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**Title: Setting up a WordPress Server**

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**OS: Ubuntu 16.10**

**Part 1:**

* Get the latest version of Virtual-box
* Create Two vms one master1, the other master2.
* Can be 10 GB in storage, and 2000 MB in RAM.
* Go to settings->General->Advanced
  + And change the Shared Clipboard to: Bidirectional
  + And change Drag’n’Drop to: Bidirectional
* Go to settings->System
  + Uncheck the floppy and move it down below hard disk.
* Go to settings->System->Processor
  + Make sure that the Enable PAE/NX is unchecked.
* Go to settings->Storage
  + Click the cd under Controller: IDE, and on the far right click the other cd and pick your virtual optical disk drive. This is where you can add your OS image.

**Part 2:**

* Go ahead and click the start button for both vms.
* Go through the basic install of Ubuntu and when it comes time to restart the OS, just click the X at the very top right and hit “Power off the machine”, not “Save the Machine State!”
* Go to Settings->System
  + Uncheck the Optical and move it below the hard disk like we did with the floppy in the first part.
* Go to Settings->Network->Adapter 2
  + Check the “Enable Network Adapter”
  + Click on Attached to: (scroll down to “Host-only Adapter”).
  + Click on the “Advanced”, very bottom, click on Promiscuous Mode: (scroll down to “Allow All”.
  + Hit OK.
  + Do this for both vms.
* Start the vms back up.

**Part 3:**

* Type: sudo apt-get install apache2
* Type: sudo apt-get install mysql-client mysql-server
  + You will have to enter a password for mysql
* Type: sudo apt-get install phpmyadmin
  + Select Apache2
  + Hit yes
  + Give a password for your database
* Type: sudo mysql\_secure\_installation
* Type: sudo apt-get install php7.0 php7.0-mysql libapache2-mod-php7.0 php7.0-cli php7.0-cgi php7.0-gd
* Type: sudo ufw stop
* Type: sudo ufw disable
* Type: sudo systemctl start apache2.service
* Type sudo systemctl enable apache2.service
* Type: sudo nano /etc/apache2/mods-enable/dir.conf
  + Edit the DirectoryIndex and put index.php first of the list (comma seperated string)
* Type: sudo systemctl restart apache2.service
* Type: sudo nano /etc/php/7.0/apache2
  + Edit the diable\_functions, and put phpinfo.
* Type: sudo systemctl restart apache2.service
* Type: cd /home/username/Downloads
* Type: wget -c <http://wordpress.org/latest.tar.gz>
* Type: tar -xzvf latest.tar.gz
* Type: sudo rsync -av wordpress/\* /var/www/html/
* Type: sudo chown -R www-data:www-data /var/www/html/
* Type: sudo chmod -R 755 /var/www/html/
* Type: mysql -u root -p
  + mysql> CREATE DATABASE wp\_myblog;
  + mysql> GRANT ALL PRIVILEGES ON wp\_myblog.\* TO 'your\_username\_here'@'localhost' identified by 'your\_chosen\_password\_here';
  + mysql> FLUSH PRIVILEGES;
  + mysql> EXIT;
* Type: cd /var/www/html
* Type: sudo mv wp-config-sample.php wp-config.php
* Type: sudo nano wp-config.php

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* + Example
  + // \*\* MySQL settings - You can get this info from your web host \*\* //
  + /\*\* The name of the database for WordPress \*/
  + define('DB\_NAME', 'database\_name\_here');
  + /\*\* MySQL database username \*/
  + define('DB\_USER', 'username\_here');
  + /\*\* MySQL database password \*/
  + define('DB\_PASSWORD', 'password\_here');
  + /\*\* MySQL hostname \*/
  + define('DB\_HOST', 'localhost');
  + /\*\* Database Charset to use in creating database tables. \*/
  + define('DB\_CHARSET', 'utf8');
  + /\*\* The Database Collate type. Don't change this if in doubt. \*/
  + define('DB\_COLLATE', '');
* Type: sudo systemctl restart apache2.service
* Type: sudo systemctl restart mysql.service
* sudo service networking restart
* sudo nano /etc/apache2/apache2.conf
  + Put this at the end of the file. Include /etc/phpmyadmin/apache.conf
* Type: reboot
* Go to your sight now

**Other:**

* By now you should be able to log into your phpmyadmin with either your root account, or a user that they set you up with. Remember that phpmyadmin is just an interface for mysql.
* Here are some commands for the mysql database.
  + SHOW VARIABLES LIKE 'validate\_password%';
  + DROP DATABASE tutorial\_database;
  + SHOW DATABASES;