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Functional documentation

« lamp-wp.py »

Modules

import os : **Module Shell**
import time : **Module Time**

Variables

• **wpdirname = raw_input ("|1| Choose a name for the Wordpress Directory : ")**

➔ Setting the Wordpress directory name

• **wpdirname1 = 'mv wordpress ' + '/var/www/' + wpdirname**

➔ Move uncompressed Wordpress archive to /var/www/

• **chwpdir = 'chmod -R 755 /var/www/' + wpdirname + ' && chown -R www-data:www-data /var/www/' + wpdirname**

➔ Apply rights to Wordpress directory

• **a2dir = "sed -i 's/html/" + wpdirname + "/g' /etc/apache2/sites-enabled/000-default.conf"**

➔ Replace default DocumentRoot in apache2.conf

• **vhconfname = wpdirname + ".conf"**

➔ Set .conf for virtualhost

• **vhconfcp = 'cp virtualhost.conf /etc/apache2/sites-available/' + vhconfname**

➔ Copy & Rename virtualhost.conf in project to apache2

• **servername = raw_input ("|2| Specify the domain name for the Wordpress website : ")**

➔ Setting the server domain name

• **vhservername = "sed -i 's/wp.default/" + servername + "/g' /etc/apache2/sites-available/" + vhconfname**

➔ Set server name in virtualhost

• **vhdocroot = "sed -i 's/wpdefault/" + wpdirname + "/g' /etc/apache2/sites-available/" + vhconfname**

➔ Set DocumentRoot in virtualhost

• **hosts = "sed -i '2i\\127.0.1.1   " + servername + " \n' /etc/hosts"**

➔ Add Servername in /etc/hosts

- **hostname = "sed -i 's/.*/" + servername + "/g' /etc/hostname"**

  ➔ Change Server hostname in /etc/hostname

a2enre = 'a2enmod rewrite && a2ensite ' + vhconfname + ' && systemctl restart apache2'

  ➔ Enable Apache2 Rewrite module & Enable virtualhost & Restart apache2

- **dbname = raw_input ("|3| Choose a name for the Wordpress Database : ")**

  ➔ Setting Wordpress Database Name

- **dbname2 = "mysql -u root -e " + '"create database ' + dbname + '"'**

  ➔ Create Wordpress Database

- **dbusername = raw_input ("|4| Choose a name for the Database User : ")**

  ➔ Setting Database User

- **dbpassword = raw_input ("|5| Choose a password for the Database User : ")**

  ➔ Setting Database Password

- **dbuser = "mysql -u root -e " + '"grant all privileges on *.* to ' + dbusername + '@localhost' + " identified by " + "'" + dbpassword + "'" + '"'**

  ➔ Create Database User & Grant privileges

- **dbconn = "mv /var/www/" + wpdirname + "/wp-config-sample.php /var/www/" + wpdirname + "/wp-config.php"**

  ➔ Create Wordpress Database configuration file

- **dbconn2 = "sed -i 's/votre_nom_de_bdd/" + dbname + "/g' /var/www/" + wpdirname + "/wp-config.php"**

  ➔ Change Database name in config file

- **dbconn3 = "sed -i 's/votre_utilisateur_de_bdd/" + dbusername + "/g' /var/www/" + wpdirname + "/wp-config.php"**

  ➔ Change Database User in config file

- **dbconn4 = "sed -i 's/votre_mdp_de_bdd/" + dbpassword + "/g' /var/www/" + wpdirname + "/wp-config.php"**

  ➔ Change Password User in config file

Functions (without variables)

- **os.system("dpkg-reconfigure tzdata")**
  - ➔ Setting TimeZone
- **os.system('apt install apache2 -y')**
  - ➔ Install apache2 package
- **os.system('apt install mariadb-server -y')**
  - ➔ Install mariadb-server package
- **os.system('apt install php7.3 php7.3-mysql -y')**
  - ➔ Install php7.3 & php7.3-mysql packages
- **os.system('apt install wget -y')**
  - ➔ Install wget package
- **os.system("mysql_secure_installation")**
  - ➔ Execute securing procedure for MySQL
- **os.system('wget https://wordpress.org/latest.tar.gz')**
  - ➔ Download official last wordpress archive
- **os.system ('tar xvf latest.tar.gz')**
  - ➔ Uncompress wordpress archive
- **os.system('rm -r /var/www/html')**
  - ➔ Remove html directory in /var/www
- **os.system("systemctl restart mariadb")**
  - ➔ Restart MariaDB Server
- **os.system("systemctl reboot")**
  - ➔ Reboot Server

« letsencrypt.py »

Check :

https://certbot.eff.org/lets-encrypt/debianbuster-apache