Dimprivata[®]

Product Documentation

Auto-Launching Citrix XenApp Applications

Imprivata OneSign[®] 23.2 Imprivata Confirm ID[™] 23.2

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This document includes information about configuring Imprivata to auto-launch Citrix XenApp[®] applications and contains the following sections.

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Software Requirements

Review the following:

- Verify that the Citrix XenApp environment is functioning normally, independent of Imprivata, before installing and configuring Imprivata components.
- Review the <u>Imprivata OneSign Supported Components</u> to confirm that your environment meets all of the minimum or recommended Citrix requirements.

Session Persistence

Session persistence (roaming) is managed by your virtual environment, not Imprivata Virtual Desktop Access. If your virtual environment is configured correctly for session persistence, Imprivata Virtual Desktop Access seamlessly roams user sessions, on authentication, to the endpoint computers in your environment.



NOTE: For more information about configuring session persistence, see your vendor–specific documentation.

Imprivata Virtual Desktop Access reconnects to any existing application sessions, including those that:

- You have configured the user policy to automatically launch.
- Users have launched manually.



BEST PRACTICE: Limit the delivery of an application to one instance per user. If the application is distributed across multiple servers in the farm, limiting the instance ensures that the Citrix broker roams the session that the user was previously using. For more information about configuring application delivery, see the Citrix documentation.

Session Persistence Using COOKIEINSERT

Session persistence maintains the connection between an endpoint and the Citrix Storefront after load balancing is performed. A common way to maintain session persistence is to use the endpoint source IP address. However, customers who use Network Address Translation (NAT) in front of a NetScaler load balancer cannot use this persistence method, because endpoints appear to have the same IP address at the load balancer.

Those customers must use the NetScaler COOKIEINSERT session persistence method. This method causes the NetScaler to insert a cookie into client requests, which the NetScaler uses to track the server to which the connection belongs.

To enable session persistence using COOKIEINSERT, perform this procedure **after** you have completed all steps in the main Installation Sequence section further below.

- 1. Configure the Citrix NetScaler's Persistence type to be COOKIEINSERT and specify a cookie name to use, for example, persistcookie.
- 2. Specify the same cookie name in your endpoints using either method a or b.

In both methods, VALUE is the cookie name you specified in the Citrix NetScaler:

a. For Imprivata ProveID Embedded Linux endpoints:

Add a new configuration option to the imprivata.conf configuration file on the endpoints, using one of two methods:

- Add this new section to the imprivata.conf file: [citrix] cookie-insert = VALUE
- Or run this command from the endpoint system prompt: /usr/lib/imprivata/runtime/bin/configuration-editor citrix --cookie-insert VALUE
- b. For Windows endpoints:

Configure the cookie name using this Registry key: HKLM\Software\SSOProvider\VDI\CookieInsertName String VALUE;

3. Reboot the endpoints.

Troubleshooting

An Imprivata agent log file entry that indicates a problem with this session persistence method is:

Failed to get COOKIEINSERT token – The Imprivata agent failed to get the cookie from the header.

Make sure that the cookie names are the same on the NetScaler and the endpoints.

Citrix Workspace App Configuration

After installing Citrix Workspace app, additional configuration is required to support Imprivata OneSign. If you have not completed the configuration, see *Configuring Citrix Workspace App for* Imprivata OneSign in the Online Help.

Citrix Stores and XenApp Services

Stores that are configured with a XenApp Services URL must be enabled for pass-through authentication. See this <u>Citrix Documentation topic</u> for configuration details.

Note the Citrix Connection Information

Imprivata agents communicate with known Citrix stores. The URL required to configure the Imprivata agent connection to Citrix depends on how the Citrix store is configured:

• Store URL – If the store is configured with a Store URL, the Imprivata agent communicates with Citrix using the respective Web Site URL.

Example: If the store is configured with https://example.com/Citrix/SalesStore, then configure the Imprivata agent connection with https://example.com/Citrix/SalesStoreWeb.

• XenApp Services URL – If the store is configured with a XenApp Services URL (the Storefront legacy URL or the Storefront URL), the Imprivata agent communicates with Citrix using the same XenApp Services URL.

Example: If the store is configured with

https://example.com/Citrix/SalesStore/PNAgent/config.xml, then configure the Imprivata agent connection with https://example.com/Citrix/SalesStore/PNAgent/config.xml.

Note the Published Application Names

Note the exact name for each XenApp application you want to auto-launch, as they appear in the Citrix Web Interface or Citrix StoreFront. If you do not have access to the same applications as the end user, this information can be found in Citrix Studio under the **Application Settings** > **Identification** > **Application name (for user):** field. Configuring the Imprivata connection to the Citrix environment requires that you enter each name with the same spelling, spacing, and capitalization.

Configure Citrix for Native Connections to Stores

Additional Citrix configuration is required to support native connections to Citrix StoreFront stores. The Citrix store must be configured with the following authentication methods to support Imprivata OneSign:

- User name and password
- Domain pass-through
- HTTP basic Even if the store is configured for HTTPS, this authentication method is required.

To configure the required authentication methods:

- 1. Open Citrix Studio.
- 2. Go to Citrix StoreFront > Receiver for Web.
- 3. Select the store you want to manage.
- 4. In the Store Web Receiver pane, click Choose Authentication Methods.
- 5. Click Add/Remove Methods and enable the required methods.

Review the Expected User Workflow

The following diagram illustrates the expected workflow when the Imprivata OneSign environment is configured to automatically launch Citrix XenApp applications.



Installation Sequence

Step 1: Verify that the Citrix XenApp Environment is Configured Correctly

Before you install the Imprivata agent on endpoint computers, perform the following steps to ensure your Citrix XenApp environment is installed and configured correctly.

- 1. Install the Citrix XenApp Server software.
- 2. Install Citrix Web Interface software or Citrix Storefront.
- 3. Install a supported version of Citrix Workspace app on all endpoint computers where you plan to install the Imprivata agent.
- 4. Install and configure the XenApp published applications to be used.
- 5. Verify the Citrix XenApp store settings and note the respective store URLs (Web Site or XenApp Services URL). Consult the Citrix user documentation for more details.

Step 2: Install the Imprivata Agent on the Citrix Server

To install the Imprivata agent on the Citrix Server, follow the directions for installing a Imprivata Citrix or Terminal Server Agent. See "Deploying the Imprivata Citrix or Terminal Server Agent" in the Imprivata Help.

Step 3: Install the Imprivata Shared Kiosk Workstation Agent on Endpoint Computers

See "Deploying the Imprivata Agent" in the Online Help for instructions on installing agents. Choose the method that suits your environment.

Step 4: Configure the Imprivata Connection to Citrix XenApp

Configuring the Imprivata agent connection to Citrix requires:

- One or more Citrix store URLs
- The names of the published applications

To configure the connection:

1. In the Imprivata Admin Console, go to the **Computers** menu > **Virtual Desktops** page > **Citrix XenApp** section.

- 2. In the first field, enter a Web Site URL or a XenApp Services URL.
- 3. From **Authenticate using**, select the type of credentials that apply to the applications on the specified server.



BEST PRACTICE: To configure applications to auto-launch and roam, select **Imprivata user credentials** or **External domain credentials**. To auto-launch without application roaming, you can select any credential type.

- 4. In the second field, enter the exact name of the XenApp application that you want to auto-launch. Enter the name with the same spelling, spacing and capitalization as it appears in the Citrix Web Interface or Citrix StoreFront. Click **Add** to configure more applications.
- 5. **Optional** For externally hosted XenApp servers, enter the domain name for external domain credentials (such as **mycompany.com**).
- 6. **Optional** If some XenApp applications are hosted on a second server, click **Add another server** and repeat the steps above.
- 7. Select Allow authentication from XenApp-enabled devices.
- 8. Click Save.

Step 5: Create and Apply User Policies

After you configure the Imprivata connection to Citrix XenApp, create and apply a user policy to auto-launch published applications. You can set up multiple policies that launch different sets of applications.

Step 5a: Create a User Policy

To create a user policy:

1. In the Imprivata Admin Console, go to the **Users** menu > **User policies** page.

You can select an existing user policy from the list, or make a copy of the Default User Policy as a starting point. If you want to edit an existing user policy, click the existing user policy name, and skip to step 5.

- 2. To copy the Default User Policy, select **Default User Policy**, then click **Copy**.
- 3. Click Default User Policy (2).
- 4. Rename the user policy in the **Policy Name** field.
- 5. Click the Virtual Desktops tab.
- 6. Select Enable virtual desktop automation.
- 7. Select **Automate access to applications or published desktops**. The list of XenApp applications that you configured in Step 4: Configure the Imprivata Connection to Citrix XenApp are listed in two panes.
- 8. Select a roaming option:
 - Roam open applications Select this option to roam all applications with an active session. This includes applications that are configured to automatically launch, as well as those that a user has manually launched.
 - **Roam automatically launched applications** Select this option to roam applications that are configured to automatically launch:
 - ° If an application session is present, only the automatically launched application is roamed.
 - ° If an application session is not present, the application is automatically launched again.



NOTE: Under certain circumstances, applications that users manually launch are also roamed. This typical happens when the session is present, and the application is hosted on the same Citrix server as the applications that are configured to automatically launch.

- 9. In the left pane, select the Citrix XenApp applications to be launched automatically at login. Make no selections in the right pane.
- 10. Click Save.

Step 5b: Apply a User Policy

To apply the user policy:

- 1. In the Imprivata Admin Console, go to the **Users** menu > **Users** page.
- 2. Select the users to which you want to apply the user policy.

You can view additional pages of the **Users** list without losing your selections. Imprivata keeps track of all the users you have selected and displays a counter at the top of the page.



BEST PRACTICE: To select multiple users more efficiently, use the **Search for Users** tool at the top of the **Users** page. Search for Users offers several search parameters for refining your results.

- 3. Click Apply Policy.
- 4. Choose the policy from the drop-down list, then click **OK**.

Step 6: Create and Apply a Computer Policy for Endpoint Computers

Create a computer policy for the endpoint computers that are supporting published applications.

Step 6a: Create a Computer Policy for Endpoint Computers

To create the computer policy:

1. In the Imprivata Admin Console, go to the **Computers** menu > **Computer policies** page.

You can select an existing computer policy from the list, or make a copy of the Default Computer Policy as a starting point. If you want to edit an existing computer policy, click the existing computer policy name, and skip to step 5.

- 2. To copy the Default Computer Policy, select **Default Computer Policy**, then click **Copy**.
- 3. Click Default Computer Policy (2).
- 4. Rename the computer policy in the **Name** field.
- 5. Go to the Virtual Desktops tab > Citrix XenApp section.
- 6. Select **Automate access to Citrix XenApp** to have Imprivata automatically handle login behavior for Citrix XenApp.
- 7. You can control the behavior when an endpoint computer is locked. Under **When a XenDesktop** endpoint is locked, choose one of the following:
 - Keep the XenApp client and user session active Preserves the user session. When a user logs back in to this endpoint computer (or another endpoint computer with XenApp enabled), their XenApp applications are preserved just as they were when this endpoint computer was locked.
 - Shutdown the XenApp client and disconnect the user session Helps optimize resource consumption and minimizes the total number of active sessions in use in the enterprise. When a user logs back into this endpoint computer (or another endpoint computer with XenApp enabled), their XenApp applications relaunch.
- 8. **Optional** For ProveID Embedded devices, select **Enable Published Applications** to enable automatically-launched published applications.

- 9. Select the servers that the endpoint computers should use.
- 10. Click Save.

Step 6b: Apply a Computer Policy to Endpoint Computers

Apply the computer policy you just created to endpoint computers.

Manually Assigning the Computer Policy

To assign the computer policy:

- 1. In the Imprivata Admin Console, go to the **Computers** menu > **Computers** page.
- 2. Select the computers to which you want to apply the computer policy. You can use **Search for Computers** to enter search criteria.
- 3. Select Apply Policy.
- 4. Select **Choose a policy for selected computers**, select the policy from the list, and then click **Apply Policy**.

Automatically Assigning the Computer Policy

Computer policy assignment rules let you assign a policy to existing endpoint computers and make sure that the policy is automatically assigned to endpoint computers that are added later.

To automatically assign the computer policy:

- 1. In the Imprivata Admin Console, go to the **Computers** menu > **Computer Policy Assignment** page.
- 2. Click Add New Rule.
- 3. Name the rule and select the assignment criteria.
- 4. Select the policy you created and click Save.

Step 7 (Optional): Disable Automatic Desktop Lock

In this implementation, if the user manually closes every open Citrix XenApp application, the local desktop will lock automatically, even if the user has applications in use on the local endpoint computer. This behavior is dependent on application state being "disconnected".

To prevent this behavior, create the **DisableLocking** registry key with a **Data Type** of **DWORD** and a **Value** of **1** in one of the following locations:

• 64—bit computers: HKLM\Software\SSOProvider\VDI



NOTE: With the value set to **1**, if the user leaves Workstation 1 without securing the desktop, then logs into Workstation 2, his XenApp published applications will roam with him to Workstation 2, but Workstation 1's desktop will remain open and unsecured.

Optimizing Citrix XenApp Session Sharing

In certain network environments, session sharing does not occur when users start multiple XenApp applications at the same time.

To optimize resource consumption, you can minimize this behavior by extending the period Citrix waits for an application to start before it starts the second application in a second session. The default time-out value is 20 seconds.

To extend the time-out period, add the registry key SucConnTimeout to HKEY_LOCAL_ MACHINE\SOFTWARE\Citrix\ICA Client\Engine\Configuration\Advanced\Modules\WFClient\ with a Data Type of REG_STRING and a Value of <20 or more seconds>.