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|  | INSTALL LAMP STACK ON AWS - UBUNTU 18https://www.youtube.com/watch?v=rySsp2dZvXo |
|  | Step 1 — Installing Apache and Updating the Firewall |
|  |  |
|  | sudo apt update |
|  | sudo apt upgrade |
|  | sudo apt install apache2 |
|  |  |
|  | sudo ufw app list |
|  |  |
|  | sudo ufw app info "Apache Full" |
|  |  |
|  | sudo ufw allow in "Apache Full" |
|  |  |
|  | APACHE INSTALLED SUCCESFULLY TILL HERE, YOU CAN CHECK BY ENTERING YOUR PUBLIC IP OR PUBLICK DNS ADDRESS - http://your\_server\_ip |
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|  | Step 2 — Installing MySQL |
|  |  |
|  | sudo apt install mysql-server |
|  | sudo mysql\_secure\_installation |
|  | sudo mysql |
|  |   |
|  | SELECT user,authentication\_string,plugin,host FROM mysql.user; |
|  |   |
|  | ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql\_native\_password BY 'Syh@t123.'; // please note here replace the "password" with yours. |
|  |   |
|  | FLUSH PRIVILEGES; |
|  |   |
|  | SELECT user,authentication\_string,plugin,host FROM mysql.user; |
|  | exit |
|  |   |
|  | At this point, your database system is now set up and you can move on to installing PHP, the final component of the LAMP stack. |
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|  | Step 3 — Installing PHP |
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|  | sudo apt install php libapache2-mod-php php-mysql |
|  |   |
|  | In most cases, you will want to modify the way that Apache serves files when a directory is requested. Currently, if a user requests a directory from the server, Apache will first look for a file called index.html. We want to tell the web server to prefer PHP files over others, so make Apache look for an index.php file first. |
|  |  |
|  | sudo nano /etc/apache2/mods-enabled/dir.conf |
|  |   |
|  | Move the PHP index file (highlighted above) to the first position after the DirectoryIndex specification, like this: |
|  |  |
|  | <IfModule mod\_dir.c> |
|  |  DirectoryIndex index.php index.html index.cgi index.pl index.xhtml index.htm |
|  | </IfModule>  |
|  |  |
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|  |  |
|  | sudo systemctl restart apache2 |
|  | sudo systemctl status apache2 |
|  |  |
|  | //Press Q to exit this status output. |
|  |   |
|  | Check PHP Version by entering  |
|  | php –v |
|  |  |
|  | Install the commonly required php modules by using the below commands - do remeber replace the php version number with your by checking the php -v command  |
|  | For Example if the php -v command shows 7.4 version installed then you have to replace the 7.2 with 7.4 in the below command |
|  |   |
|  | sudo apt install php7.4-common php7.4-mysql php7.4-xml php7.4-xmlrpc php7.4-curl php7.4-gd php7.4-imagick php7.4-cli php7.4-dev php7.4-imap php7.4-mbstring php7.4-opcache php7.4-soap php7.4-zip php7.4-intl -y |
|  |   |
|  |  sudo systemctl restart apache2 |
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|  | Step 4 — Testing PHP Processing on your Web Server |
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|  |  sudo nano /var/www/html/info.php |
|  |   |
|  | This will open a blank file. Add the following text, which is valid PHP code, inside the file: |
|  |  <?php |
|  |  phpinfo(); |
|  |  ?> |
|  |  |
|  |   |
|  | The address you will want to visit is: |
|  |  |
|  | http://your\_ip/info.php |
|  |   |
|  | You will get the php info page |
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|  | REMOVE/ Disable the Validate Password component.==================================== ================================sudo mysqlmysql -u root -pUNINSTALL COMPONENT "file://component\_validate\_password";exit |
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|  | PHPMYADMIN INSTALL STEPS BELOW |
|  |  |
|  | Step 1 — Installing phpMyAdmin |
|  |  |
|  |  sudo apt update |
|  |  sudo apt install phpmyadmin php-mbstring php-gettextORsudo apt install phpmyadmin php-mbstring php-zip php-gd php-json php-curl |
|  |  |
|  | Warning: When the prompt appears, “apache2” is highlighted, but not selected. If you do not hit SPACE to select Apache, the installer will not move the necessary files during installation. Hit SPACE, TAB, and then ENTER to select Apache. |
|  |  |
|  |  sudo phpenmod mbstring |
|  |  sudo systemctl restart apache2 |
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|  |  |
|  | http://your\_domain\_or\_IP/phpmyadmin |
|  |  |
|  | AFTER INSTALLING PHPMYADMIN==================================== ================================INSTALL COMPONENT "file://component\_validate\_password"; |
|  | ====================================PERMISSIONS ADJUSTMENT================================ |
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|  | Step 2: Locate the PHP configuration file |
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|  | Determining the right PHP configuration file can be very confusing especially because the ‘php.ini’ file can be located on a different folder depending on the PHP version. |
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|  | The correct php.ini file should be in the Apache directory (e.g. ‘/etc/php/7.1/apache2/php.ini’). This will depend on the version of PHP. For instance, in Php7.2, the configuration file is located on ‘/etc/php/7.2/apache2/php.ini’ |
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|  | Step 3: Edit the Php Configuration file |
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|  | sudo nano /etc/php/7.2/apache2/php.ini |
|  |  |
|  |  |
|  | Standard ‘php.ini’ settings file - Change the INI settings according to the below values: |
|  |  |
|  |  memory\_limit = 128M  |
|  |  upload\_max\_filesize = 50M  |
|  |  post\_max\_size = 50M  |
|  |  max\_execution\_time = 120 |
|  |  |
|  |  sudo service apache2 restart |
|  |   |
|  | Step 4: Verify the php.ini settings |
|  |   |
|  |  Refreshing the info.php page should now show your updated settings. Remember to remove the info.php when you are done changing your PHP configuration. |
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|  | Important Notes - Common Issues during/after PHP Install |
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|  | MOST IMPORTANT |
|  | PERMISSION - YOU SHOULD OWN THE FILE BEFORE YOU CAN EDIT - YOU SHOULD KNOW THE USERNAME OF THE OPERATING SYSTEM. |
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|  | Issues: Website pages not visible, not able to edit the files/folder , permsission denied issue, .htaccess not able to rewrite links. |
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|  | Execute the Comands below to set proper file permissions on Directories and files. |
|  |  |
|  | sudo chown -R ubuntu:root /var/www/html |
|  | sudo find html -type d -exec chmod 775 {} \; |
|  | sudo find html -type f -exec chmod 664 {} \; |
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|  | Enabling mod\_rewrite on apache2 |
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|  | By default, Apache does not allow the use of ‘.htaccess’ file so you will need to edit the configuration of each website’s virtual host file by adding the following code: |
|  |   |
|  |   |
|  |  OWN THE APACHE2 FOLDER FIRST IF YOU WANT TO EDIT VIA FILEZILLA OR FTP - sudo chown -R ubuntu:root /etc/apache2/ - Revert back to root:root chown when done. |
|  |   |
|  |   |
|  |  OR VIA SSH TERMINAL  |
|  |   |
|  |  sudo nano /etc/apache2/apache2.conf |
|  |  |
|  | Change the setting as below : AllowOverride All |
|  |  |
|  |  <Directory /var/www/html> |
|  |  Options Indexes FollowSymLinks MultiViews |
|  |  AllowOverride All |
|  |  Require all granted |
|  |  </Directory> |
|  |  |
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|  | sudo a2enmod rewrite |
|  | sudo service apache2 restart |
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|  | TO VERIFY ANY CONFIG ERRORS OR MISTAKE OR SYSNTAX ERRORS IN APACHE CONFIG FILE, RUN THE BELOW COMMAND - Its should show Syntax OK , if it not then there is some error in config due to which apache will not start. |
|  |  |
|  | sudo service apache2 status (Press Q to exit) |
|  |  |
|  | # apachectl configtest |
|  | Syntax OK |
|  |  |
|  | # apachectl -t |
|  | Syntax OK |
|  |   |

**AWS LINUX**

# install apache

sudo yum update -y

sudo yum install -y httpd httpd-tools mod\_ssl

sudo systemctl start httpd

sudo systemctl enable httpd

# install php 8.0

sudo amazon-linux-extras | grep php

sudo amazon-linux-extras enable php8.0

sudo yum clean metadata

sudo yum install php php-common php-pear -y

sudo yum install php-{cgi,curl,mbstring,gd,mysqlnd,gettext,json,xml,fpm,intl,zip}

# install mysql8.0

sudo rpm -Uvh https://dev.mysql.com/get/mysql80-community-release-el7-3.noarch.rpm

sudo yum install mysql-community-server -y

sudo systemctl enable mysqld

sudo systemctl start mysqld