

Linux Challenge 2 - Solution

Solution:

The permissions on /var/www/html do not allow the apache user to access the documents inside the directory in order to serve them up as web pages.

```
sudo chmod 755 /var/www/html
```

After the permissions were corrected, you will get another error. This is because MariaDB was not running. Start MariaDB.

```
sudo systemctl start mariadb
```

Knowing what the applications you support rely on can help you narrow down problems quickly. The Kanboard web application is a LAMP based application, so we should make sure that Apache, PHP, and MySQL are all working properly.

Hints:

Here are some things you could have checked to discover this problem.

```
# Look at the web server log files
sudo tail /var/log/httpd/error_log

# That would have given you a clue to start looking at permissions.
ls -l /var/www/html/index.php
ls -l /var/www/html
ls -l /var/www

# Look at the system logs
sudo tail /var/log/messages          # OR: sudo less /var/log/messages

# Check the status of the database service
sudo systemctl is-active mariadb
sudo systemctl status mariadb

# Check for mariadb processes
ps -ef | grep mysql
ps -ef | grep mariadb
```

In order to correct the permission issue you could have looked at another server running the LAMP stack and compare the permissions. Being able to determine the difference between something that is working and something that is not can be a huge help when troubleshooting issues.