

UDS Enterprise 4.0 Update Procedure



VIRTUAL UDS Enterprise Update Procedure

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Introduction

Updating the version of a UDS Enterprise environment is a quick and simple process, but a series of tasks must be taken into account that we must carry out before and after the update, which will be essential for it to be carried out correctly.

The UDS Server component will be in charge of updating the MySQL database tables (BBDD) making it compatible with the new version.

In the UDS Tunnel machine it is not necessary to carry out any update process, since no information is stored in it. A new display of it will suffice.

The tasks that we have to carry out to update UDS Enterprise are:

- Deploy the new Virtual Appliances of the UDS Server and UDS Tunnel machines to a supported hypervisor platform
- Shut down the servers (Server and Tunnel) of the old version of UDS Enterprise
- Configure the new UDS servers with the same data as the previous version and connect it to the existing database.

Version compatibility

UDS Enterprise allows upgrading to new versions of the software, but only between compatible versions.

If, for example, you want to upgrade from version 3.5 of UDS Enterprise to version 4.0, you can do so directly without going through version 3.6.

UDS Enterprise	4.0	3.6	3.5
3.6	~	~	×
3.5	-	✓	~

LIDS Sonvor	Llogrado Dath
OD2 Server	Opgrade Patri

UDS Clients Compatibility

UDS Clients / UDS Server	UDS 4.0	UDS 3.6	UDS 3.5
Client 4.0	~	~	✓
Client 3.6	~	~	✓
Client 3.5	×	×	✓

UDS Actor Compatibility

UDS Actor / UDS Server	UDS 4.0	UDS 3.6	UDS 3.5
Actor 4.0	-	×	×
Actor 3.6	~	~	×
Actor 3.5	~	~	-

Pre-upgrade tasks

Before proceeding to update UDS Enterprise, the following tasks must be carried out:

- Have all the configuration data of the current UDS servers (UDS-Server and UDS-Tunnel): DNS Name, IP, Network Mask, Gateway, DNS
- Have all the database server connection data (name or IP address of the server, instance name, username and password).
- If a MySQL database supplied by VirtualCable is used, the default data is:
 - o Instance: uds
 - o User: uds
 - Password: uds
- It is highly recommended to provide the UDS server with direct access to the Internet (https) to carry out the subscription activation process, in case of not having access to the Internet, consult with the UDS Enterprise support staff.
- For the database migration process to be carried out correctly, it is necessary that the server that hosts it has a version of **MySQL/MariaDB** >= **8.0.1/10.6.1**
- If you are using the database server provided by the UDS team **from version 3.5 onwards, you will be required to update it**, and you can use the following script:

https://images.udsenterprise.com/files/UDSPatchs/Mysql-update/upgrade-mysql.sh

- It is recommended to take a snapshot or backup of the MySQL database server to have a valid restore point in case an anomaly occurs during the update.
- Download the appliances of version 4.0 in this <u>link.</u>

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UDS DBServer update

In order to update to a new version of UDS, it is always recommended that the database is updated to the latest level of patches.

The minimum supported versions for UDS 4.0 are: MySQL/MariaDB >= 8.0.1/10.6.1

If you are using the database server provided by the UDS Enterprise team, you can run the following script that will automate the entire update process:

https://images.udsenterprise.com/files/UDSPatchs/Mysql-update/upgrade-mysql.sh

Before its execution, it is necessary to have a backup or snapshot that allows us to have a restore point in case an error has occurred during the update process.

To check the current version, we have on our current database server, we run the command:

mysql --version

root@mysql:~# mysqlversion		
mysql Ver 15.1 Distrib 10.3.23-MariaDB,	for debian-linux-gnu	(x86_64)
root@mysql:~#		

As we have a version of MariaDB lower than 10.6, we will download and run the upgrade script.

We download the script using the wget command (we can also enable ssh on the server and copy the script):

wget https://images.udsenterprise.com/files/UDSPatchs/Mysql-update/upgrademysql.sh

root@mysql:~# wget <u>http://images.uc</u> 2020-09-12 11:33:36 <u>http://ima</u> Resolving images.udsenterprise.com Connecting to images.udsenterprise. HTTP request sent, awaiting respons Length: 322 [text/x-sh] Saving to: 'upgrade-mysql.sh'	<pre>lsenterprise.com/files/UDSPatchs/Mysql-update/upgrade-mysql.sh uges.udsenterprise.com/files/UDSPatchs/Mysql-update/upgrade-mysql.sh (images.udsenterprise.com) 188.165.133.128 com (images.udsenterprise.com) 188.165.133.128 :80 connected. e 200 OK</pre>
upgrade-mysql.sh	100%[===================================
2020-09-12 11:33:36 (15.4 MB/s) - '	upgrade-mysql.sh' saved [322/322]
root@mysql:~#	

We will give permissions to the script to execute it:



We launch the update script, which will completely update the server at the OS level and also at the MySQL/MariaDB application level:

The update process will be long and at certain points confirmations will be requested to perform certain tasks, in all of them we will mark the default options.

Once the whole process is finished, we restart the server and check our MySQL/MariaDB version:

root@dbbroker-400:~# mysql --version mysql Ver 15.1 Distrib 10.11.6-MariaDB, for debian-linux-gnu (x86_64) using EditLine wrapper root@dbbroker-400:~#

Once we are in version 10.11 (Higher than the minimum necessary version) we can perform the database migration through the UDS server configuration wizard.

NOTE: Remember that the database server provided by the UDS Enterprise team does not have direct support and therefore it will be necessary to frequently update and maintain.

UDS Server update

To update the UDS Server component we will need the MySQL database server to be accessible.

In the update process, the current UDS server is replaced by the new UDS server, connecting the latter with the existing MySQL database.

Here are the steps to perform the update:

Step 1. Upload Virtual Appliance UDS Server to the hypervisor platform.

We will upload the UDS Server Virtual Appliance to the hypervisor platform. On each platform we will carry out the necessary procedure. For more information you can consult the manual Installation, Administration and User of UDS Enterprise.

Step 2. Shut down the previous version UDS Server.

It is necessary to turn off the old UDS Server. Once the update process is carried out in the MySQL database, it should not be started again, unless a backup or snapshot is available in the MySQL database before the update process.

Step 3. Start and configure the new UDS Server.

We started the UDS Server virtual machine and began its configuration with the same data that we had in the previous version.

We will access the server's IP address (if there is no dhcp server on the network, an IP address must be manually configured to the server via console) using port 9900.

We select the language of the configuration wizard:



UDS Enterprise Broker Setup	
Version of the select your language	ext

Indicate the server's name, domain (optional) and server network data:

UDS Enterprise Broker Setup			
	Networking		
	Configure network		
	broker-400		
	- IP Network mask Gateway 192.168.1.166 255.255.255.0 192.168.1.1		
	- Primary DNS Secondary DNS		
	Previous	ext	

It will ask us for the Setup Code, which we can find on the UDS Server appliance



Configure the keyboard language that the server will have, the time zone and an NTP server (optional):

UDS Enterprise Broker Se	up			
La La	cale and date	e configurat	tion	
Spanish	Jard layout		•	
Server Time zone	ype for options)	— NTP Server (empty	to disable) ———	
Server date2/3/2025		2 : 42	: 57	
			Previou	IS Next

Select the type of database "MySQL (remote)":

UDS Enterprise I	Broker Setup	
	Database configuration	
	Database type (embedded local or remote MySQI MySQL (remote) Server (IP or FQDN) 192.168.1.165 Username uds NON-TLS Database uds	L)
		Previous Next

Indicate the connection data with the existing database server and that it was used by the previous version UDS server.

NOTE: It is advisable to have a backup/snapshot of the database in case its restoration is necessary. Once the migration process is complete, it is not possible to connect the database with a previous version UDS server.

If the database is in an unsupported version **(MySQL/MariaDB >= 8.01/10.6.1)**, a notice will appear that we must update before carrying out the migration process. In this case, it is recommended to update the database server (being able to use the update script commented above) and launch the migration process again.

Wait for the database migration process to finish.

Once the database is migrated, we will perform the activation. It is not necessary to indicate any serial number, the system picks it up automatically from the database.

UDS Enterprise Broker Setup
UDS Activation r order to use UDS Enterprise version, broker needs to be activated. Activation activation, make sure that UDS Broker is able to access terrent using HTTPS. Only the activation information is sent. Activation method Dinine - UDS Broker will need internet connection Activation key RQXK-TGJ6-

It will be necessary to provide an Internet connection to the UDS server so that it can carry out the activation. In case of not being able to access the internet to the UDS server, it will be necessary to follow the steps of the "Offline" activation process, which can significantly delay the environment update time.

We configure the password of the local root user of the UDS server and indicate the name and password of the UDS system administrator user (super-user to access the UDS web administration).

UDS Enterpr	ise Broker Setup			
	Security			
R	Standard installation Installation allows HTTP requests, but only for redirecting to HTTPS. Medium security sal configuration is allowed on UDS Broker(TLS12 and TLS21.3) Root user password is not forcet to be complex	•		
	udsadmin			
	- UDS superuser password	0		
		Previo	us	Next

We will have to choose between the Standard Installation (More flexible) or the Hardened, that will not allow simple Passwords and a Minimum version of TLS.

If we have the certificate files, we will indicate them. Otherwise, we can install them after finishing the wizard via console.

We need to indicate the certificate file in the "Server certificate" field (.crt, .pem, etc...), the file with the "Private key" (.key, .pem, etc...) and optionally we can indicate the file of the certifying entity "Chain file" (.crt, .pem, etc...).

UDS Enterprise Broker Setup		
Web server certificate Hypot wish to configure the server HTTPS certificates, you can do this process is OPTIONAL, so if you don't have your own certificate file (PEM format) Server certificate file (PEM format) Private key file (PEM format, optional) Chain file (PEM format, optional)	it now. licates,	
	Previous	Next

Finish the configuration of the UDS server by clicking on "*Reboot*" for the server to reboot and apply all the indicated settings.



Step 4. Verify operation of the new UDS Server.

To verify that the update process has been carried out correctly, we connect with a web browser to the name or IP of the UDS server, validate ourselves in the system and confirm that in the administration we have all the data we had in the previous version.

🌖 UDS Enterprise Demo On	line	보 UDS Client	i About	▼ English
	Access to UDS	DS PRISE		
	Username*			
	Password			
	Log	in		

UDS Tunnel Update

To update the UDS Tunnel component we will need the UDS Server to be configured and accessible.

In the update process, the current UDS Tunnel server is replaced by the new server, connecting the latter with the existing UDS Server component.

Here are the steps to perform the update:

Step 1. Upload Virtual Appliance UDS Tunnel to the hypervisor platform.

We will upload the UDS Tunnel Virtual Appliance to the hypervisor platform.

In each platform we will carry out the necessary procedure, for more information you can consult the manual of <u>Installation</u>, <u>Administration</u> and <u>User of UDS Enterprise</u>.

Step 2. Turn off the previous version UDS Tunnel.

It is necessary to turn off or disconnect the old UDS Tunnel from the network.

Step 3. Start and configure the new UDS Tunnel.

We started the UDS Tunnel virtual machine and began its configuration with the same data that we had in the previous version.

Access the server's IP address (if there is no dhcp server on the network, an IP address must be manually configured to the server via console) using port 9900.

Select the language of the configuration wizard:

UDS Enterprise Tunnel Setup
Please, select your language

Indicate the name of the server, domain (optional) and network data of the server:

UDS Enterpris	se Tunnel Setup
	Networking Configure network Host name tunnel-400 IP 192.168.1.167 255.255.255.0 192.168.1.167 Secondary DNS 8.8.8.8
	Previous

You can choose the Skip configuration option if we do not need to make any changes.

Next, we will add the security code that appears in our Appliance:



Configure the keyboard language that the server will have, the time zone and an NTP server (optional):

UDS Enterpris	se Tunnel Setup
5	Locale and date configuration
-	- Linux console keyboard layout
	Spainsi
	Europe/Madrid
	Server date
	Previous Next

For the UDS Tunnel to trust the UDS Server self-signed certificate and to validate the connection, you will have to use the command "uds trust""

	root@tunnel-400:~# uds usage: uds trust [-h] [trust -h -n] HOSTNAME PORT
	positional arguments: HOSTNAME PORT	Hostname of the remote server. Port of the remote server.
	options: -h,help -n,no-intermediate	show this help message and exit
	root@tunnel-400:~#	Skip intermediate db check (no internet access).
JDS Enterprise tu Reading certifica Certificate name: Valid from: 2025- Valid until: 2035 Fingerprint: a52a Issuer: CN=uds,0 Subject: CN=uds,0 Serial number: 74 Self signed: Yes Self signed certi Writing certifica Ensuring that the updating /etc/hos Updating trusted rehash: warning: done Trusted certifica	nnel CLI tool te from server 192.16 uds 01-30 17:36:48+00:00 -01-28 17:36:48+00:00 8b773591287da03be57b5 UDS Enterprise Self S =UDS Enterprise Self 924446437187505364992 ficate. Trusting it te to trust file (/us name uds resolves to ts done databaserehash: wa skipping ca-certifica	<pre>8.1.166:443 done 13b9c0b2f0e5f9fd5cc12a0ce669beb78f6e2d3 igned Certificate,L=Madrid,ST=Madrid,C=ES Signed Certificate,L=Madrid,ST=Madrid,C=ES 149146152333405439448456 r/local/share/ca-certificates/uds.crt) done the IP 192.168.1.166 rning: skipping duplicate certificate in TERENA_SSL_CA_3.pem tes.crt,it does not contain exactly one certificate or CRL</pre>
root@tunnel-400:~	• #	

Once done we will have to indicate to the UDS Tunnel the name of our UDS Server "uds"

Checking the /etc/hosts file:

Autogenerated by UDS installer 127.0.0.1 localhost 127.0.1.1 tunnel-400.domain.local tunnel-400 # The following lines are desirable for IPv6 capable hosts ::1 ip6-localhost ip6-loopback fe00::0 ip6-localnet ff00::0 ip6-mcastprefix ff02::1 ip6-allnodes ff02::2 ip6-allrouters 192.168.1.166 uds

Once the process is done, we can continue with the configuration of the Tunnel

It will be necessary to indicate a user with administration permissions to validate the tunnel configuration:

Connection type	
HTTPS (secure conection)	*
- Server	
uds	
Port	
440	
443	
- Authenticator	
Administration	-
Admin user on UDS Server	
udsadmin	
Password for the admin user on UDS Server	
	0

Configure the password of the local root user of the Tunnel server:

UDS Enterprise	Tunnel Setup		
	Secur	ity	
			•
			Previous Next

If we have the certificate files, we will indicate them. Otherwise, we can install them after finishing the wizard via console.

We need to indicate the certificate file in the "Server certificate" field (.crt, .pem, etc...), the file with the "Private key" (.key, .pem, etc...) and optionally we can indicate the file of the certifying entity "Chain file" (.crt, .pem, etc...).

Web server certificates Private key file (PEM format) Private key file (PEM format) Chain file (PEM format, optional)

Finish the configuration of the Tunnel server by clicking on "*Reboot*" for the server to reboot and apply all the indicated settings.

UDS Enterprise Tunnel Setup
8
Setup completed
The setup process is completed. In order to finish your installation, your appliance needs to be rebooted.
Press the "reboot" button to complete installation.
Previous

You can close the page of the configuration wizard and, once restarted, the UDS Tunnel server will be fully configured.

UDS Client and UDS Actor

In the event that UDS Server is updated to a new version, the version of the UDS Client and UDS Actor installed on the platform must be taken into account.

UDS Client:

• There is a version of UDS Server 3.5 deployed:

In this case, it can be used in both UDS Client 3.5 and 3.6 or 4.0, although from UDS it is always recommended to use the latest compatible UDS Client available.

• There is a version of UDS Server 3.6 deployed:

In this case you will have to use the version 3.6 client as there is no compatibility with the version 4.0 client.

• You have a version of UDS Server 4.0

In this case, both the 3.5 and 3.6 versions of the client will be compatible, so in this new version we will avoid the client update process that existed in previous versions.

UDS Actor:

In the case of the UDS Actor, if we update to version 4.0 we will be able to use both the actors from version 3.6 and 3.5

Although UDS will always recommend using the latest version available to maintain the homogeneity of the platform

UDS ENTERPRISE, THE SOFTWARE VDI OF VIRTUAL CABLE

About UDS Enterprise

<u>UDS Enterprise</u> is a new software concept for creating a **fully customized virtualization** platform **for the workplace**. It provides **secure 24x7 access** from **any location and device** to all applications and software of an organization or educational center.

It allows you to combine Windows and Linux **desktop and application virtualization** 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 a public, private, hybrid or **multicloud**. You can even combine several environments at the same time and perform automatic and **intelligent overflows** to optimize performance and efficiency. All with a **single subscription**.

About Virtual Cable

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 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 professionals have **more than 30 years** of experience in IT and software development and more than 15 years in virtualization technologies. **Everyday millions of Windows and Linux virtual desktops** are deployed with UDS Enterprise around the world.