Bryce Jensen
CS-305-H7005
5-2 Coding Assignment: Certificate Generation
11/25/23

Why would you want to use a CA for security?

In short, you would want to use a CA for security so it can't be faked. In longer terms, certificate authorities (CAs) are what make the internet secure and trustworthy. They sign digital certificates to show that a website's identity is who they say they are. This helps prevent phishing attempts and other malicious web fraud attempts. A third party verifying the authenticity of the site is the most secure way of verification.

What are the advantages of using a CA?

There are advantages to using a CA as opposed to other options like self-signed certificates or the Web of Trust option. Some of these include trusted authentication, the encryption they provide, and the standards they must uphold. Self-signed certificates still happen, but without a trusted certificate you get that "This site's security certificate is not trusted!" message. While you know that your site is trusted, others don't. It is the same kind of thing with Web of Trust Certificates, others may sign off on a certificate, but you might not trust those people. However, with enough people signing off on the certificate, that trust may begin to grow. I still think that a CA is the better option because of the benefits they offer.

Screenshot below.

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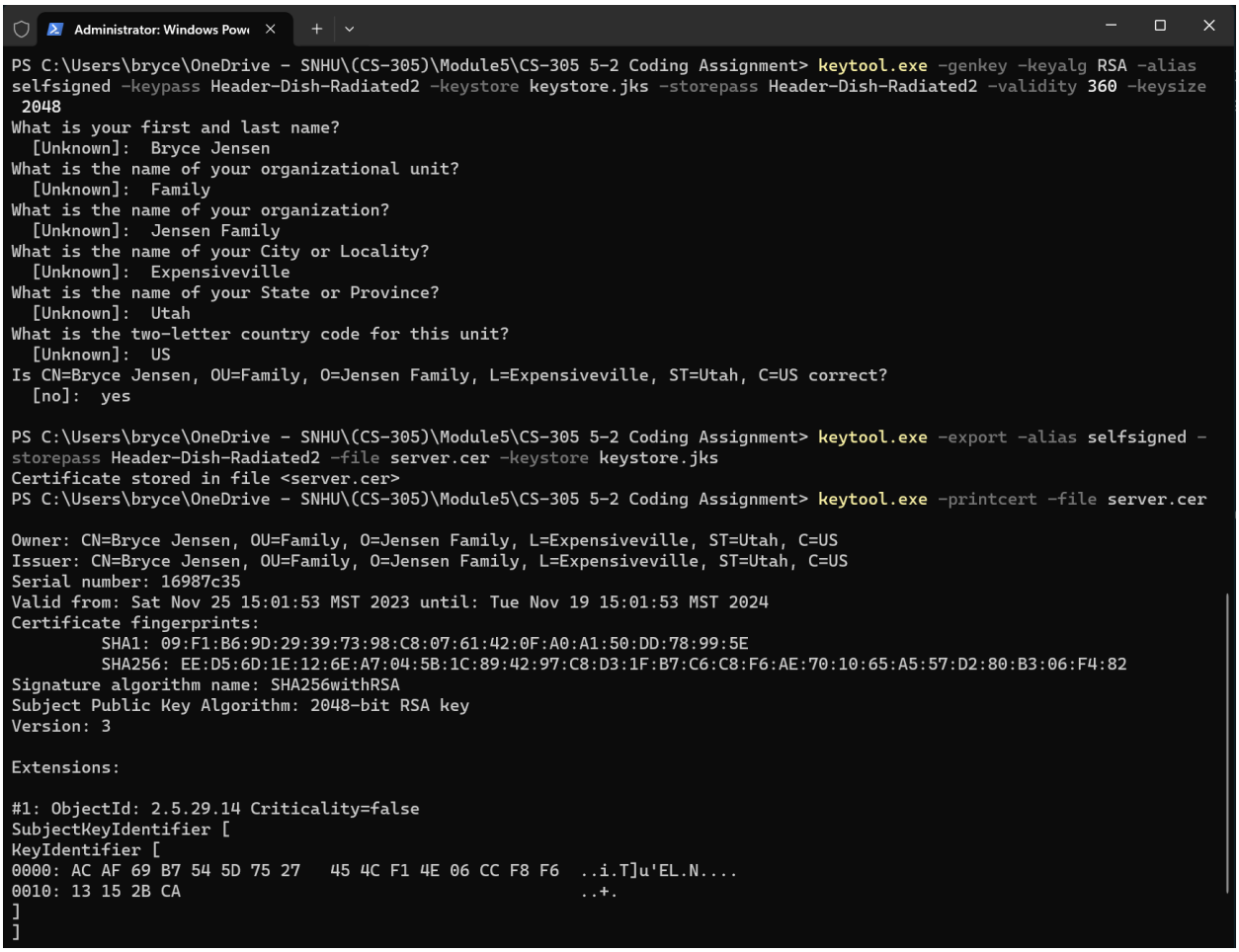

Screenshot of both the certificate information form filled out with all fields completed and the screenshot of the printout of the server.cer file in one.