



Installation of the UDS Client 3.6 on HP Thin Clients with ThinPro



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Introduction

Thin Client devices from the manufacturer HP are an ideal way to allow users access to virtual desktops, virtual applications and other remote desktop services provided by UDS Enterprise.

HP offers these Thin Client devices with 3 different operating systems (O.S.). The following list specifies which ones you can use to access the services provided by UDS Enterprise and which would be the supported mode:

- **HP SmartZero Core:** Access only to services (desktops and applications) via HTML5 mode.
- **HP ThinPro:** Access via UDS Client and HTML5 to virtual desktops and applications. The access via UDS Client will be done through the RDP protocol (with FreeRDP client) except to the Linux virtual applications, which will use the X2Go protocol.
- **Microsoft Windows:** Access via UDS and HTML5 client to virtual desktops and applications. Access via the UDS Client will be through the RDP protocol (with Microsoft's "*remote desktop*" client) except for Linux virtual applications, which will use the X2Go protocol.

This document shows how to install the UDS Client 3.6 on ThinPro OS to access virtual desktops and applications.

The versions of ThinPro supported by the UDS client 3.6 will be: 7.1 SP12, 7.2 SP13, 8 SP3, SP4 and SP5

NOTE:

It is recommended to use the ThinPro OS, since it allows the connection through the UDS Client (HTML5 connection will have limitations when redirecting certain devices) and it also avoids having to acquire licensing for the Windows OS.

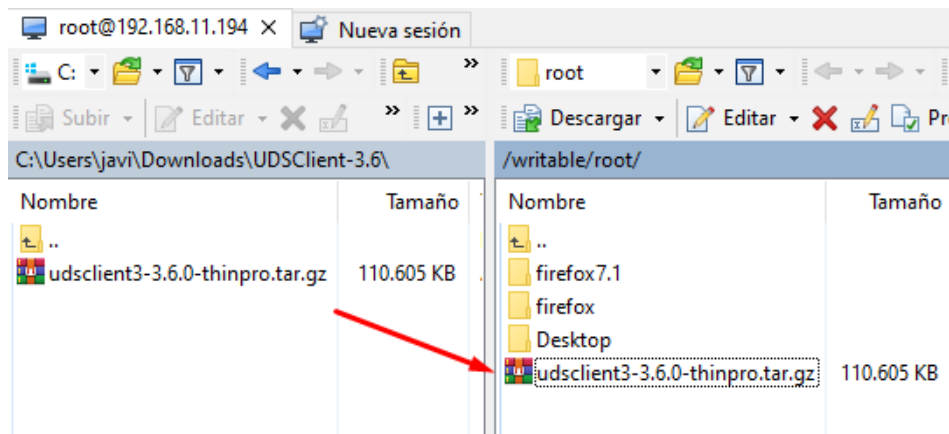
All connection-level functionalities supported by the ThinPro OS (Device redirection, Audio redirection, etc...) will be available to use in the connections made through the UDS Client.

UDS Client Installation 3.6

The installation of UDS Client 3.6 can be done in ThinPro 7.1 and 7.2 versions using the same package. It can be downloaded from the following repository:

https://images.udsenderprise.com/files/ThinPro/UDSClient3.6_Packages/

Download the package "udsclient3-3.6.0-thinpro.tar.gz" and copy it to the device. For example, you can create a folder in **/root** and download it there:



NOTE: If you want to copy the script via ssh, it will be necessary to start this service on the device (Switch to Administrator - Control Panel - Manageability - SSHD Manager - Enable Incoming Secure Shell Access). You can also download it directly from the Thin Client itself using the command `wget` (accessing as administrator and from a terminal):

`wget`

https://images.udsenderprise.com/files/ThinPro/UDSClient3.6_Packages/udsclient3-3.6.0-thinpro.tar.gz

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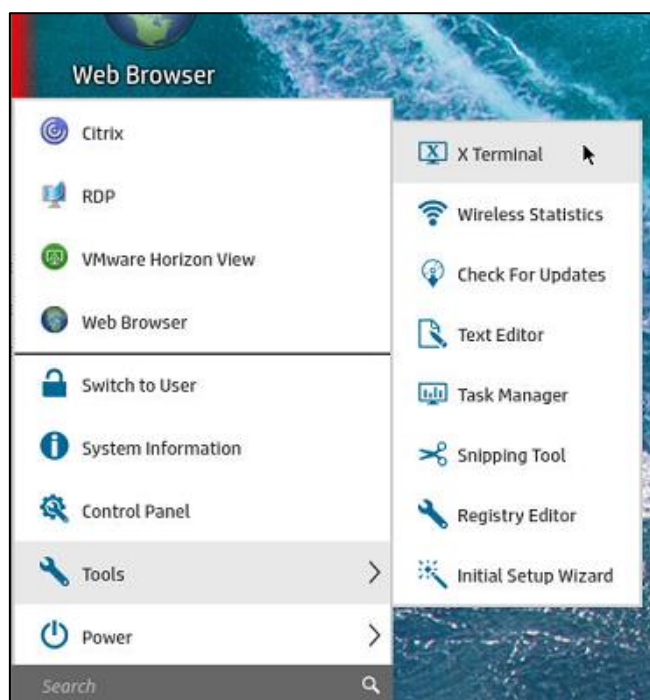
```
root@HP1062e5067b31: ~
root@HP1062e5067b31:~# wget https://images.udsenderprise.com/files/ThinPro/UDSClient3.6_Packages/udsclient3-3.6.0-thinpro.tar.gz
--2023-06-01 10:53:22-- https://images.udsenderprise.com/files/ThinPro/UDSClient3.6_Packages/udsclient3-3.6.0-thinpro.tar.gz
Resolviendo images.udsenderprise.com (images.udsenderprise.com)... 188.165.133.128
Conectando con images.udsenderprise.com (images.udsenderprise.com)[188.165.133.128]:443... conectado.
Petición HTTP enviada, esperando respuesta... 200 OK
Longitud: 113258549 (108M) [application/x-gzip]
Grabando a: "udsclient3-3.6.0-thinpro.tar.gz"

udsclient3-3.6.0-th 100%[=====] 108,01M 11,2MB/s in 9,7s

2023-06-01 10:53:32 (11,1 MB/s) - "udsclient3-3.6.0-thinpro.tar.gz" guardado [113258549/113258549]

root@HP1062e5067b31:~#
```

Enable the administrator mode and in the “**Tools**” menu, start a terminal (X Terminal).



Confirm that you have the package in the location where you have copied or download it and unzip it:

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```
root@HP1062e5067b31:~# ls -la
total 110616
drwxr-xr-x 1 root root      158 jun  1 10:53 .
drwxr-xr-x 1 root root      96 jun  1 10:51 ..
-rw-r--r-- 1 root root    3106 oct 22  2015 .bashrc
drwxr-xr-x 1 root root      48 may 29 14:07 .cache
drwxr-xr-x 1 root root      14 mar 19  2019 .config
drwx----- 1 root root      22 may 29 16:55 .dbus
drwxr-xr-x 1 root root       0 mar 19  2019 Desktop
drwxr-xr-x 1 root root      10 mar 19  2019 .freerdp
-rw-r--r-- 1 root root     148 ago 17  2015 .profile
-rw-r--r-- 1 root root 113258549 jun  1 10:35 udsclient3-3.6.0-thinpro.tar.gz
root@HP1062e5067b31:~# tar xvzf udsclient3-3.6.0-thinpro.tar.gz
```

Run the installation script: **install-uds-client.sh**

```
root@HP1062e5067b31:~# tar xvzf udsclient3-3.6.0-thinpro.tar.gz
./
./firefox/
./firefox/45-uds
./firefox/handlers.json
./firefox/uds
./firefox7.1/
./firefox7.1/45-uds
./firefox7.1/handlers.json
./firefox7.1/syspref.js
./install-uds-client.sh
./udsrdp
./UDSClient
root@HP1062e5067b31:~# ./install-uds-client.sh
```

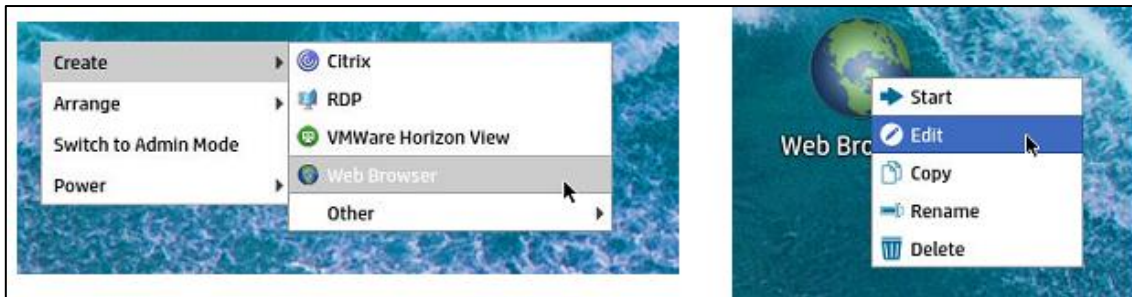
Wait for the installation process to finish and review that the process has finished correctly:

```
root@HP1062e5067b31:~# ./install-uds-client.sh
Installing for thinpro version 7.2 or later
root@HP1062e5067b31:~#
```

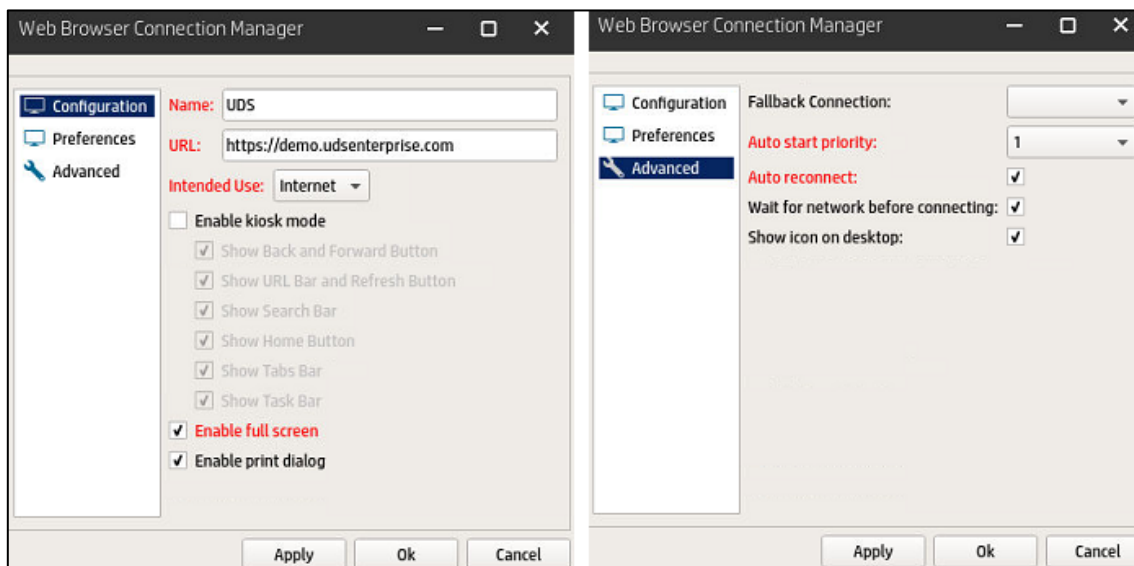
Once the installation of the UDS Client is finished, you would be ready to connect to virtual desktops and applications.

To access UDS Enterprise services, you will have to create a new connection of type “**Web Browser**” or edit the existing one:

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Indicate a descriptive name and the access URL (IP address or name) of the UDS server.



You can also indicate if you want it to start in Kiosk mode, full screen, connection priority, reconnection, etc...

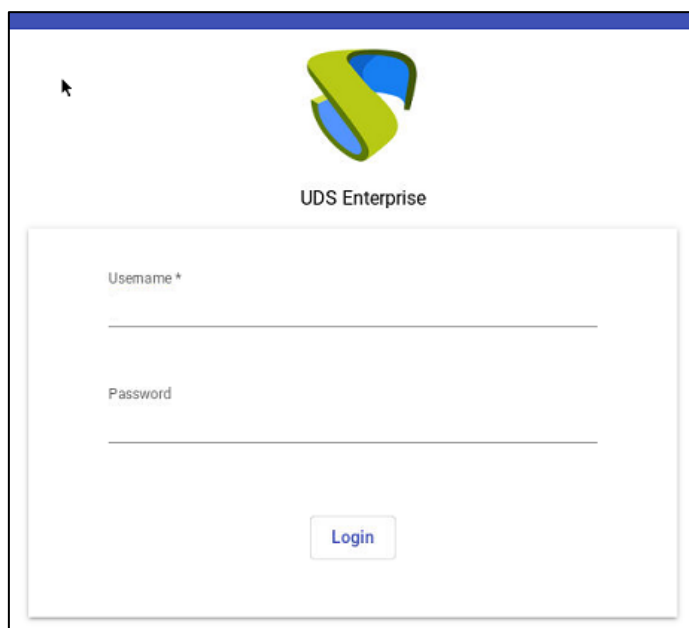
NOTE:

The rest of the connections created by default can be eliminated.

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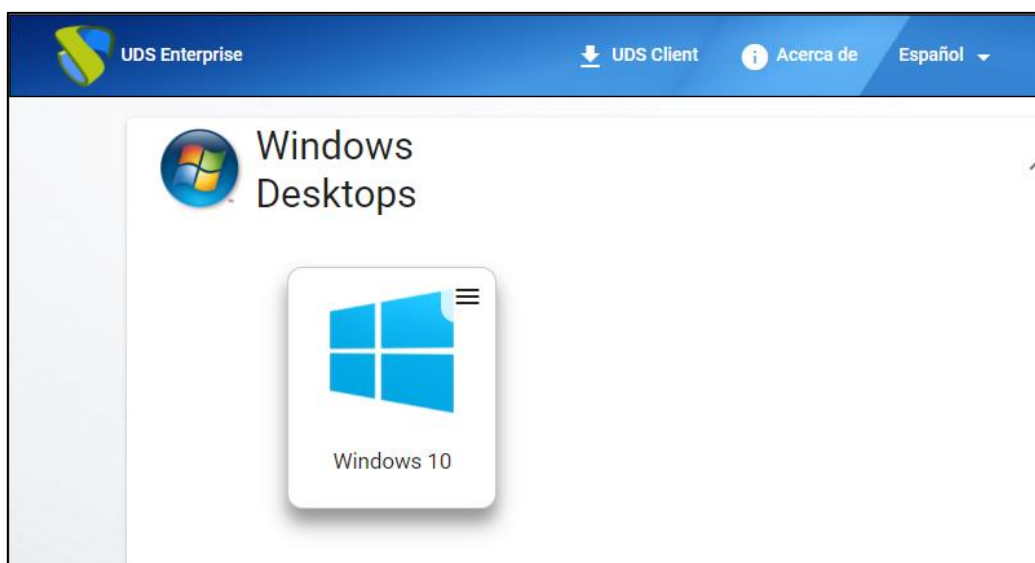


When you start the device again, verify that the connection starts with the UDS login page.

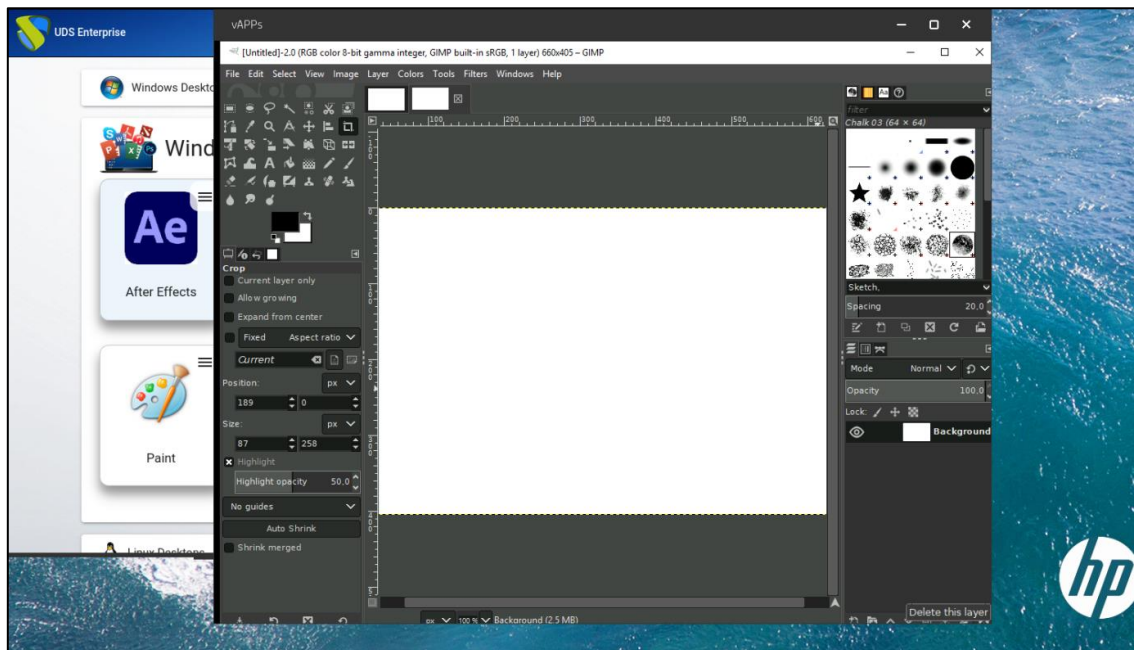
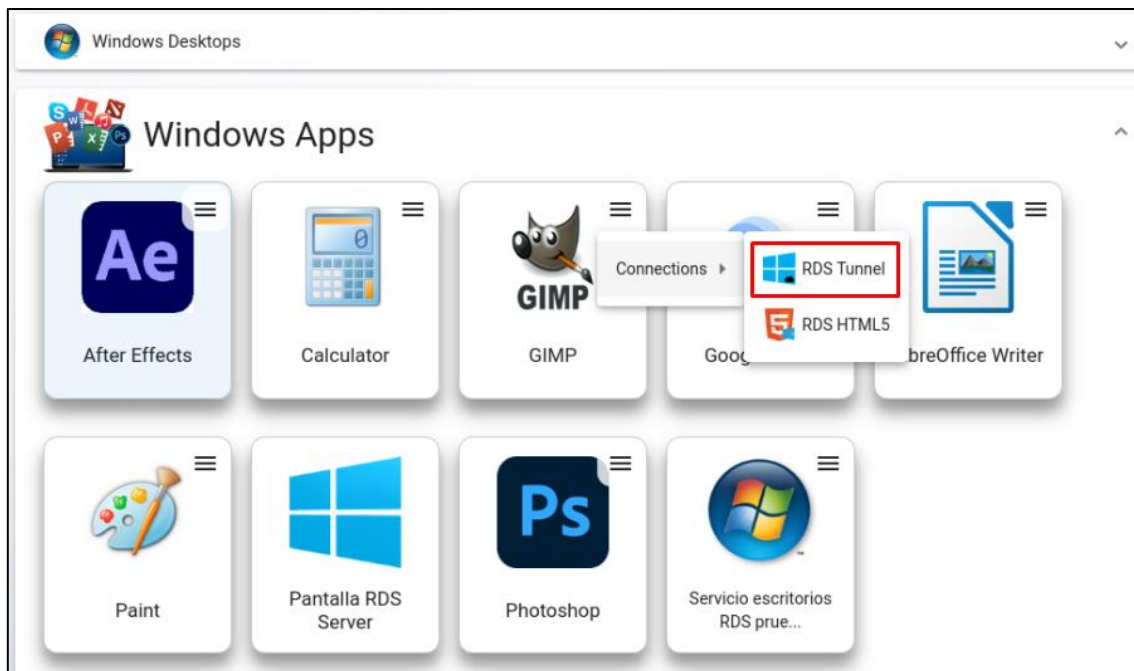


The login page for UDS Enterprise. It features the UDS logo at the top, followed by the text "UDS Enterprise". Below this is a form with two input fields: "Username *" and "Password". At the bottom of the form is a "Login" button.

When you enter with a user, you will visualize the services and you will be able to access them via RDP connection, both virtual desktops or applications:



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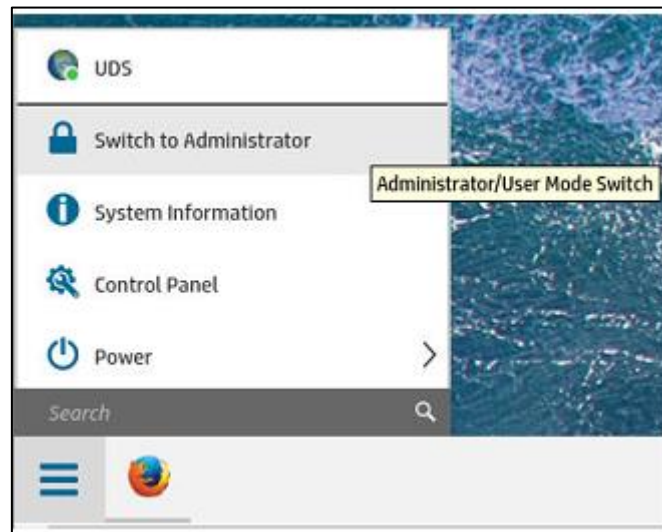


In the connections to services made from Thin Client devices with ThinPro, the parameters indicated in the RDP transport (UDS administration – Connectivity – Transports) will not apply.

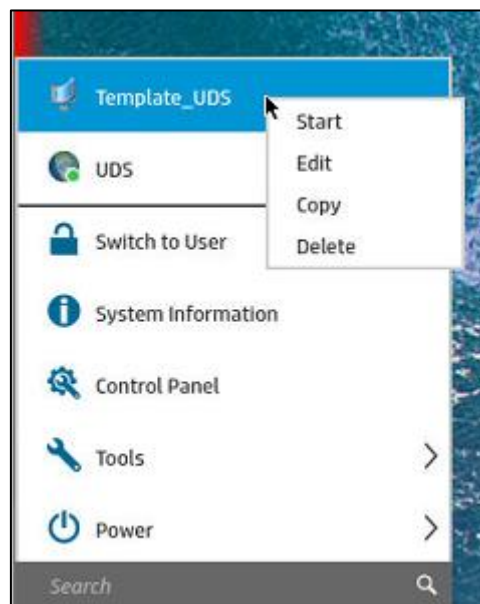
If you need to modify any parameter related to the connection (screen configuration, colors, device redirection, display, etc...), it will be necessary to do it from the Thin Client itself.

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To modify any of these parameters, you will have to access as administrator.



Once validated with administrator permissions, in the list of connections available you'll see "Template_UDS"

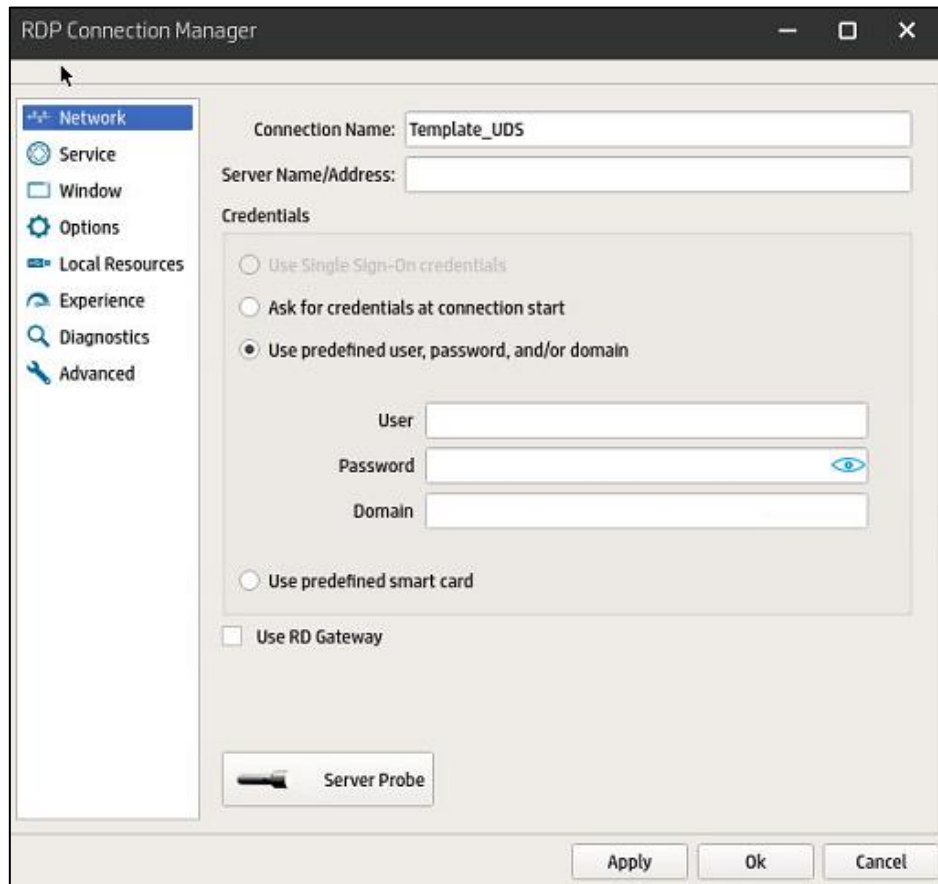


NOTE:

For let this connection appear of type RDP (Template_UDS), it will be necessary to make a first connection. The UDS Client will not create it until it has executed at least one connection.

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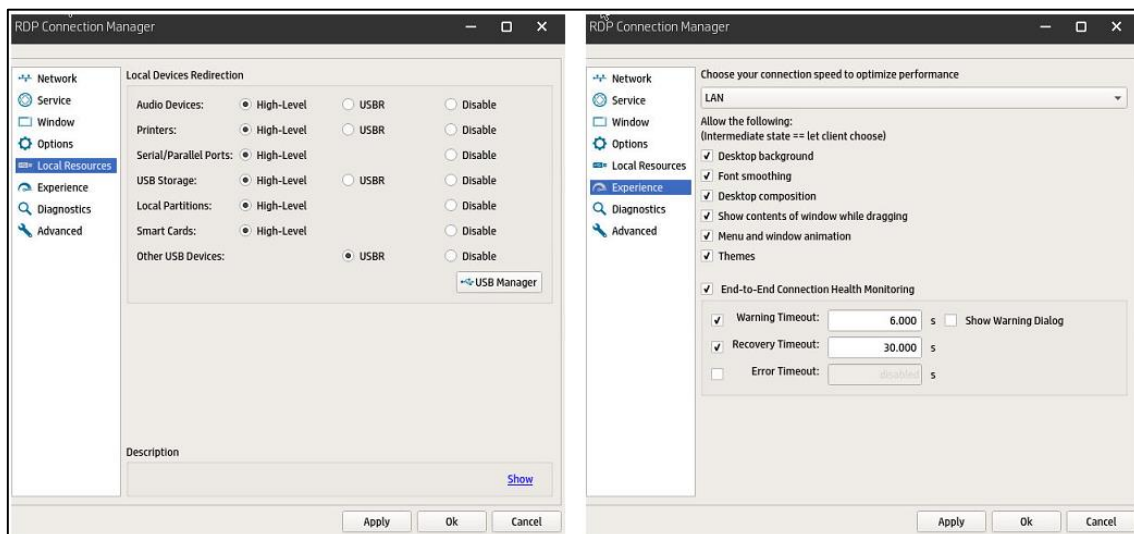
Click on “Edit” to modify it:



The RDP Connection Manager dialog box is shown. The left sidebar contains the following options: Network (selected), Service, Window, Options, Local Resources, Experience, Diagnostics, and Advanced. The main area is titled 'Template_UDS'. It contains the following fields and options:

- Connection Name: Template_UDS
- Server Name/Address: (empty field)
- Credentials section:
 - ☐ Use Single Sign-On credentials
 - ☐ Ask for credentials at connection start
 - ☒ Use predefined user, password, and/or domain
 - User: (empty field)
 - Password: (empty field with an eye icon for toggling visibility)
 - Domain: (empty field)
 - ☐ Use predefined smart card
- ☐ Use RD Gateway
- Server Probe button (with a key icon)
- Buttons at the bottom: Apply, Ok, Cancel

Change the necessary parameters and save the connection to apply them:



Two RDP Connection Manager dialog boxes are shown side-by-side, illustrating different configuration tabs.

The left dialog box shows the 'Local Resources' tab. It contains the following options:

- Local Devices Redirection:
 - Audio Devices: ☒ High-Level, ☐ USBR, ☐ Disable
 - Printers: ☒ High-Level, ☐ USBR, ☐ Disable
 - Serial/Parallel Ports: ☒ High-Level, ☐ USBR, ☐ Disable
 - USB Storage: ☒ High-Level, ☐ USBR, ☐ Disable
 - Local Partitions: ☒ High-Level, ☐ Disable
 - Smart Cards: ☒ High-Level, ☐ Disable
 - Other USB Devices: ☒ USBR, ☐ Disable
- Buttons at the bottom: Apply, Ok, Cancel

The right dialog box shows the 'Experience' tab. It contains the following options:

- Choose your connection speed to optimize performance: LAN (selected)
- Allow the following: (Intermediate state == let client choose)
 - ☒ Desktop background
 - ☒ Font smoothing
 - ☒ Desktop composition
 - ☒ Show contents of window while dragging
 - ☒ Menu and window animation
 - ☒ Themes
- End-to-End Connection Health Monitoring:
 - ☒ Warning Timeout: 6,000 s ☐ Show Warning Dialog
 - ☒ Recovery Timeout: 30,000 s
 - ☐ Error Timeout: disabled s
- Buttons at the bottom: Apply, Ok, Cancel

UDS Client Update

If you already have Thin Clients with ThinPro and a previous version of the UDS Client, you simply must carry out the installation process normally.

During the installation process, all components of the UDS Client will be overwritten and updated to the new version what you want to install.

NOTE:

With some versions of Thinpro and with older uds clients it may be necessary to manually clean up the old version elements so that when you install the new client it works correctly

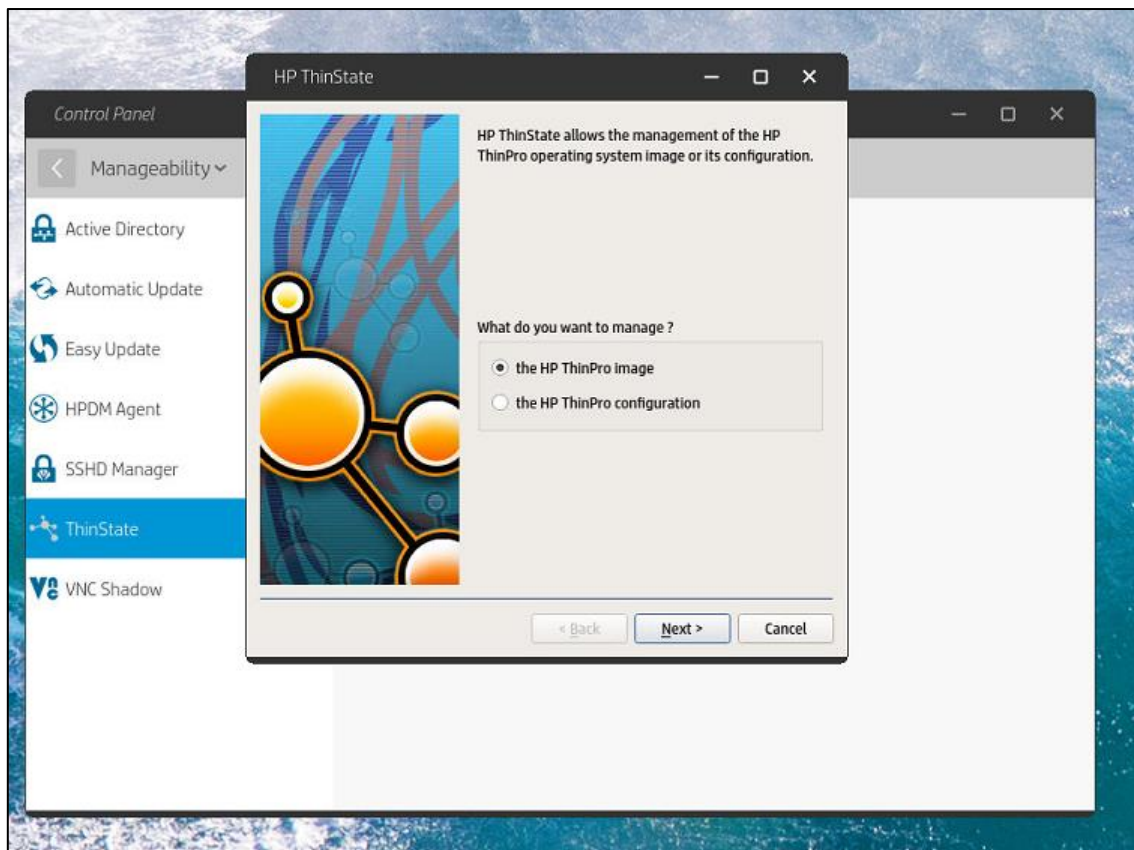
Generate and restore USB image

If you have installed the UDS Client and all the necessary modifications in the Thin Client with ThinPro, you will have the possibility of generating a complete USB image of the current state of the device to restore it in other devices. This will avoid having to repeat all the tasks previously performed.

To generate this image or restore it on other devices, access with administrator permissions and, in the menu, select:

Control Panel – Manageability – ThinState – The HP ThinPro Image

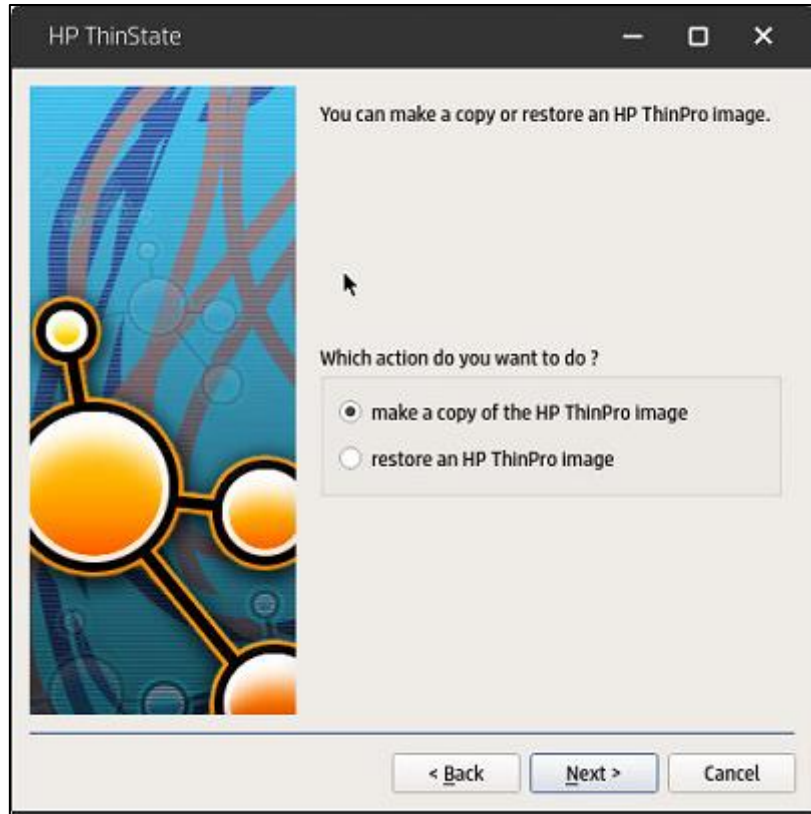
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on HP Thin Clients with ThinPro

Depending on the task you need to perform (generate an image on a USB or restore a previously configured image), select the appropriate option and continue with the steps indicated in the wizard:



NOTE:

To restore previously created images, you will also have the option to start the Thin Client with the USB device connected (and the image previously loaded on it) and it will automatically proceed to dump it.

It is also possible to use the HPDM (HP Device Manager) tool to manage all the configuration of Thin Clients in a massive and automated way.

About Virtual Cable

[Virtual Cable](#) is a company specialized in the **digital transformation of the workplace**. The company develops, supports and markets UDS Enterprise. Its team of experts has designed **VDI** solutions tailored **to each sector** to provide a unique user experience fully adapted to the needs of each user profile. Virtual Cable professionals have more **than 30 years of experience** in IT and software development and more than 15 in virtualization technologies. Every day **millions of Windows and Linux virtual desktops are deployed with UDS Enterprise around the world**.