# Digital Certificates

Time required: 30 minutes

## Lab Description

**NOTE:** In this project, view digital certificate information using Firefox.

1. Use your web browser to go to www.google.com.
2. Note that although you did not enter https://, nevertheless Google created a secure HTTPS connection.
3. **Why would it do that?**

Click or tap here to enter text.

1. Click the View Site Information icon in the browser address bar. A close-up of a website

   AI-generated content may be incorrect.
2. Click **Connection is Secure** 🡪 **Certificate is Valid**.
3. **Insert a screenshot of the certificate information:**

Click or tap here to enter text.

1. View the expiration date of this certificate.
2. View the Public key to view the public key associated with this digital certificate.
3. **Why is this site not concerned with distributing this key?**

Click or tap here to enter text.

1. **How does embedding the public key in a digital certificate protect it from impersonators?**

Click or tap here to enter text.

1. View **Issued By**. Note the CN and Organization that supplies the certificate.
2. Go to <https://lab.wncc.net> Note the CN and Organization that supplies the certificate.
3. Go to <https://www.wncc.edu>. Note the CN and Organization that supplies the certificate.
4. Are any of the Certificate providers the same?

Click or tap here to enter text.

1. Go to <https://letsencrypt.org/>
2. Describe the purpose of Let’s Encrypt.

Click or tap here to enter text.

1. Go to your bank’s web site.
2. Click the three vertical buttons at the far edge of the address bar.
3. Click **More tools** 🡪 **Developer tools** 🡪 **Security tab**. (If the Security tab does not appear, click the More tabs (>>) button to display more tabs.)
4. Read the information under Security overview.
5. What encryption does this site use?

Click or tap here to enter text.

1. Close all windows.

## Assignment Submission

Attach this completed document to the assignment in Blackboard.