



1. Introduction

UDS Enterprise allows access to Windows virtual application services for groups of users through Microsoft Remote Desktop Services (RDS).

RDS allows users to run application sessions remotely.

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

1.1 Prerequisites

The following requirements must be met:

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



2. Installing the UDS Enterprise Actor

Before proceeding to install and configure RDS, it is necessary to install the UDS Actor.

Select and download the Actor for RDS servers (**RDS UDS Actor**) from the UDS Enterprise downloads page:

File Name	Description
udsactor_3.0.0_all.deb	UDS Actor for Debian, Ubuntu, ... Linux machines (Requires python >= 3.6)
udsactor-3.0.0-1.noarch.rpm	UDS Actor for Centos, Fedora, RH, Suse, ... Linux machines (Requires python >= 3.6)
udsactor-unmanaged_3.0.0_all.deb	UDS Actor for Debian based Linux machines. Used ONLY for static machines. (Requires python >= 3.6)
RDSActorSetup-3.0.0.exe	RDS UDS Actor (for remote apps on Windows Server 2012, 2016, 2019)
UDSActorSetup-3.0.0.exe	UDS Actor for windows machines
UDSActorUnmanagedSetup-3.0.0.exe	UDS Actor for Unmanaged windows machines. Used ONLY for static machines.

Proceed to its installation on the Windows server:

Welcome to UDS Enterprise RDS Actor Setup

Setup will guide you through the installation of UDS Enterprise RDS Actor.

It is recommended that you close all other applications before starting Setup. This will make it possible to update relevant system files without having to reboot your computer.

Click Next to continue.

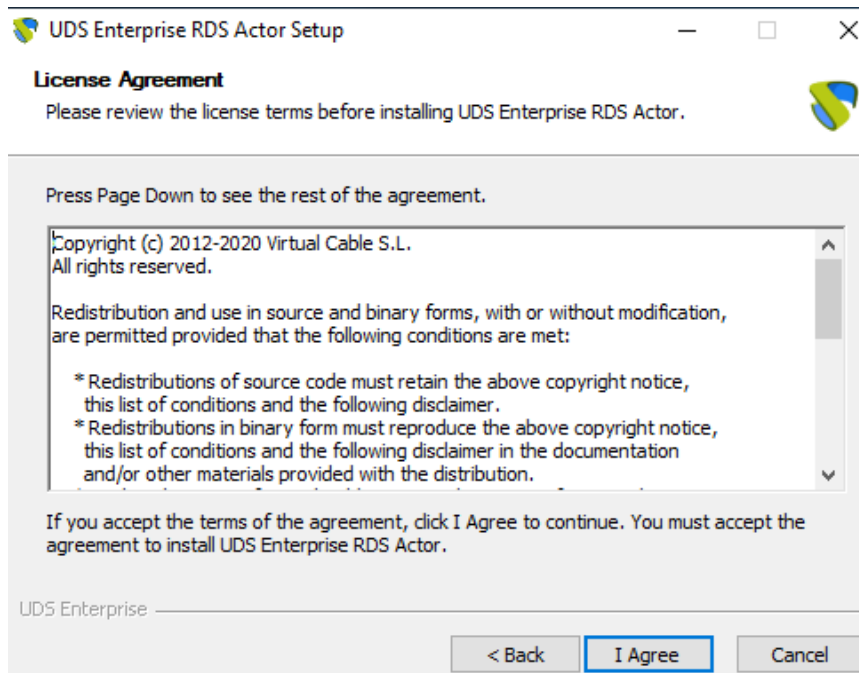
Next > Cancel



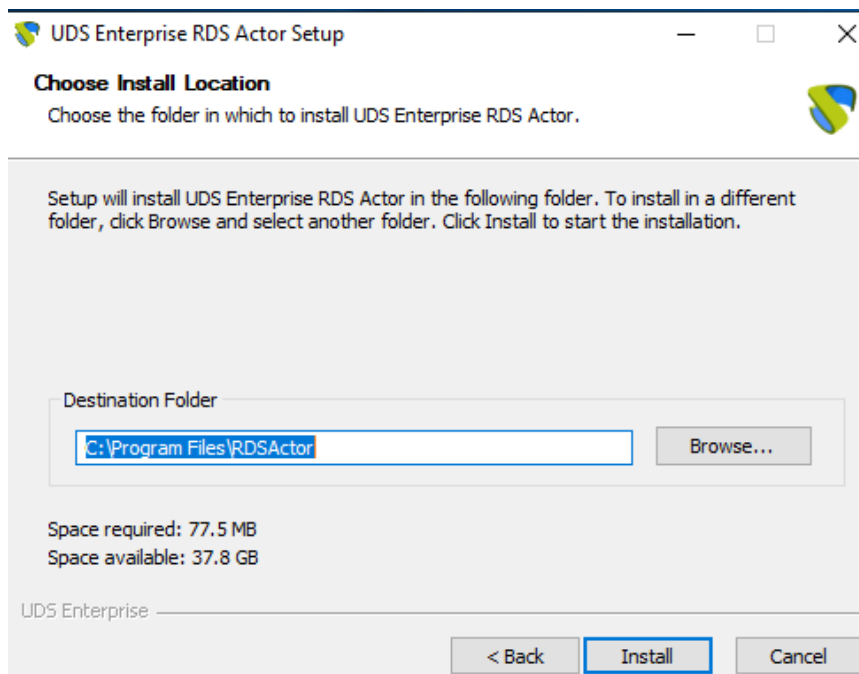
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Accept the license agreement:



Select a location and install it:

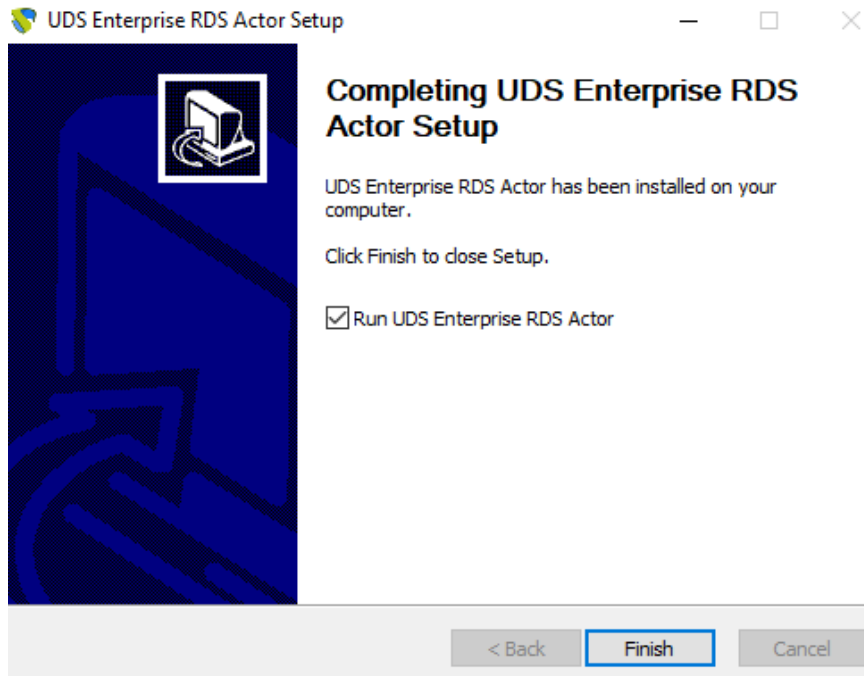




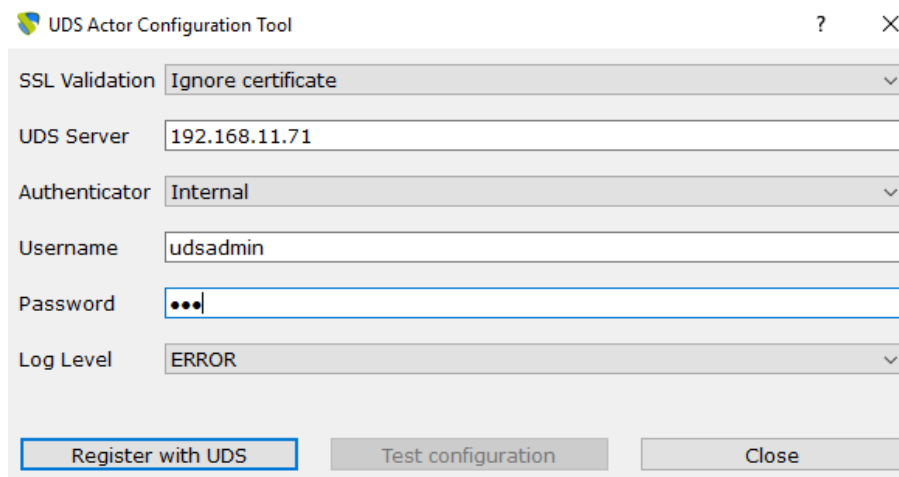
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Finish the installation and run the UDS Actor:



Enter the address of the UDS Server, select an authenticator and indicate a user with administrator permissions that belongs to the selected authenticator.

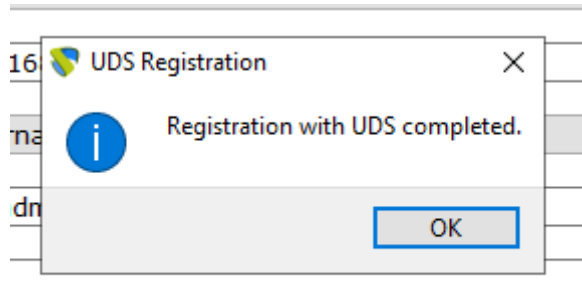




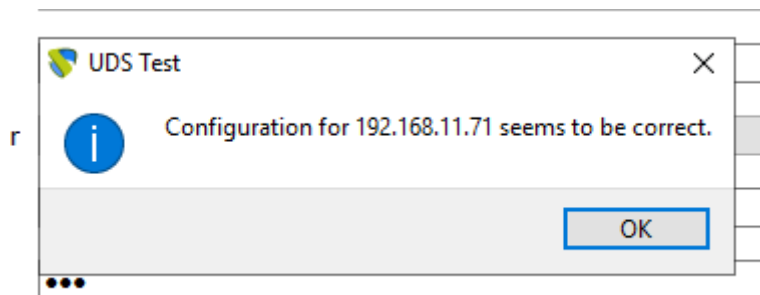
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Once all the data have been indicated, click on “**Register with UDS**” to register the Actor with our UDS server:



Click on “**Test configuration**” to confirm that all the data are correct:



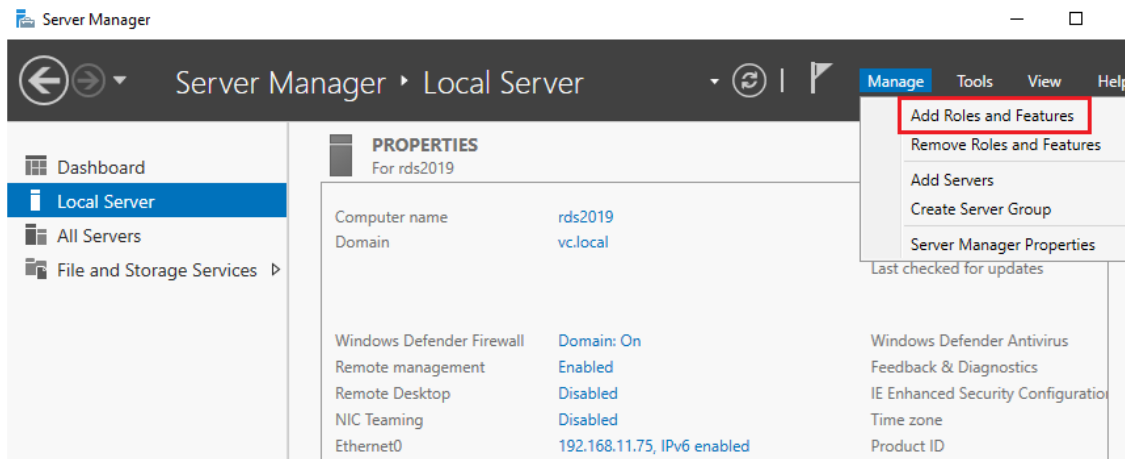
Once the UDS Actor for Windows RDS servers is installed, you can proceed with the installation and configuration of Microsoft Remote Desktop Services.

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

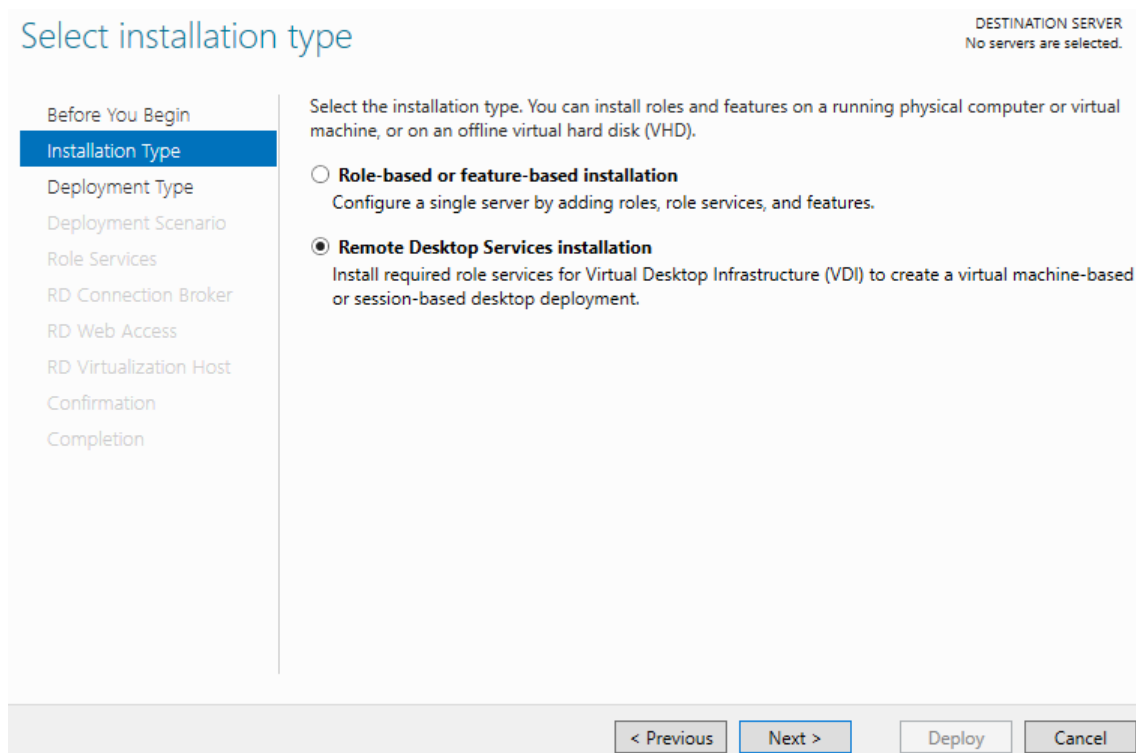


3. Installing Remote Desktop Services

Select “Add Roles and Features” in the “Server Manager” console:



Select “Remote Desktop Services installation”.





Choose “**Standard deployment**”.

Select deployment type

DESTINATION SERVER
No servers are selected

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

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.

< Previous Next > Deploy Cancel

Check the option “**Session-based desktop deployment**”.

Select deployment scenario

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

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.

< Previous Next > Deploy Cancel



Configure the service roles:

- Add the server “RD Connection Broker”:

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		
Filter:		
Name	IP Address	Operating
rds2019.vc.local	192.168.11.75	

1 Computer(s) found

Selected

Computer

- VC LOCAL (1)
 - rds2019

1 Computer(s) selected

< Previous Next > Deploy Cancel

- Add the server “RD Web Access server”:

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		
Filter:		
Name	IP Address	Operating
rds2019.vc.local	192.168.11.75	

1 Computer(s) found

Selected

Computer

- VC LOCAL (1)
 - rds2019

1 Computer(s) selected

< Previous Next > Deploy Cancel



- Add a server "RD Session Host":

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
rds2019.vc.local	192.168.11.75	

Selected

Computer

- VC.LOCAL (1)
 - rds2019

1 Computer(s) found 1 Computer(s) selected

< Previous Next > Deploy Cancel

- Accept and proceed to the installation:

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)
rds2019.vc.local

RD Web Access (1 server selected)
rds2019.vc.local

RD Session Host (1 server selected)
⚠ The following servers may restart after the role service is installed.
rds2019.vc.local

Restart the destination server automatically if required

< Previous Next > **Deploy** Cancel



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View progress

DESTINATION SERVER
Standard deployment selected

The selected Remote Desktop Services role services are being installed.

Server	Progress	Status
RD Connection Broker role service		
rds2019.vc.local	<div style="width: 50%;"></div>	In Progress
RD Web Access role service		
rds2019.vc.local	<div style="width: 10%;"><p>Installing...</p></div>	In Progress
RD Session Host role service		
rds2019.vc.local	<div style="width: 0%;"></div>	Pending

< Previous Next > Deploy Cancel

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

View progress

DESTINATION SERVER
Standard deployment selected

The selected Remote Desktop Services role services are being installed.

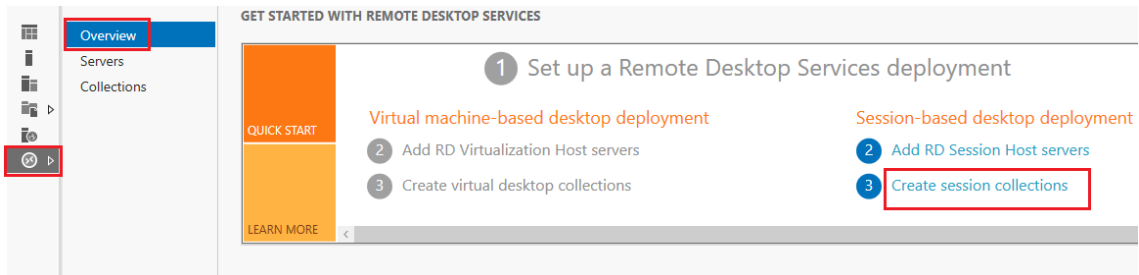
Server	Progress	Status
RD Connection Broker role service		
rds2019.vc.local	<div style="width: 100%;"></div>	Succeeded
RD Web Access role service		
rds2019.vc.local	<div style="width: 100%;"></div>	Succeeded
RD Session Host role service		
rds2019.vc.local	<div style="width: 100%;"></div>	Succeeded

< Previous Next > Close Cancel



4. Configuring RDS with UDS Enterprise

Once the RDS role is installed and the server restarted, you can proceed to the creation of a new RDS collection. In order to do this, select “**Create session collections**” or access the “**Collections**” section and select “**Create Session Collection**”:



Enter a name for the new collection:

Name the collection

Before You Begin

Collection Name

RD Session Host

User Groups

User Profile Disks

Confirmation

Progress

A session collection name is displayed to users when they log on to a Remote Desktop Web Access server.

Name:

Description (optional):

< Previous Next > Create Cancel



Add the server “RD Session Host servers”.

Specify RD Session Host servers

Before You Begin
Collection Name
RD Session Host
User Groups
User Profile Disks
Confirmation
Progress

Select the RD Session Host servers from the server pool to add to this collection.

Server Pool

Filter:

Name	IP Address	Operat
rds2019.vc.local		

1 Computer(s) found

Selected

Computer

- VC\LOCAL (1)
 - rds2019

1 Computer(s) selected

< Previous Next > Create Cancel

Specify which user groups will be able to access the collection. You will use the group “**Domain Users**” to allow all users and perform group filtering from the UDS administration.

Specify user groups

Before You Begin
Collection Name
RD Session Host
User Groups
User Profile Disks
Confirmation
Progress

Add the user groups that should have access to connect to the collection.

User Groups:

VC\Domain Users

Add... Remove

< Previous Next > Create Cancel



Indicate where you want to store the user's profile. In case you do not enable this option, a temporary profile will be created that will be deleted when the user disconnects.

Specify user profile disks

Before You Begin

- Collection Name
- RD Session Host
- User Groups
- User Profile Disks**
- Confirmation
- Progress

User profile disks store user profile settings and data in a central location for the collection.

Enable user profile disks

Location of user profile disks:

Maximum size (in GB):

i The servers in the collection must have full control permissions on the user profile disk share, and the current user must be a member of the local Administrators group on that server.

< Previous Next > Create Cancel

Confirm and create the collection:

Confirm selections

Before You Begin

- Collection Name
- RD Session Host
- User Groups
- User Profile Disks
- Confirmation**
- Progress

Collection Name
UDS

Users and User Groups
VC\Domain Users

Remote Desktop Session Host Servers
RDS2019.VC.LOCAL

User Profile Disks
No

< Previous Next > Create Cancel



View Progress

Before You Begin
Collection Name
RD Session Host
User Groups
User Profile Disks
Confirmation
Progress

The session collection is being created. Depending on the size of the session collection, this may take a while to complete.

Activity	Progress	Status
Create Collection	<div style="width: 100%;"></div>	Succeeded
Add servers	<div style="width: 100%;"></div>	Succeeded
	✔ RDS2019.VC.LOCAL	

< Previous Next > Close Cancel

Once the collection is created, select **“Publish RemoteApp Programs”**:

The screenshot shows the UDS Enterprise interface with the 'PROPERTIES' and 'REMOTEAPP PROGRAMS' sections. The 'TASKS' dropdown menu is open, and the 'Publish RemoteApp Programs' option is highlighted with a red box. The 'CONNECTIONS' section is also visible on the right.

Add and select the RDS Actor in the **“RemoteApp programs”** list. For this, the UDS Actor for RDS has to be previously installed.

Click on **“Add”** and select the UDS Actor in the path:

C:\Program Files\RDSActor\RDSActor.exe



Select RemoteApp programs

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 RDS2019.VC.LOCAL

RemoteApp Program	Location
<input type="checkbox"/> System Configuration	%SYSTEMDRIVE%\Windows\system32\msconfi...
<input type="checkbox"/> System Information	%SYSTEMDRIVE%\Windows\system32\msinfo3...
<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 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"/> RDSActor	c:\Program Files\RDSActor\RDSActor.exe

Add...

Verify that the program is installed on all the RD Session Host servers in the collection.

< Previous Next > Publish Cancel

Confirm and publish:

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
RDSActor	c:\Program Files\RDSActor\RDSActor.exe

< Previous Next > Publish Cancel



Once created, edit its properties:

The screenshot shows the UDS Enterprise interface. On the left, a navigation pane has 'UDS' selected under 'Collections'. The main area is titled 'Properties of the collection' and shows the following details:

Collection Type	Session
Resources	RemoteApp Programs
User Group	VC\Domain Users

Below this is the 'REMOTEAPP PROGRAMS' section, last refreshed on 19/09/2020 13:25:38. It contains a table with the following data:

RemoteApp Program Name	Alias	Visible in RD Web Access
RDSActor		Yes

An 'Edit Properties' button is highlighted with a red box for the 'RDSActor' program.

Go to the “General” section and check “No” in “Show the RemoteApp program in RD Web Access”.

RDSActor (UDS Collection)

The screenshot shows the 'General' properties dialog for the 'RDSActor' RemoteApp program. The 'General' tab is selected in the left-hand pane. The dialog contains the following fields and options:

- RemoteApp program name: RDSActor
- Alias: RDSActor
- RemoteApp program location: c:\Program Files\RDSActor\RDSActor.exe
- Current icon: [Icon]
- Show the RemoteApp program in RD Web Access: Yes No
- RemoteApp program folder: [Empty field]

At the bottom, there are 'OK', 'Cancel', and 'Apply' buttons. The 'No' radio button is highlighted with a red box.



Select “Allow any command-line parameters” in the “Parameters” section:

RDSActor (UDS Collection)

General +
Parameters -
User Assignment +
File Type Associati... +

Command-line Parameters

Do not allow any command-line parameters

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 Cancel Apply

Apply the changes and accept.

It is recommended to indicate a time to end disconnected user sessions. 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:

Overview
Servers
Collections
UDS

PROPERTIES

Properties of the collection

Collection Type	Session
Resources	RemoteApp Programs
User Group	VC\Domain Users

TASKS ▾
Edit Properties

CONNEC
Last refres
Server FC
rds2019.v



Indicate a minimum time for “End a disconnected session” in the “Session” section:

Session Collection

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

Show All

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

When a session limit is reached or a connection is broken:

- Disconnect from the session
 - Enable automatic reconnection
- End the session

Temporary folder settings:

- Delete temporary folders on exit
- Use temporary folders per session

OK Cancel Apply

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



5. Support and professional services

Virtual Cable markets UDS Enterprise through a subscription model by number of users, including support and updates.

Also, Virtual Cable offers professional services to install and configure UDS Enterprise.

For more information, visit www.udsenderprise.com or email us at info@udsenderprise.com