



# CloVER VTL Instructor's Guide



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# Introduction to the CloVER VTL Platform

CLOVER VTL is a SaaS product that offers cloud based virtual training labs seamlessly integrated into learning platforms. It enables learners and instructors to access virtual lab environments anywhere including virtual desktops and servers (Linux and Windows), Docker-based applications and virtual networks hosted by cloud infrastructures (OpenStack) and platforms (Kubernetes).

## Getting Started

### CloVER Gateway users

There are three types of users in CloVER: Administrator, Teacher and Student.

Administrator:

- Sets the Cloud platform parameters
- Creates users, images and groups
- Desktop monitoring
- Sets the LTI parameters

Teacher:

- Creates images
- Manages its course's groups
- Manages the desktops of its course's groups

Student:

- Manages its desktops

### Sign into CloVER

First sign into CloVER (as Instructor).



The screenshot shows the CloVER login page. At the top is the CloVER logo, which consists of a blue cloud icon with a network diagram inside, followed by the text 'CloVER'. Below the logo is a grey header bar with the text 'Sign into CloVER' in blue. Underneath the header is a light blue box containing the text 'Please enter Username and Password fields.' Below this box are two input fields: the first has a person icon and the second has a lock icon. At the bottom right of the form is a blue 'Login' button with a white arrow icon.

# CloVER-VTL Instructor's Guide

Once an Instructor is logged in, the following dashboard is displayed.



An Instructor can manage:


- the Images
- the Courses in which the Instructor is a member
- Its Desktops and those of the users that are members in its Course's groups



## Managing the Images

To manage the Images, choose the **Images** option.

Once you go to create a new Image (Create Image option), you can see all existing Images. The opened form includes the following fields:

- **Image name:** the name of your new image
- **Image source:**
  - From CloVER: Your images that you have already created
  - From Cloud: The Images in the Cloud having the RDP feature (including the word "RDP" in their names)
- **Image OS:** select the OS of your new image
- **Flavor:** select the resource flavor for the Virtual Machine (VM) that will be created from the selected Image. The flavor's resources are displayed when a flavor is selected.




**Teacher\_abc**
 Logout

Management

Images

+ Create Image

Image list

Courses
Desktops

Create Image

Image name:

Description:

Image source:

From CloVER

From Cloud

Image's os:

ubuntu-16.04-RDP


Flavor:



eg-120-ssd

VCPUs: 32 | RAM(MB): 120000 | Disque(Go): 800

Create

To display the characteristics of the images, choose the **Image list** option.




**Teacher\_abc**
 Logout

Management

Images

+ Create Image

Image list

Courses
Desktops

Image list

Actions for multiple selection

Image list

(1 of 1)
1
15

	Name	Description	Status	Flavor	Actions
<input type="checkbox"/>	ubuntu-16.04-RDP	ubuntu-16.04	Active	vps-ssd-1	
<input type="checkbox"/>	Windows-Server-2012-r2-RDP	win7	Active	win-hg-7-ssd	


(1 of 1)
1
15



In total there are 2 images.

## Managing the Courses

A Course's group is a set of users sharing one or several Images.

To manage course group images, choose the **Courses > Manage Courses** option. You can add/delete Images to/from a course group. You can also display the course group members.




**Teacher\_abc**
 Logout

Management

Images

Courses

Manage Courses

Desktops

Manage Courses

(1 of 1)
1
10

Course Name	Unit Name	Images	Actions
course-v1.test+test+test	TP1 java	ubuntu-16.04-RDP	
course-v1.test+test+test	TP2 java	Windows-Server-2012-r2-RDP	

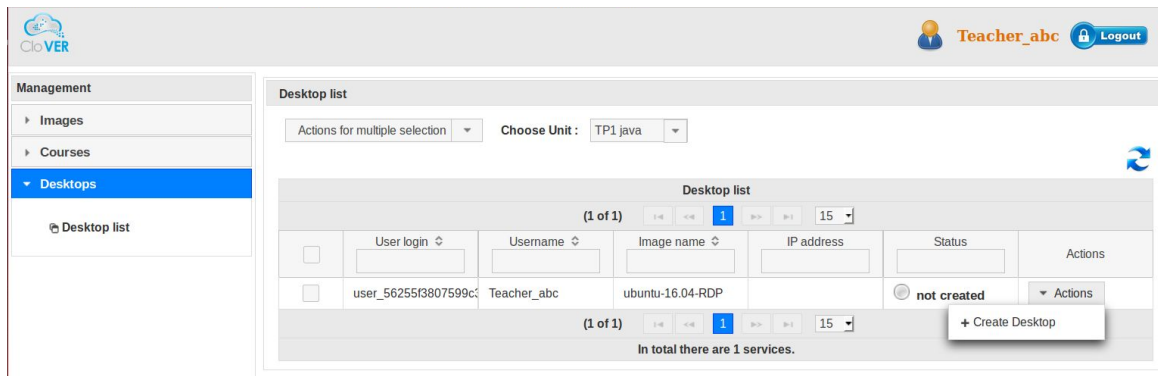
(1 of 1)
1
10

In total there are 2 groups.

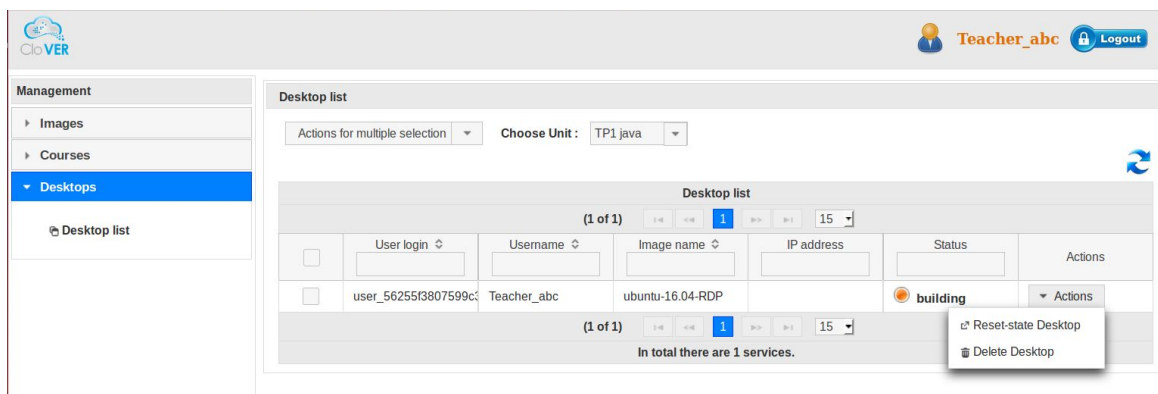
# Managing the Desktops

To manage desktops, choose the **Desktops > Desktop list** option.

You can display and manage the list of Desktops (active and not yet active) for a given Unit.



You can delete a created Desktop or reset its state while its is not yet active.



You can manage an active Desktop (stop, rebuild, reboot, reset-state, delete) or display it in a new window in order to work in.

