

# Configuring SlapOS Client

by the [SlapOS Team](#).

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## What is SlapOS Client?

SlapOS client is a set of tools allowing you to manage your SlapOS Nodes, your instances and your SlapOS Master account. It is bundled with the standard SlapOS Node installation.

It will allow you to request and manage your instances, to install Software Release on your nodes, as if you were on slapos.org, but with all the power of terminal.

## Step 0: requirements

- A GNU/Linux Server
- [slapos-node package](#) installed on the machine. No need for actual node configuration, only the package itself (containing the binaries) are required.
- A SlapOS Account
- **NO ROOT ACCOUNT IS NEEDED. Don't use root, except if you have a specific reason to do so.**

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To follow this tutorial, you will need a server with a GNU/Linux distribution, slapos-node package installed and slapos.org account.

## Step 1: Register and obtain a Credential security Token

Go to slapos.org (or any other SlapOS Master), register if not already done, go to My Account and click on **Generate a Credential Security Token**:

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## Step 1.5: Save the New Token

- As soon as you click on the button a new token will be generated. Save this token for future use on this tutorial.

## Step 2: Run slapos configure client

Run slapos command below, to create the configuration files, when asked please input the Token Saved on Step above.

- slapos configure client

This command will generate the following files:

- `$HOME/.slapos/slapos-client.cfg`
- `$HOME/.slapos/certificate` : Your user SSL Certificate
- `$HOME/.slapos/key`: Your user SSL Private Key

You can now, Edit [\\$HOME/.slapos/slapos-client.cfg](#) to include some aliases:

```
alias =  
webrunner https://lab.nexedi.com/nexedi/slapos/raw/1.0.49/software/slaprunner/software.cfg
```

## Check certificates

In order to check if certificate is okay (good location, rights, content...), you can run those commands:

To check validity of certificate:

```
$ /opt/slapos/parts/openssl/bin/openssl x509 -noout -in $HOME/.slapos/client.crt
```

To check the key:

```
$ /opt/slapos/parts/openssl/bin/openssl rsa -noout -in $HOME/.slapos/client.key -check
```

If you see no output or if command states it's okay, well, everything is okay.

## Using slapos client commands

### slapos supply

Request installation of a software on a node:

- `slapos supply webrunner COMP-XXXX`

Remove a software from a node:

- `slapos remove webrunner COMP-XXXX`

Note: Replace COMP-XXXX by the computer number of where you wanna gonna to supply the software.

### slapos request

Request a new or existing instance of wordpress named "mywordpress":

- `slapos request mywebrunner webrunner`

You can't, as of yet, destroy an instance through the command-line.

### slapos console

Open the SlapOS console:

- `slapos console`

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slapconsole is for quite advanced usages. It is basically a Python prompt with all slap modules injected and ready to be used.

We will learn here how to use slapconsole.

### Global Variables

- `request`
- `supply`
- `slap`
  
- `software_list`
- `kvm`
- `mysql-5.1`
- ...

Official doc available [here](#).

#### ▼ Details

### Explanations

- `request` is a method which can be used to create new instances of any resource / software on a computer
- `supply` is a method to define that a given computer can create instances of a given resource
- `slap` is a configured instance of the Slap class of the API. It is used for advanced usages.
- `software_list` is a dictionary containing all the officially supported software releases by Vifib.
- All the officially supported software releases are also available as global variable : `kvm`, `mysql-5.1`, `joomla`, etc.