



VIRTUAL
CABLE

Installation of Virtual PC Plugin of UDS Enterprise 3.6



UDS
ENTERPRISE

3.6



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Introduction

Moodle is a very popular online learning management platform that is used by educators, trainers, schools, colleges and educational organizations in general. It is Open Source, so it is customizable, as well as very easy to use. It allows users to create their own private website to host their courses on. Here are some of its features:

- customizable dashboard
- user friendly interface
- multilingual support
- Creation and management of courses
- calendars
- Detailed reporting and results generation capability

Moodle is the first e-Learning platform with access to VDI thanks to the UDS Enterprise Virtual PC Plugin developed by the [Malaga University](#) in collaboration with the UDS Enterprise team.

This tool is [available on the Moodle website](#) and it allows assigning a virtual desktop service, with Windows or Linux OS, and virtual applications, as one more didactic resource.

For example, a design course that requires Photoshop, Dreamweaver, or Eclipse can be published online for students with direct links to virtual desktops and applications. Therefore, the Moodle environment will be more complete and functional, since students will have available all the tools they need to carry out their respective courses through the Moodle interface.

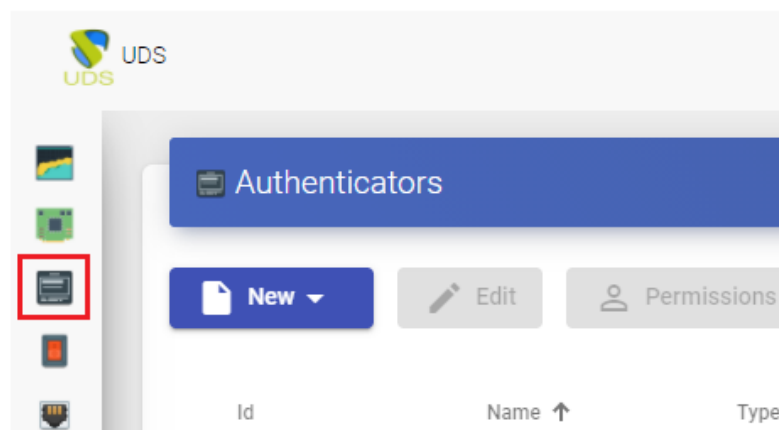
In this document we will explain how to install and configure the PluginVirtual PC for UDS Enterprise Moodle.

Installation and configuration of the Virtual PC Plugin

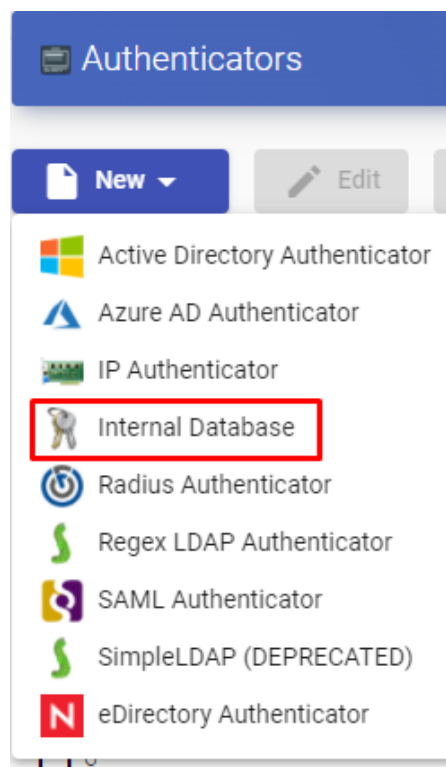
Configuration in UDS Enterprise

Before beginning the installation of the Virtual PC Plugin, it will be necessary to access the UDS administration and perform the following tasks.

Access the UDS Enterprise control panel with a user with administration permissions and select "Authenticators":



Create a new internal database:



Indicate an identifying name for the authenticator, a priority and a label. This tag serves as a shortcut to the authenticator.

New Authenticator

Main **Advanced** **Display**

Tags
Tags for this element

Name *
moodle auth

Comments
Comments for this element

Priority *
2

Label *
moodle

Once the authenticator is created, we access it (double click or "Detail" button) to create a group and a user associated with it.

Create the group "moodle_group" and assign the necessary services.

New group

Group name
moodle_group

Comments

State
Enabled ▼

Service Pools
LibreCalc, LibreWriter, Photoshop, Paint, Windows 10, Window... ▼

Create the "moodle" user, with administration permissions on the UDS environment and assign the user to the previously created group:

New user

User name
moodle

Real name

Comments
Administrative user for Moodle

State
Enabled ▼

Role
Admin ▼

Password
.....

Groups
moodle_group ▼

Now you can go back to the Moodle configuration interface and download the Virtual PC Plugin to link your UDS Enterprise platform with your Moodle site.

Moodle Dashboard


1. Plugin Download

Access the link: https://moodle.org/plugins/pluginversions.php?plugin=mod_virtualpc and download the latest version of the Virtual PC Plugin.

[Página Principal](#) ▶ [Plugins](#) ▶ [Activities](#) ▶ [Virtual PC](#) ▶ [Versions](#)

Activities: Virtual PC

mod_virtualpc

Maintained by  A. gtdino

Virtual PC activity provides access to virtual computers offered by virtualization programs (VMware, oVirt, OpenStack, Citrix) and computers that Moodle course teachers can select and offer to their students using this activity module. That way, students can run restricted software, without having to install it in their personal computers, fulfilling all the legal conditions. The students only run the software on the virtual computer.

[Description](#)

[Versions](#)

[Stats](#)

[Translations](#)

Current versions

3.1.1 (2015020604)

Moodle 3.1

Release date: martes, 7 de febrero de 2017, 02:55

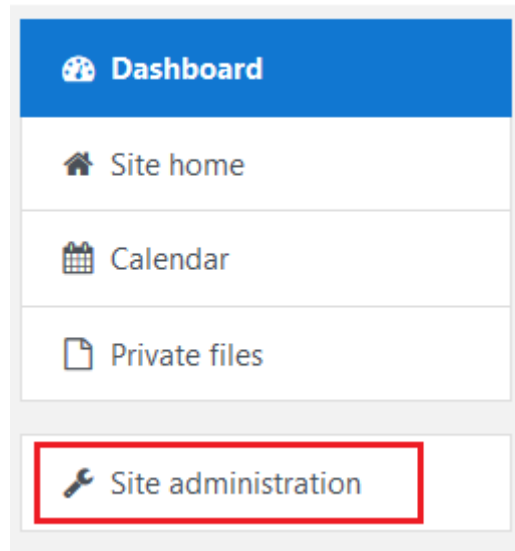
code prechecks **0** | **1**

[Download](#)

[Learn more](#)

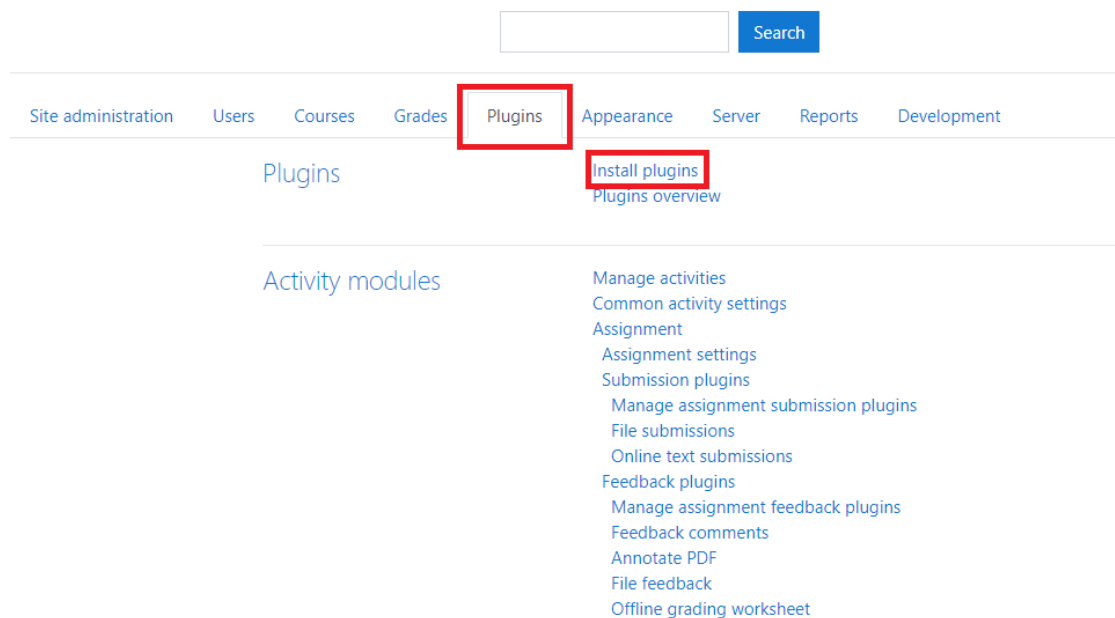
2. Plugin Installation

Access the Moodle dashboard as a user with administration permissions and select "Site administration":



Within that section, open the "Plugins" tab and select "Install plugins".

Site administration



In the "Install plugin from ZIP file" section, click "Choose a file..." and select the downloaded "mod_virtualpc_moodlexx_xxxx.zip" file. Next, click on "Install plugin from the ZIP file".

Plugin installer

Install plugins from the Moodle plugins directory ?

▼ Install plugin from ZIP file ?

ZIP package ! ?

Choose a file...

mod_virtualpc_moodle31_2015020604.zip

Accepted file types:

Archive (ZIP) .zip

Show more...

Install plugin from the ZIP file

There are required fields in this form marked ! .

If the validation is correct and satisfactory, continue with the Plugin configuration.

Mi Moodle

Install plugin from ZIP file

Validating mod_virtualpc ... OK

Validation successful, installation can continue

Continue Cancel

3. Plugin Settings

For the correct configuration of the Plugin you must take into account these details and properties of each field:

- **UDS Server URL:** IP address or UDS server name. It has to be accessible by the Moodle server.
- **UDS Server port number:** This field can be set with the value "0".
- **UDS administrator user:** Existing user in the UDS environment with administrator permissions (we can use the "moodle" user created previously).
- **UDS administrator user password:** Password of the user of the previous field.
- **Administrator user UDS authenticator tag:** Name of the authenticator label to which the previous admin user belongs (we can use the previously created authenticator label).
- **Pool filter regular expression:** Serves as a filter so that certain services appear first. This filter applies when viewing services during their assignment to courses. For example, with the expression: `^W.*` first filters the services that start with **W**.
- **UDS authenticator tag:** Authenticator tag that UDS will use to register users who access the Moodle environment (we can use the authenticator tag created previously).
- **group name:** Name of the UDS user group where the users created by UDS will be assigned (we can use the "moodle_group" user group created previously).

Virtual PC

UDS server URL <small>virtualpc serverurl</small>	<input type="text" value="https://demo.udsenderprise.com"/>	Default: Empty
	UDS server URL for REST requests (http[s]://hostname)	
UDS server port number <small>virtualpc serverport</small>	<input type="text" value="0"/>	Default: Empty
	Port for REST requests	
UDS administrator user <small>virtualpc username</small>	<input type="text" value="moodle"/>	Default: Empty
	This module will use this UDS user to do REST requests to the UDS server. It must have administrator permissions.	
UDS administrator user password <small>virtualpc password</small>	<input type="password" value="....."/>	
	UDS user password with administrator permissions	
Administrator user UDS authenticator tag <small>virtualpc authsmallnameforadmin</small>	<input type="text" value="moodle"/>	Default: Empty
	UDS authenticator tag to which the administrator user belongs	
Pool filter regular expression <small>virtualpc filterpoolname</small>	<input type="text"/>	Default: Empty
	Optional regular expression to filter from which UDS pools the teacher will be able to select when adding a Virtual PC activity	
UDS authenticator tag <small>virtualpc authsmallnameforactivity</small>	<input type="text" value="moodle"/>	Default: Empty
	UDS authenticator tag where to create UDS users just before GOING from Moodle to UDS	
Group name <small>virtualpc groupname</small>	<input type="text" value="moodle_group"/>	Default: Empty
	Name of the group in the UDS authenticator where the users will be created	



Publish UDS services in a Moodle course

Once the plugin has been successfully installed and configured, the next step is to publish it as an activity (course) and make it visible to students and faculty.

We create the course that we will use to assign UDS services and access it:

[Dashboard](#) / [Courses](#)

Search courses

Go



Click on "Add an activity or resource"

VC



[Dashboard](#) / [Courses](#) / [VC](#)

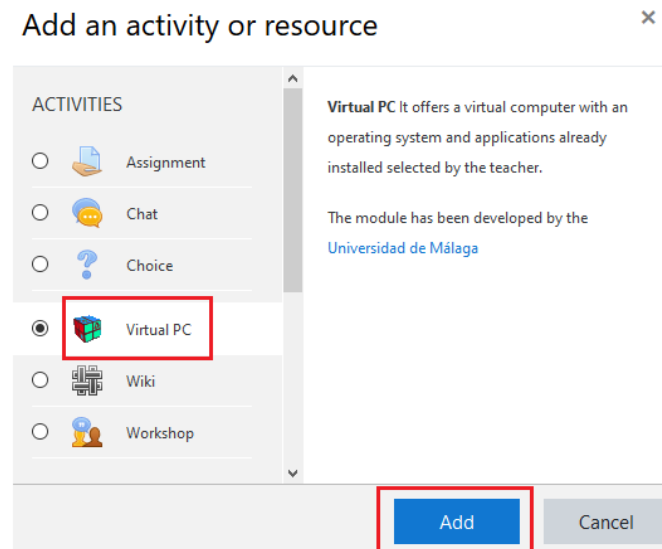


Edit 
Edit  

+ Add an activity or resource

+ Add topics

Select "Virtual PC" and add it.





Now we indicate a name to display the service and, if we need it, a description.

VC

[Dashboard](#) / [Courses](#) / [VC](#) / [General](#) / Adding a new Virtual PC

Adding a new Virtual PC [?](#)

General

Virtual PC name  

Windows 10

Description

Windows 10 Virtual Desktop






















Display description on course page [?](#)

Select the UDS service that we are going to assign to this resource:

▼ Virtual PC activity settings



Select the virtual PC type:

-  **Windows 10** - Maximum 5 users
-  **Windows Server 2019** - Maximum 4 users
-  **Windows 7** - Maximum 5 users
-  **Veyon teacher**
-  **xUbuntu18** - Maximum 4 users
-  **LibreWriter**
-  **LibreCalc**
-  **Console - Demo**
-  **Veyon Student** - Maximum 5 users
- Student**
-  **Ubuntu vAPPs** - Maximum 4 users
-  **Photoshop**
-  **AfterEffects**
-  **Spotify**
-  **Gimp**
-  **CentOS7_XFCE** - Maximum 5 users
-  **Chrome**
-  **VLC**
-  **AnyDesk**
-  **Paint**
-  **Notepad**
-  **Google Earth**






















The teacher can change the virtual PC selected

We must repeat this task until configuring all the necessary services:

VC



Dashboard / Courses / VC

	Edit
 Announcements 	Edit 
 Windows 10 	Edit <input checked="" type="checkbox"/>
 XFCE4 	Edit <input checked="" type="checkbox"/>
 LibreWriter 	Edit <input checked="" type="checkbox"/>
 Google Earth 	Edit <input checked="" type="checkbox"/>
 Photoshop 	Edit <input checked="" type="checkbox"/>
 Paint 	Edit <input checked="" type="checkbox"/>
 Windows 7 	Edit <input checked="" type="checkbox"/>
 Spotify 	Edit <input checked="" type="checkbox"/>
 Gimp 	Edit <input checked="" type="checkbox"/>

+ Add an activity or resource

+ Add topics

The next step would be to assign existing users in Moodle to the previously created course and with the UDS services configured:

VC

View Edit Enrolled users Delete Hide Backup Restore

Full name	VC
Short name	VC
ID number	
Category	Miscellaneous
Groupings	0
Groups	0
Role assignments	Student: 38
Enrolment methods	Manual enrolments
Format	Topics format
Sections	General
Modules used	Forum Virtual PC

Once we have assigned users, they will view the course and the services will appear:

VC ⚙️

[Dashboard](#) / [My courses](#) / VC

🗨️ Announcements

🖱️ Windows 10

🖱️ XFCE4

🖱️ LibreWriter

🖱️ Google Earth

🖱️ Photoshop

🖱️ Paint

🖱️ Windows 7

🖱️ Spotify

🖱️ Gimp

Your progress ?

When accessing the resource, we will click on "Access to Virtual PC" to start the service:

VC

[Dashboard](#) / [My courses](#) / [VC](#) / [General](#) / [Windows 10](#)

Virtual PC



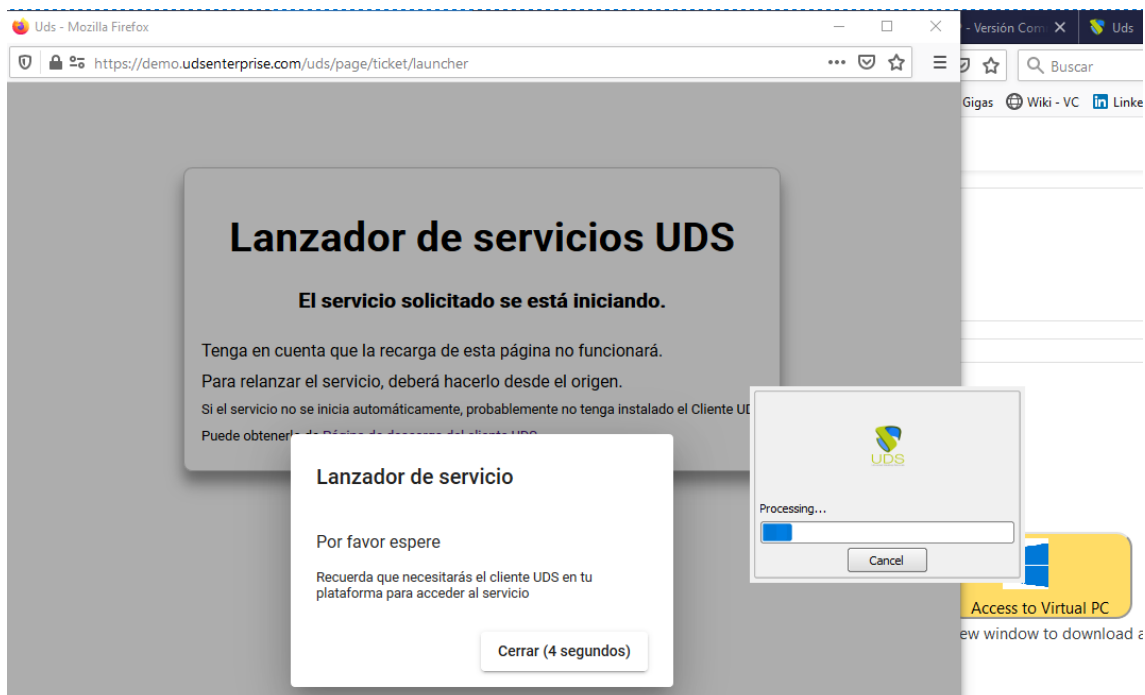
Windows 10



Access to Virtual PC

 After pressing the "Access to Virtual PC" button for the first time, the browser may show a new window to download a software needed to access the virtual PC. The download URL of the software is: [UDS Plugin download page](#)

Depending on the access mode configured in the service (Transport), we may need to install the UDS Client on the connection client computer (for connections via HTML5 it is not necessary to have the "UDS Client" component installed).



The screenshot shows a Mozilla Firefox browser window displaying the URL <https://demo.udsenderprise.com/uds/page/ticket/launcher>. The main content area features a grey box titled "Lanzador de servicios UDS" with the message "El servicio solicitado se está iniciando." Below this, there is a "Lanzador de servicio" dialog box with the text "Por favor espere" and "Recuerda que necesitarás el cliente UDS en tu plataforma para acceder al servicio", along with a "Cerrar (4 segundos)" button. A "Processing..." dialog box with a progress bar and a "Cancel" button is also visible. In the background, a yellow "Access to Virtual PC" button is partially visible.



About VirtualCable

[Virtual Cable](#) 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.**