Kaviza VDI-in-a-box™

User Access Device

Configuration Guide

kaviza Inc. (www.kaviza.com)
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1 Overview

Users can access Kaviza VDI-in-a-box provisioned desktops using the Kaviza Client or the Kaviza Web Console on the supported end points.

Kaviza Client enables the users to access Kaviza desktops without using a browser. Additionally, Kaviza Client enables the administrator to create locked down Kiosks where a user can do nothing but use a pre-specified Kaviza desktop.

Users can also access Kaviza VDI-in-a-box provisioned desktops from iPad using Citrix Receiver.
2 Supported end-points

Kaviza VDI-in-a-box provisioned desktops can be accessed from a number of end-point devices running Windows, Linux, or MacOS including:

- 32-bit Windows XP SP2, Windows Vista, or Windows 7 desktops and laptops.
- 32-bit RedHat 5.x, CentOS 5.x, Ubuntu 5.x Linux desktops and laptops.
- MacOS 10.5 (Leopard) and MacOS 10.6 (Snow Leopard)
- Apple iPad
- Following thin clients from 10zig, Wyse, and HP
  - 10zig 54xx Linux
  - 10zig 56xx Windows XP Embedded
  - Wyse C50 LE Linux
  - HP T5720 Windows XP Embedded

**NOTE:** Windows CE thin clients are not supported.
3 How to configure The Kaviza Client and connect to provisioned desktops using The Kaviza Client on supported end point devices

3.1 32-bit Windows XP, Windows Vista, or Windows 7 end-point

Prerequisites:
- Java SE Runtime Environment, also known as J2SE Runtime Environment or JRE version 1.5 or greater. The latest version of JRE can be downloaded from http://www.java.com/en/download/manual.jsp.
- MS Remote Desktop Connection Client RDP 6.0 or greater (mstsc.exe)
- Citrix Online Plug-in 12.0.3 from http://support.citrix.com/article/CTX125235 if you have purchased HDX license.

Launch Steps:
- You can launch The Kaviza Client from a browser, or launch it from a command shell, or create a shortcut on your desktop to launch it without a browser.

From a browser:
Type in the URL http://<kmgr address or kvz gateway address>/dt/kavizaclient.jnlp in your browser window. You may see the following dialog:

If you see this dialog, check “Do this automatically” and click “Ok”.

From a command shell:
Open a command window or a shell window from the end point device and type the command:

```
javaws http://<kmgr address or kvz gateway address>/dt/kavizaclient.jnlp
```

Example1: javaws http://KavizaManager1.demokaviza.com/dt/kavizaclient.jnlp  

Create a desktop shortcut:

- Right click on the desktop to popup desktop menu, select “New”, and select “Shortcut”

  ![Desktop Menu](image)

- The “Create Shortcut” dialog pops up. Click on the “Browse…” button and navigate to the folder where javaws is located. The most likely
location for javaws in JRE 1.6 is C:\Program Files\java\jre6\bin folder.

- Enter the text http://<kmgr name or IP address>/dt/kavizaclient.jnlp after the double-quote that appears after the text that ends in “javaws.exe” in the “location of the item” field.
• Click next. Enter “kaviza” (without the double-quotes) in “Type a name for this shortcut” field.

• The shortcut is created on the desktop with a java icon. Right-click on the shortcut and select “Properties”. Properties dialog pops up.
• Download kavizaclient.ico file from http://<kmgr name or IP address>/dt/kavizaclient.ico and save it in a folder on your desktop/laptop.

• Click on the “Change Icon…” button. Change Icon dialog pops up. Click on “Browse” button and go to the folder containing kavizaclient.ico. Select kavizaclient.ico and click “Ok”. The “Look for icons in file” field in the “Change Icon” dialog will be filled with the path to kavizaclient.ico as shown below.

• Click the “OK” button. The shortcut will be shown on the desktop.

• Double-click on the shortcut to launch the Kaviza Client.

b. You will see the following security warning dialogs
Check “Always trust…” and then click “Run”.

c. You will see the Kaviza Client console:

d. Test by logging in end users

- Enter the user name, password, and click on Login.
- If the user has multiple desktops to select from, a list of desktops will be shown to the user
Click on the ‘Connect’ button to connect to the Kaviza desktop.

**Note:** When your desktop starts with an HDX connection, you can toggle between the full screen mode and the regular screen mode by using the `<Shift><F2>` key sequence. You may want to maximize the desktop window before toggling to the full screen mode.

**Note:** Use the `<Ctrl><F1>` key sequence to send `<Ctrl><Alt><Del>` key sequence to the desktop viewed using an HDX connection. Visit [http://support.citrix.com/article/CTX118974](http://support.citrix.com/article/CTX118974) for the complete list of key sequences to use for HDX connections on Windows end point.

**Note:** Create 2 shortcuts, each pointing to a unique kMGR location to download the Kaviza Client. This will be useful if you are unable to launch the Kaviza Client from any one of them.
3.2 32-bit RHEL 5.x, CentOS 5.x, Ubuntu 10.x Linux end point

Prerequisites

- Open source rdesktop client 1.3.1 or greater ([rdesktop](http://www.rdesktop.org/)).
- Citrix Online Plug-in 11.1 or greater if you have purchased an HDX license. It can be downloaded from the following location: [http://www.citrix.com/English/SS/downloads/details.asp?downloadID=3323](http://www.citrix.com/English/SS/downloads/details.asp?downloadID=3323)

Note: If the Citrix Receiver is installed by a user other than root, you must set the ICAROOT environment variable with the absolute path to the directory containing the wfica binary.

Note: You may have to create a softlink “libXm.so.4” to libXm.so.3 located in /usr/lib directory on an Ubuntu end point.

Launch Steps:

a. You can launch the Kaviza Client from a browser, or launch it from a command shell, or create a launcher on your desktop to launch it without a browser.

From a browser:

Type in the URL [http://<kmgr address or kvz gateway address>/dt/kavizaclient.jnlp](http://<kmgr address or kvz gateway address>/dt/kavizaclient.jnlp) in your browser window. You may see the following dialog:
If you see this dialog, check “Do this automatically” and click “Ok”.

**From command shell:**
Open a command window or a shell window from the end point device and type the command:

```
javaws http://<kmgr address or kvz gateway address>/dt/kavizaclient.jnlp
```

Example1: javaws http://KavizaManager1.demokaviza.com/dt/kavizaclient.jnlp

**Create a desktop launcher:**
- Right click on the desktop to popup the desktop menu. Select “Create Launcher”

![Create Launcher dialog](image)

- The “Create Launcher” dialog comes up. Fill in the “Name” and “Generic Name” fields with “kaviza” or a name you prefer. Click the “Browse…” button to select javaws executable from JRE/bin directory.

![Create Launcher dialog](image)
• Enter <kmgr name/ip address>/dt/kavizaclient.jnlp as an argument to javaws in the “Command” field.

![Create Launcher dialog]

• Download the Kaviza Client icon from http://<kmgr name/IP address>/dt/kavizaclient.ico and save it in a directory.

• Click on the “No Icon” button in the “Create Launcher” dialog. The “Browse icons” dialog will pop up. Select the Kaviza Client icon from the directory it was downloaded to using the “Browse…” button. It is shown in the “Browse icons” dialog as shown below. Click “OK”.

![Browse icons dialog]

• Click the “OK” button in the “Create Launcher” dialog to close it. You will see the launcher on your desktop. Double-click it to launch the Kaviza Client.
Follow the launch steps b through d in the section “32-bit Windows XP, Windows Vista, and Windows 7 desktop/laptop end-point”.

**Note:** When your desktop starts with an HDX connection, you can switch to a Full Screen mode by selecting the menu item in the upper right corner of the Citrix receiver “Advanced >> Fullscreen” (See below). You can go back to the window mode by entering Alt + F3

![Citrix Receiver Menu](image)

**Note:** Use the <Ctrl><Alt><Enter> or <Ctrl><Alt><Return> key sequence to send the <Ctrl><Alt><Del> key sequence to the desktop that is being viewed using an HDX connection. Visit [http://support.citrix.com/servlet/KbServlet/download/180-102-8765/ICA_UNIX_Guide.pdf](http://support.citrix.com/servlet/KbServlet/download/180-102-8765/ICA_UNIX_Guide.pdf) for the complete list of key sequences to use for an HDX connection on a Linux end point.
3.3 MacOS 10.5 (Leopard) or MacOS 10.6 (Snow Leopard) endpoint

Prerequisites

- Java SE Runtime Environment, also known as J2SE Runtime Environment or JRE version 1.5 or greater.
- Remote Desktop Client for Mac version 2.0 or greater. It can be downloaded from: [http://download.microsoft.com/download/C/B/9/CB943CBF-DDA8-4580-A711-88AC23763F0E/RDC201_ALL.dmg](http://download.microsoft.com/download/C/B/9/CB943CBF-DDA8-4580-A711-88AC23763F0E/RDC201_ALL.dmg)
- Citrix Online Plug-in 11.1 or greater for Mac if you have purchased an HDX license. It can be downloaded from: [http://www.citrix.com/english/ss/downloads/details.asp?downloadId=1862769&productId=186](http://www.citrix.com/english/ss/downloads/details.asp?downloadId=1862769&productId=186)

Launch Steps

- Go to Applications / Utilities and open AppleScript Editor:

  ![AppleScript Editor](image)

- In the AppleScript editor window type: 
  ```plaintext
  do shell script "javaws -Xnosplash http://<KMGR_IP_ADDRESS>/dt/kavizaclient.jnlp" where <KMGR_IP_ADDRESS> is the IP address of your kMGR instance
  ```
• In the AppleScript Editor go to File / Save As. Select the file format Application and save your Kaviza shortcut to the desktop.

![Image of AppleScript Editor]

• Click on the shortcut to launch the Kaviza Client

Follow the launch steps b through d in the section “32-bit Windows XP, Windows Vista, and Windows 7 desktop/laptop end-point”.

**Note:** when launching the Kaviza Client for the first time, the Finder will ask you to locate the Citrix Online plug-in for the HDX connection or the Remote Desktop Client for the RDP connection. The default locations of these applications on the Mac OS X are:

**Citrix Online Plugin:** /Library/Application\ Support/Citrix/Citrix online plug-in.app

**Microsoft RDC:** /Applications/Remote Desktop

You may receive a security warning message such as the one shown below:

![Security Warning Message]

Click the “Trust” button.

**Note:** Use the \(<Ctrl>\)+\<Option>\+\<Fn>\+\<Del> to send the \(<Ctrl>\)+\<Alt>\+\<Del> key sequence to the desktop viewed using an HDX connection. Visit [http://support.citrix.com/site/resources/dynamic/dlshareddocs/Citrix_Plugin_for_Mac_Administrators_Guide.pdf](http://support.citrix.com/site/resources/dynamic/dlshareddocs/Citrix_Plugin_for_Mac_Administrators_Guide.pdf) for the complete list of key sequences to use for an HDX connection on a Mac end point.
3.4 10zig 54xx Linux thin client

Prerequisites

Same as the prerequisites for Linux desktop/laptop end point.

Refer to your thin client administration guide or contact your thin client provider to install/upgrade the required software.

Launch Steps

- Open 10zig / Settings / Connection Manager

- In the Connection Manager click the “Add” button and select “Internet Browser”
• Enter the configuration name, e.g. KAVIZA GRID. Click the “Options” tab.

• In the options tab enter http://<KMANAGER_IP_ADDRESS>/dt/kavizaclient.jnlp. Click the “OK” button.
• Click Startup in the Connection Manager. Select “Enable Application Autostart” and “Enable this application as the Default”. Click OK and Quit.

![Connections Manager - Press F2 for Terminal Properties](image)

• In the upper left corner of the screen double click KAVIZA GRID to launch the Kaviza Client.

Follow the launch steps b through d in the section “32-bit Windows XP, Windows Vista, and Windows 7 desktop/laptop end-point”.

**Note:** Please review the notes in the Launch Steps section of the Linux desktop/laptop end-points.
3.5 10zig 56xx and HP T5720 Windows XP Embedded thin clients

Prerequisites:
Same as the prerequisites for Windows XP desktop/laptop end point.

Refer to your thin client administration guide or contact your thin client provider to install/upgrade the required software.

Launch Steps:
Follow the browser-based launch steps for Windows XP desktops/laptops.
3.6 Wyse C50 LE Linux thin client

Prerequisites
Same as the prerequisites for Linux desktop/laptop end point.

Refer to your thin client administration guide or contact your thin client provider to install/upgrade the required software.

Launch Steps

- Launch the Connection Manager application

![Connection Manager image]

- Click Add and select the BROWSER connection type

![Add Connection image]
• Click Next. Enter the connection name Kaviza and the URL http://<KMANAGER_IP_ADDRESS>/dt/kavizaclient.jnlp

• Click on the Kaviza shortcut created on the desktop to launch the Kaviza Client.

Follow the launch steps b through d in the section “32-bit Windows XP, Windows Vista, and Windows 7 desktop/laptop end-point”.

**Note:** Please review the notes in the Launch Steps section of the Linux desktop/laptop end-points.
3.7 Converting end-point devices to Kiosks using the Kaviza Client

Please refer to the ‘Kaviza Kiosk Feature Manual’ for full details.
4 How to configure Citrix Receiver and connect to provisioned desktops using Citrix Receiver on supported end-point devices

4.1 Apple iPad

Install Citrix Receiver 1.1
- Connect iPad to a network that has access to the internet
- Tap on the “App Store” application
- Login using your credentials
- Enter “Citrix Receiver” in the search panel
- Tap on the “Citrix Receiver for iPad” application to install

Configure Citrix Receiver
- Connect iPad to the network where a kMGR is accessible
- Launch Citrix Receiver in the iPad.
- Citrix Receiver will show the welcome screen
- Tap on “Add Workspace”
- Fields in the “Add Workspace” dialog
  - Description: <enter a description e.g. acme corp grid>
  - Address: <name or IP address of the kMGR e.g. demokmgr3.demokaviza.com>
  - Username: <the username using which you logon to the provisioned desktop e.g. mike>
  - Password: <Enter an arbitrary string. This input is required but ignored when connecting to the provisioned desktop>
  - Domain: <Enter the domain name e.g. demokaviza.com>
  - Gateway settings: Off
- Tap on “Save” in the top-right corner of “Add Workspace” dialog

NOTE:
The steps described above let you configure one iPad at a time. To generate a URL that you can distribute to the iPad owners, go to http://community.citrix.com/MobileReceiverSetupUrlGenerator/ and generate a URL for Citrix Receiver that you can distribute by email. Here is a brief explanation of the fields in the URL generator:
  - Account Description: <enter a description e.g. acme corp grid>
  - Server Address: <name or IP address of the kMGR e.g. demokmgr3.demokaviza.com>
  - Domain: <enter the domain name e.g. demokaviza.com>
Use Gateway: keep it unchecked

- Click on the “Generate URL” button. The “Your Result” section will show the following message:
  Embed this link in email or a web page: configuration link

- An example of the configuration link:
citrixreceiver://createprofile?s=demokmgr3.demokaviza.com&pname=acme%20corp%20grid&d=demokaviza.com&gw=0

- Right click on “configuration link” and select the “copy link location” menu item. Paste it in your email to the end users.

Connecting to the provisioned desktop

- “Password” dialog shows up when you launch Citrix Receiver with the prefilled Username
  - Enter one or more characters in the Password field. Does not have to be the password of the user.
- “Password” and “Workspaces” dialogs disappear
- Tap on “Applications” in the top-left corner of Citrix Receiver. A dialog with the list of the desktops you can connect to is displayed.
- Tap on the desktop you want to connect to
  - Windows 7: Logon Failure message is displayed. Tap on “Ok” button. Logon screen with prefilled username/domain name displayed. Tap on Password field and enter the password.
  - Windows XP: Desktop login screen is displayed. You will need to re-enter the username and password.
5 How to configure Kaviza Web Console and connect to provisioned desktops using Kaviza Web Console on supported end-point devices

5.1 32-bit Windows XP, Windows XP Embedded, Windows Vista, Windows 7 laptop, desktop, or thin client

Prerequisites
- MS Remote Desktop Connection Client 6.0 or greater (mstsc.exe)
- Citrix Online Plug-in 12.0.3 or greater is necessary only if you have purchased HDX license for Kaviza VDI-in-a-box. It can be downloaded from http://support.citrix.com/article/CTX125235.
- Internet Explorer 7, Internet Explorer 8, or Firefox 3.x browser

Connect using Firefox 3.x
- Go to URL http://<kmgr or gateway name/IP address>/

Connect using IE 7 or IE 8

5.2 32-bit RedHat 5.x, CentOS 5.x, or Ubuntu 10.x desktop, laptop, or thin client

Prerequisites
- Open source rdesktop client 1.3.1 or greater (rdesktop).
- Citrix Online Plug-in 11.1 or greater is necessary only if you have purchased HDX license for Kaviza VDI-in-a-box. It can be downloaded from http://www.citrix.com/English/SS/downloads/details.asp?downloadID=3323

Note: If the Citrix Receiver is installed by a user other than root, you must set the ICAROOT environment variable with the absolute path to the directory containing the wfica binary.

Note: You may have to create a softlink “libXm.so.4” to libXm.so.3 located in the /usr/lib directory on an Ubuntu end point.
- Firefox 3.x browser

5.3 Apple Mac running MacOS 10.5 (Leopard) or MacOS 10.6 (Snow Leopard)

Prerequisites
- Remote Desktop Client for Mac version 2.0 or greater. It can be downloaded from: http://download.microsoft.com/download/C/B/9/CB943CBF-DDA8-4580-A711-88AC23763F0E/RDC201_ALL.dmg
- Citrix Online Plug-in 11.1 or greater for Mac if you have purchased HDX license. It can be downloaded from: http://www.citrix.com/english/ss/downloads/details.asp?downloadId=1862769 &productId=186
- Safari browser
6 Appendix

6.1 How Kaviza Client determines whether to serve a HDX or a RDP connection

Kaviza Client supports RDP and HDX protocols. It automatically serves a connection using the HDX protocol only if all of the following conditions are met:
- The grid has enabled an HDX license.
- The end-point device is not going through the Kaviza Gateway.
- Citrix Online Plug-in is installed on the end-point device.

If one or more of these conditions is not met, the Kaviza Client defaults to RDP protocol.

The Kaviza Client displays a password field only if it can serve a connection using the HDX protocol and it can connect to a kMGR using https.

NOTE
Kaviza Client lets the user switch to RDP when making a connection request by providing the “Difficulty Connecting?” link. The user must fill in the username and password (if the password field is displayed) and click on the “Difficulty Connecting?” link to request a connection using RDP.

6.2 Java and javaws

6.2.1 The JRE bin location

On a typical Windows end-point device installation, the JRE bin directory can be found under c:\Program Files\Java\<jre version>\bin directory.

On a typical linux end-point device installation, the JRE bin directory can be found under /usr/local/java/bin

6.2.2 Verifying the JRE version

- Open a command window or shell window
- Type the command:
  
  
  java --version

- If you see a message such as “java is not recognized as an internal or external command” on Windows or “java: command not found” on Linux, you may want to consider downloading the latest JRE package.

6.2.3 The ‘javaws’ location

javaws is shipped as part of the JRE package. The location of the ‘javaws’ software depends on the version of the JRE installed. It is typically installed under the JRE bin directory.