5-2 Coding Assignment: Certification Generation

SNHU CS-305

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A company or organization that is used to validate identities that include email addresses, websites, individual people, and companies is called a certificate authority. They provide encryption for secure communication if one is using an insecure network. They provide integrity of signed documents with the certificate so they cannot be altered during transit, and they authenticate by serving as a credential to validate identities. CAs use public and private keys that allow for encrypted communications between two parties.

The advantages of using a certificate authority are they are a secure way to validate the identity of different entities by using cryptography. This provides security for the client because they know they can trust that the entity they are working with is secure.

**Screenshot (Certificate information form)**

**A computer screen with white text

Description automatically generated**

**Screenshot (printout of server.cer file)**

**A computer screen with white text

Description automatically generated**

References

* Support Team, S. (2024, January 5). *What is a Certificate Authority (CA)?* SSL. Retrieved April 6, 2024, from <https://www.ssl.com/article/what-is-a-certificate-authority-ca/#:~:text=A%20certificate%20authority%20is%20a%20company%20or%20organization,issuance%20of%20electronic%20documents%20known%20as%20digital%20certificates>.
* Awati, R. (n.d.). *Certificate authority*. Retrieved April 6, 2024, from <https://www.techtarget.com/searchsecurity/definition/certificate-authority#:~:text=As%20an%20integral%20part%20of%20PKI%2C%20a%20CA,validate%20their%20identities%3B%20and%20maintains%20certificate%20revocation%20lists>.