

Reflection for the Web

Evaluation Guide

13.2

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Evaluating Reflection for the Web 13.2

This guide provides a step-by-step path to evaluate Reflection for the Web version 13.2.

This version expands the use of the Reflection for the Web Launcher for **both** administrators and end users, thereby eliminating the need for Oracle's Java Runtime Environment (JRE), the Java plug-in, or the Netscape PlugIn API (NPAPI).

In this guide:

[Introduction](#)

[Evaluation Scenario](#)

[Configuration Steps](#)

[Resources](#)

[When you finish evaluating](#)

1 Introduction

Reflection for the Web is a separate web application that uses **Host Access Management and Security Server (MSS)** to create, configure, and centrally manage secure web-based sessions to a variety of hosts.

Reflection for the Web 13.2 includes *and requires* Management and Security Server 12.8.

What's New

Reflection for the Web 13.2 includes these new and updated features.

- ◆ Expanded the use of **Reflection for the Web Launcher** to administrators as well as end users. The **Launcher** eliminates the need for Oracle's JRE or the Java browser plug-in, and can be used with any browser.
- ◆ When an individual session is launched directly using the **Reflection for the Web Launcher**, a second window may appear for authentication purposes. Once authentication succeeds, the second window is automatically hidden.
- ◆ Updated Management and Security Server (MSS) to version 12.8
- ◆ Updated Apache Tomcat to v9.0.39
- ◆ Added support for TLS 1.3
- ◆ Updated Bouncy Castle libraries

For further details, see the [Release Notes](#).

Before you begin

This guide is written for the administrator who wishes to evaluate the **Reflection for the Web Launcher** and other features in Reflection for the Web version 13.2.

In the [Evaluation Scenario](#), note the company requirements and how Reflection for the Web Launcher can be used to meet them. Then follow the [Configuration Steps](#).

You may want to refer to these resources while evaluating Reflection for the Web:

- ◆ [Support Resources](#) (includes Knowledge Base articles)
- ◆ [Reflection for the Web Installation Guide](#)
- ◆ [Reflection for the Web Reference Guide](#) (includes scripting and HTML samples)

The basics: How Reflection for the Web works

Reflection for the Web provides user access to web-based terminal emulation sessions that connect to host applications located inside or outside of the firewall. Applets are downloaded to each user's workstation as needed and are cached locally for faster performance.

Briefly, here's how Reflection for the Web works:

1. An administrator installs **Reflection for the Web** on a web server and either installs or uses an existing installation of **Management and Security Server (MSS)**.
2. The administrator uses the MSS **Administrative Console** to create, configure, and secure terminal emulation sessions. Optional security settings can be configured on a per-session basis.
3. A user clicks a link to start a terminal session.
4. The Reflection for the Web emulation applet is downloaded to the user's workstation and is cached locally.
5. The user connects to and communicates with the host system using the downloaded emulation applet.
6. When the session is closed (**Save/Exit**), settings are sent to the Management and Security Server.

Related topics

- ◆ [Evaluation Scenario](#)

2 Evaluation Scenario

This scenario provides some context for using the Reflection for the Web Launcher and other features in Reflection for the Web 13.2.

The Evaluation Scenario

As an administrator, you are in charge of setting up **Reflection for the Web** to deploy secure sessions to mainframe applications via the web. You've been tasked with meeting the company requirements.

Company requirements

Your organization wants to:

- ◆ Eliminate the need for Oracle's JRE and/or the Java browser plug-in.
- ◆ Ensure the end-user experience is not disrupted by the change.

To meet these requirements

You can meet the company requirements by using the **Reflection for the Web Launcher** in Reflection for the Web 13.2.

- ◆ The **Reflection for the Web Launcher** enables administrators to create and edit Reflection for the Web sessions that users can launch — without the need for Oracle's JRE or the Java browser plug-in.
- ◆ Users can launch a Reflection for the Web session by clicking a link in their **Assigned Sessions** list.

To evaluate the Reflection for the Web Launcher, you will

- ◆ Install **Reflection for the Web 13.2** (and **MSS 12.8**).
- ◆ Download and install the **Reflection for the Web Launcher** on the administrator workstation.
- ◆ Create, launch, and configure a Reflection for the Web session.
- ◆ Assign and deploy the session to a subset of users.
- ◆ Distribute the **Reflection for the Web Launcher** to those users.
- ◆ Test the user experience.

Continue with the [Configuration Steps](#).

Our assumptions

- ◆ User workstations do not have the Java plug-in.
- ◆ User workstations have the company's browser of choice.

Related topics

- ◆ [Configuration Steps](#)

3 Configuration Steps

Follow these steps to evaluate Reflection for the Web 13.2 and the [Reflection for the Web Launcher](#).

- ♦ [Step 1. Obtain and install the evaluation software](#)
- ♦ [Step 2. Open the MSS Administrative Console](#)
- ♦ [Step 3. Download and install the Launcher to the administrator's workstation](#)
- ♦ [Step 4. Create and launch a Reflection for the Web session](#)
- ♦ [Step 5. Configure the session settings](#)
- ♦ [Step 6. Assign and deploy the session](#)
- ♦ [Step 7. Distribute the Reflection for the Web Launcher](#)
- ♦ [Step 8. Test the user experience](#)
- ♦ [Optional: Evaluate additional features](#)

Step 1. Obtain and install the evaluation software

For this evaluation, you will use the automated installer to install Reflection for the Web on a Microsoft Windows platform.

For testing, you can install all of the components on a single machine. For production, however, components can be installed on different machines.

- ♦ [System Requirements](#)
- ♦ [Obtain the evaluation software](#)
- ♦ [Install the Reflection for the Web evaluation software](#)

System Requirements

For this evaluation, Reflection for the Web (and the MSS server) will be installed on the administrator's workstation. Check the requirements for both the administrator and the client workstations.

Note: For production, a server-class system is required. See the [Reflection for the Web Installation Guide](#) for detailed requirements.

Administrator's workstation

Because the MSS server will be installed on the administrator's workstation, the requirements for evaluating Reflection for the Web 13.2 include some server requirements.

- ♦ Microsoft Windows 64-bit machine. The automated installer installs the most recent security release of a private OpenJDK (non-Oracle) JRE 1.8.0_<nnn>.

- ♦ The administrator can use *any browser* to configure and manage Reflection for the Web sessions in the **MSS Administrative Console**.
- ♦ No previous installation of Reflection for the Web on the machine (for this evaluation).

Client workstations

The client requirements are based on the installation of Reflection for the Web Launcher:

- ♦ 64-bit Microsoft Windows
- ♦ **Reflection for the Web Launcher** is installed on every workstation.
Sessions display in separate windows and are independent of the browser.
- ♦ *Any browser* can be used to launch sessions.

Compatibility Requirements

Reflection for the Web version 13.2 includes and requires **Management and Security Server 12.8**.

While the two products are installed independently, the Reflection for the Web automated installer provides the option to install both products — Reflection for the Web and a compatible version of Management and Security Server. Follow the prompts during installation.

For details about installing or using **Management and Security Server**, refer to the [MSS 12.8 Documentation](#).

Obtain the evaluation software

- 1 Log in as administrator to the Windows machine that you are using for your evaluation.
- 2 Open the [Reflection for the Web Product Inquiry](#) page.
- 3 Enter “Free Trial” in the text box, along with the required information. Click **Submit**.
- 4 In the email message from Micro Focus, click **Download here**.
- 5 For this evaluation scenario, click the line for **Reflection for the Web - Windows 64-bit**, and then click **Download**.
- 6 Save and extract the zip file: `rweb-13.2.<nnn>-eval-all_platforms.zip`

Install the Reflection for the Web evaluation software

For simplicity while evaluating, install all of the components onto the same machine. For assistance along the way, see the [Reflection for the Web Installation Guide](#).

- 1 In your download location, open the `rweb-13.2.<nnn>-eval-all_platforms` folder.
- 2 In the `install_automated` folder, you will see an `mss` folder, an activation file, and the automated installer file.
- 3 Double-click `rweb-13.2.<nnn>-eval-wx64.exe` to start the installation. Follow the prompts.
- 4 Choose **Install MSS** and continue. This option installs MSS on the same machine.

Micro Focus Host Access Management and Security Server is required

Host Access Management and Security Server (MSS) is required for use with Reflection for the Web.

An installation of MSS was not found on this system.

Select from one of the available options below.

Install MSS

Use remotely hosted MSS

Note: The other options refer to an existing installation of MSS in another location.

- 5 Click **Next**. The installer proceeds to install MSS — before Reflection for the Web is installed. Continue through the installation dialogs, accepting the defaults.
- 6 For this first-time installation, select **Run Initial Configuration Utility** to configure the installed MSS components.

Component Configuration

Configure the installed components for use.

If you are upgrading from an earlier release, run the Configuration Upgrade Utility to migrate data files and preserve the existing configuration. If you are not upgrading, or wish to start with a clean configuration, run the Initial Configuration Utility to configure the Management and Security Server components before your first use.

Please do not exit this installer while a configuration utility is running.

Run Initial Configuration Utility

Run Configuration Upgrade Utility

- ◆ Proceed through the utility, accepting the defaults.
 - ◆ Enter your **VPA** and **organization** information, if known; otherwise, leave them blank.
 - ◆ For the **administrative password**, enter `admin`.
 - ◆ When the changes are applied, click **Done**.
- 7 Click **Next** to **Start server components now**.
 - 8 When the MSS installation is complete, click **Finish**. The MSS dialog closes and the focus returns to the Reflection for the Web installation.
.....
 - 9 Click **Next** to continue installing Reflection for the Web.
 - 10 When prompted to restart the MSS server, click **Next**.
 - 11 When installation is complete, click **Finish**.

Next: [Step 2. Open the MSS Administrative Console](#)

Step 2. Open the MSS Administrative Console

You need to open the **MSS Administrative Console** to create, configure, and manage your **Reflection for the Web** sessions.

- 1 On the Windows machine where Reflection for the Web is installed, use any browser and click **Start > Micro Focus Host Access Management and Security Server > Administrative Server**.
Note: Reflection for the Web is not listed separately in the Windows Start menu.
- 2 Enter your administrator login. (The MSS Administrative Console is password-protected to allow for remote administration and access by other administrators.)
- 3 The **Manage Sessions** panel opens.

NOTE: You can also open the MSS Administrative Console from a URL, such as `<servername.company>.com:<port>/adminconsole/`.

Next: [Step 3. Download and install the Launcher to the administrator's workstation](#)

Step 3. Download and install the Launcher to the administrator's workstation

As the administrator, you can download and install the Reflection for the Web Launcher when you add a session.

Once the Launcher is installed, you can launch the session, configure it, and assign it to users. When a user clicks the session link that you distributed, they can download and install the Reflection for the Web Launcher and open the session.

In MSS, add a Reflection for the Web session and follow the prompts to download the Reflection for the Web Launcher Installer.

- 1 On the **Manage Sessions** panel, click **+ ADD**.
- 2 Select your **Product** — **Reflection for the Web**.
- 3 Select the **Session type**. For this evaluation, use **IBM 3270**.
- 4 Enter a unique **Session name** that does not exceed 64 characters, such as `eval3270`.
- 5 Click **DOWNLOAD** to download the Reflection for the Web Launcher, packaged as `RWebLauncher.msi`. When prompted, click **Save File**.
- 6 From your Downloads location, click and open `RWebLauncher.msi`.
Proceed through the RWebLauncher Setup wizard and click **Finish**.

At this point, the Reflection for the Web Launcher is installed, and you are able to add and launch sessions.

Unfortunately, the session you began adding above was not saved and you need to return to Manage Sessions to repeat the steps to add the session.

Next: [Step 4. Create and launch a Reflection for the Web session](#).

Step 4. Create and launch a Reflection for the Web session

Now that the Reflection for the Web Launcher is installed, you can add a session, launch it, and save the settings.

- 1 Return to **Manage Sessions**. Click **+ ADD**.
- 2 Select your **Product -- Reflection for the Web**.
- 3 Select **IBM 3270** as the **Session type**.
- 4 Enter a unique **Session name** that does not exceed 64 characters, such as `eva13270`.
- 5 Try the **Comments** option to enter an internal note about this session. Comments are displayed in the **Manage Sessions** list and are seen only by administrators. You might enter "eval."
- 6 If you'd like to evaluate the session's **Appearance**, use of **FTP**, or the **Advanced Settings**, refer to the MSS Help: [Add a Session > Reflection for the Web](#).
- 7 Click **LAUNCH**.
- 8 If you see the prompt to launch the session using **Zulu Platform x32 Architecture**, click **Open Link**. Next time, you could check "Remember my choice."
- 9 The session opens in a separate window.
- 10 To test the connection to the mainframe, enter the name of your host computer and click **OK**. Or, you can click **Cancel**. You do not need to be connected to configure the session.
- 11 Be sure to [Save the session](#) so the settings are sent to and saved by the MSS Administrative Server.

Next: [Step 5. Configure the session settings](#)

Step 5. Configure the session settings

After you launch the session, configure some basic **Profiling** settings. You do not need to be connected to the host to configure settings.

NOTE: This evaluation focuses on deploying the **Reflection for the Web Launcher**, rather than configuring terminal session settings. To configure more emulation settings now or later, see [Session \(Client\) Features](#).

Profiling

When you log on as an **administrator** and launch a session from the Administrative Console, all of the menu options are visible and enabled. The end users, however, can access only the menu options that are selected in the **Profiler**.

Use the Reflection for the Web **Profiler** to restrict access to entire menus, dialog boxes, toolbars, or to specific items within them. You can accept the defaults or experiment with different settings.

- 1 In the session you just created and launched, click **Administration > User Interface Profiler**.
- 2 Select the **Profile type** for your end users. The default is **Basic**.

Click the different Profile types to see what is enabled or restricted on the **Menu profiling** tab. For instance, the **Basic** Profile type restricts the **Macro** and **Administration** menus in the user interface

- 3 Then, look at the **Dialog box profiling** and **Toolbar profiling** options that can be locked (or unlocked) for this profile. Click **OK**.

Click **Help** for more information.

Save the session

When you finish configuring the emulation features, save the session by clicking **File > Save and Exit** (and **Save/Exit**, if prompted).

This `eva13270` session is then added to the **Manage Sessions** list in the MSS Administrative Console, viewable by administrators.

Now that you created and configured a terminal session, you are ready to assign and deploy the session to end users. *Note:* End users cannot access a session until the session is assigned and deployed to them.

Next: [Step 6. Assign and deploy the session](#)

Step 6. Assign and deploy the session

Use **Assign Access** to give authorized users access to specific sessions, which will then appear on their list of **Assigned Sessions**.

- 1 In the MSS Administrative Console, click **Assign Access**.
- 2 If LDAP authorization is enabled, you can **Search** for a particular user or group.
For this evaluation, you may want to choose a small subset of users.
Otherwise, **All users in the selected domain** will be given access to each session you assign. See **Help** for more information.
- 3 With the user or group selected, check the session you just created, `eva13270`, in the **Sessions** list.
- 4 Click **Apply**.
- 5 In the MSS Administrative Console, click **Currently Assigned** to see that `eva13270` is assigned to All Users.
- 6 In the **Manage Sessions** list, click the session name to see the direct URL for the session.
- 7 Deploy the session and—the Reflection for the Web Launcher—by choosing a distribution option.

Next: [Step 7. Distribute the Reflection for the Web Launcher](#)

Step 7. Distribute the Reflection for the Web Launcher

The Reflection for the Web Launcher is installed on the administrator's machine (Step 3), and now you need to distribute the **Reflection for the Web Launcher Installer** to users' workstations. The users need the Launcher to launch their assigned Reflection for the Web sessions.

Distributing the installer

The Reflection for the Web Launcher Installer, packaged as `RWebLauncher.msi`, can be distributed either by using a software system, such as Microsoft Group Policies, or by enabling individual downloads.

NOTE: With either method, be sure to apply the security updates as they become available.

For reference, the Reflection for the Web Launcher Installer, packaged as `RWebLauncher.msi`, can be accessed from the MSS server: `MSS\server\web\webapps\rweb-client\ex\RWebLauncher.msi`.

For this evaluation, users will have the ability to download and install the Reflection for the Web Launcher Installer when they attempt to launch a session from their Assigned Sessions list.

Deploying the Assigned Sessions list and Reflection for the Web Launcher

After you assign sessions to users (Step 6), you need to distribute the link so an authorized user can access their **Assigned Sessions** list and attempt to launch a Reflection for the Web session directly.

When a user clicks a session link—before the Reflection for the Web Launcher is installed—they will be prompted to download and install the Launcher.

- 1 Provide each user with this link to their **Assigned Sessions** list:

`http://hostname[:port]/sessions`, where `<hostname>` is the name of the host where **MSS** is installed.

The list contains the sessions that were assigned to that authorized user.

- 2 The user clicks a link to launch a Reflection for the Web session.

When a Reflection for the Web session is launched, a transient dialog appears that provides the user with the ability to download the MSI installer directly. The dialog is automatically dismissed after a few seconds.

- 3 After the Reflection for the Web Launcher is installed, sessions launch directly. The Download button can be ignored.

Next: [Step 8. Test the user experience](#)

Step 8. Test the user experience

After you complete the [Configuration Steps](#) for the evaluation scenario, you can test the user experience.

- 1 Log on as an authenticated user, and launch a web browser (any vendor).
- 2 In the address bar, enter `http://hostname[:port]/sessions`, where `<hostname>` is the name of the host where MSS is installed.

This URL is the link that was deployed to your users to open the Assigned Sessions list (Step 7).

- 3 If Reflection for the Web Launcher is not installed, the user will see a link to **DOWNLOAD** and install the Reflection for the Web Launcher Installer (`RWebLauncher.msi`).
- 4 When the **Reflection for the Web Launcher** is installed, users can click the link in their list of **Assigned Sessions** to open their session.

The test succeeds when the user launches the session.

Company goals are met

A successful test means that you met the company requirements for this evaluation:

- ♦ *Eliminate the use of Oracle's JRE and/or the Java plug-in on the administrator and user workstations.*

This need is met by the **Reflection for the Web Launcher**, which installs an OpenJDK 8 JRE with Web Start (JNLP) to launch Reflection for the Web sessions.

- ♦ *Ensure the end-user experience is not disrupted.*

The users can access their sessions from a list, which is a familiar workflow.

[Optional: Evaluate additional features](#)

[.When you finish evaluating](#)

Optional: Evaluate additional features

In addition to the features you configured in the Evaluation Scenario, many other features can be configured on the server and the client. Consider these features.

- ♦ [Security options](#)
- ♦ [Customization](#)
- ♦ [Usage Metering](#)
- ♦ [Session \(Client\) Features](#)

Security options

In addition to [Assign Access](#) (used in Step 5), Reflection for the Web provides several options to secure user access to your host applications.

Access Control

Reflection for the Web supports many types of authentication. Each type is described in the Help topic: [Configure Settings > Authentication & Authorization](#).

Security Settings

In the Administrative Console, click [Configure Settings > General Security](#). You can set options for server access, passwords, smart card libraries, and cryptography settings. Click [Help](#) for information about the available options.

HTTPS and TLS

By default, Reflection for the Web enables web browsers to use the HTTP protocol to communicate between the client computer and the administrative server. Although HTTP is universally available to web browsers, it is not a secure protocol.

To secure the communication between the client and the web server, you can require web browsers to use the HTTPS protocol (which provides TLS/SSL encryption) when connecting to the Administrative Server. For more information, open the Administrative Console Help to [Technical References > Security Overview](#).

Cryptography Settings

Reflection for the Web provides support for TLS 1.2. For more information, see the [Technical References -- Security Overview](#) and [Using the Security Proxy](#). You can also search for other Help topics about using TLS.

Security Proxy Server (Optional)

The Security Proxy can be used to encrypt the data between the client and the Security Proxy. You can install the security proxy when you run the automated installer, and it can be installed on a different machine.

The Security Proxy is managed by Host Access Management and Security Server. For more information, see [Using the Security Proxy Server](#).

Customization

Earlier, when you created and configured your terminal session, you were able to make some preliminary customization choices.

Advanced Administration

Reflection for the Web includes a well-documented API and some advanced tools that make it easy to customize terminal sessions—even if you do not have Java or HTML programming experience.

Open the [Reflection for the Web Reference Guide](#) for information about using scripts, HTML code, and applet parameters with Reflection.

The following example demonstrates how you can customize the behavior of a terminal session by changing the parameters for a specific attribute.

Example: Using the Applets Parameter tool

- 1 In the Administrative Console, click **Manage Sessions**.
- 2 Click the Reflection for the Web session you created earlier, such as `eval3270`.
- 3 Scroll to the **Advanced Settings** section, and click **Applet Parameters**.
- 4 Click **+Add**, and open the drop-down **Parameter** menu.
- 5 For this evaluation, click `splash`.
- 6 For the **Value**, enter `false`. Click **Add**. The parameter is added to the list of current parameters.

NOTE: The [Reflection for the Web Reference Guide](#) includes this description of the **splash parameter**:

This parameter determines whether the Reflection splash screen is displayed while Reflection is loading. The splash screen includes a progress indicator, so if the splash screen is not displayed, the progress indicator is not visible.

- 7 Click **Save**. You are returned to the **Manage Sessions** panel.
- 8 To test the parameter, log in as a **User**, and launch the session.

Usage Metering

Usage metering can be used to audit and control access to both web-based and Windows-based sessions. You may want to install the metering server component if your site needs to carefully balance network and server loads.

For more information, see the [Metering](#) help topic in the MSS Administrative Console.

After Metering is configured, you can run Reports to view current and historical activity.

Session (Client) Features

In addition to the [Profiling](#) feature that you configured earlier, you can configure client-specific features.

Launch a Reflection for the Web session, and then configure your choice of features.

- ♦ [Display](#)
- ♦ [Keyboard Mapping](#)
- ♦ [Macro recording and editing](#)
- ♦ [Toolbar customization](#)

To try other features, refer to the product **Help**.

Display

To modify display features, in the terminal session, click **Setup**. Then click the menu item and follow the logical navigation, which varies among session types.

For example, to change foreground and background screen colors, click **Setup > Color**. Click **OK** or **Cancel** to return to the session.

Keyboard Mapping

To create a custom keyboard mapping, click **Setup > Keyboard**. Click the **Add** button and follow the directions in the dialog. Click **Help** for more details. Click **OK** or **Cancel** to return to the session.

Macro recording and editing

Reflection for the Web includes powerful macro recording and editing features that enable you to automate frequently performed tasks. The recorded macros and the macros you create use JavaScript as the automation language; if you already know JavaScript, the syntax of Reflection macros will be familiar.

Both administrators and end users (with permissions set by the Reflection for the Web profiler) can create macros. The macros that an administrator creates are delivered to all users when they access the terminal session, whereas the macros created by an end user are private to just that user.

To get started with macros, try recording a host logon macro:

- 1 In a terminal session, connect to your host computer, but do not log on yet.
- 2 From the **Macro** menu, select **Start Recording**.
- 3 Log on to the host as you usually do.
- 4 Once you are logged on to the host, click **Macro > Stop Recording**.
- 5 In the **Save Macro** dialog box, enter a name for the macro.
- 6 Configure other options (described in the online help), and then **click Save**.

The macro is saved as follows:

- ♦ If you record the macro while configuring the session in the Administrative Console, the macro will be saved to the Administrative Server after you save and exit the session.
- ♦ If you record the macro while running the session as an end user, the macro is saved locally as soon as you click **Save** in the **Save Macro** dialog box.

In addition to recording macros, you can edit macros and also write your own macros. See Knowledge Base Article [7022340](#).

Toolbar customization

Use the macro you created to log on to the host as described above:

- 1 In a launched session, click **Setup > Toolbar**. Drag the existing items to rearrange them.
- 2 Click the **Add** button. In the **Define Toolbar Item** dialog, add text (for example, *My Logon*).
- 3 Click **Select** to associate an **Action** with the new button.

For example, in the Define Action dialog box, open the **Action Type** menu and select **Execute Command**.

- 4 Scroll through the commands and select **Run Macro**.
 - 5 At the bottom of the dialog box, select your logon macro from the drop-down menu. Click **OK**.
 - 6 When you return to the **Define Toolbar Item** dialog box, **Choose** an icon for your new toolbar button.
 - 7 Click **OK** twice. Drag the icon to the toolbar. (You can rearrange the icons by dragging.)
 - 8 Click **OK**. Your new button is included in the Custom toolbar items.
-

Related topics

- ◆ [Resources](#)
- ◆ [When you finish evaluating](#)

4 Resources

For more information about **Reflection for the Web**, see these resources.

- ♦ [Technical Support Resources](#) — including Knowledge Base articles
 - ♦ [Reflection for the Web Documentation](#)
 - ♦ [Reflection for the Web Installation Guide](#)
 - ♦ [Reflection for the Web Reference Guide](#)
 - ♦ [MSS Administrator Guide \(online Help\)](#)
-

Related topics

- ♦ [Evaluation Scenario](#)
- ♦ [Configuration Steps](#)
- ♦ [When you finish evaluating](#)

5 When you finish evaluating

After you evaluate Reflection for the Web, [contact us](#) if you have questions or are ready to buy.

When you are ready to install and configure your licensed version of Reflection for the Web 13.2, consider these options *for production*.

- ◆ You can install the server components (Administrative Server, Security Proxy Server, Metering Server, and Terminal ID Management Server) on different servers.

To do so: When you install Reflection for the Web, select **Use an existing installation of Management and Security Server on a different machine**. (See the [Reflection for the Web Installation Guide](#).)

To install or upgrade the other server components on the machine where MSS is installed, run the MSS automated installer and select those components. (See the [MSS Installation Guide](#).)

- ◆ When LDAP authentication is enabled, use **Assign Access** to assign sessions to specific users or groups.

