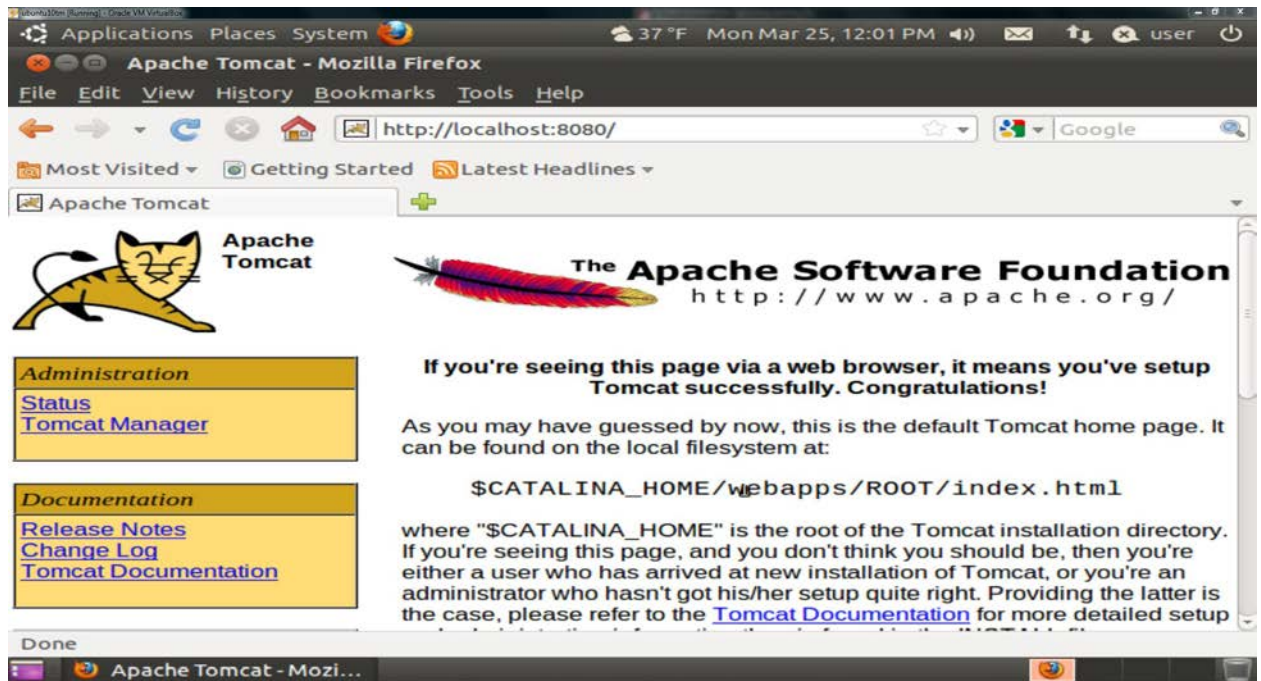


## Lab #7: Threat Assessment

1. Paste a screenshot of the Apache Tomcat welcome page from the browser.



2. What is the HTTP command used in the first transaction between the browser and WebGoat?

GET http://localhost:8080/WebGoat

3. What is the HTTP version?

1.1

4. The value for person is

Erich

5. The value for submit is

Go!

**6. Explain the functions of the POST command with the two parameters.**

Requests server to accept enclosed data for later storage.

**7. What is the administrator's user name?**

webgoat.

**8. What is the password?**

webgoat.

**9. Describe one method to improve the login security here.**

Choose a more specific question, like "What is the name of your 3<sup>rd</sup> grade teacher?"

**10. Explain what you have learned from this exercise.**

With simple forgot password authentication questions, accounts are easily exploitable.

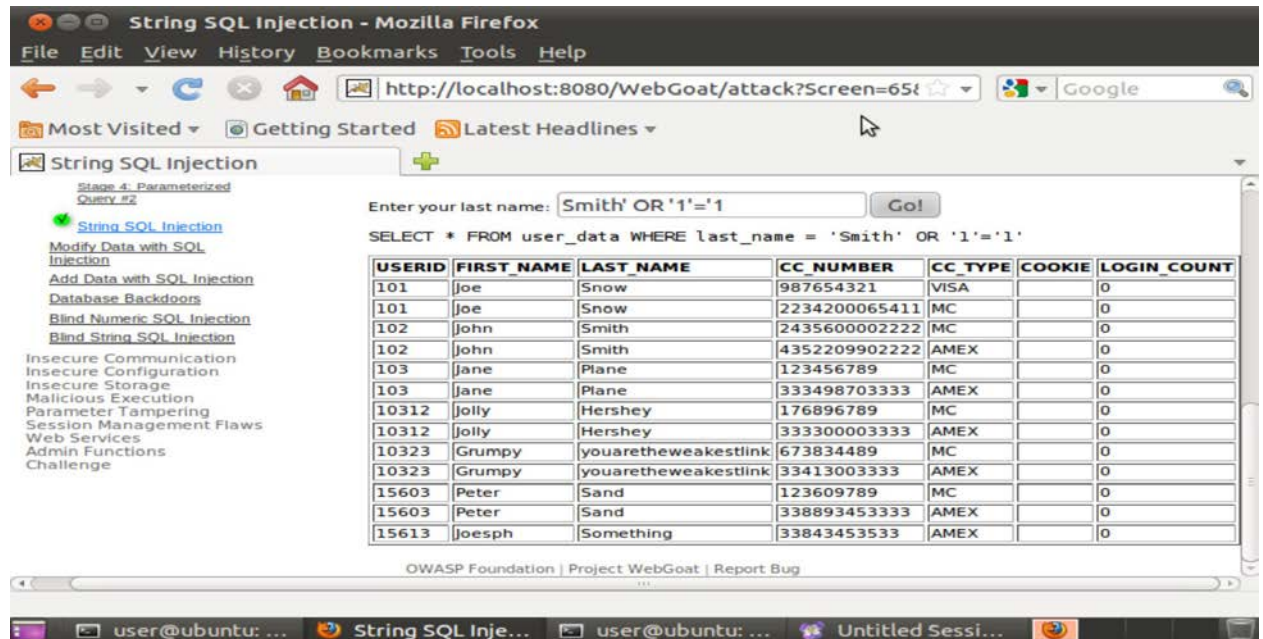
**11. How many entries have you obtained?**

2.

**12. Are they all information regarding the user "Smith"?**

Yes, they all pertain to the user "John Smith".

13. Paste a screenshot of your results.



14. What is the security implication of your results?

Because the statement  $1=1$  is always true, the server will return all entries in the database.

15. Describe a method to fix the vulnerability in this exercise.

By eliminating “=” in the search field, a user will no longer be able to make searches that are universally true.

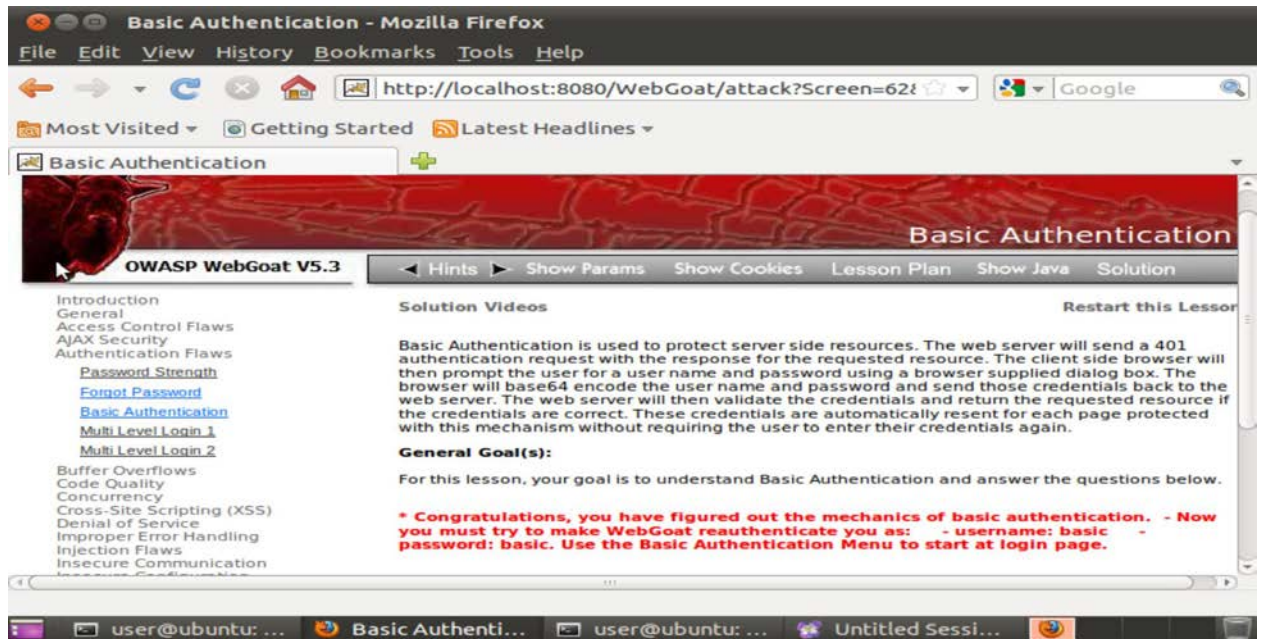
16. Write down the code here.

Z3Vlc3Q6Z3Vlc3Q=

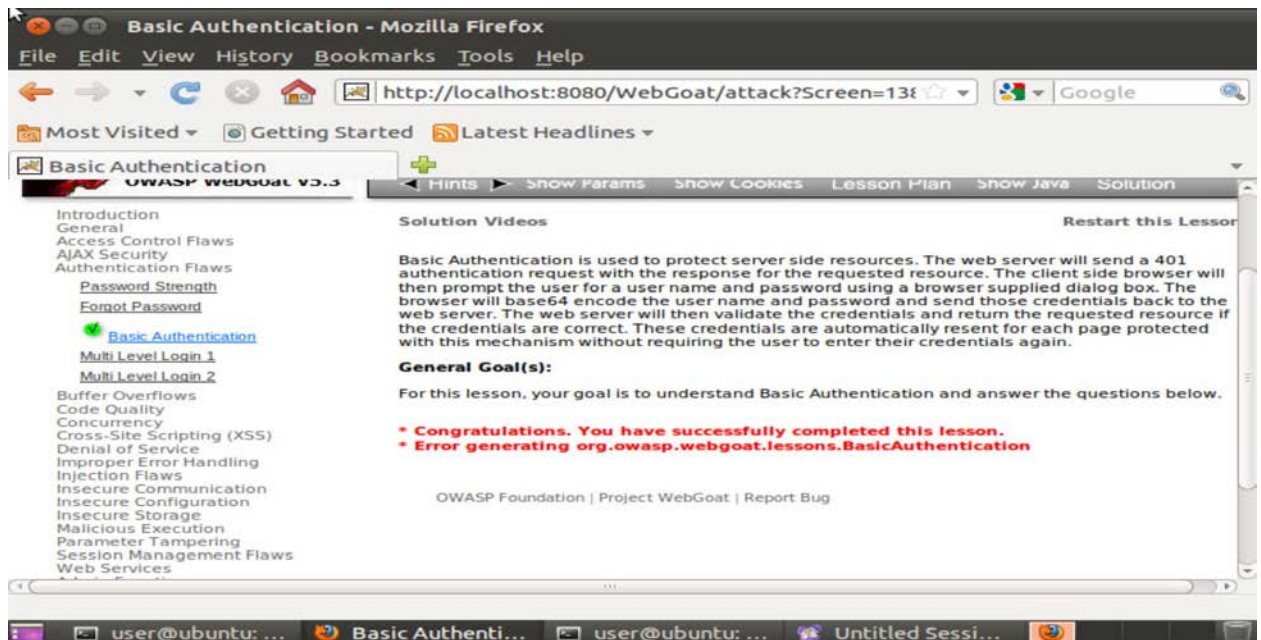
17. What is the plain text value of the authentication header that you have just decoded?

guest:guest

18. Once you have successfully finished this exercise, paste a screen shot below.



19. Paste a screen shot below that shows you have completed the Basic Authentication exercise.



**20. Describe what you have learned from this exercise.**

I learned how to use a proxy server, as well as some exploits a proxy server can enable a user to implement. I found changing some of the server requests very interesting, did not think that was possible!