Souheren New Hampshire University

CS – 305 – R1861

5-2 Certificate Generation

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1. **Why would you want to use a CA for security?**

Certificate Authorities are trusted third-party organizations that vouch for the authenticity of digital certificates. Using a CA for security is important for several reasons:

* + **Trustworthiness:** CAs verify the identity of certificate holders, ensuring that the entity owning the certificate is legitimate. This helps prevent impersonation and man-in-the-middle attacks.
  + **Data Integrity:** CAs sign certificates, which helps ensure that the certificate hasn't been tampered with during transmission. This safeguards the integrity of encrypted data.
  + **Widespread Trust:** Certificates issued by well-known CAs are recognized and trusted by most web browsers and applications. This promotes trust and security in online transactions.

1. **What are the advantages of using a CA?**

The advantages of using a CA include:

* + **Global Trust:** CAs are globally recognized, making it easier to establish trust with users and clients worldwide.
  + **Security:** CAs follow strict security protocols to verify the identity of certificate applicants, reducing the risk of fraudulent certificates.
  + **Simplified Management:** CAs provide tools and services for certificate management, making it easier to handle certificate lifecycles.
  + **Browser Compatibility:** Certificates issued by reputable CAs are automatically trusted by web browsers, ensuring seamless user experiences.

I forgot to take a screenshot of the filled out form. Before closing out terminal.

A computer screen shot of a black screen

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