



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 user 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.

To create a new Image, click the **Images > Create Image** link to open the Create Image dialog. The opened form includes the following fields:

- **Image name:** the name of your new image
- **Image source:** select the Image source from existing Images.
 - in CloVER: Your images that you have already created
 - in the 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.

CloVER

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:

Flavor:

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

Create

Once you click on the Create button, the following dialog appears, along with a Display Desktop button (to work on it) and a Confirm button.

CloVER

Management

- Settings
- Images
 - + Create Image
 - Image list
- Courses
- Users
- Desktops
- Monitoring
- LTI administration

Created Snapshot

Are you sure to confirm image testLTI ?

Image name: testLTI

Description:

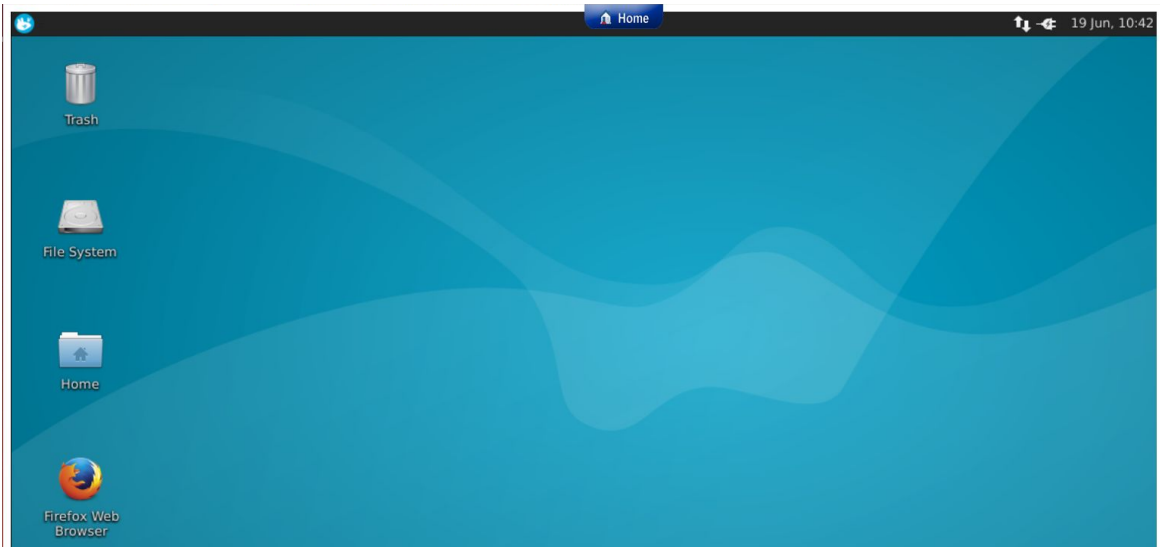
Flavor: vps-ssd-1 {VCPUs: 1 | RAM(MB): 2000 | Disque(Go): 10}

IP address: 167.114.239.105

Display Desktop:

Confirm

The following figure shows an example of a window opened when you click **Display Desktop**. To go back to the CloVER interface, click **Home**.



To display the characteristics of the Images, choose the **Images > Image list** option. You can also display all information about an Image or remove it.

Management

- Settings
- Images**
 - + Create Image
 - Image list
- Courses
- Users
- Desktops
- Monitoring
- LTI administration

Image list

Actions for multiple selection

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

(1 of 1) In total there are 2 images.

You can also confirm an Image (not yet confirmed).

Management

- Settings
- Images**
 - + Create Image
 - Image list
- Courses
- Users
- Desktops
- Monitoring
- LTI administration

Image list

Actions for multiple selection

Confirm Snapshot

Are you sure to confirm image testLTI ?

Image name: testLTI

Description: vps-ssd-1 (VCPUs: 1 | RAM(MB): 2000 | Disque(Go): 10)

IP address: 167.114.239.105

Display Desktop: [Display Desktop](#)

Confirm

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.

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.

Management

- Images
- Courses
- Desktops**
 - Desktop list

Desktop list

Actions for multiple selection Choose Unit : TP1 java

Desktop list

(1 of 1) 1 15

	User login	Username	Image name	IP address	Status	Actions
<input type="checkbox"/>	user_56255f3807599c	Teacher_abc	ubuntu-16.04-RDP		not created	

(1 of 1) 1 15

In total there are 1 services.

+ Create Desktop

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

Management

- Images
- Courses
- Desktops**
 - Desktop list

Desktop list

Actions for multiple selection Choose Unit : TP1 java

Desktop list

(1 of 1) 1 15

	User login	Username	Image name	IP address	Status	Actions
<input type="checkbox"/>	user_56255f3807599c	Teacher_abc	ubuntu-16.04-RDP		building	

(1 of 1) 1 15

In total there are 1 services.

Reset-state Desktop
Delete Desktop

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

The screenshot displays the CloVER management interface. On the left, a sidebar under 'Management' includes 'Images', 'Courses', and 'Desktops' (selected). Below 'Desktops' is a link to 'Desktop list'. The main area is titled 'Desktop list' and features a table with columns: 'User login', 'Username', 'Image name', 'IP address', 'Status', and 'Actions'. A single desktop is listed with the status 'active'. A context menu is open over the 'Actions' column, listing: 'Stop Desktop', 'Rebuild Desktop', 'Reboot Desktop', 'Reset-state Desktop', 'Delete Desktop', 'Share Desktop', and 'Display Desktop'. The interface also shows pagination controls and a 'Choose Unit' dropdown set to 'TP1 java'.

	User login	Username	Image name	IP address	Status	Actions
<input type="checkbox"/>	user_56255f3807599c	Teacher_abc	ubuntu-16.04-RDP	167.114.235.150	active	Actions

- Stop Desktop
- Rebuild Desktop
- Reboot Desktop
- Reset-state Desktop
- Delete Desktop
- Share Desktop
- Display Desktop