



Windows Application Virtualization with UDS Enterprise 4.0



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1. Introduction

The UDS Enterprise connection broker allows the deployment and management of Windows virtual application sessions through the Microsoft Remote Desktop Services (RDS) service. These virtual applications will be assigned to user groups so that they are accessible by users.

Access to remote application sessions can be done through Windows and Linux OS with the installation of the "**UDS Client**" component or through any other OS (Android, iOS, ChromeOS, etc...) who has a web browser with HTML5 connection mode.

The applications will run on Windows application servers, allowing several of them to be grouped together and run in high availability. These application servers must have the RDS role enabled and configured in order to be integrated with UDS.

The UDSRDSServer component (server agent used to manage vAPPs and control user sessions on RDS servers) must be installed on the application servers, this will allow the call to the applications and notify the user access and exit. In environments where there are several application servers, it will be possible to activate high availability and the load threshold can be indicated to obtain an optimal load balance of the resources of the servers.

For the correct operation and integration of UDS Enterprise with RDS servers, it is necessary to perform a series of tasks that are detailed in this document.

2. Required Items

To configure the different elements that will make up the vApp environment with UDS Enterprise to serve Windows virtual applications, we will need:

2.1. RDS Application Servers

The Windows servers that will be responsible for providing the application sessions can be hosted on a virtualization platform or be physical servers. UDS Enterprise allows you to create groups of application servers.

Application servers must have the RDS feature enabled, which will allow virtual application sessions to be created. The servers must belong to an AD domain and have the applications that are going to be enabled to users installed and configured.

If you have a configuration with several application servers, all of them must have the applications installed. If you have different applications installed or are intended for different uses, it is recommended to make different groups of servers.

Application servers must have sufficient resources (vCPUs, vRAMs, and disks) to be able to run applications.

2.2. Windows OS supported

To deploy virtual applications, it will be necessary to use the following OS:

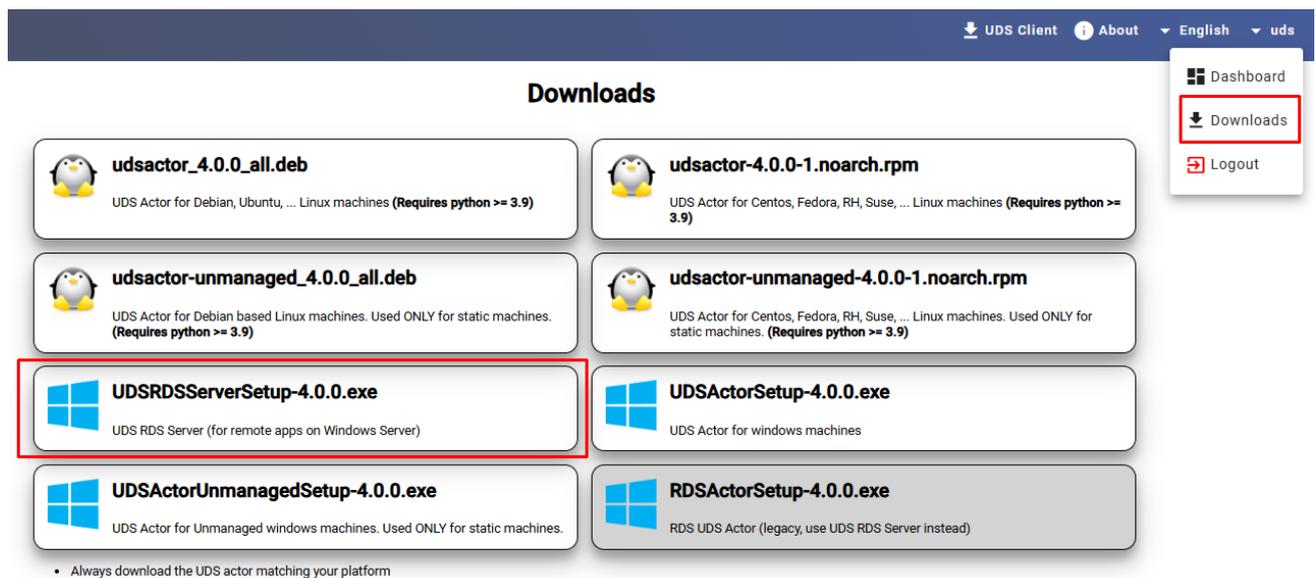
- Windows server 2016
- Windows server 2019
- Windows server 2022
- Windows server 2025

In this document we will use a Windows Server 2022 server, for the rest of the OS all the tasks to be performed will be the same.

2.3. UDS RDS Server

All application servers must have the UDS RDS Server agent installed and configured to facilitate access and control of the applications to users.

To download it, it is necessary to validate ourselves in the UDS Enterprise login portal with a user with administrator permissions. We will display the user menu and access the downloads. In this window we will download the UDS RDS Server for Windows machines.



The screenshot shows the 'Downloads' section of the UDS Client portal. The page title is 'Downloads'. The navigation bar includes 'UDS Client', 'About', 'English', and 'uds'. A user menu is open in the top right, showing 'Dashboard', 'Downloads' (highlighted with a red box), and 'Logout'. The main content area displays a grid of download cards:

- udsactor_4.0.0_all.deb**: UDS Actor for Debian, Ubuntu, ... Linux machines (Requires python >= 3.9)
- udsactor-4.0.0-1.noarch.rpm**: UDS Actor for Centos, Fedora, RH, Suse, ... Linux machines (Requires python >= 3.9)
- udsactor-unmanaged_4.0.0_all.deb**: UDS Actor for Debian based Linux machines. Used ONLY for static machines. (Requires python >= 3.9)
- udsactor-unmanaged-4.0.0-1.noarch.rpm**: UDS Actor for Centos, Fedora, RH, Suse, ... Linux machines. Used ONLY for static machines. (Requires python >= 3.9)
- UDSRDSServerSetup-4.0.0.exe**: UDS RDS Server (for remote apps on Windows Server) - This card is highlighted with a red border.
- UDSActorSetup-4.0.0.exe**: UDS Actor for windows machines
- UDSActorUnmanagedSetup-4.0.0.exe**: UDS Actor for Unmanaged windows machines. Used ONLY for static machines.
- RDSActorSetup-4.0.0.exe**: RDS UDS Actor (legacy, use UDS RDS Server instead)

A note at the bottom states: "Always download the UDS actor matching your platform"

NOTE: It is still possible to use the RDS Actor (RDSActorSetup-X.X.0.exe), but in future versions it will be discontinued.

2.4. Several

To carry out all the configuration on an RDS server, it will be necessary to have a domain user with administration permissions on the RDS server, in addition to an installed and configured UDS environment.

3. Application Server Configuration

Below are all the tasks required to be performed on the RDS application server.

3.1. Remote Desktop Service (RDS) Installation

The following requirements must be met:

- Have an updated Windows Server 2016, 2019, 2022 or 2025 OS.
- The server must have a fixed IP address.
- The server must be part of an Active Directory (AD) domain.

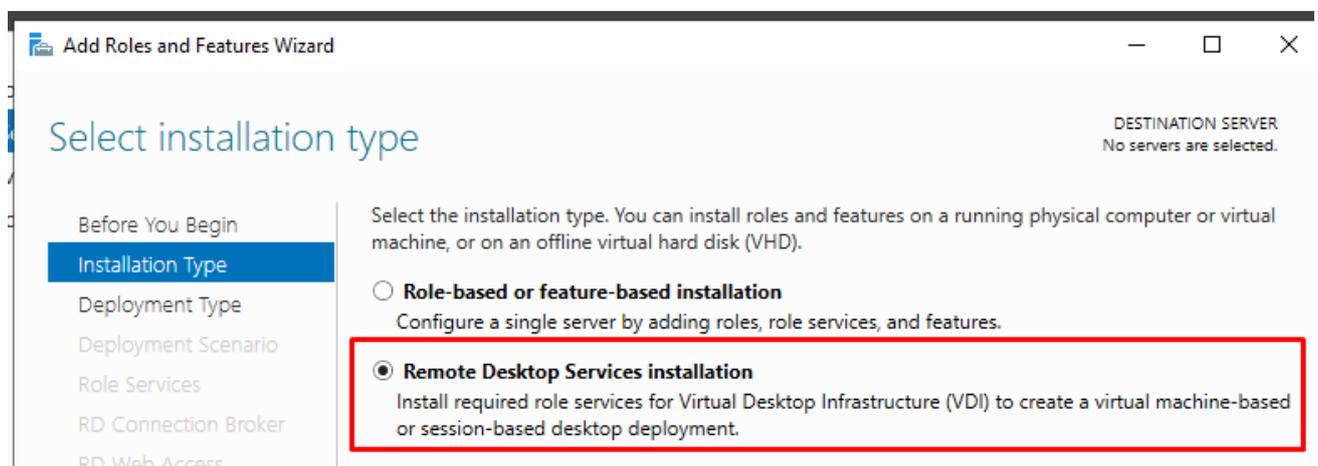
Once we have met the requirements, we move on to the installation by validating ourselves with a user with administration permissions on the server.

Access the "Server Manager" and click on "manage" on "Add Roles and Features".



In the wizard we follow the following steps:

Type of Installation.



Type of deployment.

Add Roles and Features Wizard

DESTINATION SERVER
No servers are selected

Select deployment type

- Before You Begin
- Installation Type
- Deployment Type**
- Deployment Scenario
- Role Services
- RD Connection Broker
- RD Web Access

Remote Desktop Services can be configured across multiple servers or on one server.

Standard deployment
A standard deployment allows you to deploy Remote Desktop Services across multiple servers.

Quick Start
A Quick Start allows you to deploy Remote Desktop Services on one server, and creates a collection and publishes RemoteApp programs.

Deployment scenario:

Add Roles and Features Wizard

DESTINATION SERVER
Standard deployment selected

Select deployment scenario

- Before You Begin
- Installation Type
- Deployment Type
- Deployment Scenario**
- Role Services
- RD Connection Broker
- RD Web Access
- RD Session Host

Remote Desktop Services can be configured to allow users to connect to virtual desktops, RemoteApp programs, and session-based desktops.

Virtual machine-based desktop deployment
Virtual machine-based desktop deployment allows users to connect to virtual desktop collections that include published RemoteApp programs and virtual desktops.

Session-based desktop deployment
Session-based desktop deployment allows users to connect to session collections that include published RemoteApp programs and session-based desktops.

The server where each element will be installed must be indicated:

Specify RD Connection Broker server

DESTINATION SERVER
Standard deployment selected

- Before You Begin
- Installation Type
- Deployment Type
- Deployment Scenario
- Role Services
- RD Connection Broker**
- RD Web Access
- RD Session Host
- Confirmation
- Completion

Select the servers from the server pool on which to install the RD Connection Broker role service.

Server Pool			Selected	
Name	IP Address	Operating System	Computer	
w2022rds1.MVDI.local	192.168.11.44		<ul style="list-style-type: none"> Computer <ul style="list-style-type: none"> MVDI.LOCAL (1) <ul style="list-style-type: none"> w2022rds1 	

Specify RD Web Access server

DESTINATION SERVER
Standard deployment selected

Before You Begin
Installation Type
Deployment Type
Deployment Scenario
Role Services
RD Connection Broker
RD Web Access
RD Session Host
Confirmation
Completion

Select a server from the server pool on which to install the RD Web Access role service.

Install the RD Web Access role service on the RD Connection Broker server

Server Pool		
Name	IP Address	Operating
w2022rds1.MVDI.local	192.168.11.44	

Selected

Computer

- MVDI.LOCAL (1)
 - w2022rds1

Specify RD Session Host servers

DESTINATION SERVER
Standard deployment selected

Before You Begin
Installation Type
Deployment Type
Deployment Scenario
Role Services
RD Connection Broker
RD Web Access
RD Session Host
Confirmation
Completion

Select the servers from the server pool on which to install the RD Session Host role service. If more than one server is selected, the RD Session Host role service will be deployed on all of them.

Server Pool		
Name	IP Address	Operating
w2022rds1.MVDI.local	192.168.11.44	

Selected

Computer

- MVDI.LOCAL (1)
 - w2022rds1

The installation is confirmed and it is deployed:

Confirm selections

DESTINATION SERVER
Standard deployment selected

Before You Begin
Installation Type
Deployment Type
Deployment Scenario
Role Services
RD Connection Broker
RD Web Access
RD Session Host
Confirmation
Completion

To complete the installation, you must restart the RD Session Host servers. After installation is complete on the remote computers, the local computer will be restarted.

RD Connection Broker (1 server selected)

w2022rds1.MVDI.local

RD Web Access (1 server selected)

w2022rds1.MVDI.local

RD Session Host (1 server selected)

 The following servers may restart after the role service is installed.

w2022rds1.MVDI.local

Restart the destination server automatically if required

< Previous Next > **Deploy** Cancel

View progress

- Before You Begin
- Installation Type
- Deployment Type
- Deployment Scenario
- Role Services
- RD Connection Broker
- RD Web Access
- RD Session Host
- Confirmation
- Completion**

DESTINATION SERVER
Standard deployment selected

The selected Remote Desktop Services role services are being installed.

Server	Progress	Status
RD Connection Broker role service		
w2022rds1.MVDI.local	<div style="width: 50%;"></div>	In Progress
RD Web Access role service		
w2022rds1.MVDI.local	<div style="width: 10%;">Installing...</div>	In Progress
RD Session Host role service		
w2022rds1.MVDI.local	<div style="width: 0%;"></div>	Pending

The server will automatically restart (if we have indicated this) and the installation will be completed:

View progress

- Completion**

DESTINATION SERVER
Standard deployment selected

The selected Remote Desktop Services role services are being installed.

Server	Progress	Status
RD Connection Broker role service		
w2022rds1.MVDI.local	<div style="width: 100%;"></div>	Succeeded
RD Web Access role service		
w2022rds1.MVDI.local	<div style="width: 100%;"></div>	Succeeded
RD Session Host role service		
w2022rds1.MVDI.local	<div style="width: 100%;"></div>	Succeeded

3.2. UDS RDS Server Installation

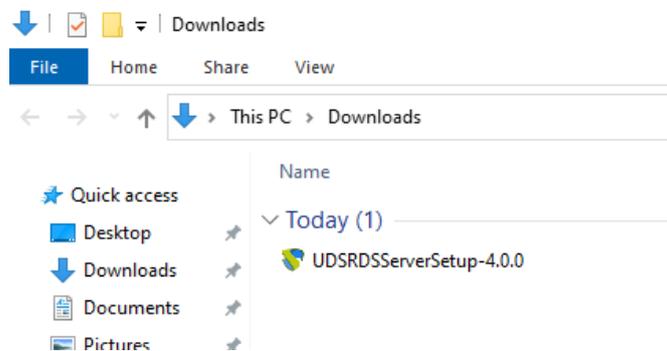
Before proceeding to install and configure an RDS collection, it is necessary to install the UDS RDS Server Agent. From the UDS Enterprise download page we select and download the UDS RDS Server.

Downloads

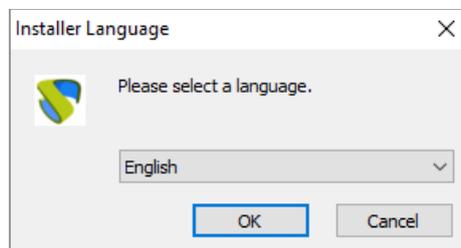
 udsactor_4.0.0_all.deb <small>UDS Actor for Debian, Ubuntu, ... Linux machines (Requires python >= 3.9)</small>	 udsactor-4.0.0-1.noarch.rpm <small>UDS Actor for Centos, Fedora, RH, Suse, ... Linux machines (Requires python >= 3.9)</small>
 udsactor-unmanaged_4.0.0_all.deb <small>UDS Actor for Debian based Linux machines. Used ONLY for static machines. (Requires python >= 3.9)</small>	 udsactor-unmanaged-4.0.0-1.noarch.rpm <small>UDS Actor for Centos, Fedora, RH, Suse, ... Linux machines. Used ONLY for static machines. (Requires python >= 3.9)</small>
 UDSRDSServerSetup-4.0.0.exe <small>UDS RDS Server (for remote apps on Windows Server)</small>	 UDSActorSetup-4.0.0.exe <small>UDS Actor for windows machines</small>
 UDSActorUnmanagedSetup-4.0.0.exe <small>UDS Actor for Unmanaged windows machines. Used ONLY for static machines.</small>	 RDSActorSetup-4.0.0.exe <small>RDS UDS Actor (legacy, use UDS RDS Server instead)</small>

• Always download the UDS actor matching your platform

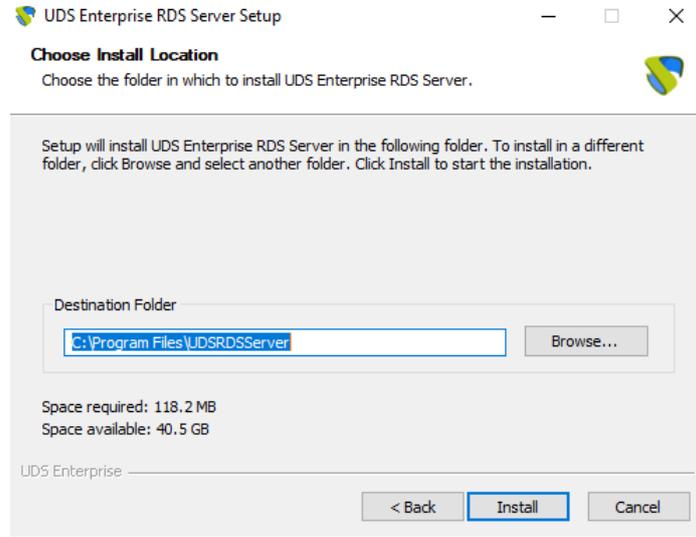
It is installed on the application server:



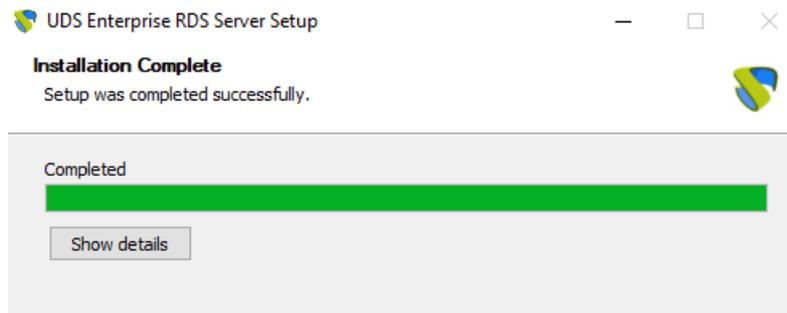
Select the language:



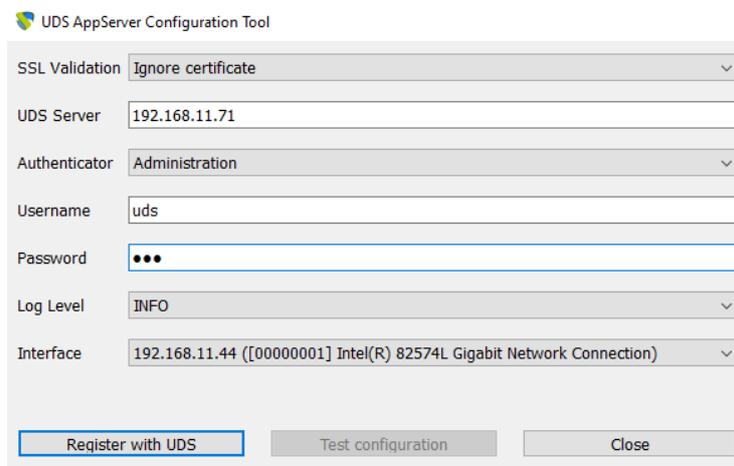
A location is selected and installed:



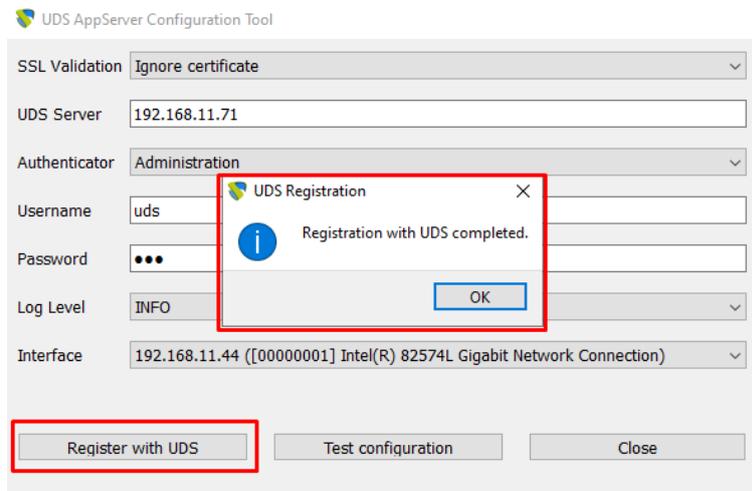
Once the installation is complete, we run the UDS Actor:



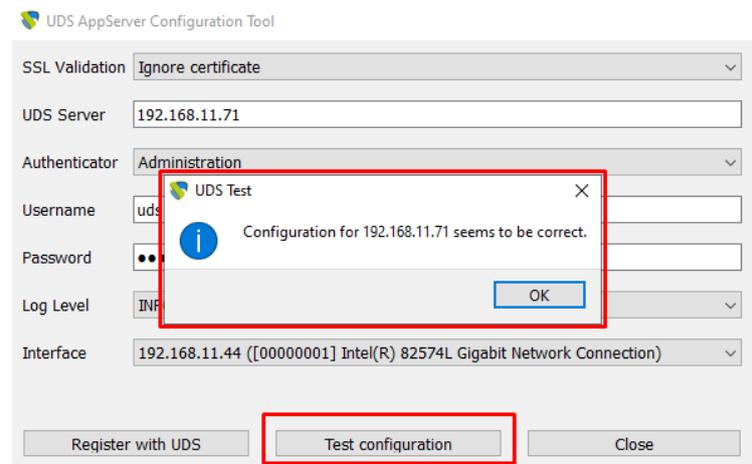
The address of the UDS server, an authenticator, and a user with administrator permissions belonging to the selected authenticator are indicated.



Once all the data has been entered, click on "**Register with UDS**" to register the Actor with our UDS server:



Click on "**Test configuration**" to confirm that all the data is correct:

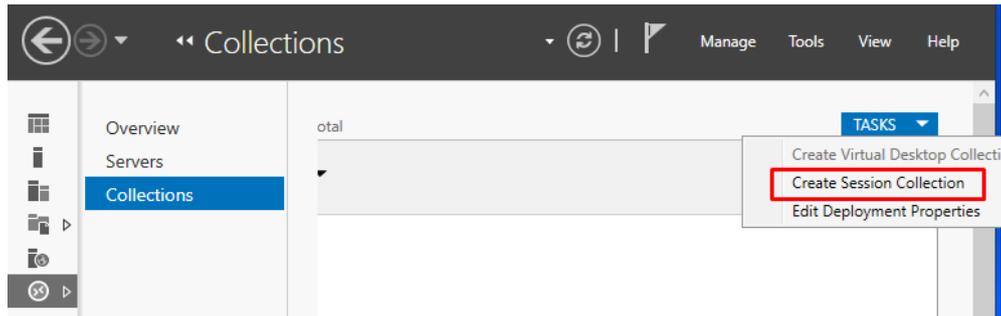


Once the UDS RDS Server for Windows RDS servers is installed, we will restart the server and we can proceed with the installation and configuration of the Microsoft Remote Desktop Services collection that will provide the application sessions.

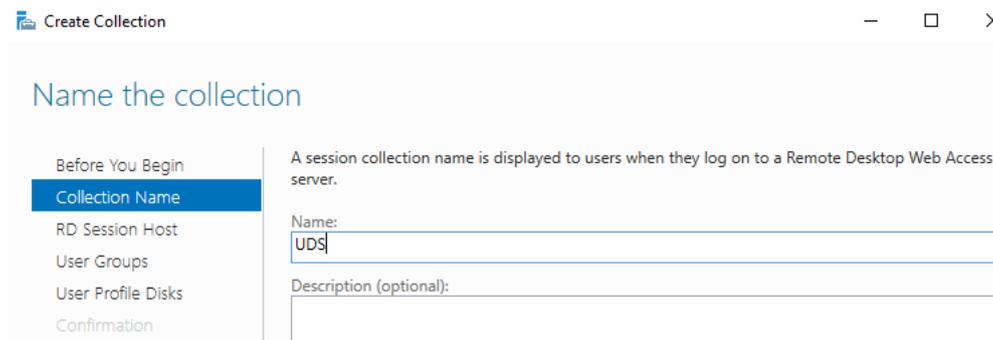
3.3. Configuring RDS with UDS Enterprise

Once the Remote Desktop Services role, the UDS RDS Server component have been installed and the server has been restarted, we proceed to the creation of a new RDS collection.

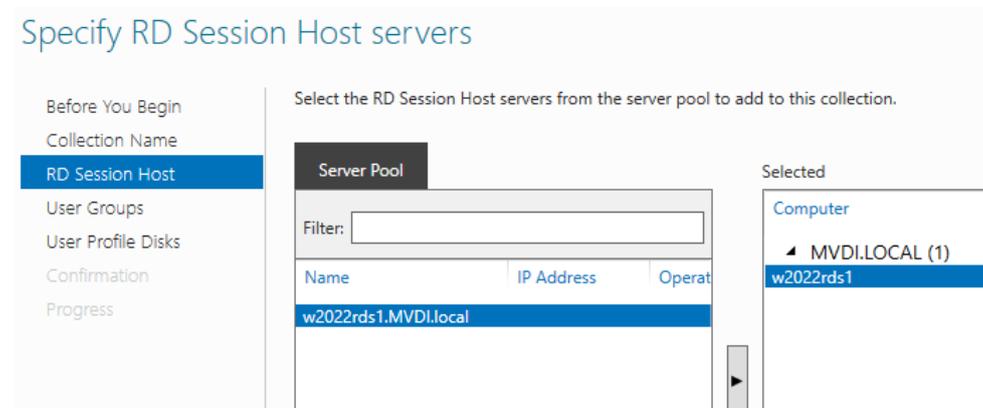
Select "**Create session collections**" or go to the "**Collections**" section and select "**Create Session Collection**":



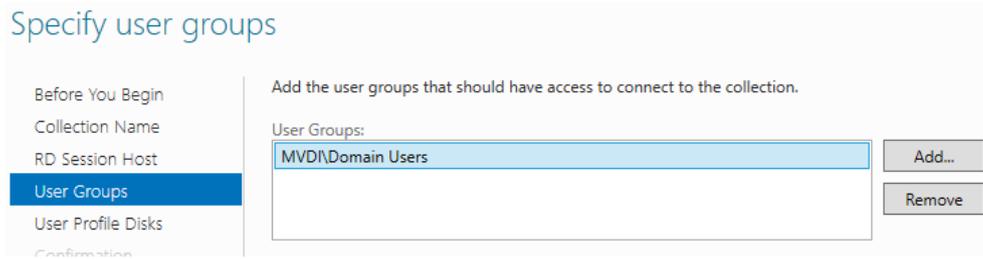
Select a name for the new collection.



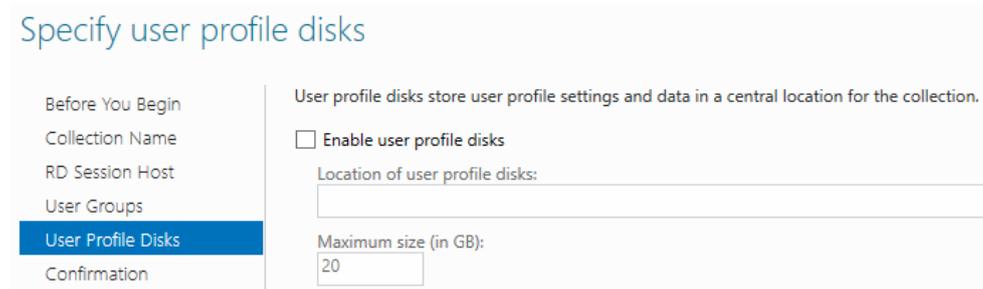
The "RD Session Host Servers" server is added:



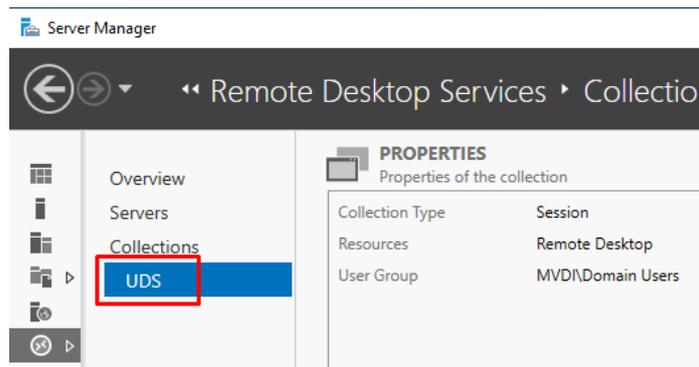
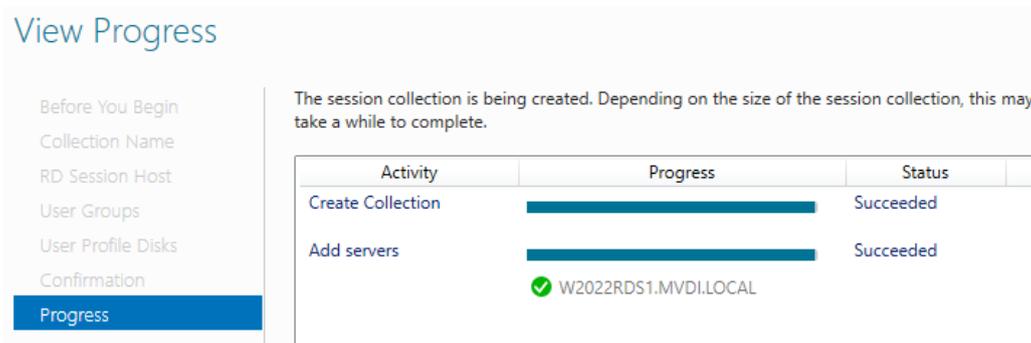
You select which groups of users will be able to access the collection. We leave the "Domain Users" group as it is by default to allow all users and perform group filtering from the UDS Enterprise administration.



It indicates where we want to store the profile of the users. In case we do not enable it, a temporary profile will be created, which will be deleted when the user is disconnected.



Confirm and create the collection.

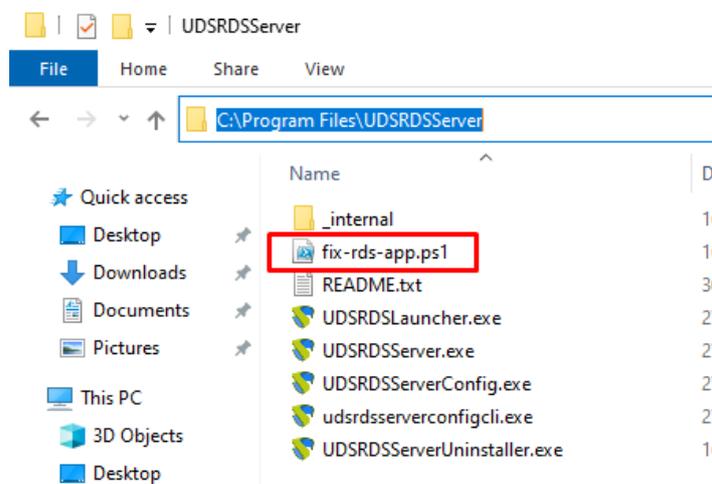


3.4. Publishing RDS Actor to RDS Server

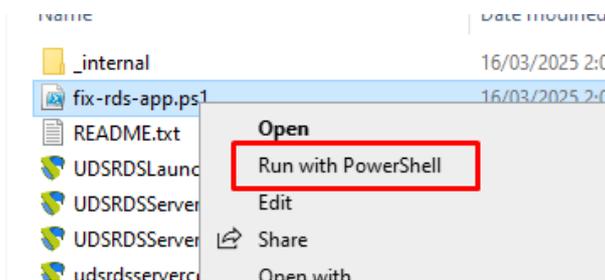
Once we have a collection, we will proceed to register the UDS RDS Server agent as "Remoteapp Programs". To do this, we can do it manually or by running the *fix-rds-app.ps1* script

- **Automatic Script**

We must run the *fix-rds-app.ps1* file from a Power Shell console with administrator permissions located in the default path: C:\Program Files\UDSRDSServer



NOTE: It is also possible to go to the file and with the right mouse button execute "Run with PowerShell", but in case of any error it will not be possible to view it, so whenever possible it is recommended to run it via PowerShell console. Once executed, it is necessary to close "Server Manager" and reopen it to view the changes, since it is not updated automatically.



Launch the script:

```

Administrator: Windows PowerShell
PS C:\Program Files\UDSRDSServer> ls

Directory: C:\Program Files\UDSRDSServer

Mode                LastWriteTime         Length Name
----                -
d-----          16/03/2025   2:06             _internal
-a----          16/03/2025   2:06           1005 fix-rds-app.ps1
-a----          30/05/2024  22:38           112 README.txt
-a----          27/01/2025  17:00       3789776 UDSRDSLancher.exe
-a----          27/01/2025  16:59       3992144 UDSRDSServer.exe
-a----          27/01/2025  17:00       4001032 UDSRDSServerConfig.exe
-a----          27/01/2025  17:00       4001032 udsrdsserverconfigcli.exe
-a----          16/03/2025   2:06           63498 UDSRDSServerUninstaller.exe

PS C:\Program Files\UDSRDSServer> .\fix-rds-app.ps1
  
```

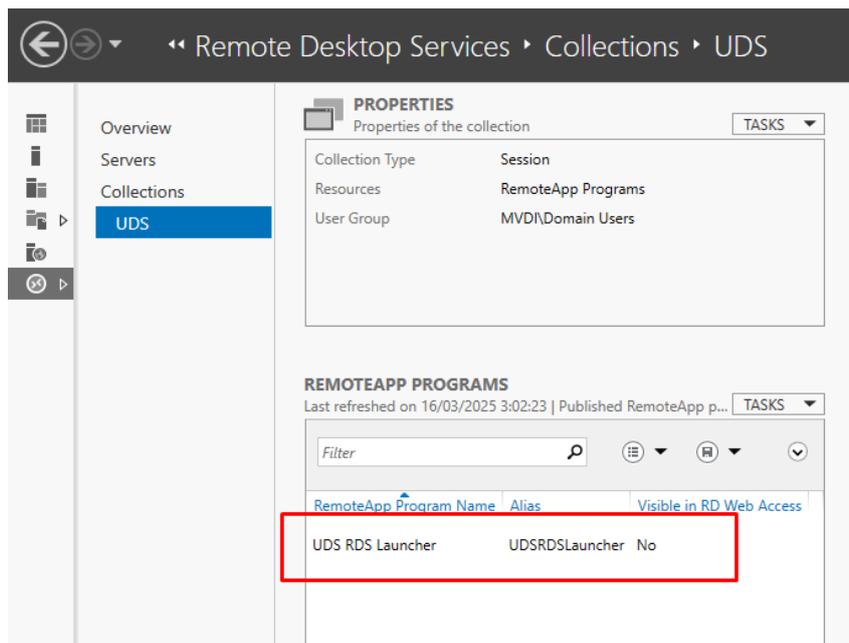
```

Administrator: Windows PowerShell
PS C:\Program Files\UDSRDSServer> .\fix-rds-app.ps1

CollectionName Alias      DisplayName      FilePath      ShowInWebAccess CommandLineSetting RequiredCommandLine Use
-----
UDS            UDSRDSLancher UDS RDS Launcher C:\Program Files\UDSRDSServer... False Allow

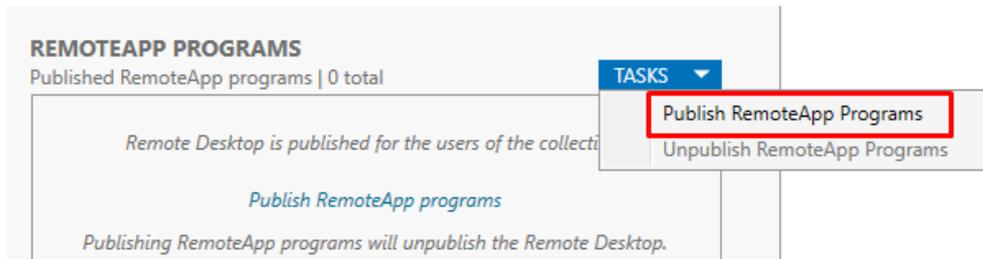
PS C:\Program Files\UDSRDSServer>
  
```

The script will be responsible for registering the UDS RDS server agent within the (existing) collection in the "Remoteapp programs" section; **to view it it will be necessary to close and reopen the "Server Manager" console.**

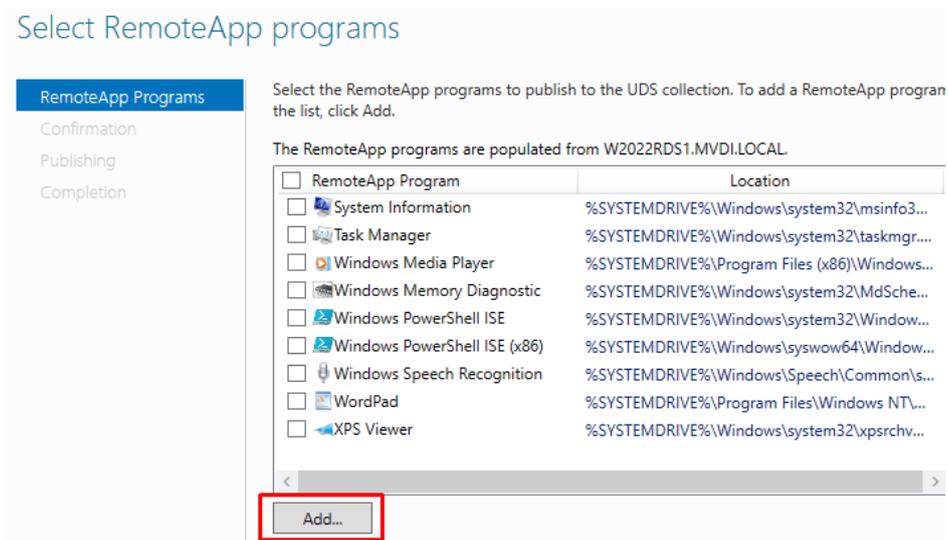


- **Manual registration**

In the "Remoteapp Programs" section, open the available tasks and select "Publish RemoteApp Programs".

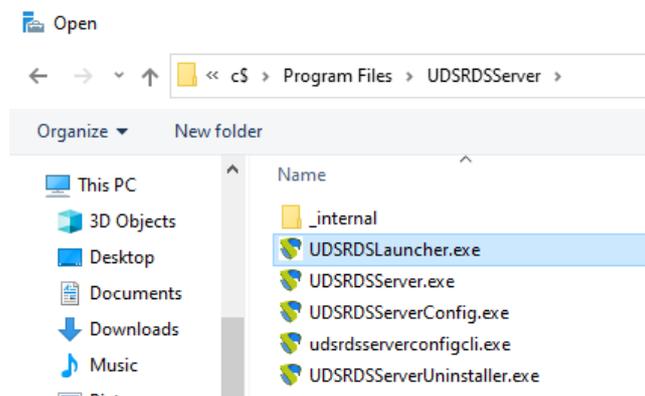


Click on "Add"



Select *UDSRDSLancher.exe* in the default path:

C:\Program Files\UDSRDSServer



Confirm that it has been added correctly.

RemoteApp Programs

Confirmation

Publishing

Completion

Select the RemoteApp programs to publish to the UDS collection. To add a RemoteApp program to the list, click Add.

The RemoteApp programs are populated from W2022RDS1.MVDI.LOCAL

RemoteApp Program	Location
<input type="checkbox"/> Task Manager	%SYSTEMDRIVE%\Windows\system32\taskmgr...
<input type="checkbox"/> Windows Media Player	%SYSTEMDRIVE%\Program Files (x86)\Windows..
<input type="checkbox"/> Windows Memory Diagnostic	%SYSTEMDRIVE%\Windows\system32\MdSche...
<input type="checkbox"/> Windows PowerShell ISE	%SYSTEMDRIVE%\Windows\system32\Window...
<input type="checkbox"/> Windows PowerShell ISE (x86)	%SYSTEMDRIVE%\Windows\syswow64\Window...
<input type="checkbox"/> Windows Speech Recognition	%SYSTEMDRIVE%\Windows\Speech\Common.s...
<input type="checkbox"/> WordPad	%SYSTEMDRIVE%\Program Files\Windows NT...
<input type="checkbox"/> XPS Viewer	%SYSTEMDRIVE%\Windows\system32\xpsrchv...
<input checked="" type="checkbox"/> UDSRDSLancher	c:\Program Files\UDSRDSServer\UDSRDSLanc...

Launch the publication:

Confirmation

RemoteApp Programs

Confirmation

Publishing

Completion

Confirm that the list of RemoteApp programs to be published is correct, and then click Publish.

1 RemoteApp program:

RemoteApp Program	Location
UDSRDSLancher	c:\Program Files\UDSRDSServer\UDSRDSLanc...

< Previous Next > Publish Cancel

Once it is created, edit its properties:

REMOTEAPP PROGRAMS

Last refreshed on 16/03/2025 3:19:44 | Published RemoteApp p... TASKS

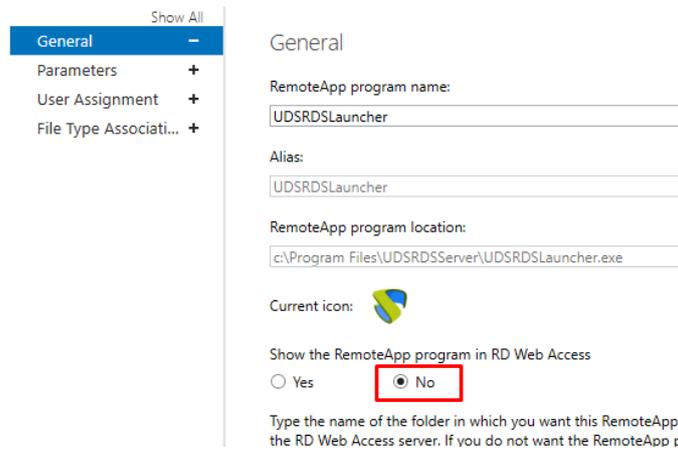
Filter

RemoteApp Program Name	Alias	Visible in RD Web Access
UDSRDSLancher	UDSRDSLancher	Yes

Edit Properties

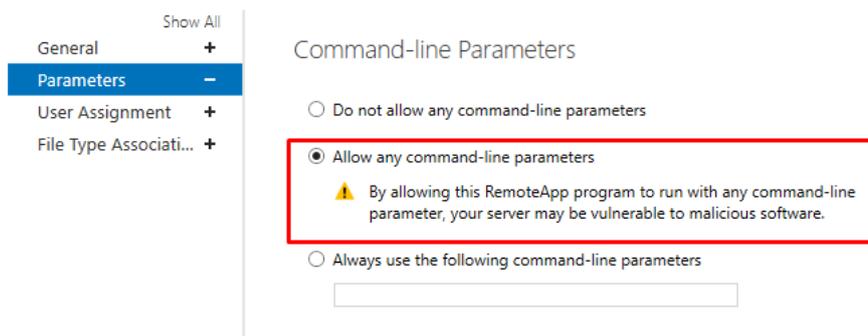
In the "General" section we mark "No" in "Show the RemoteApp program in RD Web Access".

UDSRDSLancher (UDS Collection)



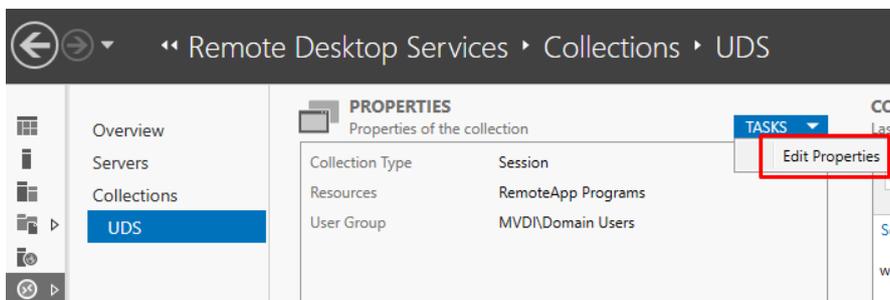
In the "Parameters" section we select "Allow any command-line parameters".

UDSRDSLancher (UDS Collection)



Changes are applied and accepted.

Additionally, it is recommended to indicate a time to end the sessions of disconnected users. This will free users and their licenses when they disconnect from your virtual app. To do this, we edit the properties of the collection:



In the "**Session**" section we indicate a minimum time for "**End a disconnected session**":

Session Collection

	Show All
General	+
User Groups	+
Session	-
Security	+
Load Balancing	+
Client Settings	+
User Profile Disks	+

Configure Session Settings

Set RD Session Host server timeout and reconnection settings for the session collection.

End a disconnected session:	1 minute
Active session limit:	Never
Idle session limit:	Never

Once all these steps have been completed, we will have a valid RDS server to connect to the UDS server and be able to publish virtual applications for UDS Enterprise users.

4. UDS Enterprise Administration

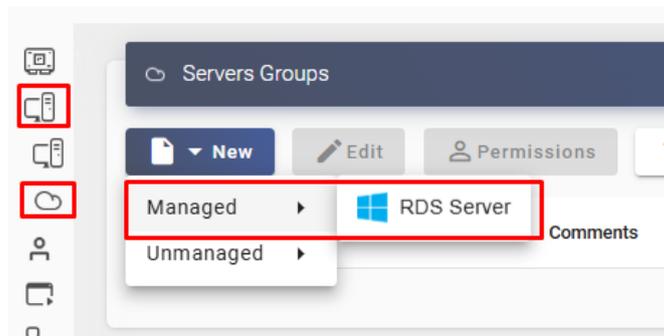
Once all the above steps have been completed and with an application server configured and ready to be used by UDS, the configuration will be carried out in the UDS administration to be able to publish virtual application session services.

We will access the UDS administration with a user with permissions and we will proceed to create the different elements to be able to publish the service through a service pool.

4.1. RDS Server Pool and Service Provider

The first of the elements necessary to publish applications will be the creation of a service provider of type "RDS Platform Provider", for this we must previously have registered at least one group of servers that will contain the RDS servers configured previously.

In the UDS administration, we access the "Services" section and select "Servers". Click on "New" and select the type "Managed" - "RDS Server" to register a new group of servers managed by the UDS RDS Server agent.



NOTE: if we use the "Unmanaged" - "RDS Server" type, it will be necessary to use the RDS actor, which will be discontinued in future versions and will not offer all the functionalities of the "Managed" mode with the UDS RDS Server agent.

We provide a descriptive name for the server group and save the item.

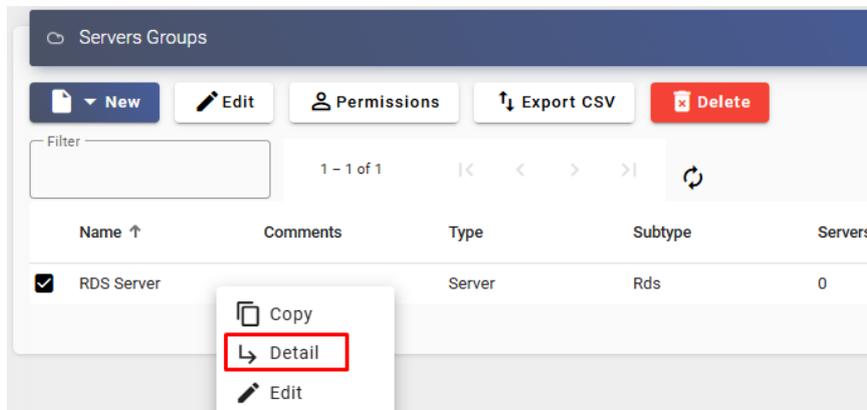
New server of type RDS Standard

Tags
Tags for this element

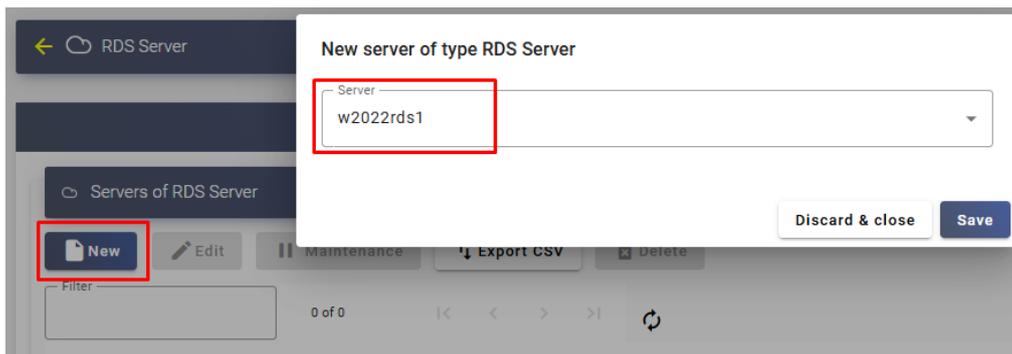
Name *
RDS Server

Comments

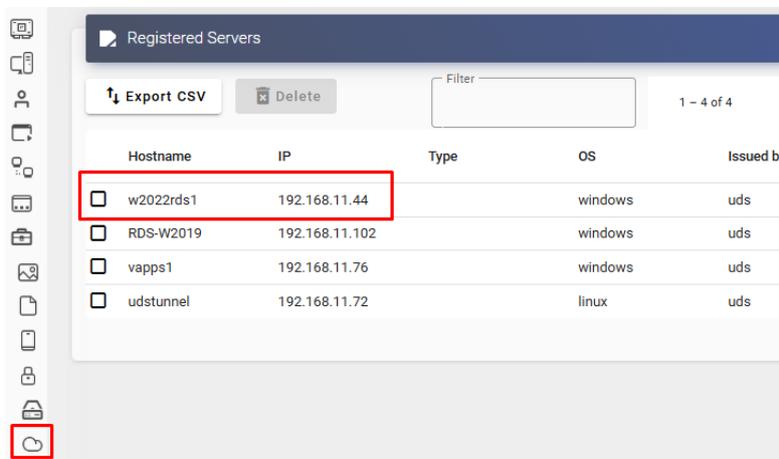
Enter the element by double-clicking on it or accessing its details



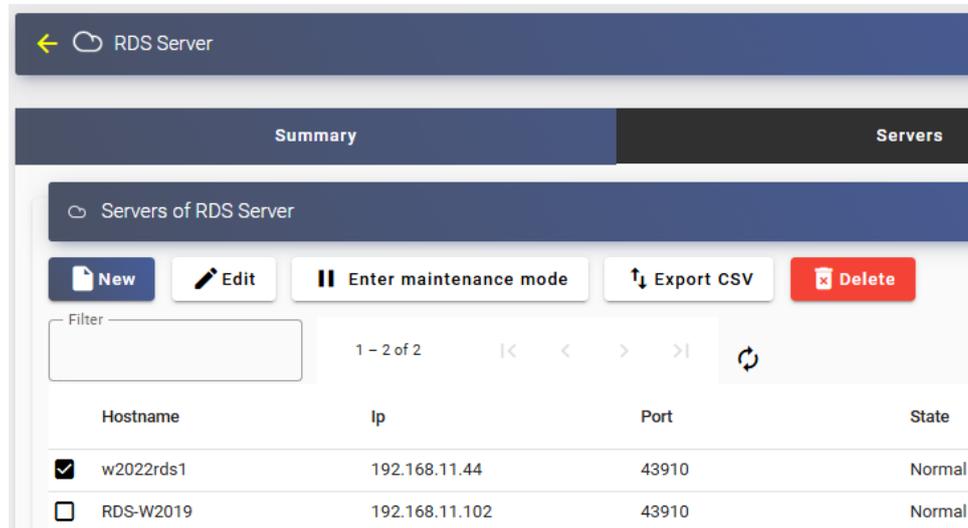
Click on "New" and add all the necessary RDS servers that will be part of this group of servers. The servers must be previously registered with the UDS server through the installation of the UDS RDS Server agent, if they have not been registered the drop-down menu will not appear to select it.



NOTE: All registered servers will appear in the "Tools" menu under "Tokens" – "Servers", if they do not appear in this section, they cannot be added to a group of servers and used by the RDS provider to serve virtual application sessions.

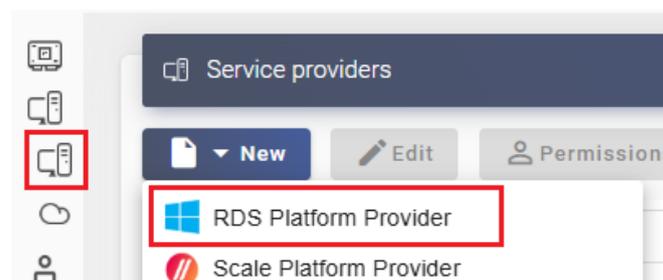


Once all the RDS servers that will make up the server group have been added, we will be able to view them and make sure that port 43910, which will be used for the correct communication between the RDS services and the UDS server, is allowed.



If we need to pause operations on a server, for example, for maintenance tasks, select it and click on "Enter maintenance mode" so that it is not used.

Once we have a valid server group, with at least one server registered, we will proceed to create the service provider of type "RDS Platform Provider". Go to the "Services" section and select "Providers". Click on "New" and select the type "RDS Platform Provider".



- In the "Main" tab, we will indicate a descriptive name for the element and indicate the server group (which contains the RDS servers that will run the applications), previously created and used by the provider. The "Server Checking" check will be important to enable if we want to provide the provider with high availability, allowing us to check the RDS server before launching an application and if it does not respond, pass the request to execute the application to another server in the group.

New provider

Main
 User mapping
 AD User management
 Advanced

Tags

Tags for this element

Name *

RDS vAPPs

Comments

Server Checking

Server group *

RDS Server

- The "User mapping" tabs (deprecated as of UDS version 4.0) and "AD User management" will allow us to map users who do not belong to UDS AD with others who do. For example, if we use users from an authenticator other than AD (Internal, IP, OpenLDAP, etc...) it will be possible to instruct the system to create an on-demand user in an AD and "match" it to the UDS authenticator user.

NOTE: If we use an Active Directory authenticator, it will not be necessary to enable automatic user mapping.

If we enable "**User auto creation on AD**", we must fill in the following fields:

User auto creation on AD: "Yes" indicates that specific users self-created by UDS in an AD will be used to access applications. **No** will use the user of the UDS login portal to access the applications (in this case it has to be an AD user).

AD Server: IP or name of the Active Directory server where new users will be created (the server must have connection via LDAPs enabled).

Port: Port used in the connection.

AD server OU for created users: An organizational unit where new users will be created.

Username: Domain user with permissions to create and delete users. In format: *user@dominio.xxx*

Password: Password of the user indicated

Prefix for created users: A prefix that will be added to the name of the user created in the AD. The final name of the created user will be: *prefix+nombre_usuario*.

AD Domain: Name of the domain where new users will register. If it is not indicated, the domain of the field: "Username" will be used.

AD Group: Name of the group (must exist) to which UDS will add the new users created.

New provider

User auto creation on AD

AD Server
192.168.11.40

Port *
636

AD server OU for created users
OU=UDS_Users,DC=vc,DC=local

Username
uds@mvgdi.local

Password
.....

Prefix for created users
UDS_

AD Domain
Domain for newly created users (i.e. example.com, example.local). I'

AD Group
If not empty, UDS will try to add managed users to this group

- In the "Advanced" tab, we can indicate the load balancing threshold of the servers that make up the server group. If the threshold is set to zero (default), the server in the pool that has the least resources in use will always be chosen (the calculation of resources in use is done taking into account the server's CPU and RAM usage).

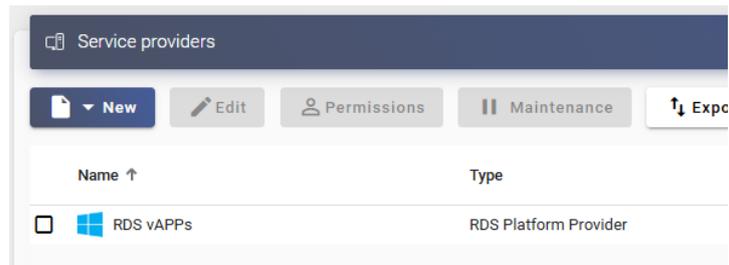
When a value other than zero is indicated, it will be taken as the percentage of maximum usage that the server must have to host user sessions. For example, if we have 3 servers, with usage percentages: server1= 10%, server2= 50%, server3=80% and the threshold is indicated as 60%, the system will host the new user on server2, since it is closer to the indicated threshold, without going over.

New provider

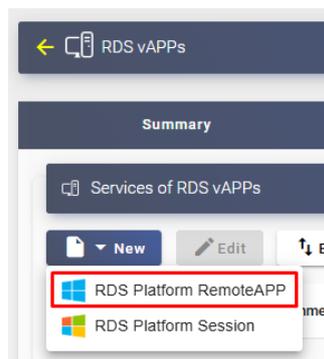
Main
 User mapping
 AD User management
 Advanced

Load threshold *
0

We save and we already have a valid RDS provider to start registering applications



We enter the provider with a "double click" or by accessing its details. Now click on "New" and select "RDS Platform RemoteAPP".



A name and the execution path of the application will be entered:

New service: RDS Platform RemoteAPP

Main
Advanced

Tags
 Tags for this element

Name *
 Paint

Comments

Application path *
 C:\Windows\System32\mspaint.exe

Application parameters
 Applications parameters, as will be passed in comm:

Start path
 Path where the app will be started on. (i.e. f:\exampl

In addition, other parameters can be defined if desired:

- **Application Parameters:** Parameters can be passed to any application in this field to customize its execution (e.g., to a browser-type application, a homepage).
- **Start Path:** The path where the application will run.

In the Advanced section we can also indicate:

- **Max. Allowed services:** Maximum number of concurrent sessions that can be launched from the application (0 = unlimited).
- **Wait spawned processes:** If enabled, the detection of the app's end-of-use will be conditioned by the child apps that the parent app calls. It is recommended that you enable this option when a user is not using the app correctly.

New service: RDS Platform RemoteAPP

Main	Advanced
Max. Allowed services * <input type="text" value="0"/>	
<input checked="" type="checkbox"/> Wait spawned processes	

4.2. Authentication Method

The way in which users will access the UDS Enterprise environment will be created and configured.

This step will be done in the "**authenticators**" tab, being able to choose between different authentication systems.

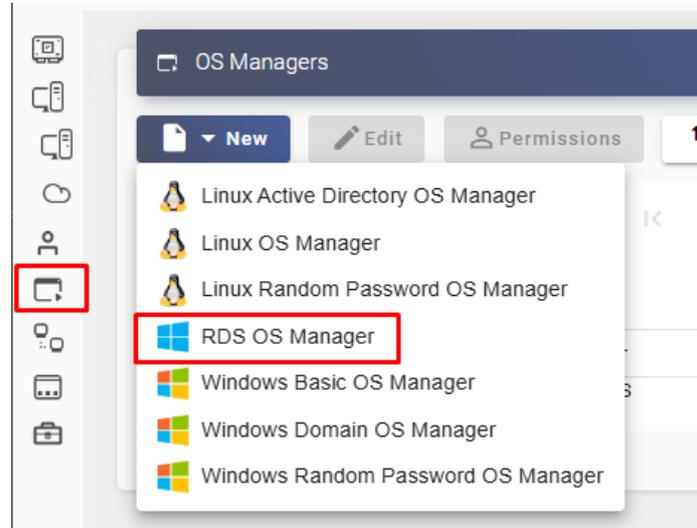
NOTE: We must take into account the way in which our users will log in to UDS Enterprise, since in this case if the users who access UDS Enterprise do not do so through the AD to which the RDS server belongs, we must indicate in the service the mapping of users so that they are those with whom the application is accessed.

This example will use an Active Directory-based authentication system.

For more information on how to register an authentication system, you can consult the "UDS Enterprise Administration Manual" in the [documentation section](#).

4.3. OS Manager

Within the "OS Manager" tab, clicking on "New" will select "RDS OS Manager".



In this type of OS Manager we will define the following parameters:

Name: Name of the "OS Manager".

Max. session time: Maximum time that the session of an application registered in UDS Enterprise will remain. Expressed in hours (0 = unlimited).

New OS Manager

Tags
Tags for this element

Name *
RDS

Comments

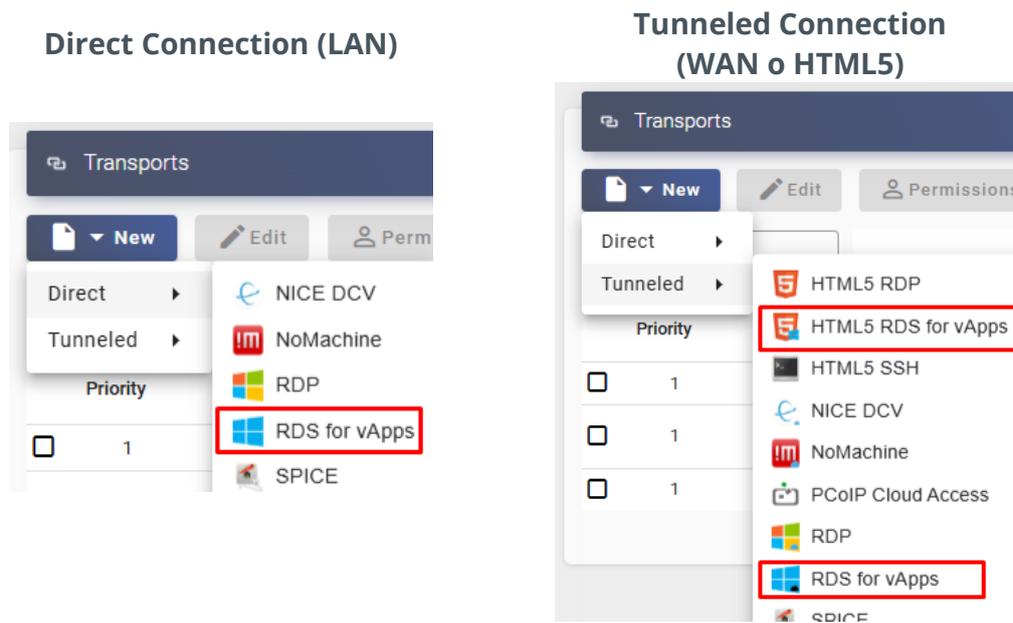
Max. session time *
24

4.4. Transport

The way in which users will connect to your virtual application service will be created and configured.

In the "**Connectivity > Transport**" tab, click on "**New**".

The appropriate transport will be configured for each case:



New Transport

<
Main
Credentials
Parameters
D >

Tags

Tags for this element

Name *

RDS Windows

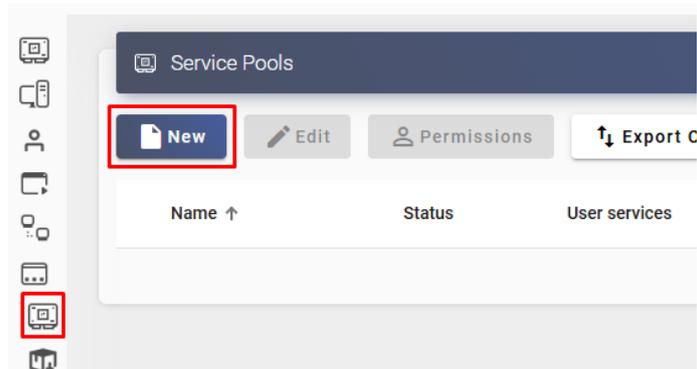
In this example, we'll use the "**RDS for vAPPS**" direct transport

For more information on how to create a transport for RDS applications, you can consult the "UDS Enterprise Administration Manual" in the [documentation section](#).

4.5. Service Pool

Once we have completed the previous steps and have all the necessary elements available, we will move on to configure the Service Pool.

In the "**Pools > Service Pool**" tab, click on "**New**".



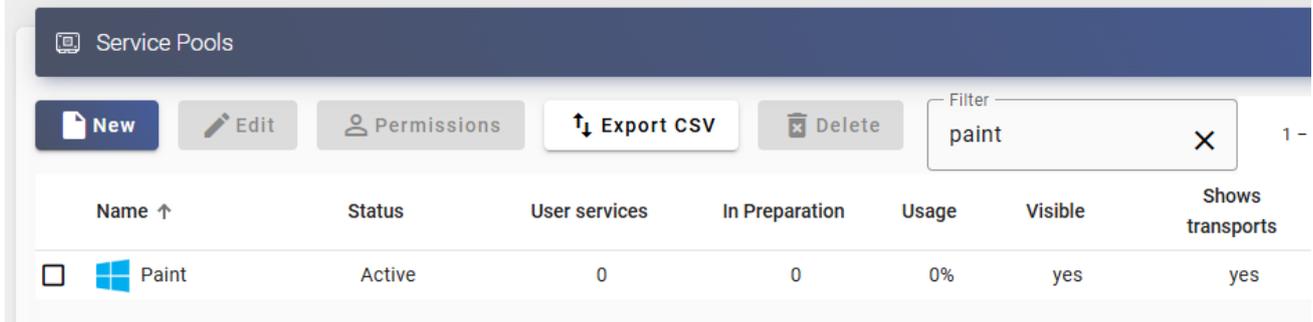
A descriptive name will be entered for the application to be published, the base service and its OS Manager.

New service Pool

Main	Display	Advanced	Availability
Tags Tags for this element			
Name * Paint			
Short name Short name for user service visualization			
Comments			
Base service RDS vAPPs\Paint			
OS Manager RDS			
<input checked="" type="checkbox"/> Publish on creation			

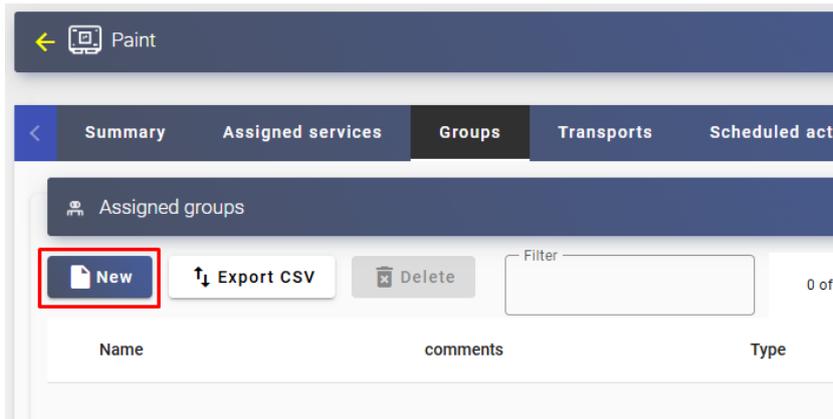
In the following tabs, among other things, we can indicate an image and grouping for the service, advanced permissions so that the user can perform actions, etc. For more information on the rest of the options of a service pool, you can consult the "UDS Enterprise Administration Manual" in the [documentation section](#).

We save and we will have available the pool of services to assign who and how will access.



Once we have created the service, we will enter it (by double-clicking on it or entering its details) to assign user groups and transports:

- **User groups:** In the "Groups" tab, click on "New", select an authenticator and a group and add it



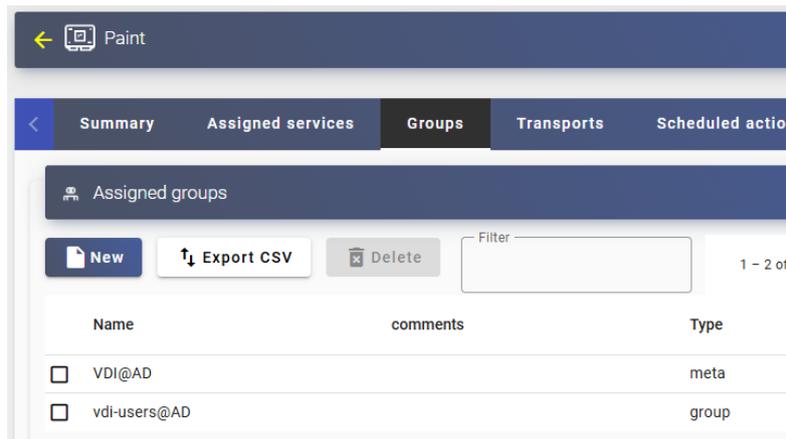
New group for Paint

Authenticator

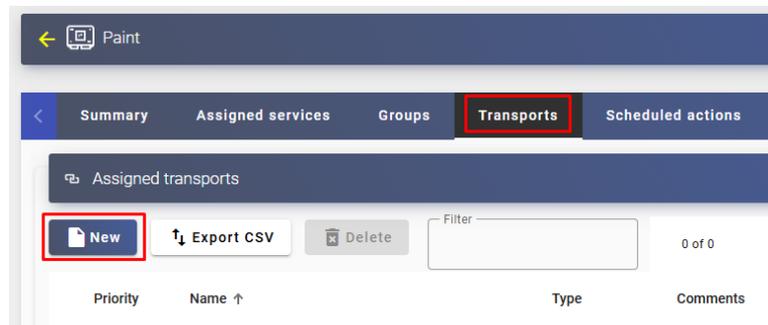
Group

We will be able to add all the authenticators and groups that we need to access the application.

If you add non-Active Directory authenticators, you will need to have the user mapping option available from the service provider configured.



- **Transport:** In the "Transports" tab, click on "New", select a transport by which the service will be accessible.

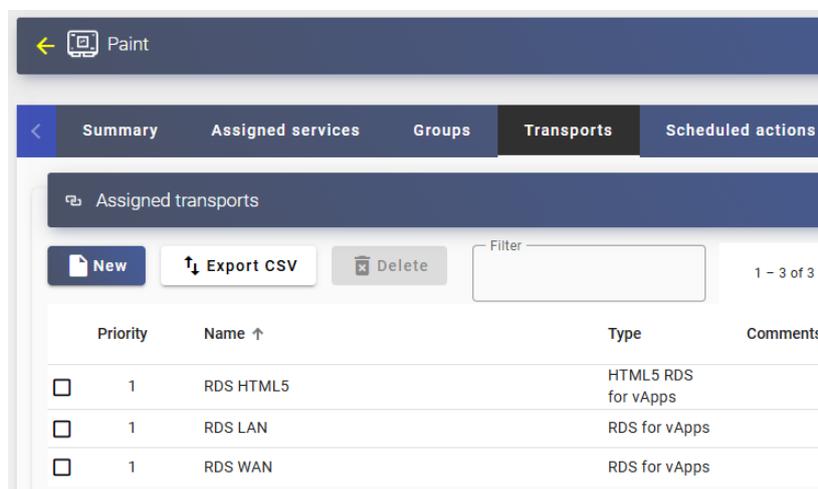


New transport for Paint

Transport

RDS LAN

We will be able to add all the transports we need, depending on the access mode required by the service (either via RDS for vAPPs, HTML5, etc...). Although we indicate a multitude of transports here, it is possible that the user will only be shown the appropriate ones based on their filtering policies (by IP source, device, etc...).

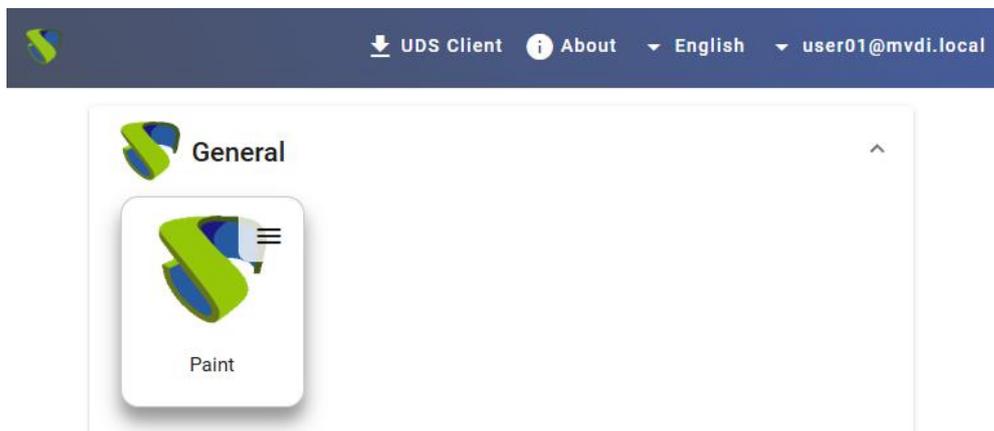


5. Access to Windows apps

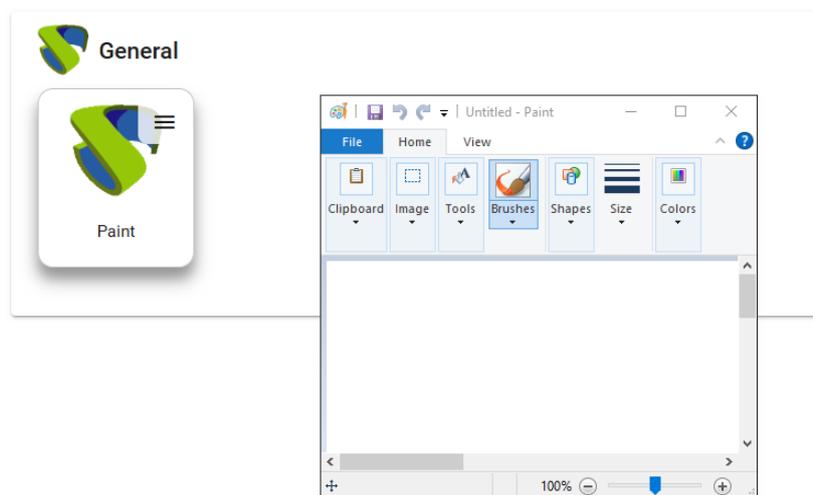
Once all the configuration is complete, access to the service will be possible. This access can be made from Windows OS (Server and Desktop) and from Linux OS through the UDS client and from any OS with a browser through the HTML5 connection mode.

We access the UDS Enterprise login portal and validate ourselves with an AD user integrated in UDS and who belongs to a group that is registered in said authenticator.

In the User Services window, you will be able to see the available service:



Depending on the configuration of the transport or via manual selection, it will be connected to the application.

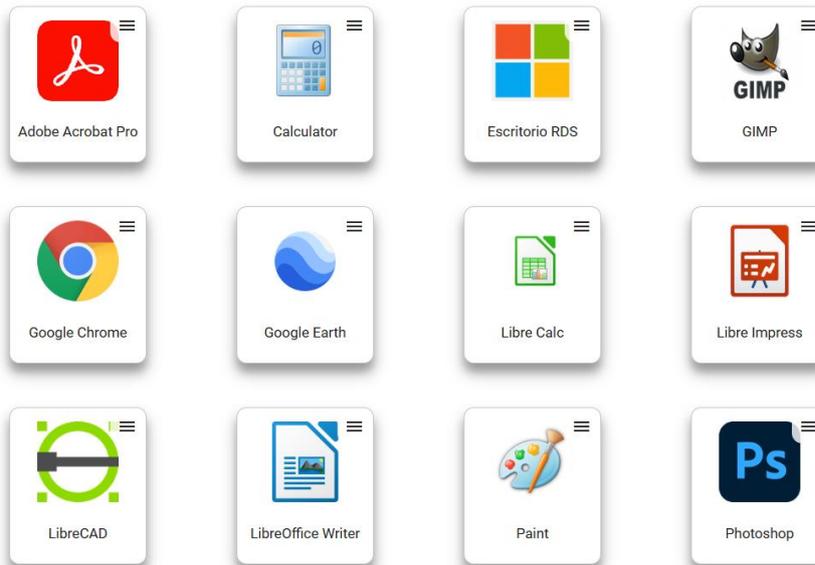


NOTE: For the application to be visible to a user, it is necessary that it has been assigned a group to which the user belongs and has at least one mode of connection (transport), if these requirements are not met, the user will not be able to view said application.

A user can have unlimited applications available grouped in different ways based on their needs, it is also recommended to identify applications with their corresponding icon to make it easier for the user to identify.



Windows Virtual Apps



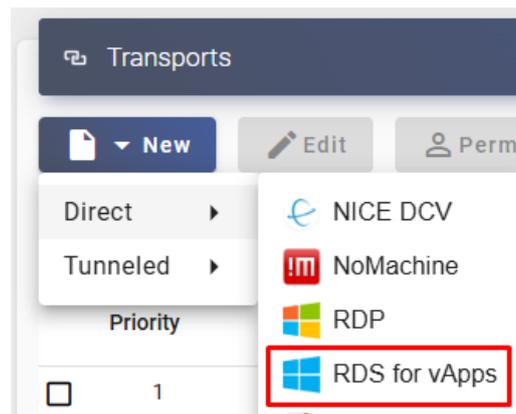
6. Different methods of accessing a vApp service

The same vApp service can be assigned one or more modes of access (transports), depending on the user's needs, for example, if it is connected from the corporate LAN or from an external network and depending on the OS of the device from which it is connected (Windows Linux, Android, etc...).

The transports must be previously defined and we will assign them to a specific application or we can use them generically for several applications.

6.1. Direct (LAN)

The direct transport that we can use for virtual application services is "RDS for vApps".

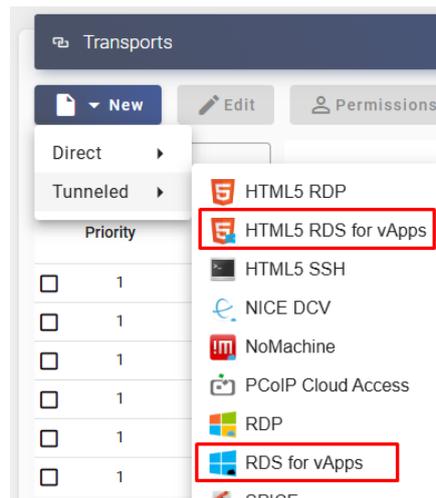


To successfully use this transport, the connecting client from which the user connects must meet the following requirements:

- Have the UDS Client component installed.
- Have a Windows or Linux OS.
- Have direct connectivity via port 3389 to the application servers that make up the RDS server pool.

6.2. Tunneling (LAN and WAN)

The tunneled transports that we can use for virtual application services will be "HTML5 RDS for vAPPs" and "RDS for vAPPs". Either of these two transports will require having a Tunnel server configured and registered with the UDS server.



- **HTML5 RDS for vAPPs:** This transport does not require the UDS Client component installed and its only requirement at the OS level of the connection client will be to have a current web browser. The app will be displayed directly in a browser tab.

Within the "tunnel" tab of the transport, we must indicate a Tunnel server with the configured port that will be the one to which the user will connect. The address of this tunnel must be accessible by the user's connection client even if the access is from outside the LAN, in which case a previously configured public IP must be used.

- **RDS for vAPPs:** This transport requires the UDS Client component installed and the OS of the connection client to be Windows or Linux.

Within the "tunnel" tab of the transport, we must indicate a Tunnel server with the configured port that will be the one to which the user will connect. The address of this tunnel must be accessible by the user's connection client even if the access is from outside the LAN, in which case a previously configured public IP must be used.

7. About Virtual Cable

[UDS Enterprise](#) is a new software concept to create a **fully** customized **workplace virtualization** platform. It provides **24x7 secure access**, from anywhere and on any **device** to all the applications and software of an organization or educational center.

It allows virtualization **of Windows** and **Linux** desktops **and** applications **in a single console**, as well as **remote access** to Windows, Linux and macOS computers. Its Open Source base guarantees **compatibility with any** third-party technology. It can be deployed **on-premise**, in public, private, hybrid or **multicloud** cloud. Even **combine** multiple environments at the same time and perform **automatic, intelligent overflows** to optimize performance and efficiency. All with a **single subscription**.

[Virtual Cable](#) is a company specialized in the **digital transformation** of the **workplace**. The company develops, supports and markets UDS Enterprise. It has recently been recognized as an **IDC Innovator in Virtual Client Computing** worldwide. Its team of experts has designed **smart digital workplace solutions (VDI, vApp and remote access to physical computers)** tailored to **each sector** to provide a unique user experience fully adapted to the needs of each user profile. Virtual Cable's professionals have **more than 30 years of experience** in IT and software development and more than 15 years in virtualization technologies. Every day, **millions of Windows and Linux virtual desktops are deployed with UDS Enterprise around the world**.