```
root@www-thegummibear:~# echo "now for a remote application test"
now for a remote application test
root@www-thegummibear:~#
```
root@www-the gumibear:~ apt install php-mysql
root@www-thegummibear:~# echo "That package will enable php and mysql to communicate"
That package will enable php and mysql to communicate
root@www-thegummibear:~# echo "Create a simple php test script or download mine from downloads folder"
Create a simple php test script or download mine from downloads folder
root@www-thegummibear:~#
root@www-thegummibear:/var/www/html/twix.thegummibear.com# echo "Use an existing virtual host or create a new one"
Use an existing virtual host or create a new one
root@www-thegummibear:/var/www/html/twix.thegummibear.com/
root@www-thegummibear:/var/www/html/twix.thegummibear.com#
root@www-thegummibear:/var/www/html/twix.thegummibear.com# vi sample.php
<?php
$servername = "db.thegumibear.com";
$username = "hermine";
$password = "Huggles";
$database = "hogwarts";

// Create connection
$conn = new mysqli($servername, $username, $password, $database);
// Check connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

echo "Choosing the sql statement.<br/>";
$sql = "SELECT * FROM spells";
$result = $conn->query($sql);

if ($result->num_rows > 0) {
    // output data of each row
    while($row = $result->fetch_assoc()) {
        echo "spell number: " . $row["x"] . "<br/>";
    }
} else {
    echo "0 results";
    $conn->close();
}
Connection failed: The server requested authentication method unknown to the client
root@www-thegummibear:/var/www/html/twix.thegummibear.com# echo "that is bad"
that is bad

root@www-thegummibear:/var/www/html/twix.thegummibear.com# echo "You can also test your script like this"
You can also test your script like this

root@www-thegummibear:/var/www/html/twix.thegummibear.com# php sample.php

PHP Warning: mysql::__construct(): The server requested authentication method unknown to the client (caching_sha2_password) in /var/www/html/twix.thegummibear.com/sample.php on line 8
Connection failed: The server requested authentication method unknown to the client

root@www-thegummibear:/var/www/html/twix.thegummibear.com#
root@www-thegummibear:/var/www/html/twix.thegummibear.com# echo "To fix this error, we have to add our mysql user in a special way"
To fix this error, we have to add our mysql user in a special way
root@www-thegummibear:/var/www/html/twix.thegummibear.com#
mysql> create user 'hermoine'@'www.thegummibear.com' identified with mysql_native_password by 'Muggles999';
Query OK, 0 rows affected (0.02 sec)
mysql> create user 'hermoine'@'www.thegummibear.com' identified with mysql_native_password by 'Muggles99?';
Query OK, 0 rows affected (0.02 sec)

mysql> grant all privileges on hogwarts.* to 'hermoine'@'www.thegummibear.com';
Query OK, 0 rows affected (0.01 sec)

mysql>
Choosing the sql statement.
spell number: 1
spell number: 55
spell number: 595
spell number: 217
Choosing the sql statement.<br/>spell number: 1<br/>spell number: 60<br/>spell number: 595<br/>spell number: 217
root@www-thegummibear:/var/www/html/twix.thegummibear.com# echo "Check for errors in /var/log/apache2/error.log"
Check for errors in /var/log/apache2/error.log
root@www-thegummibear:/var/www/html/twix.thegummibear.com#
joe@db-2021:~/etc/mysql$ sudo less /var/log/mysql/error.log
joe@db-2021:~/etc/mysql$ echo "Also here for your database"
Also here for your database