter
3. Set the preference listed with the values specified below

```
browser.urlbar.filter.javascript=true
```

**Audit:**

Perform the following procedure:

1. Close Firefox browser and run the following command:

```
findstr /isl /a:6 "browser.urlbar.filter.javascript"  
"%APPDATA%\Mozilla\Firefox\Profiles\*prefs.js"
```

This will not return anything if Firefox is configured correctly.

## 2.6 Network Settings

This section provides guidance for configuring portions of Firefox exposed via the Network Settings dialog.

### 2.6.1 Enable SSPI Authentication (Level I, Scorable)

**Description:**

Firefox can be configured to leverage the Microsoft Windows Security Support Provider Interface (SSPI). It is recommended that this capability be enabled.

**Rationale:**

This will protect users from using weaker authentication.

**Remediation:**

Perform the following procedure:

1. Type `about:config` in the address bar
2. Type `network.auth` in the filter
3. Set the preference listed with the values specified below

```
network.auth.use-sspi=true
```

**Audit:**

Perform the following procedure:

1. Close Firefox browser and run the following command:

```
findstr /isl /a:6 "network.auth.use-sspi"  
"%APPDATA%\Mozilla\Firefox\Profiles\*prefs.js"
```

This will not return anything if Firefox is configured correctly for the current profile. Repeat the audit steps above for each profile of interest, using an account with appropriate privileges for accessing profiles needed.

### 2.6.2 Disable Referrer from an SSL Website (Level I, Scorable)

**Description:**

Firefox can be configured to omit the HTTP `Referer` header when the referring site is protected by SSL. An HTTP `Referer` header provides the referred site with the URL of the referring site. It is recommended to disable referrer from an SSL website.

**Rationale:**

It is possible that the URL of the SSL-protected, referring site contains sensitive information. By preventing Firefox from sending this URL, via an HTTP `Referer` header, to sites referred to by the SSL protected site an avenue for information disclosure is eliminated.

**Remediation:**

Perform the following procedure:

1. Type `about:config` in the address bar
2. Type `network` in the filter
3. Set the preference listed with the values specified below

```
network.http.sendSecureXSiteReferrer=false
```

**Audit:**

Perform the following procedure:

1. Close Firefox browser and run the following command:

```
findstr /isl /a:6 "network.http.sendSecureXSiteReferrer"  
"%APPDATA%\Mozilla\Firefox\Profiles\*prefs.js"
```

This will return the following result if Firefox is configured correctly for the current profile.

```
prefs.js:user_pref("network.http.sendSecureXSiteReferrer", false);
```

Repeat the audit steps above for each profile of interest, using an account with appropriate privileges for accessing profiles needed.

### 2.6.3 Disable Sending LM Hash (Level I, Scorable)

**Description:**

Firefox can be configured to send an LM Hash when authenticating to resources that request this authentication type. It is recommended that this capability be disabled.

**Rationale:**

The LM Hashing algorithm contains weaknesses that can be exploited to derive plain text authentication credentials.

**Remediation:**

Perform the following procedure:

1. Type `about:config` in the address bar
2. Type `network.ntlm` in the filter
3. Set the preference listed with the values specified below

```
network.ntlm.send-lm-response=false
```

**Audit:**

Perform the following procedure:

1. Close Firefox browser and run the following command:

```
findstr /isl /a:6 "network.ntlm.send-lm-response"  
"%APPDATA%\Mozilla\Firefox\Profiles\*prefs.js"
```

This will not return any results if Firefox is configured correctly for the current profile.

Repeat the audit steps above for each profile of interest, using an account with appropriate privileges for accessing profiles needed.

## 2.7 Privacy Settings

A user's browser can provide information such as browsing history to Internet resources which can result in the compromise of the privacy of a user. This section will outline how to enable the controls to guard user privacy.

### 2.7.1 *Accept Only 1st Party Cookies (Level I, Scorable)*

**Description:**

Cookies are used to track valid session on internet websites. Securing cookie handling will help secure a user's browser session. It is recommended to only accept 1<sup>st</sup> party cookies.

**Rationale:**

These cookies are typically used to uniquely identify a user's session on a website. However, these cookies can be used by third party sites and malicious sites to track a user's activity on the web. Also, they can be used to store sensitive personally identifiable information. Cookie settings should be configured such that malicious websites cannot set the cookies.

**Remediation:**

Perform the following procedure:

1. In Firefox Browser
2. Click on **Tools**
3. Click on **Options**
4. Click on **Privacy Icon**
5. Check **Accept Cookies from Sites**
6. Ensure that **Accept third-party cookies** is **Unchecked**
7. Hit **OK**

**Audit:**

Perform the following procedure:

1. Close Firefox browser and run the following commands:

```
findstr /isl /a:6 "network.cookie.cookieBehavior"  
"%APPDATA%\Mozilla\Firefox\Profiles\*prefs.js"
```

This will return the following results if Firefox is configured correctly.

```
user_pref("network.cookie.cookieBehavior", 1);
```

Repeat the audit steps above for each profile of interest, using an account with appropriate privileges for accessing profiles needed.

### 2.7.2 Disallow Credential Storage (Level I, Scorable)

**Description:**

Firefox allows credentials to be stored for certain websites. It is recommended to disallow credential storage.

**Rationale:**

Credentials can be compromised if the computer is shared with other users. This setting will ensure that the passwords are not stored for websites.

**Remediation:**

Perform the following procedure:

1. In Firefox Browser
2. Click on `Tools`
3. Click on `Options`
4. Click on `Security Icon`
5. Unselect `Remember passwords for sites`
6. Click `Saved Password`
7. If there are any saved passwords listed in the dialog, click on `Remove All`
8. Click `OK`

**Audit:**

Perform the following procedure:

1. Close Firefox browser and run the following commands:

```
findstr /isl /a:6 "signon.rememberSignons"  
"%APPDATA%\Mozilla\Firefox\Profiles\*prefs.js"
```

This will return the following result:

```
user_pref("signon.rememberSignons", false);
```

`false` indicates that any passwords previously saved will be deleted when the saved data is cleared for the current profile. Repeat the audit steps above for each profile of interest, using an account with appropriate privileges for accessing profiles needed.

### 2.7.3 Disable Prompting for Credential Storage (Level II, Scorable)

**Description:**

Firefox can prompt when credentials are entered in website forms. It is recommended to disable prompting for the storage of credentials.

**Rationale:**

This setting will ensure that Firefox does not prompt for storing passwords which will be



stored by Firefox. Stored credentials/sensitive data pose a risk as they can be compromised by malicious websites using information leakage bugs/advisories in Firefox.

**Remediation:**

Perform the following procedure:

1. Type `about:config` in the address bar
2. Type `Security` in the filter
3. Set the preference listed with the values specified below

```
security.ask_for_password=0
```

**Audit:**

Perform the following procedure:

1. Close Firefox browser and run the following commands:

```
findstr /isl /a:6 "security.ask_for_password"  
"%APPDATA%\Mozilla\Firefox\Profiles\*prefs.js"
```

This will result in no output if the password setting is set appropriately for the current profile. Repeat the audit steps above for each profile of interest, using an account with appropriate privileges for accessing profiles needed.

**Note:** This option should be considered Level I for shared computing resources.

### *2.7.4 Delete History and Form Data (Level II, Scorable)*

**Description:**

Firefox can store the sites visited, information typed in forms, and downloads from Internet resources. It is recommended to enable deletion of history and form data.

**Rationale:**

If Firefox 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 procedure:

1. In Firefox Browser
2. Click on `Tools`
3. Click on `Options`
4. Click on `Privacy Icon`
5. Select `Use custom settings for History` from the `Firefox will: section`
6. Uncheck `Remember my browsing history for at least` checkbox
7. Hit `OK`

**Audit:**

Perform the following procedure:

1. Close Firefox browser and run the following commands:

```
findstr /isl /a:6 "browser.history_expire_days"  
"%APPDATA%\Mozilla\Firefox\Profiles\*prefs.js"
```

This will return:

```
user_pref("browser.history_expire_days", 0);
```

The zero (0) is indication that no history is being saved for the current profile. Repeat the audit steps above for each profile of interest, using an account with appropriate privileges for accessing profiles needed.

**Note:** This option should be considered Level I for shared computing resources.

### *2.7.5 Delete Download History (Level II, Scorable)*

**Description:**

Firefox can store downloads from Internet resources. It is recommended to enable the deletion of download history.

**Rationale:**

If Firefox 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 procedure:

1. In Firefox Browser
2. Click on **Tools**
3. Click on **Options**
4. Click on **Privacy Icon**
5. **Uncheck** Remember download history
6. Hit **OK**

**Audit:**

Perform the following procedure:

1. Close Firefox browser and run the following command:

```
findstr /isl /a:6 "browser.download.manager.retention"  
"%APPDATA%\Mozilla\Firefox\Profiles\*prefs.js"
```

This will return:

```
user_pref("browser.download.manager.retention", 0);
```

Zero (0) is an indication that no download history is retained for the current profile. Repeat the audit steps above for each profile of interest, using an account with appropriate privileges for accessing profiles needed.

**Note:** This option should be considered Level I for shared computing resources.

### *2.7.6 Delete Search and Form History (Level II, Scorable)*

**Description:**

Firefox can store Search and Form Data from Internet resources. It is recommended to enable deletion of search and form history.

**Rationale:**

If Firefox 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 procedure:

1. In Firefox Browser
2. Click on Tools
3. Click on Options
4. Click on Privacy Icon
5. Uncheck Remember search and form history checkbox
6. Hit OK

**Audit:**

Perform the following procedure:

1. Close Firefox browser and run the following command:

```
findstr /isl /a:6 "browser.formfill.enable"  
"%APPDATA%\Mozilla\Firefox\Profiles\*prefs.js"
```

This will return:

```
user_pref("browser.formfill.enable ", false);
```

Zero (0) is an indication that no download history is retained for the current profile. Repeat the audit steps above for each profile of interest, using an account with appropriate privileges for accessing profiles needed.

**Note:** This option should be considered Level I for shared computing resources.

### 2.7.7 Block Pop-up Windows (Level I, Scorable)

**Description:**

The Pop-up Blocker is used to block Pop-ups which a website might open with or without any user interaction. These Pop-Ups can be used to open un-trusted malicious content. It is recommended to enable blocking of pop-up windows.

**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 procedure:

1. In Firefox Browser
2. Click on Tools
3. Click on Options
4. Click on Content icon
5. Select Block pop-up windows
6. Click on Exceptions
7. Click on Remove all Sites
8. Click Close
9. Hit OK

**Audit:**

Perform the following procedure:

1. Close Firefox browser and run the following command:

```
findstr /isl /a:6 "privacy.popups.policy"  
"%APPDATA%\Mozilla\Firefox\Profiles\*prefs.js"
```

This will result in no output if the browser is configured as recommended for the current profile. Repeat the audit steps above for each profile of interest, using an account with appropriate privileges for accessing profiles needed.

### 2.7.8 Clear SSL Form Session Data (Level II, Scorable)

**Description:**

This will ensure that the form data stored in an SSL Secure session is cleared when the session ends. It is recommended to enable clearing of SSL form session data.

**Rationale:**

If Firefox 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 procedure:

1. Type `about:config` in the address bar
2. Type `privacy` in the filter
3. Set the preference listed with the values specified below

```
browser.sessionstore.privacy_level=1
```

**Audit:**

Perform the following procedure:

1. Close Firefox browser and run the following command:

```
findstr /isl /a:6 "browser.sessionstore.privacy_level"  
"%APPDATA%\Mozilla\Firefox\Profiles\*prefs.js"
```

This will not return anything if Firefox is configured correctly for the current profile. Repeat the audit steps above for each profile of interest, using an account with appropriate privileges for accessing profiles needed.

**Note:** This option should be considered Level I for shared computing resources.

## 2.8 Applications Settings

This section will discuss how to secure applications which can be installed.

**Note:** Some Add-ons such as NoScript and Flashblock can be installed to provide additional protection to the end user. [1]

### 2.8.1 Secure Application Plug-ins (Level I, Not Scorable)

**Description:**

Some active content such as audio and video can be automatically loaded by Firefox on websites. It is recommended to secure application plug-ins.

**Rationale:**

Some malicious websites can have active content to exploit vulnerabilities in active content handling application plug-in. It is recommended as a defense-in-depth to always prompt when a website is about to load active content which is not trusted.

**Remediation:**

Perform the following procedure:

1. In Firefox Browser
2. Click on `Tools`
3. Click on `Options`
4. Click on `Application icon`
5. Select all Content Types listed which are not trusted, and in the `Action` select `Always ask` in the drop down
6. Hit `OK`

**Audit:**

Perform the following procedure:

1. In Firefox Browser
2. Click on `Tools`
3. Click on `Options`
4. Click on `Application` icon
5. Check that all Content Types listed, which are not trusted, and in the `Action` verify that `Always ask` is selected in the drop down
6. Hit `OK`

## 2.9 Advanced JavaScript Settings:

This section will provide guidance on how to use advanced JavaScript settings to guard against certain attacks.

### 2.9.1 Disallow JavaScript s Ability to Hide the Status Bar (Level I, Scorable)

**Description:**

Status Bar shows the location of the content when a user visits a link or when content is being downloaded on a web page. It is recommended to disallow JavaScript s ability to hide status bar.

**Rationale:**

Some malicious websites can use JavaScript to hide the status bar so that a user cannot determine the location of the content for hyperlinks and downloads. It is recommended to disallow JavaScript from hiding the Status Bar.

**Remediation:**

Perform the following procedure:

- In Firefox Browser
- Click on `Tools`
- Click on `Options`
- Click on `Content Icon`
- Click on `Advanced` button next to `Enable JavaScript`
- Unselect `Hide Status bar` checkbox
- Hit `OK`

**Audit:**

Perform the following procedure:

1. Close Firefox browser and run the following command:

```
findstr /isl /a:6 "dom.disable_window_open_feature.status"  
"%APPDATA%\Mozilla\Firefox\Profiles\*prefs.js"
```

This will not return anything if Firefox is configured correctly for the current profile. Repeat the audit steps above for each profile of interest, using an account with appropriate privileges for accessing profiles needed.

### *2.9.2 Disallow JavaScript's Ability to Change the Status Bar Text (Level I, Scorable)*

#### **Description:**

Status Bar shows the location of the content when a user hovers of a hyperlink, a user visits a link, or when content is being downloaded on a web page. It is recommended to disallow JavaScript's ability to change the status bar text.

#### **Rationale:**

Some malicious websites can use JavaScript to manipulate the text on the status bar so that a user cannot determine the actual location of the content for hyperlinks and downloads. It is recommended to disallow JavaScript from changing the text on the Status Bar.

#### **Remediation:**

Perform the following procedure:

1. In Firefox Browser
2. Click on `Tools`
3. Click on `Options`
4. Click on `Content Icon`
5. Click on `Advanced` button next to `Enable JavaScript`
6. Unselect `Change Status bar text` checkbox
7. Click `OK`

#### **Audit:**

Perform the following procedure:

1. Close Firefox browser and run the following command:

```
findstr /isl /a:6 " dom.disable_window_status_change"
"%APPDATA%\Mozilla\Firefox\Profiles\*prefs.js"
```

This will not return anything if Firefox is configured correctly for the current profile. Repeat the audit steps above for each profile of interest, using an account with appropriate privileges for accessing profiles needed.

### 2.9.3 Enable Warning When Entering Insecure Site (Level I, Scorable)

**Description:**

Firefox can notify users when a user enters an insecure (non-SSL) site from an encrypted SSL site. It is recommended to enable warning when entering an insecure site.

**Rationale:**

The recommended state will ensure the user is aware that the confidentiality of the information they are sending in the given Firefox tab or window is no longer protected.

**Remediation:**

Perform the following procedure:

1. Type `about:config` in the address bar
2. Type `Security` in the filter
3. Set the preference listed with the values specified below

```
security.warn_entering_weak=true
```

**Audit:**

Perform the following procedure:

1. Close Firefox browser and run the following command:

```
findstr /isl /a:6 "security.warn_entering_weak"  
"%APPDATA%\Mozilla\Firefox\Profiles\*prefs.js"
```

This will not return any results if Firefox is configured correctly for the current profile. Repeat the audit steps above for each profile of interest, using an account with appropriate privileges for accessing profiles needed.

### 2.9.4 Enable Warning When Submitting Clear Text Form Data (Level I, Scorable)

**Description:**

Firefox can notify users when a user sends form data to an insecure (non-SSL) site. It is recommended to enable warning when submitting clear text form data.

**Rationale:**

This will protect users from sending clear text data to website which can be sensitive in nature.

**Remediation:**

Perform the following procedure:

1. Type `about:config` in the address bar
2. Type `Security` in the filter
3. Set the preference listed with the values specified below



```
security.warn_submit_insecure=true
```

**Audit:**

Perform the following procedure:

1. Close Firefox browser and run the following command:

```
findstr /isl /a:6 "security.warn_submit_insecure"  
"%APPDATA%\Mozilla\Firefox\Profiles\*prefs.js"
```

This will not return any results if Firefox is configured correctly for the current profile. Repeat the audit steps above for each profile of interest, using an account with appropriate privileges for accessing profiles needed.

### *2.9.5 Disable Scripting of Plugins by JavaScript (Level I, Scorable)*

**Description:**

Javascript can initiate and interact with the Plug-ins installed in Firefox. It is recommended to disable scripting of plugins using JavaScript.

**Rationale:**

This will protect users from malicious scripts exploiting vulnerabilities in different Plug-ins or abuse the features.

**Remediation:**

Perform the following procedure:

1. Type `about:config` in the address bar
2. Type `Security` in the filter
3. Set the preference listed with the values specified below

```
security.xpconnect.plugin.unrestricted=false
```

**Audit:**

Perform the following procedure:

1. Close Firefox browser and run the following command:

```
findstr /isl /a:6 "security.xpconnect.plugin.unrestricted"  
"%APPDATA%\Mozilla\Firefox\Profiles\*prefs.js"
```

This will return the following results if Firefox is configured correctly for the current profile.

```
prefs.js:user_pref("security.xpconnect.plugin.unrestricted", false);
```

Repeat the audit steps above for each profile of interest, using an account with appropriate privileges for accessing profiles needed.

### 2.9.6 Enable Auto Notification of Outdated Plugins (Level I, Scorable)

**Description:**

This feature automatically detects when installed Plugins are out of date and notifies the users to update the Plugins. It is recommended to enable auto notification of outdated plugins.

**Rationale:**

Outdated Plugins can be vulnerable or unstable which can be exploited by malicious websites. It is recommended to enable this feature so that users are notified and directed to update plugins.

**Remediation:**

Perform the following procedure:

1. Type `about:config` in the address bar
2. Type `plugins.update` in the filter
3. Set the preference listed with the values specified below

```
plugins.update.notifyUser=true
```

**Audit:**

Perform the following procedure:

1. Close Firefox browser and run the following command:

```
findstr /isl /a:6 "plugins.update.notifyUser"  
"%APPDATA%\Mozilla\Firefox\Profiles\*prefs.js"
```

This will not return any results if Firefox is configured correctly for the current profile. Repeat the audit steps above for each profile of interest, using an account with appropriate privileges for accessing profiles needed.

### 2.9.7 Enable Information Bar for Outdated Plugins (Level I, Scorable)

**Description:**

This feature automatically shows an information bar when installed Plugins are out of date and notifies the users to update the Plugins. It is recommended to enable information bar for outdated plugins.

**Rationale:**

Outdated Plugins can be vulnerable or unstable which can be exploited by malicious websites. It is recommended to enable this feature so that users are notified and directed to update Plugins.

**Remediation:**

Perform the following procedure:

1. Type `about:config` in the address bar

2. Type `plugins.hide` in the filter
3. Set the preference listed with the values specified below

```
plugins.hide_infobar_for_outdated_plugin=false
```

**Audit:**

Perform the following procedure:

1. Close Firefox browser and run the following command:

```
findstr /isl /a:6 "plugins.hide_infobar_for_outdated_plugin"  
"%APPDATA%\Mozilla\Firefox\Profiles\*prefs.js"
```

This will not return any results if Firefox is configured correctly for the current profile. Repeat the audit steps above for each profile of interest, using an account with appropriate privileges for accessing profiles needed.

## Appendix A: References

Resource	Location
[1]. NoScript and Flashblock	<a href="https://addons.mozilla.org/en-US/firefox/browse/type:1/cat:12">https://addons.mozilla.org/en-US/firefox/browse/type:1/cat:12</a>

## Appendix B: Change History

Date	Version	Changes for this version
January 7, 2010	1.0.0	Public Release
November 15, 2010	1.1.0	<ul style="list-style-type: none"><li>• Updated to cover FF 3.6.12</li><li>• Updated all Audit steps to inspect <code>prefs.js</code> instead of any file under the <code>Profiles</code> directory</li><li>• Fixed audit/remediation for Disable Scripting of Plugins by JavaScript</li><li>• Fixed non substantive typos and formatting issues</li></ul>