

# Web Server - Debian Bullseye 11.4 (VPS)

- I originally switched my VPS from a provider in Thailand to a VPS provided by [Server4you](#) 24<sup>th</sup> September 2021, but they announced to discontinue offering VPS in 2022.
- I switched 27<sup>th</sup> July 2022 to [Contabo](#) which is a German company running servers in all parts of the world. I chose server location Düsseldorf/Germany and Debian 11.4 as OS.

## VPS specification

- 4 vCPU
- 8 GB RAM
- 200 GB SSD
- 32 TB outgoing traffic / month
- Debian 11.4
- SSH and VNC access
- 3 month is 13.72 Euro
- My VPS was ready within 5 minutes after order placement

## Installation

- Login to the server via SSH as root
- Install sudo, create the main user, and add him to the sudoers group

```
# apt install sudo
# adduser <user>
# vi /etc/group (add <user> to line "sudo:x:27:<user>")
```

- change the machine name:

```
sudo edit /etc/hostname
sudo edit /etc/hosts
```

- enable *force\_color\_prompt=yes* in file *~/.bashrc* and */root/.bashrc*

## Security

- Configure [SSH Access](#)
- Install [UFW Firewall](#)
- Disable root login by changing file */etc/passwd* from line 1 to line 2

```
root:x:0:0:root:/root:/bin/bash
root:x:0:0:root:/root:/sbin/nologin
```

## Apache 2.4 & PHP 8.1 with SSL

- Install Apache

```
$ sudo apt update
$ sudo apt install apache2
```

- Install PHP - [How To Install PHP \(8.1, 7.4 & 5.6\) on Debian 11](#)

```
$ sudo apt install software-properties-common ca-certificates lsb-release apt-transport-https gnupg
$ sudo sh -c 'echo "deb https://packages.sury.org/php/ $(lsb_release -sc) main" > /etc/apt/sources.list.d/php.list'
$ wget -qO - https://packages.sury.org/php/apt.gpg | sudo apt-key add -
$ sudo apt update
$ sudo apt install php8.1 php8.1-mysql php8.1-sqlite3
```

- Enable required modules

```
$ sudo a2enmod rewrite
$ sudo a2enmod ssl
```

- Setup your virtual hosts
- Create sub folders in /var/log/apache2 if you setup log files for the virtual hosts in sub folders
- Install [Let's Encrypt Certbot](#)

## ProFTP Server

- Install [ProFTP Server](#)

## BackupPC

- Setup [Configuration on Hosts for BackupPC](#)

## Crontab

- Root

```
$ sudo crontab -e
35 3 * * 6 certbot renew && /etc/init.d/apache2 restart
```

## Other apps

## Install

- ```
$ sudo apt update
```

```
$ sudo apt install vim
```

```
$ sudo apt install zip
```

```
$ sudo apt install rename
```

```
$ sudo apt install rsync
```

## Config

- Change visudo editor

```
$ sudo update-alternatives --config editor
```

From:

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