# SSL Server and Client Tests

Time required: 15 minutes

# Lab Description

**Note:** It is not unusual for websites to change the location of files. If the URL above no longer functions, open a search engine and search for “Qualys SSL Server Test”.

In this project, you will use online tests to determine the security of web servers and your local web browser.

**NOTE:** Even though SSL (Secure Socket Layers) is listed in the web address, SSL is no longer used. TLS (Transport Layer Security) is the current standard.

1. Research **TLS**. Provide a minimum 50 word analysis.

Click or tap here to enter text.

1. Go to <https://www.ssllabs.com/ssltest>
2. Type in your bank’s website.
3. Note the grade given for this site.
4. **Insert a screenshot:**

Click or tap here to enter text.

1. Under Summary note the Overall Rating along with the scores for Certificate, Protocol Support, Key Exchange, and Cipher Strength, which make up the cipher suite.
2. If this site did not receive an Overall Rating of A under Summary, you will see the reasons listed. Read through these.
3. **Would you agree? Why?**

Click or tap here to enter text.

1. Scroll down through the document and read through the Authentication information. Note the information supplied regarding the digital certificates.
2. Scroll down to Configuration. Note the list of protocols supported and not supported.
3. **If this site was to increase its security, which protocols should it no longer support? Why?**

Click or tap here to enter text.

1. Under Cipher Suites interpret the suites listed. Notice that they are given in server-preferred order.
2. Under Handshake Simulation select the web browser and operating system that you are using or is similar to what you are using. Read through the capabilities of this client interacting with this web server. Note particularly the order of preference of the cipher suites. Click the browser’s back button when finished.
3. Scroll to the top of the page, then click Scan Another >>.
4. This time select one of the Recent Worst-Rated sites. As with the previous excellent example, now review the Summary, Authentication, Configuration, Cipher Suites, and Handshake Simulation.
5. **Would you agree with this site’s score? Why?**

Click or tap here to enter text.

1. Scan the web site of your school, bank, or work URL and generate a report. **What score did it receive?**

Click or tap here to enter text.

1. Review the Summary, Authentication, Configuration, Cipher Suites, and Handshake Simulation.
2. **Would you agree with this site’s score? Why?**

Click or tap here to enter text.

1. **Make a list of the vulnerabilities that you believe should be addressed in order of priority.**

Click or tap here to enter text.

1. Click Projects.

# Lab.wncc.edu

**lab.wncc.edu** is the domain for the D1 classroom. It is connected to the DMZ on the FortiGate firewall.

1. What is a DMZ when referring to firewalls? What is it’s purpose?

Click or tap here to enter text.

1. Go to <https://www.ssllabs.com/ssltest>
2. Test **lab.wncc.edu**
3. Insert a screenshot of your test.

Click or tap here to enter text.

# Web Browser Test

Test the capabilities of your web browser.

1. Go to <https://www.ssllabs.com/ssltest/viewMyClient.html>
2. Review the capabilities of your web browser.
3. **Insert a screenshot:**

Click or tap here to enter text.

1. Close this web browser.
2. Open a different web browser on this computer or on another computer.
3. Go to <https://www.ssllabs.com/ssltest/viewMyClient.html>
4. Compare the two scores.
5. **From a security perspective, which browser is better? Why?**

Click or tap here to enter text.

1. Close all windows.

## Assignment Submission

Attach this completed document to the assignment in Blackboard.