



## Enterprise – SSL Setup Guide

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Checkbox Survey SSL Setup Guide For Enterprise	
<b>Owner</b>	Checkbox Survey, Inc.
<b>Author</b>	Checkbox Support
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# 1 Introduction

This guide will walk you through how to set up Checkbox 6 so that it can support secure connections (HTTPS). Checkbox requires that you have already configured the SSL certificate in IIS and added a secure binding to the application. If you need more assistance on how to do this please read through the instructions here:

<http://msdn.microsoft.com/en-us/library/ms751408.aspx>

# 2 Before you Begin

In order to configure Checkbox to use SSL you will need access to the web server that Checkbox is installed on, as well as a valid SSL certificate. If you do not have a valid certificate that the application may not function properly.

Please make sure that your Checkbox application works without any issue using a non-secure connection (HTTP) before attempting to follow the instructions in this guide. Here are some simple tests that you will want to complete before starting this guide:

Create a survey

Take a survey and complete the response

Run a report on your survey

Testing to make sure that these features work properly before enabling SSL will ensure that the application was successfully installed, and that your Checkbox 6 application is running correctly. Before changing any files please make sure that you back up your files so that you can revert if any issues arise.

Before we get onto the actual instructions on how to configure for SSL you will need to decide how you want the application to function. At the time of 6.6 release Checkbox supports the following options:

3.1 Checkbox should allow both HTTP and HTTPS traffic

3.2 Checkbox should require HTTPs traffic via a setting in IIS

3.3 Checkbox should redirect all incoming HTTP traffic to HTTPS

Please note that SSL offloading is not supported without an enterprise license. This means that in order to utilize SSL you will need to have the SSL certificate on your web server.

## 3 Instructions

Please follow only one option below. If you attempt to follow all options your application will not operate correctly.

### 3.1 Checkbox should allow HTTP and HTTPS traffic

#### 3.1.1 Open the web.config file

This file should be located at the root of the Checkbox website

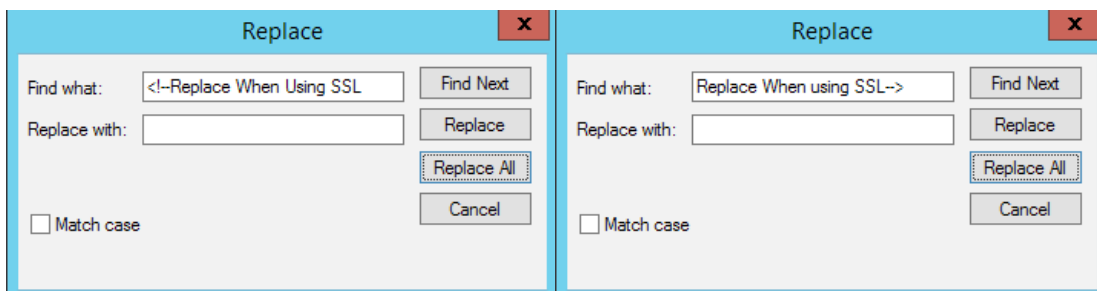
#### 3.1.2 Find and replace SSL tags

Checkbox is built on a set of WCF web services. In order to enable these services to allow for HTTPs traffic you will have to execute a Find and Replace to locate the following two lines and then replace all with a blank space. Please make sure that you do a Find and Replace, and then click Replace All. If you simply remove the text manually your installation will not function properly.

Find and replace the following with blank spaces. Note that there are two lines to replace.

`<!--Replace When Using SSL`

`Replace When using SSL-->`



### 3.1.3 Optional: Use SSL for Images and Survey Links

When using SSL you have the option to have all survey links and all images in the application to default to HTTPS. In order to do this you will need to locate the ApplicationURL setting in your web.config file and modify it so that it reads [https://\[ApplicationURL\]](https://[ApplicationURL]) instead of [http://\[ApplicationURL\]](http://[ApplicationURL]) for this step please make sure that you manually change this in the one place shown below. DO NOT do a find and replace for this value.

```
<!-- Base URL for Checkbox Installation -->  
<add key="ApplicationURL" value="http://localhost" />
```

Should be changed to:

```
<!-- Base URL for Checkbox Installation -->  
<add key="ApplicationURL" value="https://localhost" />
```

If you chose this option to configure SSL please stop reading this guide now and test your application.

## 3.2 Site should require HTTPS traffic via a setting IIS

### 3.2.1 Enable the Require SSL setting in IIS



#### SSL Settings

This page lets you modify the SSL settings for the content of a website or application.

☒ Require SSL

### 3.2.2 Open the web.config file

This file should be located at the root of the Checkbox website

### 3.2.3 Find and replace SSL tags

Checkbox is built on a set of WCF web services. In order to enable these services to allow for HTTPs traffic you will have to execute a Find and Replace to locate the following four lines and then replace all with a blank space. Please make sure that you do a Find and Replace, and then click Replace All. If you simply remove the text manually your installation will not function properly.

Find and replace the following with blank spaces. Note that there are four lines to replace.

<!--Replace When Using SSL

Replace When using SSL-->

<!--Replace When Requiring SSL

Replace When Requiring SSL-->

The image displays four sequential screenshots of the 'Replace' dialog box, arranged in a 2x2 grid. Each dialog box has a title bar with the word 'Replace' and a close button (X). The dialog boxes are used to find and replace specific text in a document.

- Top Left:** The 'Find what:' field contains '<!--Replace When Using SSL'. The 'Replace with:' field is empty. The 'Match case' checkbox is unchecked. The 'Replace All' button is highlighted with a dashed border.
- Top Right:** The 'Find what:' field contains 'Replace When using SSL-->'. The 'Replace with:' field is empty. The 'Match case' checkbox is unchecked. The 'Replace All' button is highlighted with a dashed border.
- Bottom Left:** The 'Find what:' field contains 'Replace When Requiring SSL-->'. The 'Replace with:' field is empty. The 'Match case' checkbox is unchecked. The 'Replace All' button is highlighted with a dashed border.
- Bottom Right:** The 'Find what:' field contains '<!--Replace When Requiring SSL'. The 'Replace with:' field is empty. The 'Match case' checkbox is unchecked. The 'Replace All' button is highlighted with a dashed border.

### 3.2.4 Change Application URL to HTTPS instead of HTTP

If you are requiring that all traffic in your site use SSL you will have to modify the ApplicationURL setting in the web.config file to use HTTPS instead of HTTP. This will ensure that all files in your installation use this value and will load properly.

In order to do this you will need to locate the ApplicationURL setting in your web.config file and modify it so that it reads [https://\[ApplicationURL\]](https://[ApplicationURL]) instead of [http://\[ApplicationURL\]](http://[ApplicationURL]) for this step please make sure that you manually change this in the one place shown below. DO NOT do a find and replace for this value.

```
<!-- Base URL for Checkbox Installation -->  
<add key="ApplicationURL" value="http://localhost" />
```

Should be changed to:

```
<!-- Base URL for Checkbox Installation -->  
<add key="ApplicationURL" value="https://localhost" />
```

If you chose this option to configure SSL please stop reading this guide now and test your application.

## 3.3 Checkbox should redirect all HTTP traffic to HTTPS

With Checkbox 6 System Administrators have the option of redirecting all incoming HTTP traffic to HTTPS via a setting in the application? In order to use this setting you need to configure the application files for SSL as well as apply a setting in the application itself.

### 3.3.1 Open the web.config file

This file should be located at the root of the Checkbox website

### 3.3.2 Find and replace SSL tags

Checkbox is built on a set of WCF web services. In order to enable these services to allow for HTTPs traffic you will have to execute a Find and Replace to locate the following four lines and then replace all with a blank space. Please make sure that you do a Find and Replace, and then click Replace All. If you simply remove the text manually your installation will not function properly.

Find and replace the following with blank spaces. Note that there are four lines to replace.

<!--Replace When Using SSL

Replace When using SSL-->

<!--Replace When Requiring SSL

Replace When Requiring SSL-->

The image displays four sequential screenshots of the 'Replace' dialog box, arranged in a 2x2 grid. Each dialog box has a title bar with a red 'X' icon. The 'Find what' field is pre-filled with the text to be replaced, and the 'Replace with' field is empty. The 'Match case' checkbox is unchecked. The 'Replace All' button is highlighted in each screenshot.

- Top-left dialog:** 'Find what' is '<!--Replace When Using SSL'. Buttons: Find Next, Replace, Replace All, Cancel.
- Top-right dialog:** 'Find what' is 'Replace When using SSL-->'. Buttons: Find Next, Replace, Replace All, Cancel.
- Bottom-left dialog:** 'Find what' is 'Replace When Requiring SSL-->'. Buttons: Find Next, Replace, Replace All, Cancel.
- Bottom-right dialog:** 'Find what' is '<!--Replace When Requiring SSL'. Buttons: Find Next, Replace, Replace All, Cancel.

### 3.3.3 Change Application URL to HTTPS instead of HTTP

If you are requiring that all traffic in your site use SSL you will have to modify the ApplicationURL setting in the web.config file to use HTTPS instead of HTTP. This will ensure that all files in your installation use this value and will load properly.

In order to do this you will need to locate the ApplicationURL setting in your web.config file and modify it so that it reads [https://\[ApplicationURL\]](https://[ApplicationURL]) instead of [http://\[ApplicationURL\]](http://[ApplicationURL]) for this step please make sure that you manually change this in the one place shown below. DO NOT do a find and replace for this value.

```
<!-- Base URL for Checkbox Installation -->  
<add key="ApplicationURL" value="http://localhost" />
```

Should be changed to:

```
<!-- Base URL for Checkbox Installation -->  
<add key="ApplicationURL" value="https://localhost" />
```

### 3.3.4 Apply “Forward all HTTP requests to HTTPS” setting

In order to apply this setting you will need to log into the Checkbox application as a System Administrator user using a secured connection (HTTPS). If you do not utilize a secured connection to log into the application you will not be able to change the setting.

Click on the cogwheel in the top right hand corner of the application

Press System Settings and then Security

Locate the setting “Forward all HTTP requests to HTTPS”

Check the box to enable the setting, and then click save

If the application will not allow you to change the setting please ensure that you have followed the above instructions correctly.

If you chose this option to configure SSL please stop reading this guide now and test your application.



## 3.4 SSL OFFLOADING

If you would like to use SSL Offloading, you will need to follow the instructions below:

### 3.4.1 Open the web.config file

In order to enable SSL properly within the Checkbox application, you will need to modify the web.config file for Checkbox. This file is located at the root of the Checkbox Website.

### 3.4.2 Change Application URL to HTTPSs instead of HTTP

In order to do this you will need to locate the ApplicationURL setting in your web.config and modify it so it reads [https://\[ApplicationURL\]](https://[ApplicationURL]) instead of [http://\[ApplicationURL\]](http://[ApplicationURL])

```
<!-- Base URL for Checkbox Installation -->
<add key="ApplicationURL" value="https://localhost" />
```

### 3.4.3 Modify the "EnableSslOffloading" setting and set it to true.

In order to do this you will need to locate the EnableSslOffloading setting in your web.config and modify it so that it reads true instead of false.

```
<!-- SSL offloading -->
<add key="EnableSslOffloading" value="false" />
```