

UDS Enterprise Update Procedure







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1. 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.



2. Version compatibility

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

If, for example, you want to upgrade from UDS Enterprise version 3.0 to version 3.6, you must first upgrade to version 3.5, then from 3.5 to 3.6.

UDS Enterprise	3.6	3.5	3.0
3.5	-	~	
3.0	×	✓	✓

ODS Server Opgrade Fath	UDS	Server	U	pgrade	Path
-------------------------	-----	--------	---	--------	------

UDS Clients Compatibility

UDS Clients / UDS Server	USD 3.0	UDS 3.5	UDS 3.6
Client 3.0	~	×	×
Client 3.5	1	~	×
Client 3.6	~	~	~

UDS Actor Compatibility

UDS Actor / UDS Server	USD 3.0	UDS 3.5	UDS 3.6
Actor 3.0	✓	~	-
Actor 3.5	~	-	~
Actor 3.6	~	~	~



3. 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
 - 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 >= 5.6/10.3
- If you are using the database server provided by the UDS team, it is also recommended to update it, using the following script:

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

- In versions prior to UDS 3.0, in case of using any custom HTML template in the UDS Server for user login windows, services, downloads, etc., it is necessary to export them from the old UDS Server and copy them to the new one, since these changes will not are stored in the database.
- As of version 3.0, all customizations applied from the "Custom" tab, in the UDS administration, will be automatically migrated during the upgrade process.



- 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 3.5 in this <u>link</u> and those of version 3.6 in the following <u>link</u>.



4. 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 are: MySQL/MariaDB >= 5.6/10.3

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:~# m mysgl Ver 15.1	ysqlve Distrib	ersion 10.1.37-MariaDB,	for	debian-linux-qnu	(x86 64)
root@mysql:~#				<u> </u>	

As we have a version of MariaDB lower than 10.3, 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



UDS Enterprise Update

<pre>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>	<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:

root@mysql:~#	chmod	775	upgrade-mysql.sh
root@mysql:~#			

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

oot@mysql:~#	./upgrade-mysql.sh

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:



Once we are in version 10.3, we will be able to perform the migration of the database 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.



5. 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 Update

UDS Enterprise Broker Setup
<image/>

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

		Networkin	g
>			
	Configure netwo	ork	-
	Host name	Domain	
	udsserver	vc.loca	al
	IP	Network mask	Gateway
	192.168.11.71	255.2 <mark>55.255.0</mark>	192.1 <mark>68.11.1</mark>
	Primary DNS	Seconda	ry DNS
	192,168,11,1	8888	2



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

UDS Enterpri	ise Broker Setup
	Locale and date configuration
	Server Time zone (type for optio NTP Server (empty to disable) Europe/Madrid
	Server date 3/8/2020
	Previous Next

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

UDS Enterprise Broker Setup					
	Database configuration Database type (embedded local or remote MySQL)				
	Embedded (local)				
	MySQL (remote)				
		Previous	Next		



We 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 >= 5.6/10.3), 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.

UDS Enterprise	Broker Setup				
	Datab Database type (embedded io MySQL (remote) Server (IP or FQDN) 192.168.11.70 Username uds Database	Password	0		
	uds			Previous	Next

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 Update

JDS Enterpris	se Broker Setup
	UDS Activation In order to use UDS Enterprise version, broker needs to be activated. In case of online activation, make sure that UDS Broker is able to access internet using HTTPS. Only the activation information is sent. Activation method Online - UDS Broker will need internet connection
	Previous Next

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 Enterprise Broker Setup					
	Root console password	ecurity Repeat	0		
	UDS superuser password	Repeat	 ● 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...).

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

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

UDS Enterprise Broker Setup
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



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.



6. 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.

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 Update

UDS Enterprise Tunnel Setup
Please, select your language

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

	Networkin	ng	
Configure net	work		Ŧ
Host name udstunnel	Domain vc.loc	al	
IP 192.168.11.72	Network mask 2 255.255.255.0	Gateway 192.168.11.1	
Primary DNS	Second	ary DNS	
Primary DNS 192.168.11.1	Second 8.8.8.	ary DNS	:



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

UDS Enterprise Tunnel Setup	
In order to se UDS Appliance Take care wit console. UDS	Setup Code ecure installation, you must enter the code shown in the a console. h the code provided, must be exactly as shown in the will use it as base encryption key to secure setup process. Setup Code
	Previous Next

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

UDS Enterprise Tunnel Setup					
	Linux console keyboard layout Spanish Server Time zone (type for optio NTP Server (empty to disable) Europe/Madrid Server date 3/8/2020 0 40 24				
	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-360:~# uds trust -h
UDS Enteprprise tunnel CLI tool
usage: uds trust [-h] [-c] HOSTNAME PORT
positional arguments:
 HOSTNAME Hostname of the remote server.
 PORT Port of the remote server.
 optional arguments:
 -h, --help show this help message and exit
 -c, --chain Trust the certificate full chain.
 root@tunnel-360:~#



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

Ensuring that the name uds resolves to the IP 10.1.0.4...

Editing the /etc/hosts file:

#	Autogenerated	by UDS	S installer
1	27.0.0.1	localh	host
1	27.0.1.1	tunnel	<u>1-360</u> .domain.local tunnel-360
1	0.1.0.4	uds	

Una vez realizado el proceso podremos continuar con la configuración del Tunnel



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

Connection type	
HTTPS (secure conection)	
Server	
Port 443	
Authenticator Administration	Ţ

We configure the password of the local root user of the Tunnel server:

UDS Enterpri	se Tunnel Setup			
	Root console password	Security Repeat	0	
			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...).

UDS Enterprise Tunnel Setup				
	Web server certificate			
<u> </u>	If you wish to configure the server HTTPS certificates, you can do it now. This process is OPTIONAL, so if you don't have your own certificates, you can proceed by pressing next button.			
	Server certificate file (PEM format)			
	Private key file (PEM format)			
	Chain file (PEM format, optional)			
	Previous Next			



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.





7. 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 3.0 deployed:

In this case, it can be used in both UDS Client 3.0 and 3.5 or 3.6, although from UDS it is always recommended to use the latest compatible UDS Client available.

• There is a version of UDS Server 3.5 deployed:

In this case you will have to use the version 3.5 client as there is no compatibility with the version 3.0 client.

• You have a version of UDS Server 3.6

In this case, only the client of version 3.6 itself will be compatible.



UDS Actor:

In the case of the UDS Actor we will have the freedom to use both the version 3.0, 3.5 and 3.6 Actor regardless of the version of UDS we have on the platform.

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



8. About VirtualCable

<u>Virtual Cable</u> is a company specialized in the digital **transformation of the workplace**. The company develops, supports and markets UDS Enterprise. Its team of experts has designed **VDI** solutions tailored to **each sector** to provide a unique user experience fully adapted to the needs of each user profile. Virtual Cable professionals have **more than 30 years of experience** in IT and software development and more than 15 in virtualization technologies. **Millions of Windows and Linux virtual desktops with UDS Enterprise are deployed all over the world every day**.