



Installation of
UDS Enterprise
Virtual PC Plugin
for Moodle

www.udsenprise.com



Installation of UDS Enterprise 3.5 Virtual PC Plugin for Moodle

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Introduction

Moodle is a very popular online learning management platform that is used by teachers, 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 a private website to host their courses. Some of its features are detailed below:

- Customizable control panel
- User-friendly interface
- Multilingual support
- Course creation and management
- Calendars
- Detailed reports and generation of results
- Moodle is the first e-Learning platform with access to VDI and vApp thanks to the UDS Enterprise Virtual PC Plugin developed by the [University of Malaga](http://www.universityofmalaga.es) in collaboration with the UDS Enterprise team.

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

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

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

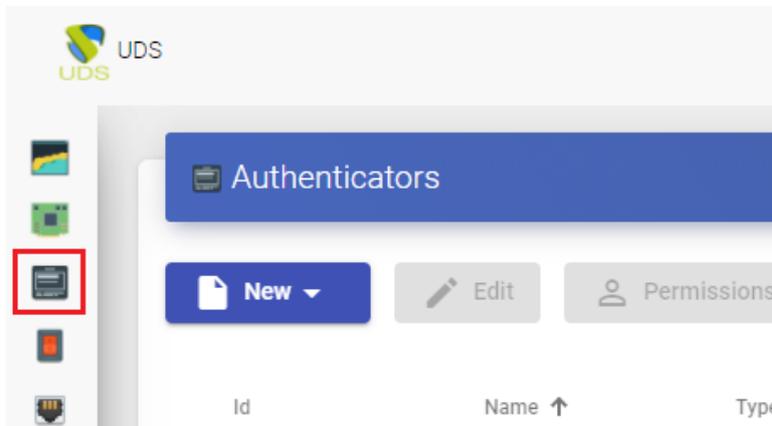


Installation and configuration of the Virtual PC Plugin

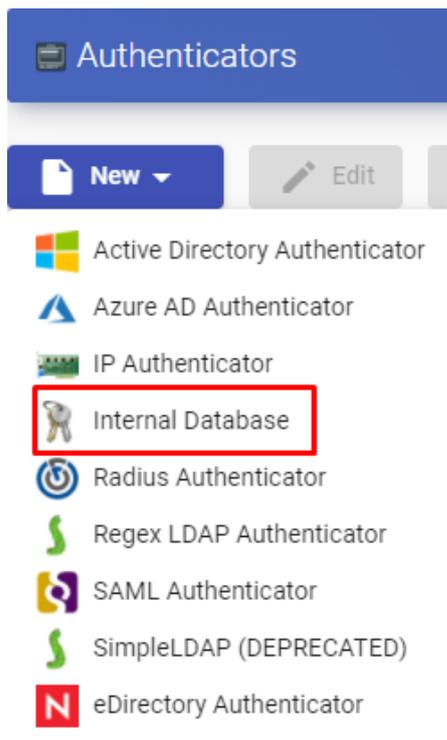
UDS Enterprise configuration

Before starting with the installation of the Virtual PC Plugin, it will be necessary to access the UDS administration and carry out the following tasks:

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



Create a new internal database:





Indicate an identifying name for the authenticator, a priority and a label. This tag works as direct access 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

test Discard & close Save

Once the authenticator is created, access it (double click or “**Detail**” button) to create a group and a user associated to 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... ▼

Cancel Ok



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

New user

User name

moodle

Real name

Comments

Administrative user for Moodle

State

Enabled

Role

Admin

Password

.....

Groups

moodle_group

Cancel

Ok

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. Download the Plugin

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**

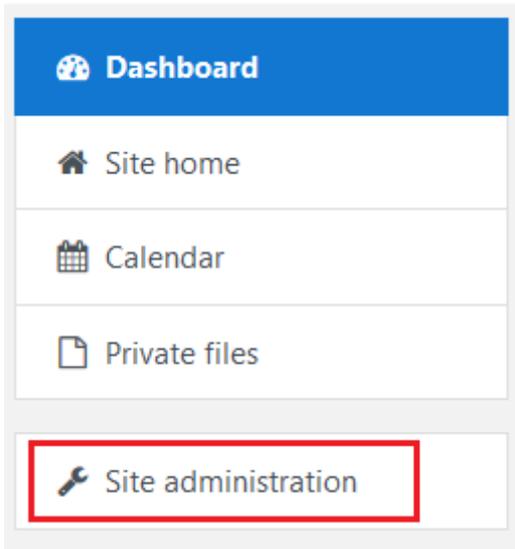
[Download](#)

[Learn more](#)

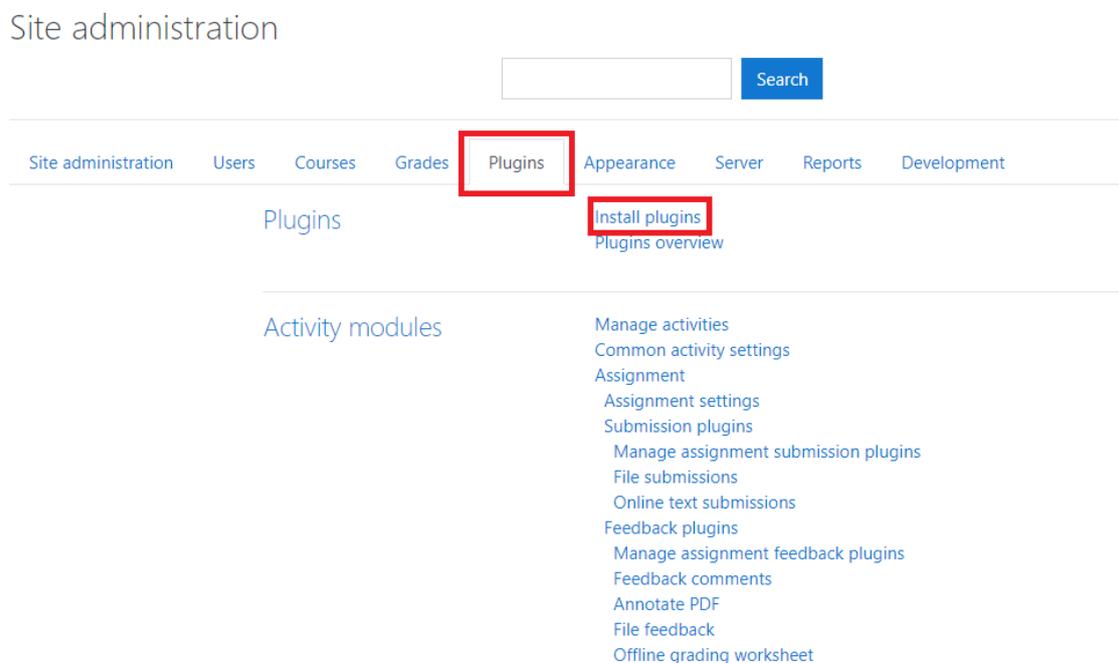


2. Plugin installation

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



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





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In the "Install plugin from ZIP file" section, click "Choose a file..." and select the downloaded file "mod_virtualpc_moodlexx_xxxx.zip". Then 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 successful, 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 configuration

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

- **UDS Server URL:** IP address or name of the UDS server. 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 (you can use the "moodle" user previously created).
- **UDS administrator user password:** Password of the user entered in the previous field.
- **Administrator user UDS authenticator tag:** Name of the authenticator tag to which the previous administrator user belongs (you can use the authenticator tag created earlier).
- **Pool filter regular expression:** It works 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.*** the services starting with "W" are filtered first.
- **UDS authenticator tag:** Authenticator tag that UDS will use to register users who access the Moodle environment (you can use the authenticator tag previously created).
- **Group name:** Name of the UDS user group where the users created by UDS will be assigned (you can use the "moodle_group" user group previously created).



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[Dashboard](#) / [Site administration](#) / [Plugins](#) / [Activity modules](#) / [Virtual PC](#)

Virtual PC

UDS server URL <small>virtualpc serverurl</small>	<input type="text" value="https://demo.udsenderprise.com"/>	Default: Empty
UDS server port number <small>virtualpc serverport</small>	<input type="text" value="0"/>	Default: Empty
UDS administrator user <small>virtualpc username</small>	<input type="text" value="moodle"/>	Default: Empty
UDS administrator user password <small>virtualpc password</small>	<input type="password" value="....."/>	
Administrator user UDS authenticator tag <small>virtualpc authsmallnameforadmin</small>	<input type="text" value="moodle"/>	Default: Empty
Pool filter regular expression <small>virtualpc filterpoolname</small>	<input type="text"/>	Default: Empty
UDS authenticator tag <small>virtualpc authsmallnameforactivity</small>	<input type="text" value="moodle"/>	Default: Empty
Group name <small>virtualpc groupname</small>	<input type="text" value="moodle_group"/>	Default: Empty

UDS server URL for REST requests (http[s]://hostname)

Port for REST requests

This module will use this UDS user to do REST requests to the UDS server. It must have administrator permissions.

UDS user password with administrator permissions

UDS authenticator tag to which the administrator user belongs

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 where to create UDS users just before GOING from Moodle to UDS

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 installed and correctly configured, the next step is to publish it as an activity (course) and make it visible to students and teaching staff.

Create the course that you will use to assign UDS services and access it:

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

Search courses

VC

Click on “**Add an activity or resource**”:

VC



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

Announcements

Edit

Add an activity or resource

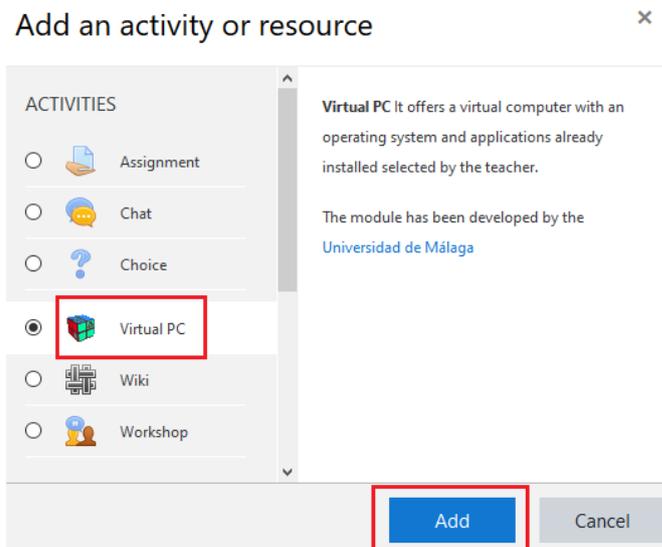
Add topics



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Select “Virtual PC” and add it.



Now enter a name to display the service and, if needed, a description.

VC

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

Adding a new Virtual PC

General

Virtual PC name ⓘ ⓘ

Description

Display description on course page ⓘ



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Select the UDS service that you 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**
 - xUbuntu 18** - 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

Repeat this task until you configure all the necessary services:

VC



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

	Edit	
+ Announcements	Edit	👤
+ Windows 10	Edit	☑
+ XFCE4	Edit	☑
+ LibreWriter	Edit	☑
+ Google Earth	Edit	☑
+ Photoshop	Edit	☑
+ Paint	Edit	☑
+ Windows 7	Edit	☑
+ Spotify	Edit	☑
+ Gimp	Edit	☑

+ Add an activity or resource

+ Add topics



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The next step would be to assign existing users in Moodle to the course previously created 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 you have assigned users, they will view the course and all the services:

VC 

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

Your progress 

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



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When accessing the resource, click on “**Access to Virtual PC**” to start the service:

VC

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

Virtual PC



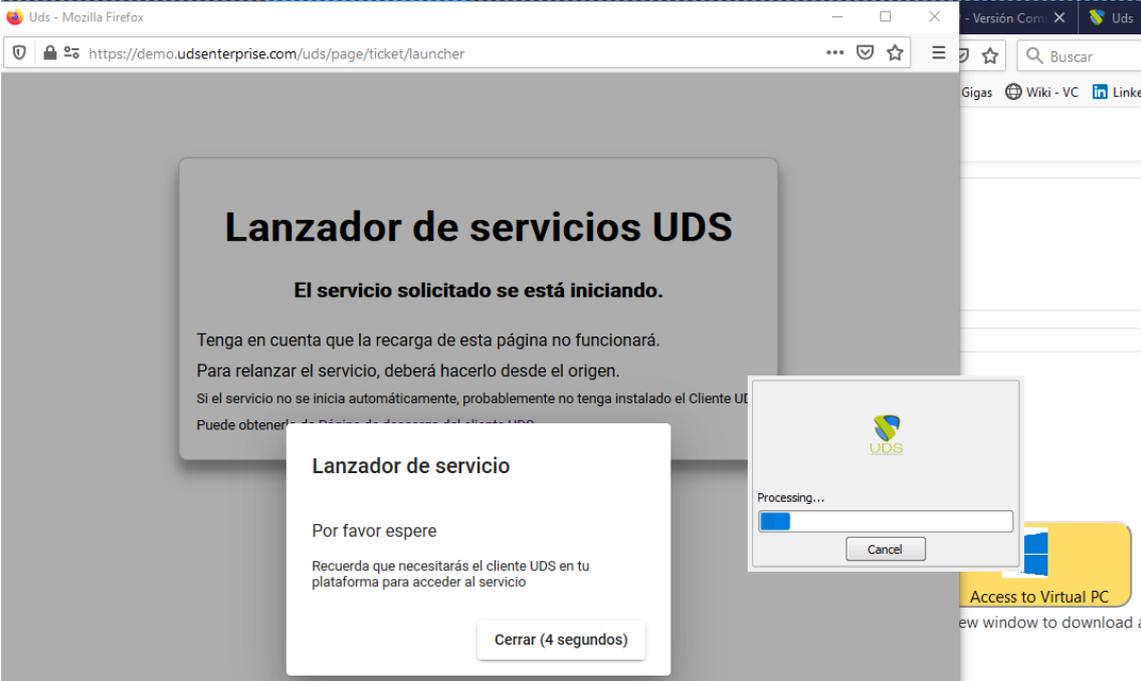
Windows 10



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), you 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 at the URL <https://demo.udsenderprise.com/uds/page/ticket/launcher>. The main content area displays a grey box titled "Lanzador de servicios UDS" with the message "El servicio solicitado se está iniciando." Below this, there is text explaining that the page refresh will not work and that the user must restart the service from the origin. A "Cerrar (4 segundos)" button is visible at the bottom of this box.

Overlaid on this are three modal dialogs:

- A white dialog titled "Lanzador de servicio" with the text "Por favor espere" and "Recuerda que necesitarás el cliente UDS en tu plataforma para acceder al servicio". It has a "Cerrar (4 segundos)" button.
- A grey dialog titled "Processing..." with a progress bar and a "Cancel" button.
- A yellow "Access to Virtual PC" button, which is partially obscured by the other dialogs.



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About Virtual Cable

Virtual Cable develops and markets UDS Enterprise through a subscription model per 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.