# limprivata<sup>®</sup>

# **Product Documentation**

# Configuring Citrix XenDesktop

Imprivata Enterprise Access Management 24.1

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NOTE:

**(i**)

Beginning with 24.1, Imprivata OneSign and Imprivata Confirm ID have been renamed to Imprivata Enterprise Access Management.

Some interfaces in the Imprivata Admin Console, Imprivata Appliance Console, and documentation may retain the older Imprivata OneSign and Imprivata Confirm ID product names.

This document includes information about configuring Imprivata Virtual Desktop Access with Citrix XenDesktop. An Imprivata Virtual Desktop Access license is required.

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#### Software Requirements

Review the following:

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

#### 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.



**NOTE**: Citrix Workspace app is not required for ProveID Embedded–enabled thin clients.

# 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.

# 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.

# Enable Control+Alt+Delete for Virtual Desktops

Imprivata recommends that control + alt + delete is enabled for all virtual desktops that you are configuring with Imprivata OneSign.

- 1. From the domain controller, open the Group Policy Management Console.
- 2. In the required domain, select the group policy object that applies to the virtual desktops and click Edit.
- 3. In the Group Policy Management Editor, go to Computer Configuration > Policies > Windows Settings > Security Settings > Local Policies.
- 4. Select Security Options.
- 5. Select Interactive logon: Do not require CTRL+ALT+DEL and right-click.
- 6. Select **Properties > Define this policy setting > Disabled** and click **OK**.

### Step 1: Install the Latest Citrix Software

Before you configure Imprivata Virtual Desktop Access for Citrix XenDesktop, confirm your Citrix XenDesktop is operating normally.

**BEST PRACTICE**: Install the latest supported version of the Citrix Virtual Desktop agent on all VMs on which the Imprivata agent will be installed. Install the latest supported version of Citrix Workspace app on all endpoint computers on which the Imprivata agent will be installed.

# Step 2: Verify the Citrix XenDesktop Environment is Configured Correctly

Before you install the Imprivata agent on XenDesktop VMs and endpoint computers, verify that your Citrix XenDesktop environment is installed and configured correctly.

#### Verify the Citrix Installation

Verify the following installations by viewing the software listed in the Windows **Control Panel > Add and Remove Programs**:

- Verify that the Citrix Virtual Desktop agent is installed on all VMs.
- Verify that the Citrix Workspace app is installed on all endpoint computers.

#### Verify XenDesktop Catalogs

1. On the XenDesktop server, start Citrix Studio.

In Citrix cloud or hybrid cloud environments, use the Citrix control plane.

- 2. Click Machine Catalogs in the navigation tree to display your catalogs.
- 3. Open a catalog to view all of the VMs in the catalog.

#### Verify XenDesktop Groups

- In Citrix Studio, click **Delivery Groups** in the navigation tree to display your delivery groups.
  In Citrix cloud or hybrid cloud environments, use the Citrix control plane to navigate to your delivery groups.
- 2. Open a Delivery Group to view the list of VMs in the group.

To verify group settings, right-click one of the Desktop Groups and select Edit Desktop Group.

#### Verify XenDesktop Store Settings

In Citrix Studio, go to Citrix StoreFront > Receiver for Web in the navigation tree.

Verify the Citrix XenDesktop store settings and note the respective store URLs (Web Site or XenApp Services). For more information, see your Citrix user documentation.

# Step 3: Install the Imprivata Agent on All VMs

To install the Citrix Virtual Desktop agent and the Imprivata agent to all VMs:

- 1. Install the Citrix Virtual Desktop agent on one VM.
- 2. Install the Imprivata agent on the same VM.
- 3. Clone the VM for all the installations you require.

# Step 4: Install the Imprivata Agent on All Endpoint Computers

The Imprivata agent must be installed on each endpoint computer on which Citrix XenDesktop Virtual Desktop Access will be used.

The installation can be pushed to groups of computers or installed on one computer at a time, depending on your organization's preferences. For complete installation details, see "Deploying the Imprivata Agent" in the Imprivata Online Help.



**NOTE:** To configure Imprivata ProveID Embedded Linux thin clients, skip this step and see the following articles: <u>Configuring ProveID Embedded on HP Smart Zero and ThinPro Thin Clients</u> and <u>Configuring ProveID Embedded on IGEL Linux Thin Clients</u>.

# Step 5: Configure the Imprivata Connection to Citrix XenDesktop

Imprivata agents communicate with known Citrix stores. To configure the connection:

- 1. In the Imprivata Admin Console, go to the **Computers** menu > **Virtual Desktops** page > **Citrix XenDesktop** section.
- 2. Enter a Web Site URL or a XenApp Services URL.
- 3. Optional: Click Add another server to add additional Citrix stores.
- 4. Click Save.

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

Configure a new computer policy for endpoint computers supporting Citrix XenDesktop.

Endpoint computers and virtual desktops are assigned the Default Computer Policy unless a different computer policy is assigned. Review the Default Computer Policy settings to confirm that they are appropriate for your virtual desktop environment.

#### Step 6a: Create a Computer Policy for Endpoint Computers

To create a 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 6b.

- 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.

#### Step 6b: Configure a Computer Policy for Endpoint Computers

To configure the computer policy:

- 1. Go to the Virtual Desktops tab > Citrix XenDesktop section.
- 2. Select Automate access to Citrix XenDesktop.
- 3. Choose the following options:
  - **Prompt the user only if they have multiple desktops**. If the user is entitled to one desktop, it launches automatically after login. If a user is entitled to multiple desktops, an Imprivata OneSign dialog prompts the user to choose a desktop.
  - Always prompt the user to choose their desk. An Imprivata OneSign dialog always prompts the user to choose a desktop, regardless of how many desktops they are entitled to.
- 4. 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 XenDesktop client and user session active. This option preserves the user session; when a user logs back into this endpoint computer (or another endpoint computer with XenDesktop enabled) their desktop and applications are preserved just as they were when this endpoint computer was locked.
  - Shutdown the XenDesktop client and disconnect the user session. This option 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 XenDesktop

enabled) their desktop will relaunch.

5. Select the servers that the endpoint computers should use.



NOTE: To update the list of available servers, click Add or modify Citrix servers.

6. Click Save.

#### Step 6c: Apply 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 assign the computer policy. You can use **Search for Computers** to enter search criteria.
- 3. Click Apply Policy.
- 4. Select Choose a policy for the selected computers, select the policy from the list, and 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**.

BEST PRACTICE: When assigning a computer policy to ProveID Embedded thin clients only, select Imprivata agent type > ProveID Embedded.

#### Step 7: Create and Apply a User Policy

Create and apply a user policy that automates user access to Citrix XenDesktop.

#### Step 7a: 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. Automate access to full VDI desktops is selected by default. Imprivata automatically handles login behavior for XenDesktop endpoint computers. Roaming users with this policy will have streamlined access to the XenDesktop environment.
- 8. Click Save.

#### Step 7b: Apply a User Policy

To apply a 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. The users you have selected are tracked and displayed on 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** tab. 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**.

# Troubleshooting

# Enabling Imprivata OneSign on Citrix XenDesktop Shared Kiosk Workstations

This topic describes how to enable Imprivata OneSign on Citrix XenDesktop shared kiosk workstations by invoking the Imprivata OneSign Credential Providers utility (**ISXCredProvDiag.exe**) and adding all Imprivata OneSign credential providers to the Citrix list of allowed credential providers, or "allowlist."

#### Adding Imprivata OneSign Credential Providers via the Imprivata OneSign Credential Providers UI

To add all Imprivata OneSign credential providers to the Citrix allowlist via the Imprivata OneSign Credential Providers UI, perform the following steps on each kiosk workstation:

- 1. Run ISXCredProvDiag.exe to open the Imprivata OneSign Credential Providers window.
- 2. Click Create Citrix Allowlist. All Imprivata OneSign credential providers are added to the Citrix allowlist.



NOTE: This button is only available when the Citrix Virtual Agent is installed. To determine if the Citrix agent is installed, the Imprivata OneSign Credential Providers utility looks for the [HKEY\_ LOCAL\_MACHINE\SOFTWARE\Citrix\PortICA] and [HKEY\_LOCAL\_ MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Authentication\Credential Provider Filters\{FF525C75-290A-411A-98B6-2729537D6F38}] registry keys.

#### Adding Imprivata OneSign Credential Providers via the Command Line

On each kiosk workstation, run ISXCredProvDiag.exe from the command line with the parameter /addcitrix or /ac. This adds all Imprivata OneSign credential providers and wrappers to the [HKEY\_LOCAL\_ MACHINE\SOFTWARE\Citrix\PortICA\CredentialProviderWhitelist] registry key. The /addcitrix parameter is the same as the existing /wrapall parameter.

# Branding Login and Enrollment Screens

You can display your corporate logo on Imprivata login and enrollment screens for Imprivata single-user and kiosk workstations. See "Branding the Login and Self-Service Experience in the Imprivata Online Help.