

# Web Hosting Server using Ubuntu and Cyberpanel





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### What is CyberPanel?

Cyberpanel is a control panel of OpenLiteSpeed where you can manage your websites, install WordPress, and much more. In fact, you do not need CyberPanel in order to Install WordPress on an OpenLiteSpeed web server (but with Cyberpanel you can install WordPress in a single click) With CyberPanel you can manage SSL, create more websites, change PHP version up to 8.0, access files via builtin File manager, and much more, so I recommend CyberPanel.





### What is OpenLitespeed?

One of the fastest webserver solutions out there is Litespeed. You shouldn't be confused between OpenLiteSpeed and LiteSpeed; both are the same and share the same functionalities and features. The term open stands for open-source and free. You can install OpenLiteSpeed on any VPS server running on fresh Ubuntu 20.04 or CentOS 8.x. VPS will be now managed by Cyberpanel, a web interface to control OpenLiteSpeed.





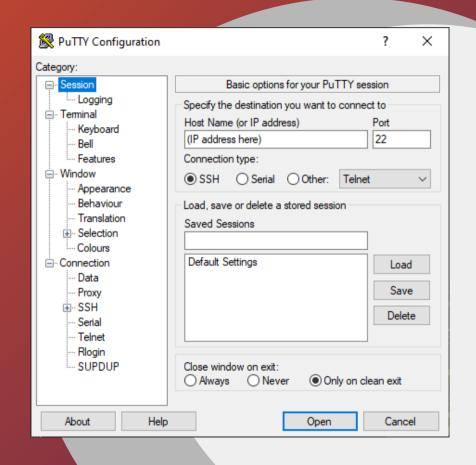
### What is LSCache

LSCache is a built-in Openlitespeed cache solution. The plugin also works with Apache, Nginx server but there are features that only work on OpenLiteSpeed server.



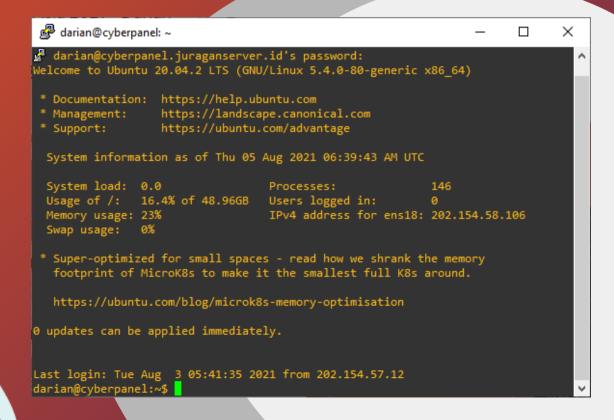
Open an SSH connection using **PUTTY** or similar software and run. Type the **IP address** and select **port 22**. Now click on open. If you don't want to use any software, open Command Prompt in Windows and type ssh root@serverIP the interface is identical in both CMD and Putty.

Tip: you can use Windows's Command Prompt to access your server, **use ssh root@IP\_Address** 





The terminal will show you important links and a few other things you might need.





Since we have installed CyberPanel, the page will display the version information and command which you can use to show the CyberPanel password. But if you installed plain Ubuntu you can follow the given instruction.

Type the following command to install CyberPanel.

sh <(curl https://cyberpanel.net/install.sh || wget -O https://cyberpanel.net/install.sh)</pre>



Now just follow the on-screen options. Just to cut out steps, use the following to install CyberPanel. The new version may have slightly different options.

Select these options 1 > 1 > r > y - y - Yes | remote database: N

The process took 6 minutes to complete. Once done, the end result will have login details in this format, copy this with CTRL+C. If you plan to leave the SSH screen, go with the default password (1234567) option. Of course, you're going to change it later.

Visit: https://(YOUR\_SERVER\_IP):8090

Panel username: example
Panel password: example
Mysql username: example
Mysql password: example



OPTIONAL 2.1. Update
CyberPanel and OpenLiteSpeed

Very Important: It will install the latest Cyberpanel 2.x with stable OpenLiteSpeed version 1.6.x, you can upgrade both with following commands, which is optional.





## OPTIONAL 2.1. Update CyberPanel and OpenLiteSpeed

#### Update CyberPanel

Open an SSH connection and type. Use PUTTY to open SSH connection.

sh <(curl

https://raw.githubusercontent.com/usmannasir/cyberpanel/stable/preU

pgrade.sh || wget -O -

https://raw.githubusercontent.com/usmannasir/cyberpanel/stable/preU

pgrade.sh)



### OPTIONAL 2.1. Update CyberPanel and OpenLiteSpeed

Update OpenLiteSpeed, open an SSH connection and type.

OpenLiteSpeed

apt-get update && apt-get -y upgrade
It will update OpenLiteSpeed to the latest stable version.

OPTIONAL However, if you're willing to test out the cutting-edge OLS version here you go.

wget <a href="https://openlitespeed.org/packages/openlitespeed-1.6.21.tgz">https://openlitespeed.org/packages/openlitespeed-1.6.21.tgz</a>
cd openlitespeed

/install.sh

This step is optional to install the latest version of OpenLiteSpeed, remember there is a diffrence between latest and stable



Before you install WordPress make sure to set up your DNS records. Point your Domain A and CNAME records to DigitalOcean or another server's IP address.

For this, you have to create a website by logging in with CyberPanel. You have to follow the given steps.

1. Access CyberPanel by typing your IP address followed by :8090 in the browser. it'll give a certificate error, click on Advanced and click proceed.

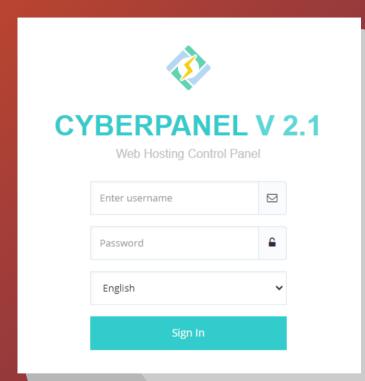
http://(IP address):8090



2. Enter the username (usually admin) and password which you got earlier.

You can type the following command to get the password to access CyberPanel. (Open SSH connection and type this command)

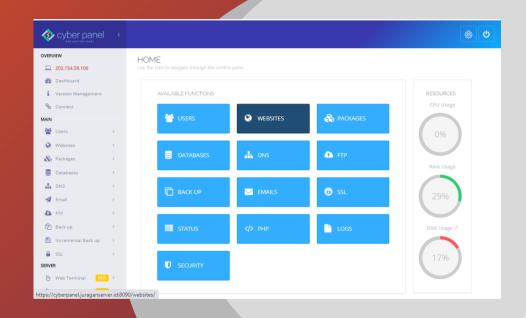
sudo cat .litespeed\_password



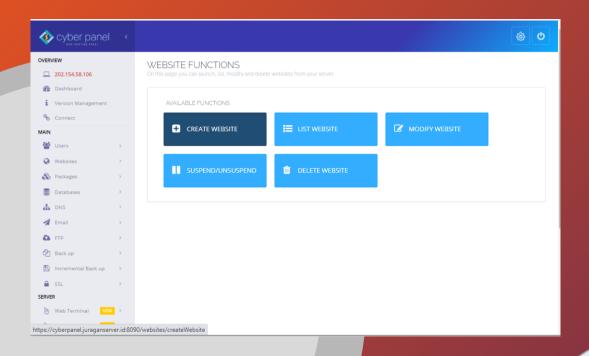


#### 3. Go to website

In order to install a blog, first, we are going to create a Website entry in Cyberpanel. This is not a WordPress installation, the WordPress installation will take place after website entry. Login yo CyberPanel and click on the Website button.







Click Website, go to Create Website.



Select **Default** package and make sure to modify the package to let your WordPress site use maximum resources.

Enter the details like your domain name, email, and PHP version. You need to enter the following details.

Select owner: Admin

Domain name: example.com

Email: Your email address will go here

Php: PHP 8.0

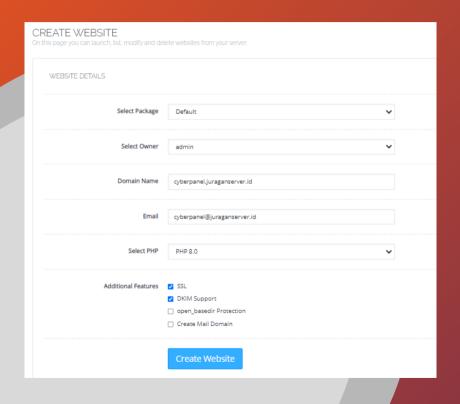
/\* Additional features

SSL: If you plan to enable let's encrypt the free SSL tick option, we can always

apply SSL anytime later.

DKIM: Helpful in email security.





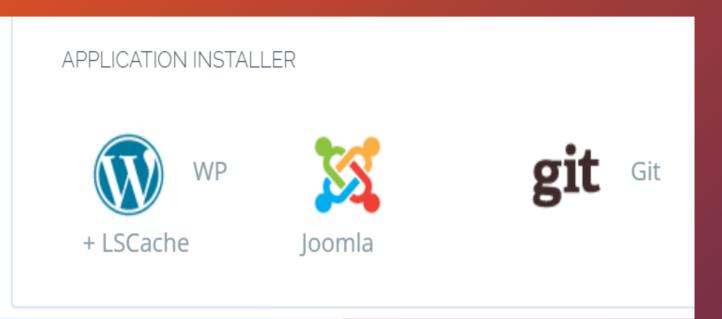
When you're ready to go, click Create Website.



The motive here is installing
WordPress which is not really hard
to do since we have one-click
installer here (which automates the
user and database creation on
MySQL).

CyberPanel > List Website > Example.com > Manage > Application Installer > WP + LSCache







The WordPress installer also can be accessed from this link. Make sure to fill your IP Address and domain name, (Domain name should be the same which you entered earlier during Website creation)

:8090/websites/exmaple.com/wordpressInstall

Fill the details.

**Blog Title:** 

Login User:

Login Password:

Email:

Path: Leave it empty or your choice



As soon as you hit the "Install now", WordPress will be accessible to that domain. It's an instant process so you should not be waiting for anything now.

You access the blog with domain.com/wp-login.php

INSTALL WORDPRESS Install WordPress with LSCache.	
cyberpanel.juraganserver.id - Installation Details - Stress Test	
Blog Title	Juragan Server
Login User	admin
Login Password	
Email	cyberpanel@juraganserver.id
Path	Leave empty to install in website home directory. (Without pr
	Install Now



### 5. Enabling LetsEncrypt SSL for Domain and CyberPanel

Point your Domain to the Server IP address. Ensure DNS is correctly configured using this dns checker <a href="https://dnschecker.org/">https://dnschecker.org/</a>

 Login to the CyberPanel dashboard, and from the side panel go to following direction.

Go to SSL → Manage SSL → Select website from dropdown → Click on Issus SSL

https://example.com:8090



### 6. Best LSCache Plugin Settings

The LSCache plugin is already installed, you're ready to customize it further.

First, go to LSCache settings.

Enable Advanced Settings, and enabled the following settings.

- [5 Optimize] CSS/JS minify combine http/2 PUSH = ON
- [6 Tuning] Remove Query Strings, Remove WordPress Emoji
- [CDN 8]: Load Jquery Remotely > Google / CDNJS
- A wonderful article covering entire settings.





### 7. Restore old WordPress from old host

This section is not beginner-friendly as it requires advanced knowledge of SFTP software, archiving and extracting WordPress uploads directory from old to a new server.

If you plan to move to CyberPanel from an older WordPress installation, simply create Posts backup from Tools > Backup. Make a zip file of your uploads via SFTP or something. Move that ZIP file to CyberPanel and extract. Now restore the old WordPress backup.

The default restore file upload limit is 2MB, but you can change that from Cyberpanel dashboard.

Mange PHP  $\rightarrow$  BASIC  $\rightarrow$  8.0  $\rightarrow$  post\_max\_size = 10 MB to upload backup files.

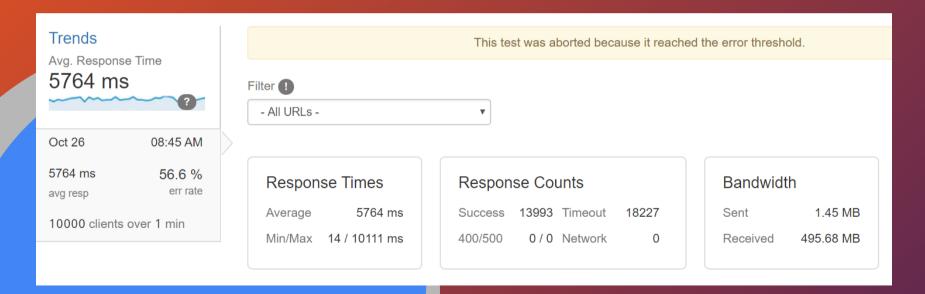
### 8. Benchmark CyberPanel

IIhIICOn ASIA

Test #1. 10,000 Client per second on the homepage

The avg time was 100ms.

Success: 13,9993 It was able to sustain 20,000 Client/second for the first 10 seconds.



### 8. Benchmark CyberPanel

ubuCOn ASIA

Test #2. 10,000 Total Client on Post page

The Sucess rate was 100% with no timeout, I ran the test for 20 seconds.

The avg time was 13 ms for the initial seconds and later goes to 7 ms!

So, unless you're getting more than 10000 hits per second on your WordPress site, the \$5 Droplet with CyberPanel will take care of that.



### **THANK YOU!**

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