



OpenGnsys service  
provider integration  
with **UDS Enterprise**

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## Introduction

OpenGnsys is an Open Source project that brings together the joint effort of several Spanish public universities to build an application that allows a simple centralized management of computers and servers. With it, images of different operating systems can be distributed, installed and deployed.

OpenGnsys was born to respond to the need to have a set of free and open tools that constitute a complete system for the management and cloning of versatile and intuitive equipment, which can be used both in the management of computer rooms, as well as to reinstall computers and servers.

The union of OpenGnsys with the UDS Enterprise connection broker allows to take advantage of many of the functionalities of both products and make them available to administrators and users, achieving:

- Reuse of underused physical computer equipment
- Centralized management and user access control
- Fast and automated deployments of VDI environments
- Secure and centralized access from any location with internet access
- Energy saving through equipment on / off control offered by OpenGnsys

The website of [OpenGnsys](http://OpenGnsys) It has all the project manuals, the complete code of the different versions, several discussion and help forums, documentation of the programming API, etc.



## Previous requirements

To carry out a correct integration between the OpenGnsys software and the UDS Enterprise connection broker in order to publish desktops or equipment so that they are accessible by users, you must take into account the following requirements:

- Have a UDS Enterprise 3.0 or higher environment with at least one active UDS Server (any version of UDS being compatible: Free, Evaluation, Enterprise).
- At least one Authenticator (with groups and users) and one Transport registered in the UDS Enterprise Control Panel will be necessary to access the service.
- An OpenGnsys server of version 1.1.1c, accessible from the UDS Server appliance network.
- The OpenGnsys database server must have [enabled event calendar](#) (to enable the "Remote Access" option in the OpenGnsys administration).
- Credentials with administration permissions of the OpenGnsys environment.
- A classroom at OpenGnsys with active and available machines.
- All the equipment in the classrooms configured to be managed by UDS must be generated with the same image. In UDS, this image will be selected for each type of service to be deployed.
- OS images used for classroom computers must have the OpenGnsys agent (OGAgent) installed and configured.



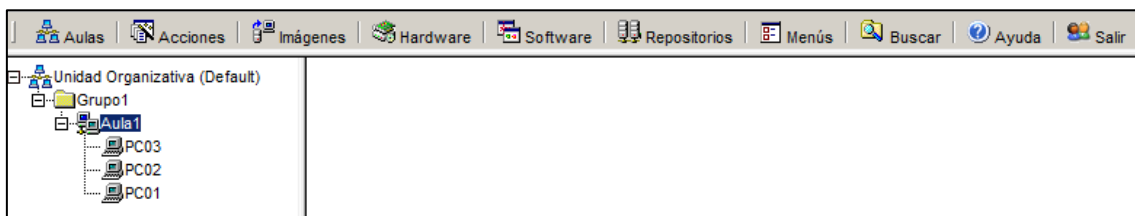
## OpenGnsys Configuration

Next, the most important elements that will need to be configured in OpenGnsys for its correct operation with the UDS Enterprise environment are indicated.

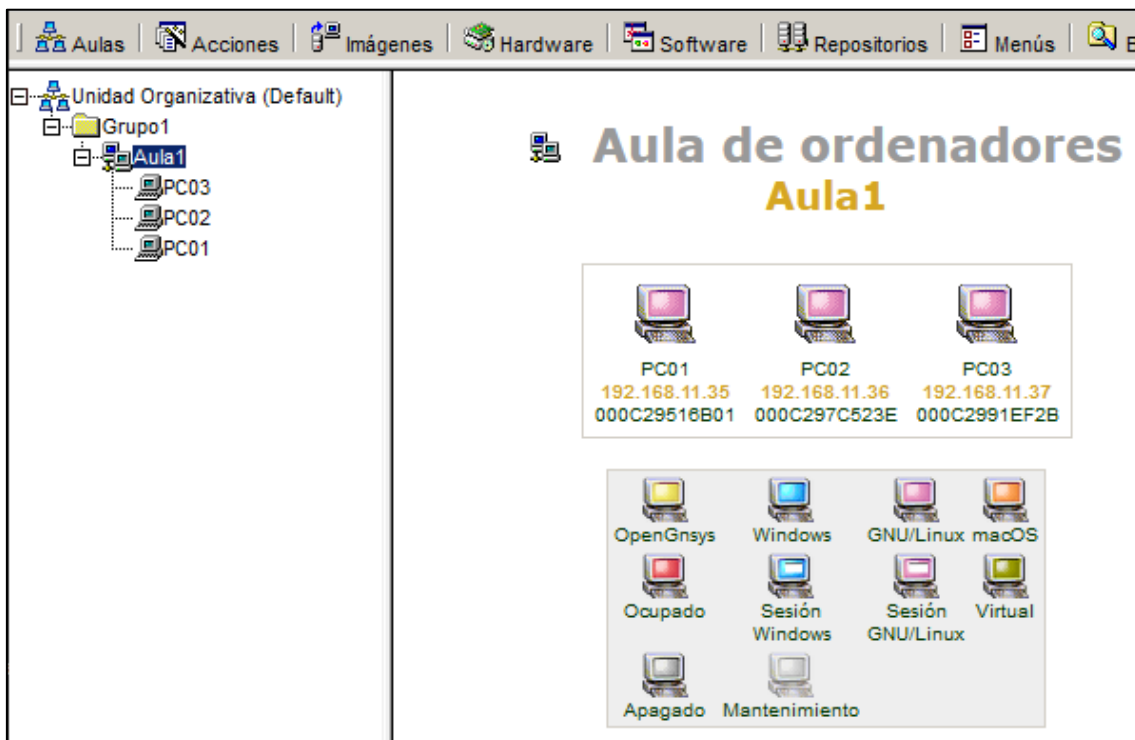
### 1. Classrooms

In the Classroom view you will need to have at least one OU (Organizational Unit).

Although UDS can use all the available equipment of an OU, it is recommended to create classrooms to have more control of the equipment that will be managed by UDS.

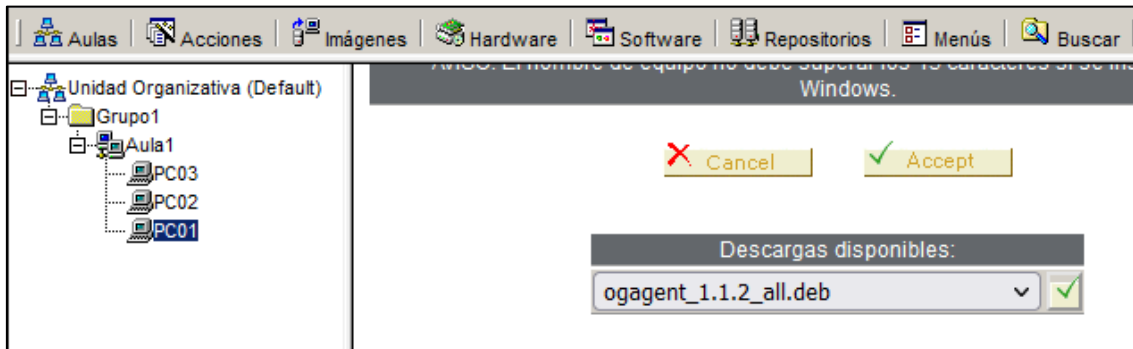


In order for UDS to be able to use the equipment in a classroom, they must have an OS recognized by OpenGnsys (these OSs are indicated with colors: yellow, blue, pink and orange). UDS may allow access to computers with Windows and Linux OS.

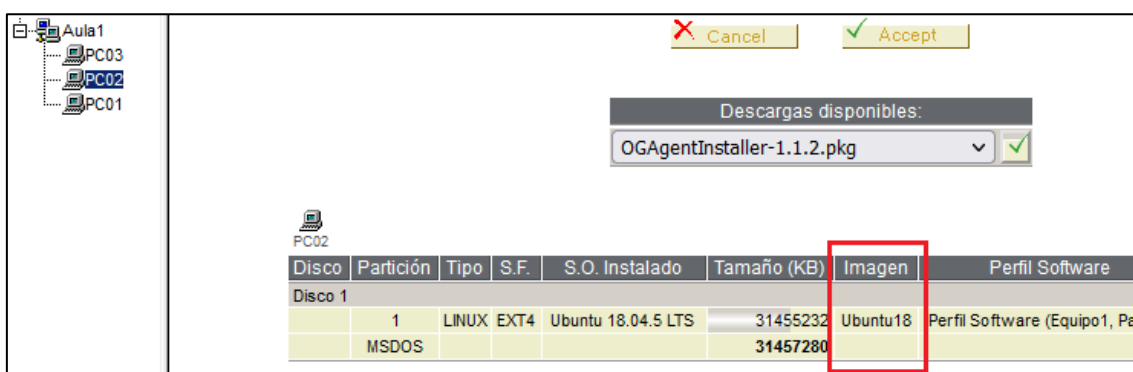
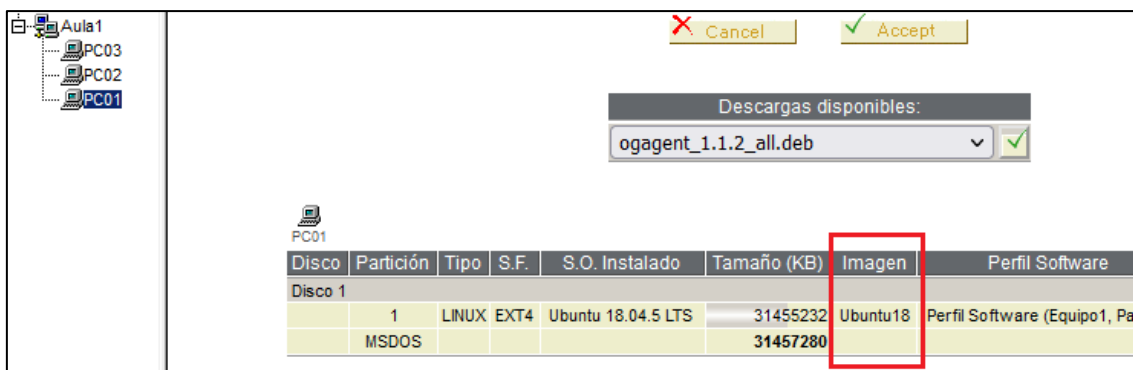




In order for OpenGnsys to have a connection with these computers and to display their status correctly, it will be necessary to install and configure the OpenGnsys agent (OGAgent). It is available in the properties of each computer.



For UDS to manage and assign the classroom computers to the users, all of them have to be based on the same image (you can have different groups of services based on different images, but they will be independent services from each other).





## 2. Images

OpenGnsys allows managing OS images, being able to create one based on an existing device or restore an image on different devices.

In the images view you can see all the images available and that can be applied to the computers in a classroom.

For the computers to be accessible through UDS, it is necessary that the box **"allow remote access management to computers"** is checked.

Gestión Imágenes Monolíticas	
Modificar	
Nombre	Ubuntu18
Descripción	Ubuntu18
Repositorio	Repositorio (Default)
Comentarios	Imagen maestra Ubuntu18 para el Aula1
Acceso remoto	<input checked="" type="checkbox"/> (permitir gestión de acceso remoto a los ordenadores)
Equipo modelo	PC01 (Aula1)
Disco, Partición	1, 1 (0-EMPTY)
Fecha de creación	2021-06-30 15:06:44 (r1)
Perfil Software	Perfil Software (Equipo1, Part:1)
Sistema operativo	Ubuntu 18.04.5 LTS
Tamaño de los datos	19.55 GB
Datos del repositorio	
Camino	/Ubuntu18.img
Tamaño	8.43 GB

ATENCIÓN.- Una imagen que tiene perfil software indica que en algún momento se ha creado y por tanto no pueden modificarse ciertos datos a menos que la elimine y la vuelva a crear

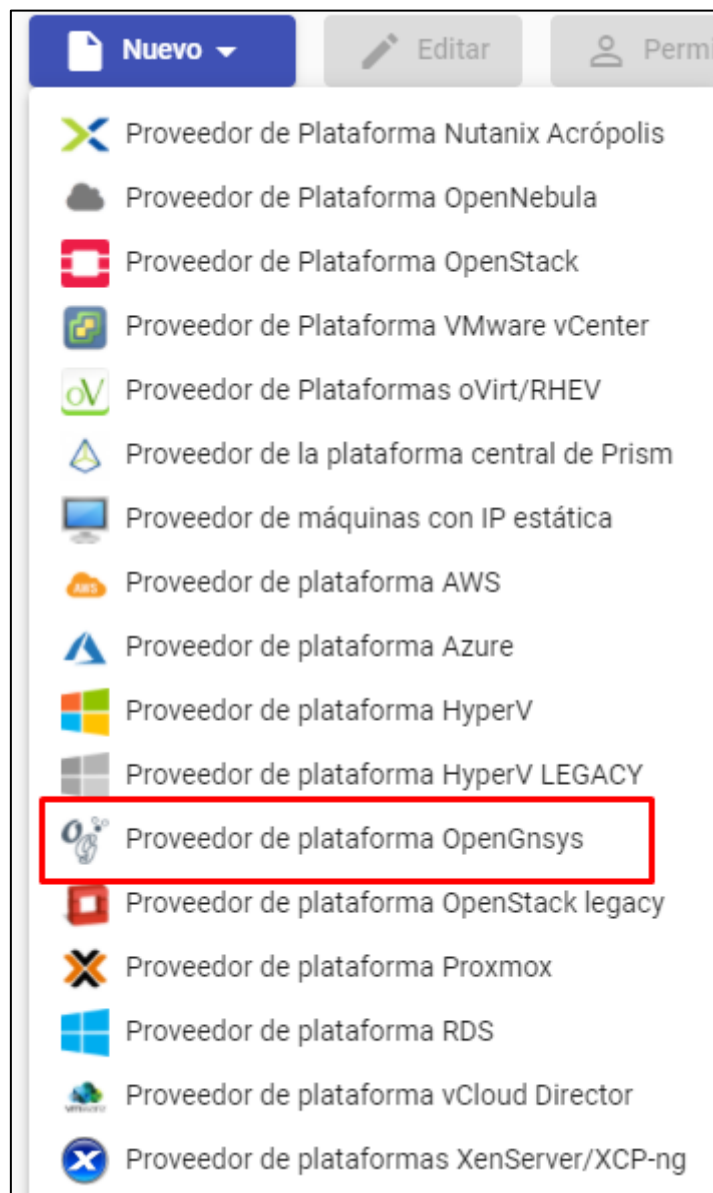


## OpenGnsys integration in UDS

To integrate an OpenGnsys environment with UDS Enterprise and that can manage the physical equipment to assign them to users, it will be necessary to access the UDS control panel and create a new service provider:

### 1. Registration of service provider "OpenGnsys Platform Provider"

In the "**Services**" section, click on the "**New**" button and select in the drop-down "**OpenGnsys Platform Provider**":







# OpenGnsys service provider integration with UDS Enterprise

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In order to configure the platform "OpenGnsys Platform Provider" The minimum parameters to configure are:

- **Main:**

Name of the service provider, IP or name of the OpenGnsys server ("**Host**" field), connection port with OpenGnsys (by default: 443) and a username and password with administration rights to the OpenGnsys environment.

**New provider**

MainParametersAdvanced

Tags

Tags for this element

Name \*

OpenGnsys

Comments

Comments for this element

Host \*

192.168.11.75

Port \*

443

Check Cert.

☐ No

Username \*

user

Password \*

••••••••••

Test

Discard & close

Save

- **Parameters:**

IP address or name of the UDS server that will be integrated with OpenGnsys. This field will be completed by UDS automatically when the service is saved (it will be necessary for the OpenGnsys server to have communication with the UDS server through the name or IP indicated).

**New provider**

MainParametersAdvanced

UDS Server URL

URL used by OpenGnsys to access UDS. If empty, UDS will guess it.

Test

Discard & close

Save



- **Advanced:**

Total number of simultaneous desktop creation tasks at the provider ("**Creation concurrency**" field), total number of simultaneous desktop removal tasks at the provider ("**Removal concurrency**" field) and "**Timeout**" time in connection with the OpenGnsys server.

**New provider**

MainParametersAdvanced

Creation concurrency \*  
10

Removal concurrency \*  
8

Timeout \*  
10

TestDiscard & closeSave

The "**Test**" button will check that the connection is made correctly.

Save and you will have a valid "**Service Provider**" to start creating base services in the OpenGnsys provider.

You will be able to register all the "**Service Providers**" of the "**OpenGnsys Platform Provider**" type that you need in the UDS platform.

Service providers						
<div>New Edit Permissions Maintenance Export Delete</div>						
Name ↑	Type	Comments	Status	Services	User Services	
<input type="checkbox"/> OpenGnsys	OpenGnsys Platform Provider		Active	0	0	

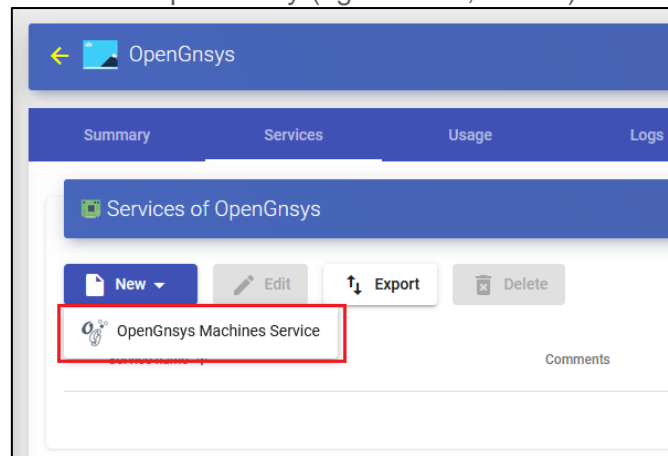
To modify any parameter in an existing "**Service Provider**", select it and click on the "**Edit**" button.

Using the "**Enter Maintenance Mode**" button you can pause all operations executed by the UDS server on a service provider. It is recommended to put a service provider into maintenance in cases where communication with that service provider has been lost or a maintenance outage is planned.



## 2. Configure service based on "OpenGnsys Machines Service"

To create base services of the "**OpenGnsys Machines Service**" type, access the "**Service Providers**" created previously (right button, details) and click on "**New**".



In an "**OpenGnsys Machines Service**" the minimum parameters to configure are:

- Main:

**Yam:** Name of the base service.

**OU:** Organizational Unit where the classroom to be used in the service is located.

**Lab:** Classroom that will manage UDS and where the teams that will be assigned to users are located.

**OS Image:** Image of the existing OS in OpenGnsys that the classroom equipment must have for UDS to consider them as "assignable" to users.



- Advanced:

**Max. Reservation time:** Indicates the maximum time in hours that the reserved computers will be in OpenGnsys

### New service

Main**Advanced**

Max. reservation time

2400

Discard & close

Save

Save and You will have a valid "**OpenGnsys Machines Service**" in the OpenGnsys Provider. You will be able to register all the "**OpenGnsys Machines Service**" that you need in the UDS platform.

← OpenGnsys

Summary

**Services**

Usage

Logs

Services of OpenGnsys

New ▾

Edit

Export

Delete

Filter

Service name ↑	Comments	Type	Services Pools	User services
<input type="checkbox"/> Ubuntu18		OpenGnsys Machines Service	0	0



## Creation of "Services Pools" for OpenGnsys

The creation of a "**Service Pool**" will allow the deployment of desktop services, which will be available for groups of users to access the UDS environment and connect to each services.

To create a new "**Service Pool**" it will be necessary to have a "**Base Service**" (made up of a service provider + a service created in it). Once created you will have to assign one or more groups and one or more transports to enable user access.

### 1. Registration of user groups and transport

In order to fully configure a pool of services, it will be necessary to have at least one user group (with registered users) and a transport that provides access to the desktops provided by OpenGnsys.

You can define any type of authenticator (in this example you will use the type "**Internal Database**"):

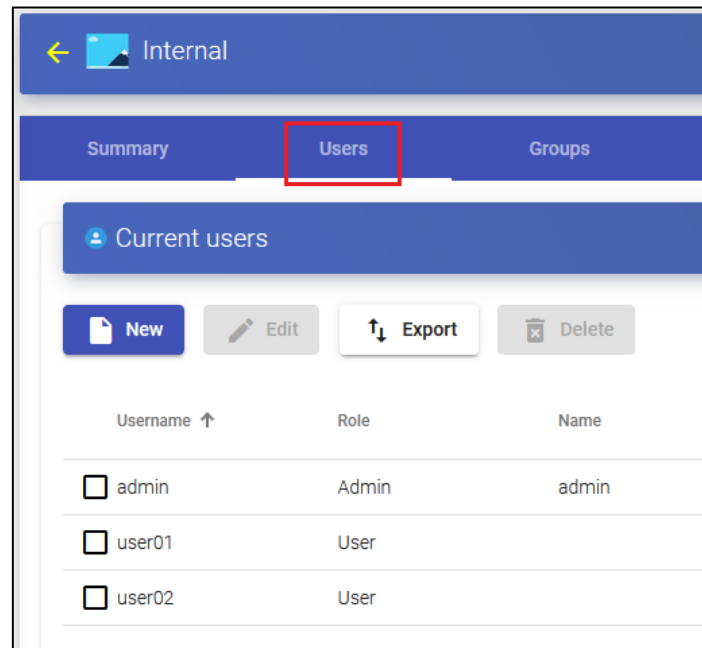
Authenticators						
<div>New Edit Permissions Export Delete</div>						
Filter						
1 - 1 of 1						
<div></div>						
Id	Name ↑	Type	Comments	Priority	Visible	Label
<input type="checkbox"/> 1	Internal	Internal Database		1	yes	int

And let's make sure you have user groups created:

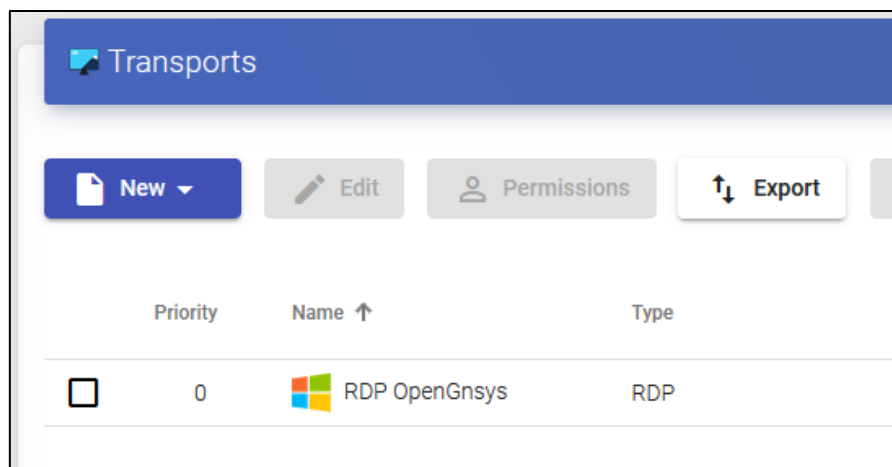
Internal	
Summary	Users
Groups	
Current groups	
<div>New Edit Export Delete</div>	
Group ↑	Comments
<input type="checkbox"/> admins	
<input type="checkbox"/> users	



And users assigned to those groups:



Confirm that you have a valid transport to be able to assign to the service pool:



Within the transport you can configure the access credentials to the desktops, the quality of the connection, devices that you need to redirect, etc...

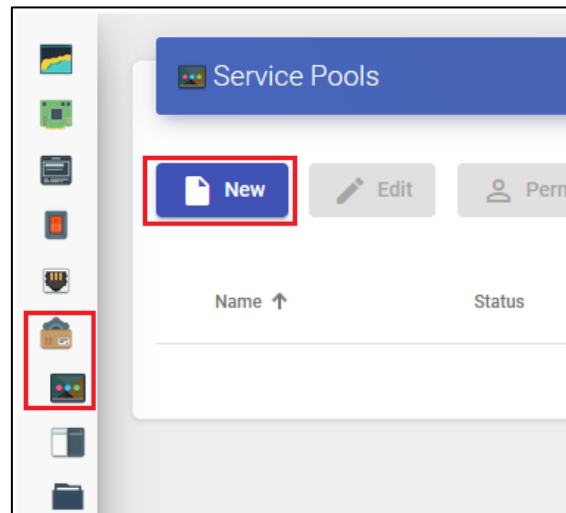
If you have any questions when creating and configuring these elements, you can consult the UDS Enterprise Installation, Administration and User Manual available on the website of [UDS Enterprise](http://UDS Enterprise), where the creation of each element is detailed.



## 2. Publication of the Service Pool

Once you have all the necessary elements, you will proceed to create and publish a pool of services.

To create a "Service Pool" you access the section "Pools" - "Service pools" and click on "New".



To configure a "Service Pool" it will be necessary to indicate:

- Main:

**Yam:** Name of the "Service Pool" (this name will be the one that is shown to a user to access your service).

**Short name:** Short name of the service.

**Base Service:** Consisting of a service provider \ service, previously configured within the service provider.

**OS Manager:** It is not necessary when you use an OpenGnsys type service provider.

**Publish on creation:** If this option is enabled, when you save the service pool, the system will launch the first publication automatically. If it is not enabled, it will be necessary to launch the publication of the service manually (from the "Publications" tab).



### New service Pool

< Main Display Advanced >

Tags

Tags for this element

Name \*

Desktop Ubuntu

Short name

Short name for user service visualization

Comments

Comments for this element

Base service

OpenGnsys\Ubuntu18

OS Manager

(This service does not requires an OS Manager)

Publish on creation

☒ Yes

Discard & close Save

- Advanced:

**Allow removal by users:** If enabled, users will be able to remove the services assigned to them. Only the assignment will be removed and a new one will be assigned on the next connection.

**Allow reset by users:** It does not apply to OpenGnsys.

**Ignores unused:** If enabled, non-persistent user services that are not in use will not be removed.

**Show transports:** With this option activated, all transports assigned to the service will be displayed. If it is not activated, only the default transport with the highest priority (lowest number in the "priority" field of a transport) will be displayed.

**Accounting:** Assigning a service to a previously created "Accounts" ("Pools" - "Accounts")

### New service Pool

< Main Display Advanced >

Allow removal by users

☐ No

Allow reset by users

☐ No

Ignores unused

☐ No

Show transports

☒ Yes

Accounting

Discard & close Save





- Display:

**Visible:** If disabled, the "Service Pool" will not be shown as available to users on the UDS services page ("User mode").

**Associated Image:** Image associated with the service. It has to be previously added to the image repository, accessible from the "Tools" - "Gallery" section.

**Pool group:** Allows you to group different services. In order to assign a "Pool group", it must be previously created in the "Pools" - "Groups" section.

**Calendar Access denied text:** Text that will be displayed when a service has access denied by the application of an access calendar.

The screenshot shows the 'New service Pool' configuration form with the 'Display' tab selected. The form has three tabs: 'Main', 'Display', and 'Advanced'. The 'Display' tab contains the following fields:

- Visible:** A toggle switch is turned on, labeled 'Yes'.
- Associated Image:** A dropdown menu showing the UDS logo.
- Pool group:** A dropdown menu showing 'Default'.
- Calendar access denied text:** A text area with the placeholder text 'Custom message to be shown to users if access is limited by calendar rules.'

At the bottom right of the form are two buttons: 'Discard & close' and 'Save'.

- Availability:

**Initial available services:** Minimum number of computers that will be turned on and prepared at the creation of the service.

**Services to keep in cache:** Number of equipment available. These will always be on and ready to be assigned to a user (they will automatically turn on until the maximum number of machines indicated in the "Maximum number of services to provide" field is reached).

**Services to keep in L2 cache:** It does not apply to OpenGnsys.

**Maximum number of services to provide:** Maximum number of computers available in the "Service Pool".



### New service Pool

< Display Advanced Availability >

Initial available services  
2

Services to keep in cache  
1

Services to keep in L2 cache  
0

Maximum number of services to provide  
3

Discard & close Save

**NOTE:** In the configuration indicated in the example, initially there will always be two computers on and available. When those two computers are assigned to users, the system will turn on a new one to fulfill the cache data (there is always a computer available). As there are only 3 machines in the classroom, the maximum number will be 3.

Save the new **"Service Pool"** and the system will start preparing the computers (turning them on) based on the configured cache and the available computers in the OpenGnsys classroom (**"Availability"** tab).

Using the **"Delete"** button you can completely delete a **"Service Pool"** and with **"Edit"** you can modify it.

Service Pools

New Edit Permissions Export Delete Filter

Name ↑	Status	User services	In Preparation	Usage
<input type="checkbox"/> Desktop Ubuntu	Active	0	0	0%



If you enter the "**Publications**" section of the Pool created, and if you have marked the "**Publish on creation**" option, the system will automatically make the first publication of the service.

Revision	Publish date	State	Reason
1	08/24/2021 13:41	Valid	

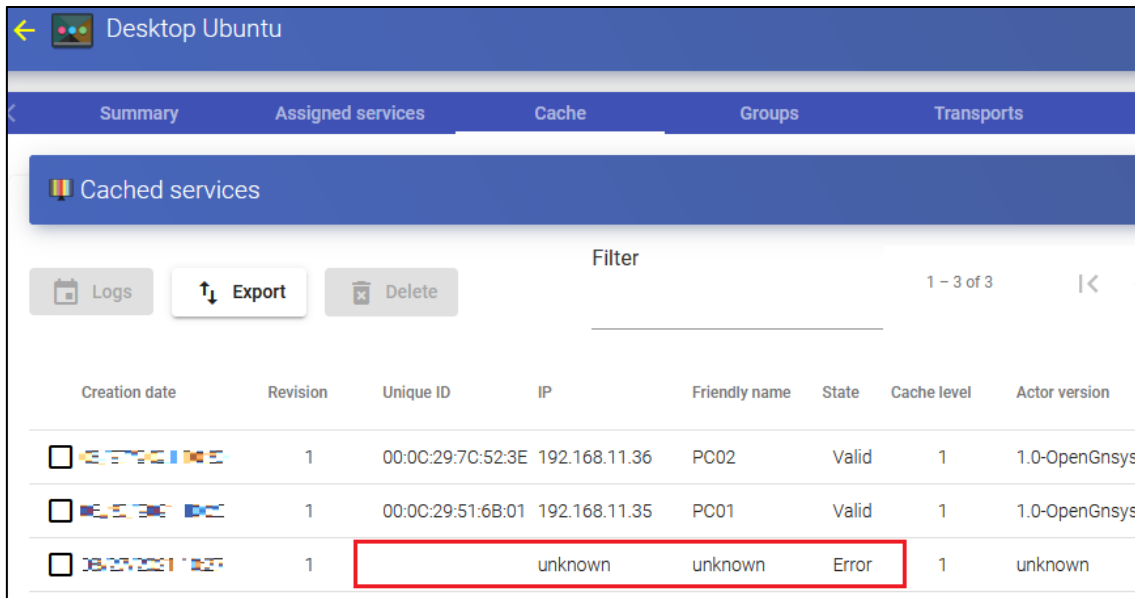
Once you have created a "**Service Pool**", upon accessing you will have the following control and configuration menus:

- **Cache:** Desktops available for user connection (the number of desktops generated will be the one indicated in the "Availability" tab). These desktops will go through different states:
  - **In Preparation:** In this state the virtual desktops are being started by OpenGnsys.
  - **Valid:** When a desktop is in this state, it is available for a user to access.

Creation date	Revision	Unique ID	IP	Friendly name	State	Cache level	Actor version
	1	00:0C:29:51:6B:01	192.168.11.35	PC01	Valid	1	1.0-OpenGnsys
	1	00:0C:29:7C:52:3E	192.168.11.36	PC02	In preparation	1	1.0-OpenGnsys

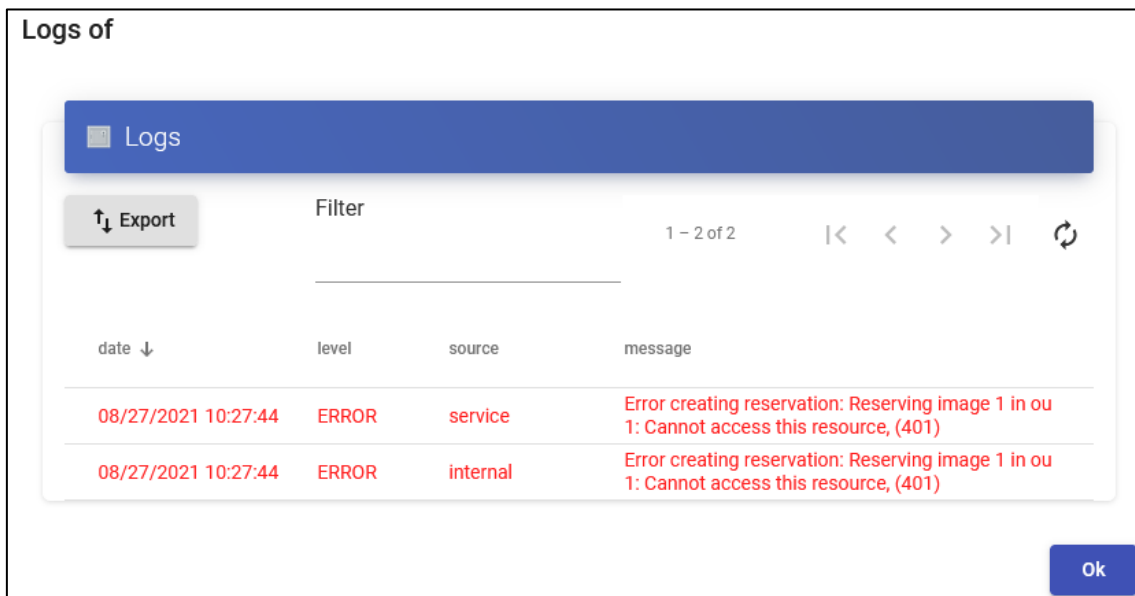


If you see that the system begins to generate machines with "**Error**" status and that they do not have an IP or MAC address, it may mean that there are no more computers available in the OpenGnsys classroom.



Desktop Ubuntu								
Summary Assigned services Cache Groups Transports								
Cached services								
Filter								
1 - 3 of 3								
Creation date	Revision	Unique ID	IP	Friendly name	State	Cache level	Actor version	
	1	00:0C:29:7C:52:3E	192.168.11.36	PC02	Valid	1	1.0-OpenGnsys	
	1	00:0C:29:51:6B:01	192.168.11.35	PC01	Valid	1	1.0-OpenGnsys	
	1		unknown	unknown	Error	1	unknown	

If you look at the log in the service with error, you can see the following message:



Logs of			
Logs			
Filter			
1 - 2 of 2			
date ↓	level	source	message
08/27/2021 10:27:44	ERROR	service	Error creating reservation: Reserving image 1 in ou 1: Cannot access this resource, (401)
08/27/2021 10:27:44	ERROR	internal	Error creating reservation: Reserving image 1 in ou 1: Cannot access this resource, (401)

Ok

- **Assigned Services:** Desktops assigned to users. Displays information about the creation date of the desktop, the revision (or publication) number on which the desktop is generated, the MAC address of the VM's network card, the DNS name and IP of the virtual desktop, the status of the desktop, if it is in use, the name and IP of the connection client, the owner of the machine and the version of the UDS agent installed.



The screenshot shows the 'Assigned services' tab for a desktop named 'Desktop Ubuntu'. The interface includes a navigation bar with tabs: Summary, Assigned services, Cache, Groups, Transports, Publications, and Scheduled actions. Below the navigation bar, there is a section titled 'Assigned services' with buttons for 'Change owner', 'Logs', 'Export', and 'Delete'. A table lists the assigned services with columns: Creation date, Revision, Unique ID, IP, Friendly name, status, Status date, In Use, Src Host, Src Ip, Owner, and Actor version. The table contains one row of data.

Creation date	Revision	Unique ID	IP	Friendly name	status	Status date	In Use	Src Host	Src Ip	Owner	Actor version
00:00:29:51:6B:01	1	00:00:29:51:6B:01	192.168.11.35	PC01	Valid		no	Machine	192.168.11.2	user01@Internal	1.0-OpenGnsys

By marking the desktop and clicking on "**Change owner**", you can change the user assigned to the desktop.

The dialog box is titled 'Change owner of assigned service'. It contains two dropdown menus. The first dropdown is labeled 'Authenticator' and has 'Internal' selected. The second dropdown is labeled 'User' and has 'user02' selected. At the bottom right of the dialog, there are two buttons: 'Cancel' (red) and 'Ok' (blue).

By clicking on "**Delete**", with the desktop marked, you can delete it manually.



- **Groups:** To allow users to connect, it is necessary to assign access groups or metagroups. These groups or metagroups must be created in the "**Authenticators**" section and you can assign one or more access groups or metagroups to each "**Service Pool**"

The screenshot shows the 'Desktop Ubuntu' interface with the 'Groups' tab selected. The 'Assigned groups' section displays a table with the following data:

Name	comments
<input type="checkbox"/> users@Internal	

Select the "**Authenticator**" and based on your choice you choose the "**Group Name**".

The 'New group for Desktop Ubuntu' dialog box shows the following configuration:

- Authenticator:** Internal
- Group:** users

Buttons: Cancel, Ok



- **Transports:** The "Transports" will be indicated to make the connection with the desktop (previously added in the "Transports" section). The "Transport" with the lowest priority will be the one that the system configures by default. To use the rest of the transports, the user will have to open the drop-down on the services access screen and select the one that corresponds.

Desktop Ubuntu

Cache Groups **Transports** Publications

Assigned transports

New Export Delete Filter 1 - 1

	Priority	Name ↑	Type	Comme
<input type="checkbox"/>	0	RDP OpenGnsys	RDP	

Select the "Transport" that you want to use in this "Service Pool" and save.

### New transport for Desktop Ubuntu

Transport

RDP OpenGnsys

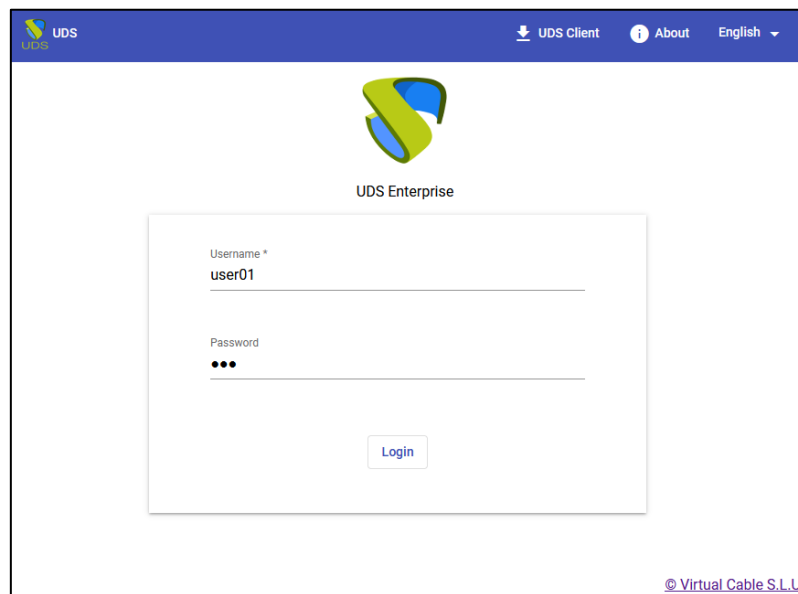
Cancel Ok



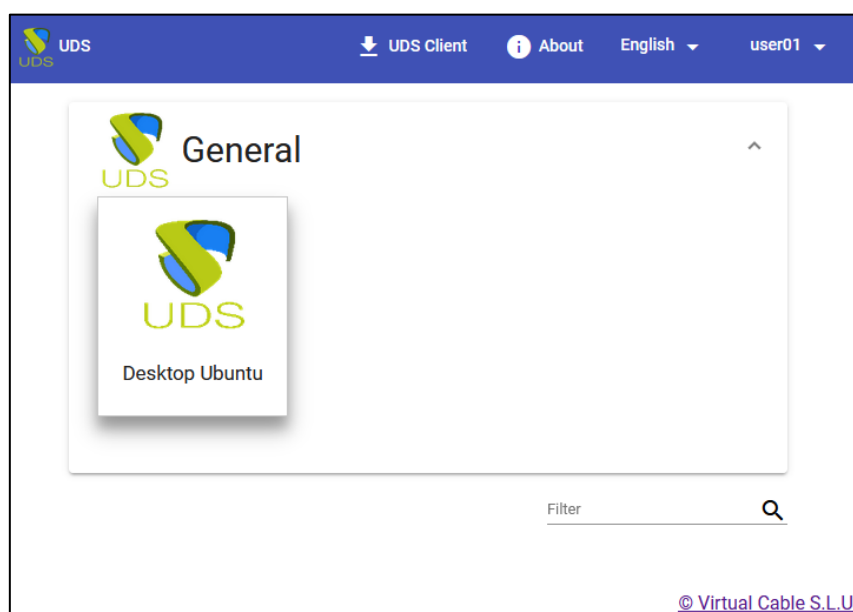
## 3. Desktop access

Once you have desktops (in the cache section) in a valid state within the service pool created with the OpenGnsys provider, and you have at least one group and one transport assigned to said pool, you can now access.

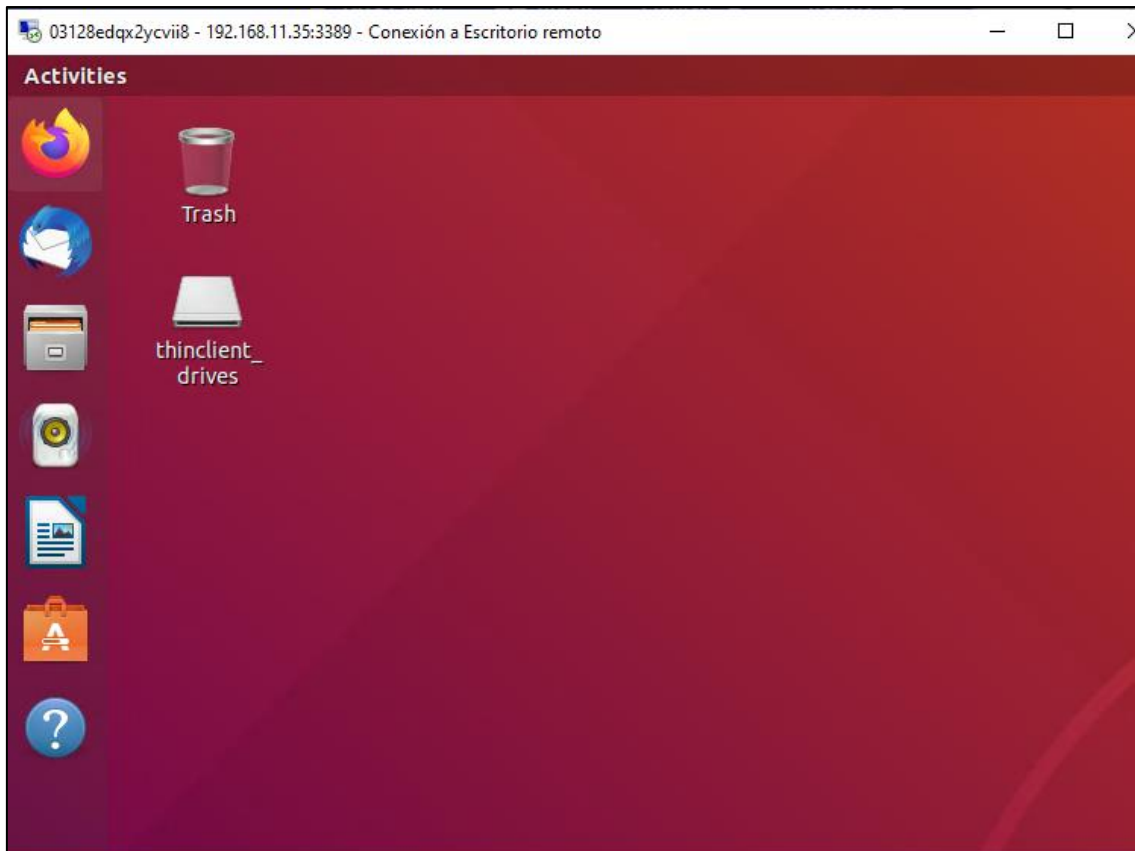
In the UDS login screen you will indicate the credentials of a user that belongs to the group configured in the previously created pool of services.



Once the credentials have been validated, you can click on the service to connect to the desktop.







When a user logs off their desktop, UDS will remove the assignment of this service and will indicate to OpenGnsys that it is available to reapply the indicated configuration and that it will be free to be used by another user again.



## Troubleshooting

Here are some errors displayed by the platform and that may be due to misapplied configurations.

- Restricted service pool

Name	Status	User services	In Preparation	Usage	Visible	Shows transports	Pool group	Parent service
Desktop Ubuntu	Restricted	3	0	25%	yes	yes	Default	Ubuntu18

When a pool of services enters restricted mode, it is because a number of errors have occurred in a predetermined time. The number of errors and the time are indicated in the advanced configuration of UDS (Tools - Configuration - UDS), parameters “**restrainCount**” (number of errors) and “**restrainTime**” (time indicated in seconds).

For example, if our UDS environment has default values in “**restrainCount**” (default value = 3) and “**restrainTime**” (default value = 600), if 3 errors occur in less than 600 seconds (10 minutes), the system enters “**Restricted**”.

Creation date	Revision	Unique ID	IP	Friendly name	State	Cache level	Actor version
00:00:29:7C:52:3E	1	00:00:29:7C:52:3E	192.168.11.36	PC02	Valid	1	1.0-OpenGnsys
00:00:29:51:6B:01	1	00:00:29:51:6B:01	192.168.11.35	PC01	Valid	1	1.0-OpenGnsys
00:00:29:7C:52:3E	1	unknown	unknown	unknown	Error	1	unknown
00:00:29:7C:52:3E	1	unknown	unknown	unknown	Error	1	unknown
00:00:29:7C:52:3E	1	unknown	unknown	unknown	Error	1	unknown

Once those 10 minutes have passed without errors, the pool will exit restricted mode and continue normal operation. If the errors occur again, the service will be restricted again.



- Service in state "In preparation"

You can find that when UDS configures a service, it remains in "In preparation" state for a long time and if this state is not updated, the service is automatically eliminated between 1 - 2 hours (this time is the default. modify, it will be necessary to change the value of the parameter "maxInitTime" within the advanced configuration of UDS).

Desktop Ubuntu

Summary

Assigned services

Cache

Groups

Transports

Publications

Cached services

Logs

Export

Delete

Filter

1 - 3 of 3

<<

>>

Creation date	Revision	Unique ID	IP	Friendly name	State	Cache level	Actor version
<input type="checkbox"/> 00:00:29:7C:52:3E	1	00:0C:29:7C:52:3E	192.168.11.36	PC02	Valid	1	1.0-OpenGnsys
<input type="checkbox"/> 00:00:29:51:6B:01	1	00:0C:29:51:6B:01	192.168.11.35	PC01	Valid	1	1.0-OpenGnsys
<input type="checkbox"/> 00:00:29:91:EF:2B	1	00:0C:29:91:EF:2B	192.168.11.37	PC03	In preparation	1	1.0-OpenGnsys

When a service remains in this state for a long time ("In preparation"), it may be because there is a problem with the start of the machine. That is, UDS gives the order to start the machine to OpenGnsys and it sends the WoL to start it. If it does not start, the status will never advance to "Valid" (required status to allow users to connect to the machine).

A service in "In preparation" state will remain so until it starts correctly or until the time indicated in the "maxInitTime" parameter (located in the advanced UDS configuration) is reached. This time can reach up to the double indicated, since this parameter indicates how often the status must be checked.

For example, with the default value of the parameter "maxInitTime" (3601 seconds), machines can be between one and two hours in this state. After that time, UDS cancels them and tries to configure other machines (in case there are more machines available) or even the same one again:

Summary

Assigned services

Cache

Groups

Transports

Publication

Cached services

📅 Logs

📄 Export

🗑️ Delete

Filter

1 - 4 of 4

Creation date	Revision	Unique ID	IP	Friendly name	State	Cache level	Actor version
<input type="checkbox"/> 00:00:29:7C:52:3E	1	00:0C:29:7C:52:3E	192.168.11.36	PC02	Valid	1	1.0-OpenGnsys
<input type="checkbox"/> 00:00:29:51:6B:01	1	00:0C:29:51:6B:01	192.168.11.35	PC01	Valid	1	1.0-OpenGnsys
<input checked="" type="checkbox"/> 00:00:29:91:EF:2B	1	00:0C:29:91:EF:2B	192.168.11.37	PC03	Canceling	1	1.0-OpenGnsys
<input type="checkbox"/> 00:00:29:91:EF:2B	1	00:0C:29:91:EF:2B	192.168.11.37	PC03	In preparation	1	1.0-OpenGnsys



If you look at the log of the canceled service, you can see the following message:

Logs of

Logs

Export

Filter

1 - 1 of 1

< > < >

date ↓	level	source	message
08/27/2021 12:34:47	ERROR	internal	User Service seems to be hanged. Removing it.

Ok

- Computers with different assigned image

For UDS to be able to use all the existing equipment in a classroom, they must be assigned the same image. If any of them do not have it, it will not be considered as a valid device to be assigned to a user, obtaining errors in the preparation and access.

You must indicate the image that all the classroom computers must have in the definition of the OpenGnsys base service, within the UDS administration:

### Edit service

MainAdvanced

Tags

Tags for this element

Name \*

Ubuntu18

Comments

Comments for this element

OU \*

Unidad Organizativa (Default)

lab

Aula1

OS Image \*

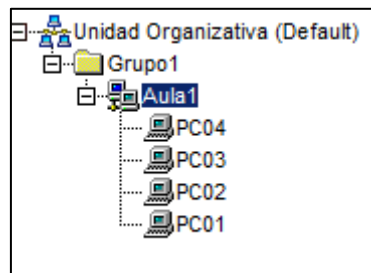
Ubuntu18

< >

Discard & closeSave



In the following example, a classroom with 4 computers is shown:



Of the 4 machines, 3 of them are based on the same image:

PC01									
Disco	Partición	Tipo	S.F.	S.O. Instalado	Tamaño (KB)	Imagen	Perfil Software	Fe	
Disco 1									
	1	LINUX	EXT4	Ubuntu 18.04.5 LTS	31455232	Ubuntu18	Perfil Software (Equipo1, Part:1)	2021-	
	MSDOS				31457280				

PC02									
Disco	Partición	Tipo	S.F.	S.O. Instalado	Tamaño (KB)	Imagen	Perfil Software	Fe	
Disco 1									
	1	LINUX	EXT4	Ubuntu 18.04.5 LTS	31455232	Ubuntu18	Perfil Software (Equipo1, Part:1)	2021-	
	MSDOS				31457280				

PC03									
Disco	Partición	Tipo	S.F.	S.O. Instalado	Tamaño (KB)	Imagen	Perfil Software	Fe	
Disco 1									
	1	LINUX	EXT4	Ubuntu 18.04.5 LTS	31455232	Ubuntu18	Perfil Software (Equipo1, Part:1)	2021-	
	MSDOS				31457280				

And one of them does not have the image associated with it:

PC04									
Disco	Partición	Tipo	S.F.	S.O. Instalado	Tamaño (KB)	Imagen	Perfil Software	Fe	
Disco 1									
	1	LINUX	EXT4	Ubuntu 18.04.5 LTS	31455232				
	MSDOS				31457280				



In the UDS administration, when you create the base service you must indicate the image that the classroom will use:

**Edit service**

Main Advanced

Tags  
Tags for this element

Name \*  
Ubuntu18

Comments  
Comments for this element

OU \*  
Unidad Organizativa (Default)

lab  
Aula1

OS Image \*  
Ubuntu18

Discard & close Save

In this scenario, UDS will be able to prepare and make available to users only the three computers assigned to the image (pc01, pc02 and pc03). The fourth computer (pc04), as it does not have the image associated, cannot be prepared.

If you have indicated that all the machines in the classroom be prepared (4), the creation of this last machine will give an error, since there are no more machines in the classroom (since pc04 will not be a valid machine)

Desktop Ubuntu

Summary Assigned services Cache Groups Transports Public

Cached services

Logs Export Delete Filter 1 - 5 of 5

Creation date	Revision	Unique ID	IP	Friendly name	State	Cache level	Actor version
03/07/2023 14:33	1	00:0C:29:91:EF:2B	192.168.11.37	PC03	Valid	1	1.0-OpenGnsys
03/07/2023 14:33	1	00:0C:29:51:6B:01	192.168.11.35	PC01	Valid	1	1.0-OpenGnsys
03/07/2023 14:33	1	00:0C:29:7C:52:3E	192.168.11.36	PC02	Valid	1	1.0-OpenGnsys
03/07/2023 14:33	1		unknown	unknown	Error	1	unknown



If you look at the service log in error you will find the following message:

Logs of

Logs

Export

Filter

1 - 2 of 2

<< < > >> ↺

date ↓	level	source	message
08/27/2021 14:59:42	ERROR	service	Error creating reservation: Reserving image 1 in ou 1: Cannot access this resource, (401)
08/27/2021 14:59:42	ERROR	internal	Error creating reservation: Reserving image 1 in ou 1: Cannot access this resource, (401)

Ok

You will have to be careful with this scenario since if you obtain several errors in a certain period of time (defined in the parameters “**restrainCount**” and “**restrainTime**”) due to the fact that there are no longer computers available in the classroom, the pool of services can enter in restricted mode:

Service Pools



New

Edit

Permissions

Export

Delete

Name ↑	Status	User services	In Preparation	Usage	Visible
<input checked="" type="checkbox"/>   Desktop Ubuntu	Restrained	3	0	0%	yes



## About Virtual Cable

Virtual Cable develops and markets UDS Enterprise through a subscription model by number of users that includes support and updates.

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

For more information visit [www.udsenderprise.com](http://www.udsenderprise.com) or email us at [info @ udsenterprise](mailto:info@udsenderprise.com).