

# Assignment II (Just Lab 9) – Preventing Web Application Vulnerabilities

CPS 499-02/592-02

Software/Language Based Security

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## Task 0: Web Administration – Preparation

### a. Database Setup

#### i. Imported the database and created a new user

```
[11/24/20]seed@VM:~/.../www.myblog.com$ mysql -u krimpenfortel -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 6
Server version: 5.7.19-0ubuntu0.16.04.1 (Ubuntu)

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| blog      |
+-----+
2 rows in set (0.00 sec)
```

**Figure 1: The database**

#### ii. Demonstration

```
<?php

$dblink = mysqli_connect("localhost", "krimpenfortel", "bobgeorge", "blog");
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}

?>
```

**Figure 2: classes/db.php**

## b. Deployment

### iii. Using IP Address

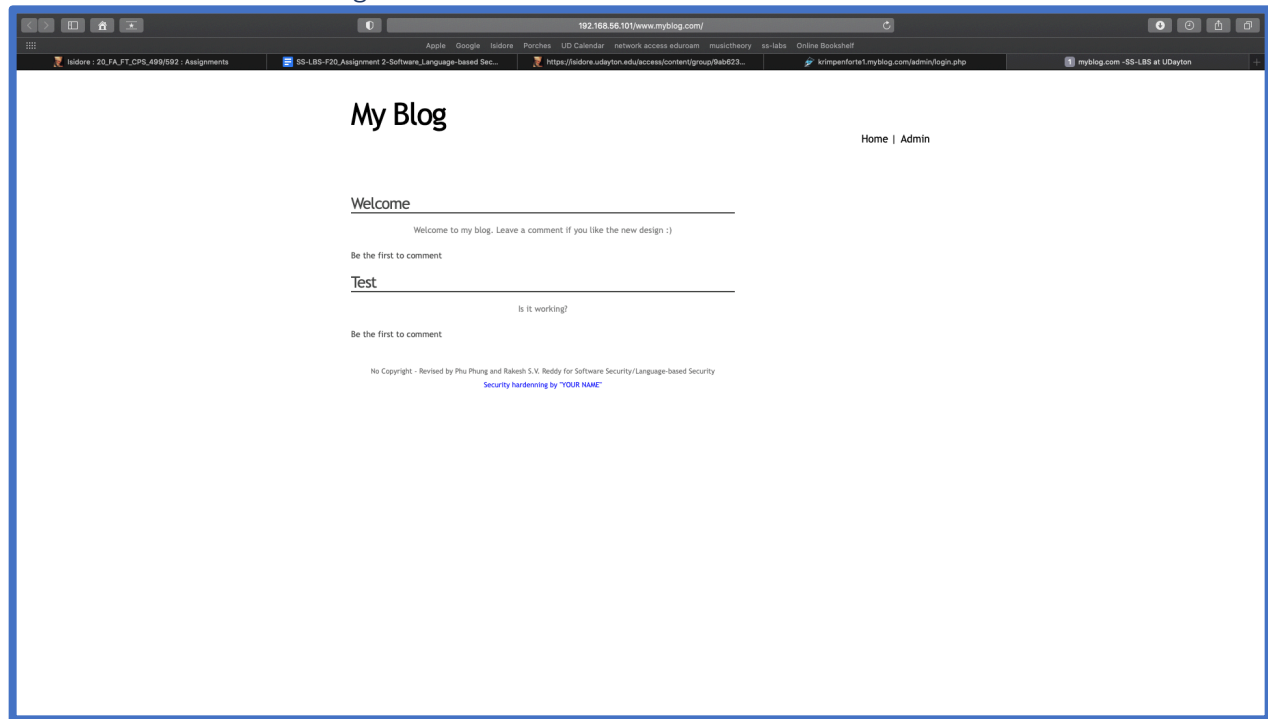


Figure 3: <http://192.168.56.101/www.myblog.com/>

- iv. With local domain name
1. SEEDVM

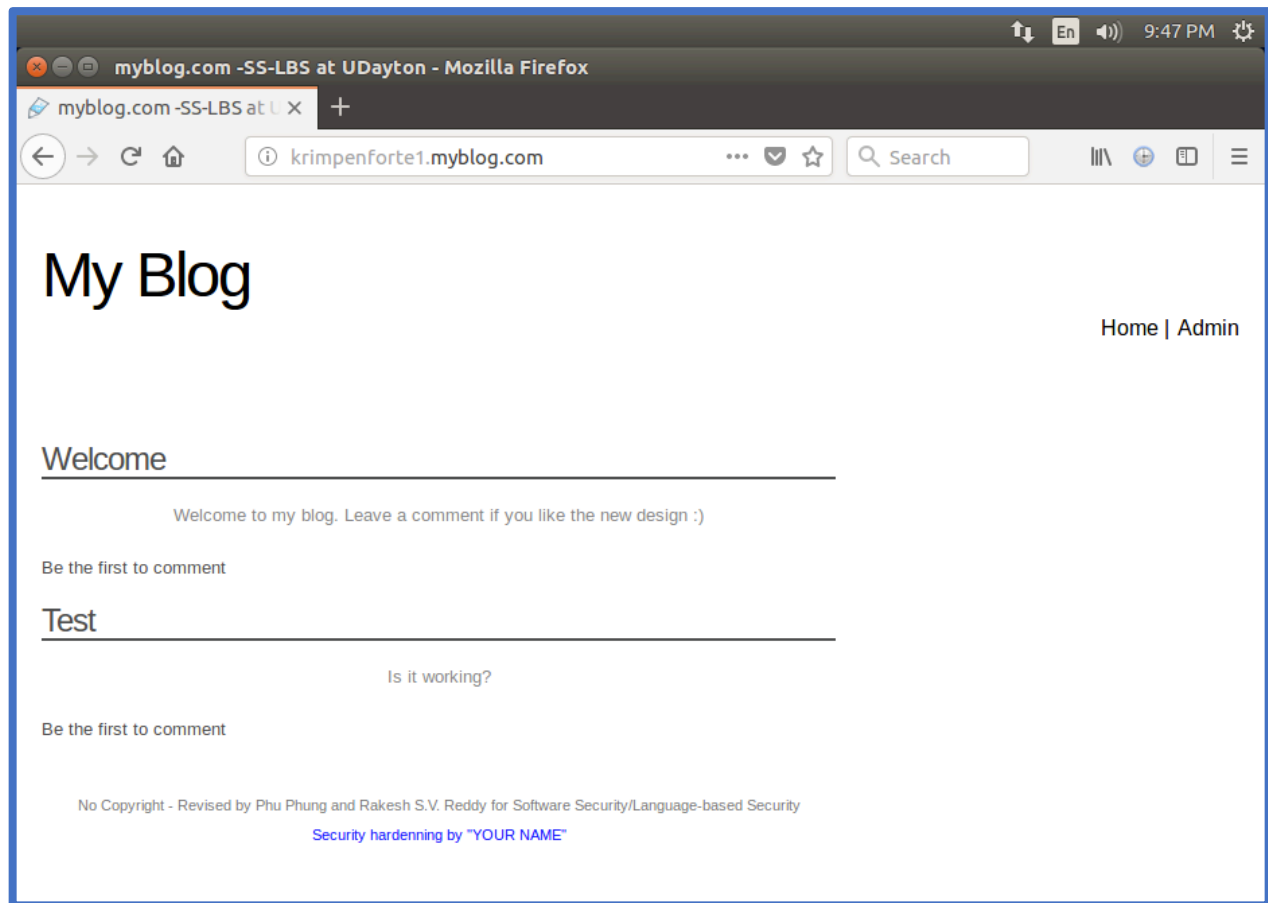


Figure 4: <http://krimpenforte1.myblog.com/> on the VM

## 2. Personal Computer

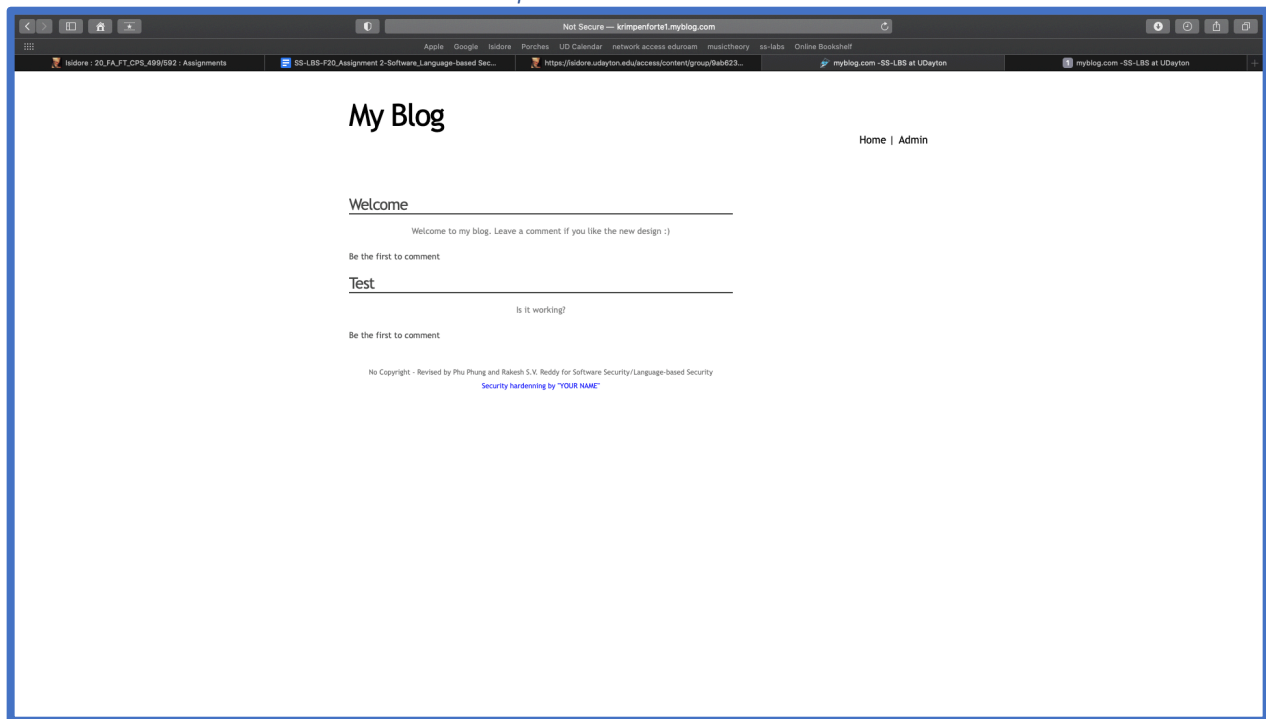


Figure 5: <http://krimpenforte1.myblog.com/> on the Mac

### c. Misconfiguration Security

#### v. Deleted the database file (blog.sql)

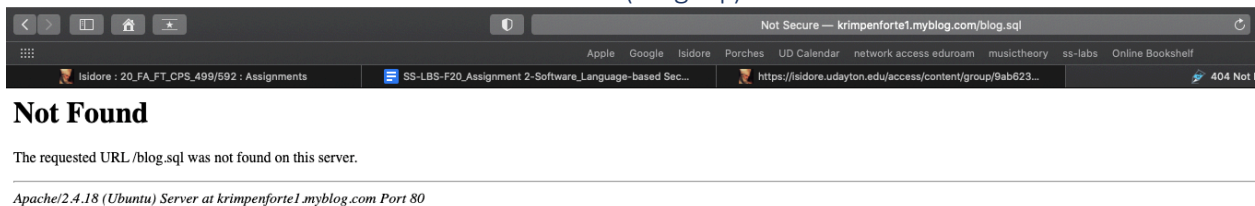


Figure 6: <http://krimpenforte1.myblog.com/blog.sql> not found

#### vi. Changed default username and password

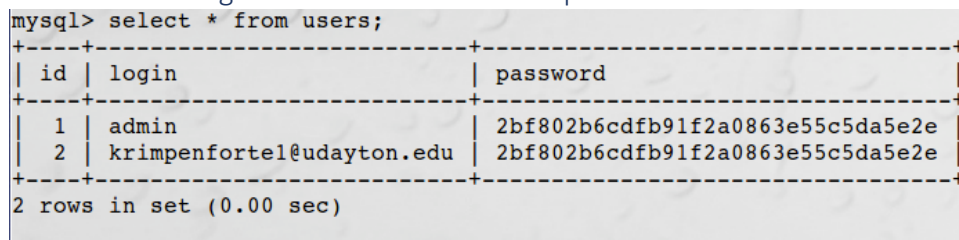


Figure 7: Users available

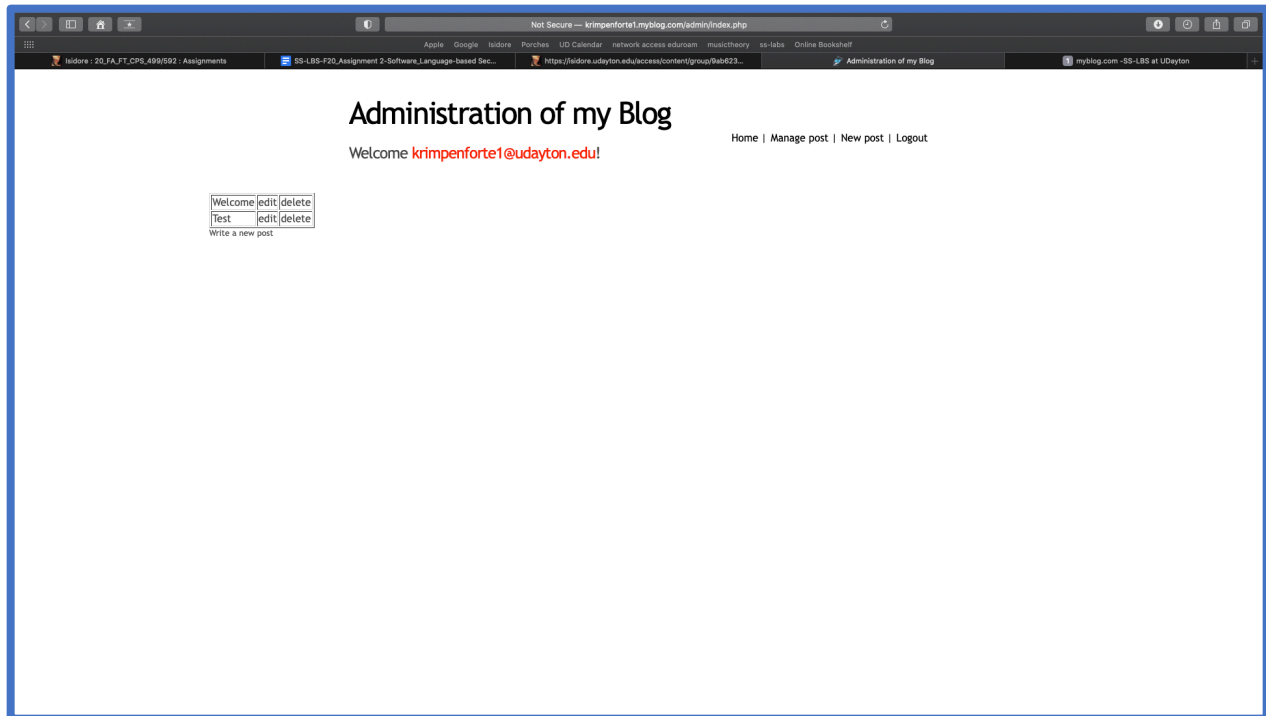


Figure 8: can log in with [krimpenforte1@udayton.edu](mailto:krimpenforte1@udayton.edu)

d. HTTPS Setup

vii. Certificate was made

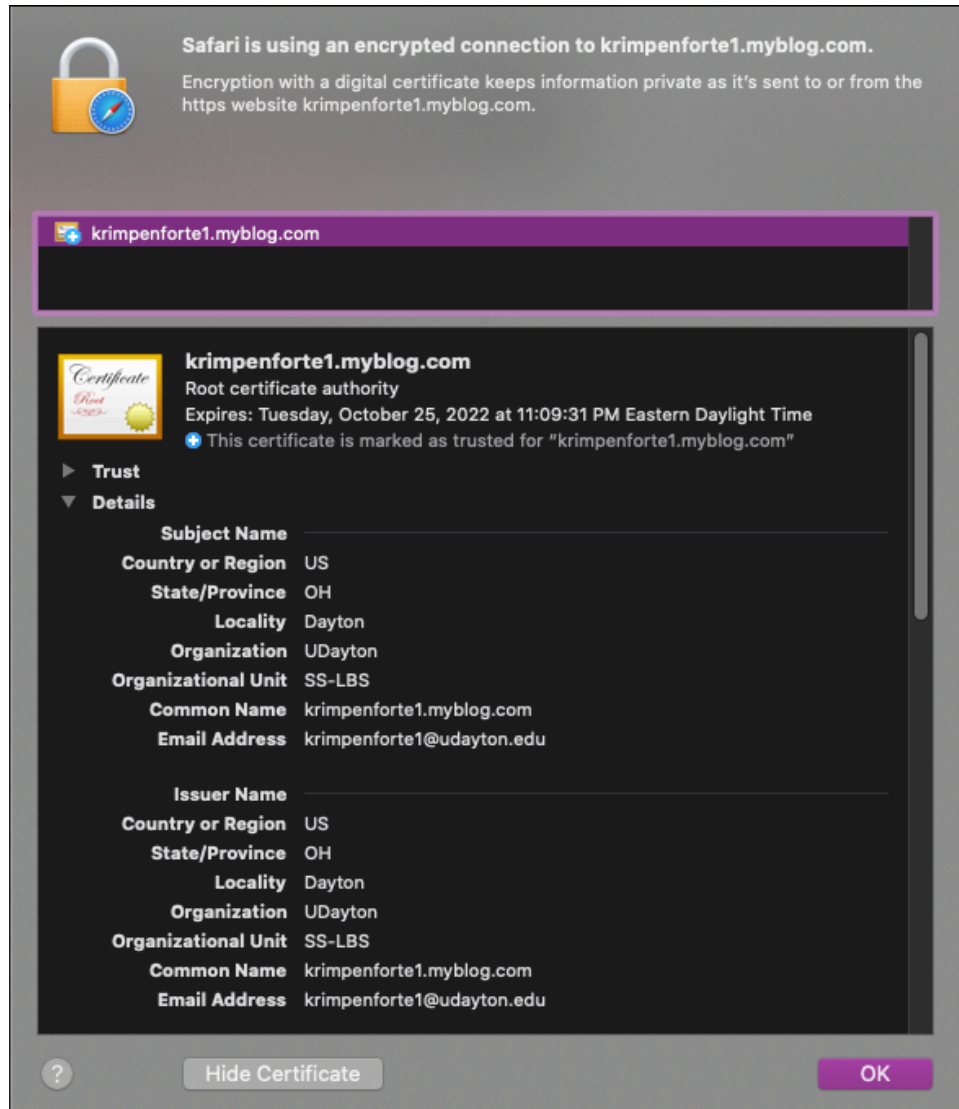


Figure 9: Certificate Details

viii. Deployment was done

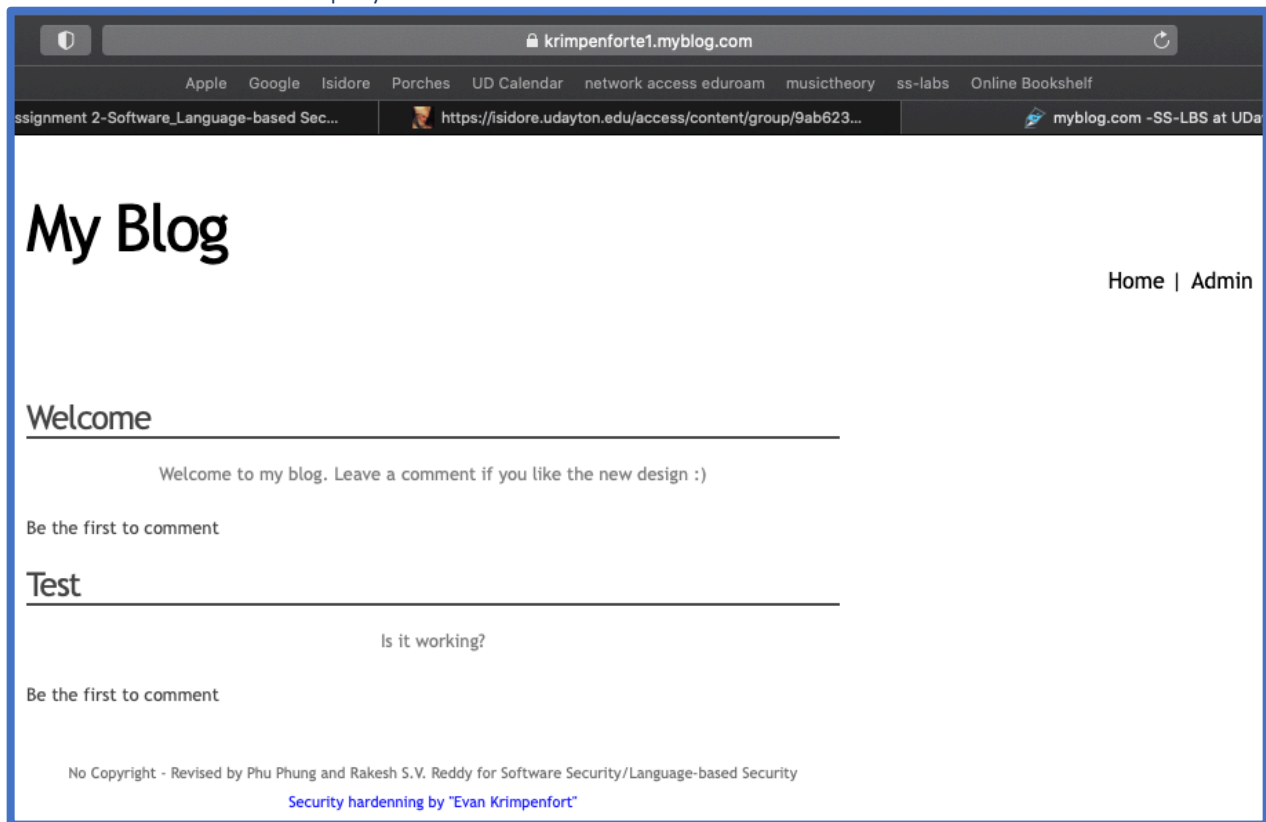


Figure 10: Site has https and the footer has been changed

e. Repository

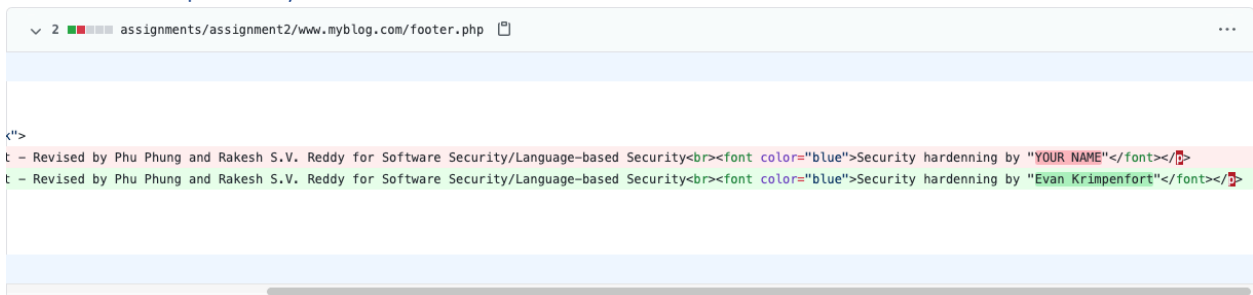


Figure 11: Footer was changed