joe@www-thegummibear:~$ echo "now for a remote application test"
now for a remote application test
joe@www-thegummibear:~$
joe@www-thegummibear:~$ echo "Need to enable the php-mysql module for connectivity to the db"
Need to enable the php-mysql module for connectivity to the db
joe@www-thegummibear:~$
joe@www-thegummibear:~$ sudo apt-cache search mysql | grep php
php-mysql - MySQL module for PHP [default]
php7.0-mysql - MySQL module for PHP
htcheck-php - Simple php interface to database generated by ht://Check
libphp-adodb - ADOdb is a PHP database abstraction layer library
php-db - PHP PEAR Database Abstraction Layer
php-mdb2-driver-mysql - PHP PEAR module to provide a MySQL driver for MDB2
php-zend-db - Zend Framework - Db component
phpmyadmin - MySQL web administration tool
joe@www-thegummibear:~$
joe@www-thegummibear:~$ sudo apt-get install php-mysql
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  linux-headers-4.4.0-31 linux-headers-4.4.0-31-generic
  linux-image-4.4.0-31-generic linux-image-extra-4.4.0-31-generic
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
  php7.0-mysql
The following NEW packages will be installed:
  php-mysql php7.0-mysql
0 upgraded, 2 newly installed, 0 to remove and 43 not upgraded.
Need to get 126 kB of archives.
After this operation, 484 kB of additional disk space will be used.
Do you want to continue? [Y/n] Y
joe@www-thegummibear:~$ sudo service apache2 restart
joe@www-thegummibear:~$
Now to create a 'simple' PHP app to test the connections
You should use one of the document roots that you have already set up in an earlier assignment. OR create a new virtual host.
joe@www-thegummibear:~$ sudo vi /var/www/html/squishy.thegummibear.com/test.php
<?php

echo "connecting to the db.<br/>
"; //mysqli(host, user, password, database)
$db_conn = new mysqli("db.thegummibear.com", "harry", "alohamora", "hogwarts");
if($db_conn-&gt;connect_errno){
    die("Cannot connect, see error number ".$db_conn-&gt;connect_errno);
}

//echo "Choosing sql statement.<br/>
$sql = "SELECT * FROM spells";

//echo "Execute statement";
$result = $db_conn-&gt;query($sql);

//echo "Here are the results.<br/>
while($row = $result-&gt;fetch_assoc()){
    echo "x = " . $row[['x']]. "<br/>
    
echo "Done.<br/>
";

</ww/html/squishy.thegummibear.com/test.php" 20L, 522C written 19,1
connecting to the db.
Choosing sql statement.
Execute statement
Here are the results.
\[x = 4\]
\[x = 55\]
\[x = 44\]
Done.
For any errors you might have, check the log files.
[Fri Oct 07 12:35:06.179831 2016] [mpm_prefork:notice] [pid 7591] AH00163: Apache/2.4.18 (Ubuntu) configured -- resuming normal operations

[ Fri Oct 07 12:35:06.179909 2016] [core:notice] [pid 7591] AH00094: Command line: '/usr/sbin/apache2'

[ Fri Oct 07 12:39:51.766227 2016] [mpm_prefork:notice] [pid 7591] AH00169: caught SIGTERM, shutting down

[ Fri Oct 07 12:39:52.946503 2016] [mpm_prefork:notice] [pid 7779] AH00163: Apache/2.4.18 (Ubuntu) configured -- resuming normal operations

[ Fri Oct 07 12:39:52.946560 2016] [core:notice] [pid 7779] AH00094: Command line: '/usr/sbin/apache2'

[ Fri Oct 07 20:46:52.366915 2016] [:error] [pid 7786] [client 189.219.86.55:50787] script '/var/www/html/command.php' not found or unable to stat


[ Fri Oct 07 21:12:37.508016 2016] [mpm_prefork:notice] [pid 7779] AH00169: caught SIGTERM, shutting down

[ Fri Oct 07 21:12:38.433540 2016] [mpm_prefork:notice] [pid 10854] AH00163: Apache/2.4.18 (Ubuntu) configured -- resuming normal operations

[ Fri Oct 07 21:12:38.433594 2016] [core:notice] [pid 10854] AH00094: Command line: '/usr/sbin/apache2'

That was just an example error, hopefully you don't have that one ;-)"

Don't just give up if php doesn't load, take your time, review the slides, and CHECK THE LOGS