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Introduction

The UDS Enterprise VDI and vApp connection broker allows the deployment and management of remote Windows application sessions through the Microsoft Remote Desktop Services (RDS) service. These applications can be assigned to user groups.

Access to remote application sessions can be done through Windows and Linux OS with the installation of the "UDS Client" component and through any device that has a web browser with the HTML5 connection mode.

Users will run application sessions on Windows servers with the RDS role enabled and configured.

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



Necessary elements

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

Application servers (physical or virtual)

The Windows servers that will be in charge of 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. These groups can be made up of virtual and physical servers.

The application servers (physical or virtual) must have sufficient resources (vCPU, vRAM, and disk) to be able to run the applications.

Windows OS for vApp Servers

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

- Windows 2012 R2
- Windows 2016
- Windows 2019

In this example, it will be use a Windows Server 2019 image:





RDS Actor

To download the RDS Actor it is necessary to validate in the UDS Enterprise login window with a user with administrator permissions. Display the user menu and access the downloads. In this window download the Actor for Windows machines, specifically for RDS servers.

UDS Enterprise		👱 UDS Client 🕠 About English 🗸
	Dowr	nloads
C	UDS Actor for Debian, Ubuntu, Linux machines (Requires python >= 3.6)	UDS Actor for Centos, Fedora, RH, Suse, Linux machines (Requires python >= 3.6)
C	UDS Actor for Debian based Linux machines. Used ONLY for static machines. (Requires python >= 3.6)	RDS UDS Actor (for remote apps on Windows Server)
	UDSActorSetup-3.5.0.exe UDS Actor for windows machines	UDS Actor for Unmanaged Setup-3.5.0.exe UDS Actor for Unmanaged windows machines. Used ONLY for static machines.

Various

To carry out the following procedure, it will be necessary to have a domain user with administration permissions on the RDS server.



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Application server configuration

The following are all the necessary tasks to perform on the RDS application server.

OS Windows Server

Start with the machine that you will use as a server.

The installation will be carried out with the default values and indicating some resources (disk, vRAM and vCPUs) according to the requirements of the applications that you will install on the machine.

Once the Windows server image has been downloaded, proceed to install it:

🖆 Windows Setup	- • •
Windows Server• 2019	
Languag <u>e</u> to install: <mark>English (United States)</mark> Time and currency format: <mark>English (United States)</mark>	·
Keyboard or input method: US	
Enter your language and other preferences and click "Next" to continue.	
© 2018 Microsoft Corporation. All rights reserved.	Next



When you get to the part of the installation wizard where it asks us to select the type of OS, choose the option "**Desktop Experience**".

🔏 Windows Setup		
Select the operating system you want to install		
Operating system	Architecture	Date modified
Windows Server 2019 Standard	хб4	3/12/2019
Windows Server 2019 Standard (Desktop Experience)	хб4	3/12/2019
Windows Server 2019 Datacenter	хб4	3/12/2019
Windows Server 2019 Datacenter (Desktop Experience)	x64	3/12/2019
Description: This option installs the full Windows graphical environment	, consuming extra d	rive space. It can be
useful if you want to use the Windows desktop or have an a	pp that requires it.	

Once the OS installation is complete, it is important to install the virtual machine drivers corresponding to the virtualization platform. In this example the "**VMware tools**" will be installed, since the OS will run on the VMware vSphere virtual platform.



RDS Actor Installation

The following requirements must be met:

- Have an updated Windows Server 2012 R2, 2016,2019 or 2022 OS. (Installed and configured in the previous section).
- Have the IP of the broker, as well as an administrator user of the same.
- The server must have a fixed IP address.
- The server has to be part of a domain.

Before proceeding to install and configure RDS, it is necessary to install the UDS Actor. From the UDS Enterprise download page select and download the actor for RDS servers **(RDS UDS Actor).**

Downle	oads
udsactor_3.5.0_all.deb UDS Actor for Debian, Ubuntu, Linux machines (Requires python >= 3.6)	UDS Actor for Centos, Fedora, RH, Suse, Linux machines (Requires python >= 3.6)
udsactor-unmanaged_3.5.0_all.deb UDS Actor for Debian based Linux machines. Used ONLY for static machines. (Requires python >= 3.6)	RDSActorSetup-3.5.0.exe RDS UDS Actor (for remote apps on Windows Server)
UDSActorSetup-3.5.0.exe UDS Actor for windows machines	UDSActorUnmanagedSetup-3.5.0.exe UDS Actor for Unmanaged windows machines. Used ONLY for citatio machines

It will be installed on the Windows server:





The license agreement is accepted:

😵 UDS Enterprise Actor Setup 🦳 🗌	\times
License Agreement	
Please review the license terms before installing UDS Enterprise Actor.	<u></u>
Press Page Down to see the rest of the agreement.	
Copyright (c) 2012-2022 Virtual Cable S.L.U. All rights reserved.	^
Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:	
 Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation 	
and/or other materials provided with the distribution.	~
If you accept the terms of the agreement, click I Agree to continue. You must accept the agreement to install UDS Enterprise Actor.	2
UDS Enterprise	
< Back I Agree Car	ncel

Choose an install location:

😵 UDS Enterprise RDS Actor Setup - 🗌	\times
Choose Install Location	
Choose the folder in which to install UDS Enterprise RDS Actor.	•
Setup will install UDS Enterprise RDS Actor in the following folder. To install in a different folder, click Browse and select another folder. Click Install to start the installation.	
Destination Folder	-
C:\Program Files\RDSActor Browse	
Space required: 77.5 MB	
Space available: 28.0 GB	
UDS Enterprise	_
< Back Install Cancel	

Once the installation is finished, run the UDS Actor:

😵 UDS Enterprise RDS Actor Setup		×
Installation Complete Setup was completed successfully.		8
Completed		
Show details		



The address of the UDS server, an authenticator and a user with administrator permissions that belongs to the selected authenticator are displayed.

😽 UDS Actor Co	nfiguration Tool	?	×
SSL Validation	Ignore certificate		~
UDS Server	192.168.0.6		
Authenticator	dbinterna		\sim
Username	udsadmin		
Password	•••••		
Log Level	ERROR		\sim
Register	with UDS Test configuration Close	1	

Once all the data has been indicated, click on "Register with UDS" to register the Actor with your UDS server:

😽 UDS Actor Co	nfiguration Tool	?	×
SSL Validation	Ignore certificate		~
UDS Server	192.168.0.6		
Authenticator	dbintern 💎 UDS Registration X		\sim
Username	udsadmin () Registration with UDS completed.		
Password	ок		
Log Level	ERROR		\sim
Register	with UDS Test configuration Close	e	

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

😽 UDS Actor Co	onfiguration Tool	?	×
SSL Validation	Ignore certificate		\sim
UDS Server	192.168.0.6		
Authenticator	dt 💎 UDS Test 🛛 🗙		\sim
Username	uc Configuration for 192.168.0.6 seems to be correct.		
Password	ок		
Log Level	EFROR		\sim
Register	with UDS Test configuration Close	e	

Once the UDS Actor for Windows RDS servers is installed, proceed with the installation and configuration of Microsoft Remote Desktop Services.

NOTE: It is necessary that in the UDS environment there is at least one authenticator.



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Remote Desktop Service (RDS) Installation

The following requirements must be met:

- Have an updated Windows Server 2012 R2, 2016,2019 or 2022 OS.
- The server must have a Static IP address.
- The server has to be part of an Active Directory (AD) domain.

Once the requirements are met, you can move on to the installation.

The server administrator is accessed to add said service:

📥 Server Manager					- [i x
🕞 🕘 🗝 애 Dashb	oard	• 🕲 🖡	Man	age Tools	View	Help
)	5			Add Roles and	d Features	
				Remove Roles	s and Featu	res
🔛 Dashboard	WELCOME TO SERVE	R MANAGER		Add Servers		
Local Server			-	Create Server	Group	
					cicap	
File and Storage Services		Configure	2	Server Manag	jer Properti	es

In the wizard follow the following steps:

Installation type.





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Type of deployment.

📥 Add Roles and Features Wizard		2 <u>1</u> 2		×
Select deploymer	nt type	DESTINA No server	TION SERV s are select	/ER ted
Before You Begin Installation Type	Remote Desktop Services can be configured across multiple servers or on one ser	ver.		
Deployment Type	A standard deployment allows you to deploy Remote Desktop Services across	multiple s	ervers.	
Role Services	○ Quick Start			
RD Connection Broker	A Quick Start allows you to deploy Remote Desktop Services on one server, an and publishes RemoteApp programs.	d creates a	a collectio	on

Deployment scenario:

📥 Add Roles and Features Wizard				×
Select deploymer	nt scenario	DESTINA Standard deploy	NTION SERV	/ER ted
Before You Begin Installation Type Deployment Type	Remote Desktop Services can be configured to allow users to connect to programs, and session-based desktops. O Virtual machine-based desktop deployment	virtual desktops, R	RemoteAp	р
Deployment Scenario	Virtual machine-based desktop deployment allows users to connect to that include published RemoteApp programs and virtual desktops	o virtual desktop c	ollections	;
Role Services RD Connection Broker RD Web Access	Session-based desktop deployment Session-based desktop deployment allows users to connect to session published RemoteApp programs and session-based desktops.	1 collections that ir	nclude	

A summary of what will be installed appears:





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

📥 Add Roles and Features Wizard				- 🗆 X
Specify RD Connection Broker server			DESTINATION SERVER Standard deployment selected	
Before You Begin Installation Type Deployment Type	Select the servers from the s	server pool on whi	ch to install the	RD Connection Broker role service. Selected
Deployment Scenario Role Services	Filter:			Computer
RD Connection Broker RD Web Access	Name WIN-E3CBPGNF05B.vc.lo	IP Address 192.168.15.93	Operating	WIN-E3CBPGNF05B

📥 Add Roles and Features Wizard		— 🗆 ×
Specify RD Web .	Access server	DESTINATION SERVER Standard deployment selected
Before You Begin Installation Type	Select a server from the server pool on which to install the RD W.	'eb Access role service. Broker server
Deployment Type Deployment Scenario	Server Pool	Selected
Role Services RD. Connection Broker	Filter:	Computer
RD Web Access	Name IP Address Operating	 VC.LOCAL (1) WIN-E3CBPGNF05B
RD Session Host	WIN-E3CBPGNF05B.vc.lo 192.168.15.93	
Add Roles and Features Wizard		X
Specify RD Sessic	on Host servers	DESTINATION SERVER Standard deployment selected
Before You Begin Installation Type	Select the servers from the server pool on which to install the RD one server is selected, the RD Session Host role service will be de) Session Host role service. If more than eployed on all of them.

Deployment Type	Server Pool			Selected
Deployment Scenario				
Role Services	Filter:			Computer
RD Connection Broker				 VC.LOCAL (1)
RD Web Access	Name	IP Address	Operating	WIN-E3CBPGNF05B
RD Session Host	WIN-E3CBPGNF05B.vc.lo	. 192.168.15.93		



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The installation is confirmed and its deployment is carried out:

📥 Add Roles and Features Wizard		×
Confirm selections	DESTINATION SERV Standard deployment select	ER ed
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 completent on the remote computers, the local computer will be restarted. RD Connection Broker (1 server selected) WIN-E3CBPGNF05B.vc.local RD Web Access (1 server selected) WIN-E3CBPGNF05B.vc.local RD Session Host (1 server selected) MIN-E3CBPGNF05B.vc.local RD Session Host (1 server selected) WIN-E3CBPGNF05B.vc.local	ete
	Restart the destination server automatically if required	
	< Previous Next > Deploy Cancel	



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📥 Add Roles and Features Wizard			- D X
View progress			DESTINATION SERVER Standard deployment selected
Completion	The selected Remote Desktop Server	Services role services are being ins Progress	talled. Status
	RD Connection Broker role	service	
	WIN-E3CBPGNF05B.vc.local		Succeeded
	RD Web Access role service		
	WIN-E3CBPGNF05B.vc.local	Configuring	In Progress
	RD Session Host role service	2	
	WIN-E3CBPGNF05B.vc.local		In Progress
		< Previous Nevt >	Deploy Cancel
		< Previous Next >	Deploy Cancel

The server will restart automatically (if you have indicated so) and the installation will finish:

📥 Add Roles and Features Wizard			-	o x
View progress	The selected Persona Decision Service		DESTIN. Standard deploy	ATION SERVER ment selected
Completion	Server	Progress	Status	
	RD Connection Broker role service	-		
	WIN-E3CBPGNF05B.vc.local		Succeeded	
	RD Web Access role service			
	WIN-E3CBPGNF05B.vc.local		Succeeded	
	RD Session Host role service			
	WIN-E3CBPGNF05B.vc.local		Succeeded	
		< Previous Next >	Close	Cancel



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Configuring RDS with UDS Enterprise

Once the RDS role is installed and the server restarted, proceed to the creation of a new RDS collection. To do this, choose "Create session collections" or access the "Collections" section and select "Create Session Collection":

🏊 Server Manager				0.000	o ×
€⊙• Ser	ver Manager 🕨 Re	mote Desktop Services • Overview	- 😕 🏲 Manage	Tools Vie	w Help
Overview	GET STARTED WI	TH REMOTE DESKTOP SERVICES			^
Servers Collections		1 Set up a Remote Desktop	o Services deployment		
	QUICK START	Virtual machine-based desktop deployment Add RD Virtualization Host servers 	Session-based desktop deployment 2 Add RD Session Host servers		
	LEARN MORE	3 Create virtual desktop collections	3 Create session collections		

In the creation wizard the following will be indicated:

Indicate a name for the new collection.

R	Create Collection	– 🗆 X
	Name the colle	ction
	Before You Begin	A session collection name is displayed to users when they log on to a Remote Desktop Web Access
	Collection Name	server.
	RD Session Host	Name:
	User Groups	005
	User Profile Disks	Description (optional):
	Confirmation	

The server "RD Session Host Servers" is added:

Create Collection					2-2	×
Specify RD Session	on Host server	S				
Before You Begin	Select the RD Session	Host servers from the s	server pool to a	add to this collectio	n.	
Collection Name						
RD Session Host	Server Pool			Selected		
User Groups				Computer		
User Profile Disks	Filter:			▲ VC.LOCA	AL (1)	
Confirmation	Name	IP Address	Operat	WIN-E3CBPGN	IF05B	
Progress	WIN-E3CBPGNF05B	vc.lo				



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

Create Collection		100		×
Specify user gro	pups			
Before You Begin	Add the user groups that should have access to connect to the collection.			
Collection Name	User Groups:	100.02		
RD Session Host	VC\Domain Users		Add	
User Groups		1	Remov	e
User Profile Disks				

It indicates where the user's profile will be stored. In case you do not enable it, a temporary profile will be created, which will be deleted when the user disconnects.

🔁 Create Collection		-		×
Specify user profi	le disks			
Before You Begin	User profile disks store user profile settings and data in a central location	for the collec	tion.	
Collection Name	Enable user profile disks			
RD Session Host	Location of user profile disks:			
User Groups				
User Profile Disks	Maximum size (in GB):			
Confirmation	20			



📥 Create Collection		12_21	×
Confirm selections			
Before You Begin	Collection Name		
Collection Name	003		8
RD Session Host	Users and User Groups		
User Groups	VC\Domain Users		
User Profile Disks	Barrada Davida a Carrier Hand Carran		
Confirmation	WIN-F3CRPGNE05B VCLOCAL		
Progress			
	User Profile Disks		
	No		



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📥 Create Collection				×
View Progress				
Before You Begin	The session collection is being contract take a while to complete.	reated. Depending on the size of	the session collection, this ma	ау
RD Session Host	Activity	Progress	Status	
RD Session Host User Groups	Activity Create Collection	Progress	Status Succeeded	
RD Session Host User Groups User Profile Disks	Activity Create Collection Add servers	Progress	Status Succeeded Succeeded	
RD Session Host User Groups User Profile Disks Confirmation	Activity Create Collection Add servers	Progress	Status Succeeded Succeeded	

Publishing the RDS Actor to the RDS server

Once the collection is created, select "Publish RemoteApp Programs".

🚡 Server	Manager		
\mathbf{E}	Server №	lanager • Remote Desktop Services • Colle	ctions • UDS
	Overview Servers Collections UDS	PROPERTIES Properties of the collection Collection Type Session Resources Remote Desktop User Group VC\Domain Users REMOTEAPP PROGRAMS Published RemoteApp programs 0 total Remote Desktop is published for the users of the collection.	TASKS CONNECTIONS Last refreshed on 4/30/202 Filter Filter Server FQDN User Sess Publish RemoteApp Programs Unpublish RemoteApp Programs

You will have to add and select the RDS Actor in the "**RemoteApp Programs**" list. For this, the UDS Actor for RDS must be previously installed.

Click on "Add" and select the UDS Actor in the path:

C:\Program Files\RDSActor\RDSActor.exe



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Publish RemoteApp Programs		- 0	Х
Select RemoteApp RemoteApp Programs Confirmation	Select the RemoteApp programs to publi the list, click Add. The RemoteApp programs are populated	sh to the UDS collection. To add a RemoteApp progra from WIN-E3CBPGNF05B.VC.LOCAL.	im to
Completion	RemoteApp Program System Configuration System Information Task Manager Windows Media Player Windows Memory Diagnostic Windows Speech Recognition WordPad XPS Viewer RDSActor Add Verify that the program is installed on all	Location %SYSTEMDRIVE%\Windows\system32\msconfi %SYSTEMDRIVE%\Windows\system32\msinfo3 %SYSTEMDRIVE%\Windows\system32\taskmgr %SYSTEMDRIVE%\Windows\system32\MdSche %SYSTEMDRIVE%\Windows\Speech\Common\s %SYSTEMDRIVE%\Windows\Speech\Common\s %SYSTEMDRIVE%\Windows\system32\taskmgr %SYSTEMDRIVE%\Windows\system32\taskmgr c\Program Files\RDSActor\RDSActor.exe the RD Session Host servers in the collection.	
	< Pre	vious Next > Publish Canc	el

The publication is confirmed and made:

🔁 Publish RemoteApp Programs				_		×
Confirmation						
RemoteApp Programs	Confirm that the list of Remote	App progra	ms to be published is c	orrect, and then clic	k Publish.	
Publishing	RemoteApp Program	m		Location		
Completion	RDSActor		c:\Program Files\RDS	Actor\RDSActor.exe		
		< Prev	ous Next >	Publish	Cancel	

🚡 Publish RemoteApp Programs		-	×
Completion			
RemoteApp Programs	The selected RemoteApp programs we 1 RemoteApp program was published	ere published successfully for the UDS collection. for the UDS collection.	
Publishing	RemoteApp Program	Status	
Completion	RDSActor	Published	



Once created, edit its properties:

📥 Server Manager	
Serve	er Manager • Remote Desktop Services • Collections • UDS
 Overview Servers Collections UDS ⊘ 	PROPERTIES Properties of the collection Collection Type Session Resources RemoteApp Programs User Group VC\Domain Users Extrementation VC\Domain Users Extrementation Iter Filter Iter RemoteApp Program Name Alias Visible in RD Web Access RDSActor RDSActor

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

Properties	- O X
RDSActor (UDS Co	llection)
General - Parameters + User Assignment + File Type Associati +	General RemoteApp program name: RDSActor Alias: RDSActor RemoteApp program location: CIVProgram Files/RDSActor/RDSActor.exe Current icon: Show the RemoteApp program in RD Web Access Yes No Yes No
	in any folder, leave this field blank. RemoteApp program folder:
	OK Cancel Apply



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

Properties		-		×
RDSActor (UDS Co	ollection)			
Show All General + Parameters -	Command-line Parameters			
User Assignment 🕂	O Do not allow any command-line parameters			
File Type Associati +	Allow any command-line parameters			
	🗼 By allowing this RemoteApp program to run with any command-line parameter, your server may be vulnerable to malicious software.			
	Always use the following command-line parameters			
	OK	cel	Apply	

Changes are applied and accepted. It is recommended to indicate a time to end the sessions of disconnected users. In this way, you will release users and their licenses when they disconnect from their virtual application. To do this, edit the properties of the collection:

Server	^{Manager} ∋▼ Server M	anager • Rem	ote Desktop Services •	Collections • UDS	
	Overview Servers Collections UDS	PROPERTIES Properties of the Collection Type Resources User Group	e collection Session RemoteApp Programs VC\Domain Users	TASKS Edit Properties	CONN Last refr Futer Server

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

눰 UDS Properties			-		×
Session Colle	ction				
Sho General User Groups Session	• All + +	Configure Session Settings Set RD Session Host server timeout and reconnection settings for t	he session	collectio	n.
Security Load Balancing Client Settings User Profile Disks	+ + + +	End a disconnected session: 1 minute Active session limit: Never Idle session limit: Never			>

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



UDS Enterprise Administration

Once completed all the previous steps, the integration with the application server will be carried out for the publication of the desired application service.

Follow the next steps:

Go to our UDS Enterprise control panel.

UDS UDS			🕂 UDS Client	i About	English 👻	udsadmin 🗕
				Filter	с	Dashboard
						U Downloads
	Information					E Logout
	IPs	Client IP			~	
	Transports	UDS transports for this client			~	
	Networks	UDS networks for this IP			~	

RDS Server and UDS Enterprise connection

Access the services tab and create a new service provider:





Tags Tags for this element Name * RDS Windows Comments Comments for this element List of servers 192.168.15.93 Server Checking No	Main	User mapping	AD User management
Tags for this element Name * RDS Windows Comments Comments for this element List of servers 192.168.15.93 Server Checking No	Tags		
Name * RDS Windows Comments Comments for this element List of servers 192.168.15.93 Server Checking No	Tags for this elemen	t	
RDS Windows Comments Comments for this element List of servers 192.168.15.93 Server Checking No	Name *		
Comments Comments for this element List of servers 192.168.15.93 Server Checking No	RDS Windows		
Comments for this element	Commente		
List of servers 192.168.15.93 Server Checking No	Comments for this e	lement	
List of servers 192.168.15.93 Server Checking No			
192.168.15.93 Server Checking No	List of servers		
Server Checking	192.168.15.93		
No			
	Server Checking		
	Server Checking		
	Server Checking		

A service name will be given and the IP of our RDS server.

NOTE: The same RDS service can have several IPs that connect different existing RDS servers, thus achieving high availability of the applications. In addition, when indicating several IPs you must mark the "Server Checking" check.

When the login in UDS Enterprise is done through a user who is not in the Active Directory (AD), you must define the following options in the **"User mapping"** tab:

- "Yes": Indicates that specific users (indicated in the "Users" section) will be used to access the applications.
- "No": You will use the user of the UDS Enterprise login portal to access the applications (in this case, you must be an AD user).
- "Users": Only applies if "User mapping" is "Yes". They will be mapping users belonging to an Active Directory that will be able to log in to the RDS application servers and that will be used by UDS Enterprise only to execute an application session.
- **"User`s password**": Password of all the users indicated in the previous section. All mapping users need to have the same password.

Edit provider		
Main	User mapping	AD User management
User mapping		
Yes		
Users		
user01@vdi.local, user	02@vdi.local, user03@v	di.local, user04@vdi.local, user05@vdi.local, (15 more
User's password		
•••••		Ο
Test		Discard & close Save



You can also use the "AD User Management".

NOTE: Only enable "**User auto creation on AD**" in case you need to specify users from an AD domain. These users will be automatically created by UDS.

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

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

Port: Port used in the connection.

AD server OU for created users: Organizational unit where the new users will be created

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

Password: Password of the indicated user.

Prefix for created users: 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+prefix_user**

NOTE: Only one of the two methods can be activated for user mapping "**User mapping**" or "**User auto creation on AD**".

New provider			
Main	User mapping	AD User management	
User auto creation on AD			
Yes			
AD Server			
192.168.11.99			
Port *			
636			
AD server OU for created users	5		
OU=UDS Users,DC=vc,I	DC=local		
Username			
administrator@vc.loca			
Password			
			•
Prefix for created users			
UDS_			
AD Domain			
vc.local			
AD Group			
UDS			
test		Discard & close S	ave



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Once you have created your service provider, within it the base application to be served will be defined. (In this example the Windows calculator has been chosen).

Г

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

	New service
	Main Advanced
	Tags
	Summary Services
	Name * Windows Calc
	Services of RDS Server
-	Comments for this element
	Application path *
88	► New - Edit
_	Application parameters, as will be passed in command line
	RDS Platform RemoteAPP
	Path where the app will be started on. (i.e. f:\example\folder)
	Max. Allowd services *
	0
	Discard & close Save

Additionally, other parameters can be defined if desired:

- **Application Parameters**: You can pass parameters to any application in this field to customize its execution.
- **Start Path**: Path where the application will be executed.
- Max. Allowed services: Maximum number of application sessions: (0 = unlimited).



Authentication method

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

This step will be carried out in the **"authenticators"** tab, being able to choose between the following authentication systems:



NOTE: You must take into account the way in which your users will login 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, you must indicate in the service the mapping of users so that they are those with which the application is accessed.

In this example, an Active Directory-based authentication system will be used.

For more information on how to register an authentication system, you can consult the UDS Enterprise 3.5 Installation, Administration and User Manual



OS Manager

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

Choose a name for the **OS Manager**:

	New OS Manager
OS Managers	Tags for this element
New Edit Permis Inux OS Manager Linux Random Password OS Manager RDS OS Manager Windows Basic OS Manager Windows Domain OS Manager Windows Random Password OS Manager	RDS OS Windows Comments Comments for this element Max. session time * 24 Discard & close Save

NOTE: In an "RDS OS Manager" the minimum parameters to configure are:

- Name: Name of the "OS Manager".
- Max. 26 session time: Maximum time that the session of an application registered in UDS Enterprise will remain. Expressed in hours (0 = unlimited).



Tunnel connection

Transport

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

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

The appropriate transport will be configured for each case:



Direct Connection (LAN)

In this example, it will be used the direct transport "RDS for vAPPs"

For more information on how to create a transport for RDS applications, you can refer to the <u>UDS Enterprise 3.5 Installation, Administration and User Manual</u>



Service Pool

Once you have completed the previous steps and you have all the necessary elements available, you can configure the Service Pool.

In the tab "Pools> Pool of service", you will click on "New".



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

	Display	Advanced	Availability
Tags			
Tags for this element			
Name *			
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Comments			
Comments for this eler	nent		
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OS Manager			
OS Manager RDS OS Windows			
OS Manager RDS OS Windows Publish on creation			
OS Manager RDS OS Windows Publish on creation Yes			

S						
Service Pools						
New 📝 Edit	Permissions	†↓ Export	😧 Delete		Filter	
Name 🗸	Status	User services	In Preparation	Usage	Visible	Shows transports
Vindows Calc	Active	0	0	0%	yes	yes



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Once the service is created, enter it to assign the transport:



The user groups that you want to access this service will also be added:

VDS U	JDS
	🗲 🚾 Windows Calc
	Summary Assigned services Groups
	Assigned groups
ê	New 1 Export Delete
	Name
•	UDS@AD
1	vc@dbinterna

For more information on how to create a service pool for RDS applications, you can consult the <u>UDS Enterprise 3.5 Installation, Administration and User Manual</u>



Access to Windows applications

Once all the previous configuration is finished, access the service. This access can be done from Windows OS (server and desktop) and from Linux OS.

Access the UDS Enterprise login portal and validate ourselves with a previously configured user belonging to AD.

In the user services window, you will be able to see the available service:



Enter the Windows calculator service by clicking on the application. It is necessary to have previously installed the UDS Client:







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Different methods of accessing a vApp service

One or more access modes (transports) can be assigned to the same vApp service, depending on our needs:

Direct (LAN)

RDS





NOTE: This type of connection requires having the UDS Client previously installed on the connection client computer. It will be necessary to have, in the connection client, a Windows or Linux OS



Tunneling (LAN and WAN)

RDS (Tunnel)

General	
Conexiones >	RDS (Directo)
CALC	RDS (Tunnel)

☐ Calcul — □ × View Edit Help								
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-	CE	с	±	V				
7	8	9	/	%				
4	5	6	×	1/x				
1	2	3	-	_				
0,+								

NOTE: The connection will be made in the same way as the direct one (it also requires having the UDS Client installed), but it will be made through the tunnel server, offering the possibility of connecting through the WAN. It will be necessary to have, in the connection client, a Windows or Linux OS.



HTML5 RDS for vApps



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NOTE: The HTML5 connection type for vApps does NOT require the UDS Client. Furthermore, it can be used in both LAN and WAN connections. The accesses can be made from any OS with a current browser.



About Virtual Cable

Virtual Cable sells UDS Enterprise through a subscription model according to the number of users, including support and updates.

In addition, Virtual Cable offers professional services to install and configure UDS Enterprise and other virtualization technologies.

For more information visit <u>www.udsenterprise.com</u> or email us at <u>info @ udsenterprise</u>.