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CS-305-H7291

Coding Assignment: Certificate Generation

* Why would you want to use a CA for security?  
  A CA or a Certificate Authority is an organization that ensures that a website is authentic. A Ca verifies connections to ensure that you’re communicating with a trusted source by verifying a SSL/TLS certificate. A SSL Secure Sockets Layer or TLS, Transport Layer Security, allows websites to communicate using encryption and a public key. This also identifies the issuer or certificate holder. Without using a SSL/TSL when sending personal information could be dangerous as unauthorized parties could potentially access your personal information send in a request.
* What are the advantages of using a CA?  
  The advantages to using a Certificate Authority are enormous. They provide a trusted verification that you’re connecting with an authentic source. A CA additionally provides security to the data being transmitted between sources. A CA can provide information about revoked certificates as well letting users know about untrustworthy sources as well.
* **screenshot of the certificate information form filled out with all fields completed**Text

  Description automatically generated
* **screenshot of the printout of the server.cer file**

Text

Description automatically generated

**Resources**

Crane, C. (2021, June 10). *What Is a Certificate Authority (CA) and What Do They Do?* Hashed Out by The SSL StoreTM. https://www.thesslstore.com/blog/what-is-a-certificate-authority-ca-and-what-do-they-do/#but-just-how-many-cas-are-there

IBM. (n.d.). *Benefits of Self-signed and CA-signed Digital Certificates*. IBM.Com. Retrieved October 2, 2021, from https://www.ibm.com/docs/en/b2b-integrator/5.2?topic=certficates-benefits-self-signed-ca-signed-digital-certificates

SSLSTORE. (n.d.). *What is an SSL/TLS Certificate? Here’s a Quick Overview*. SSLStore.Com. Retrieved October 2, 2021, from https://www.thesslstore.com/new-to-ssl/what-is-ssl-tls.aspx