## OpenSSL Signature Example

Generate the Private Key

openssl genrsa -out privkey.pem 1024

Generate the Pubic Key from the Private Key

openssl rsa -in privkey.pem -outform PEM -pubout -out pubkey.pem

Inspect the Public Key to find the Modulus.

openssl rsa –pubin –in pubkey.pem –text –noout

Insert the Modulus into a text file in hex without a delimiter

nano modulus.txt

Sign a digest of the modulus with the Private Key and SHA256

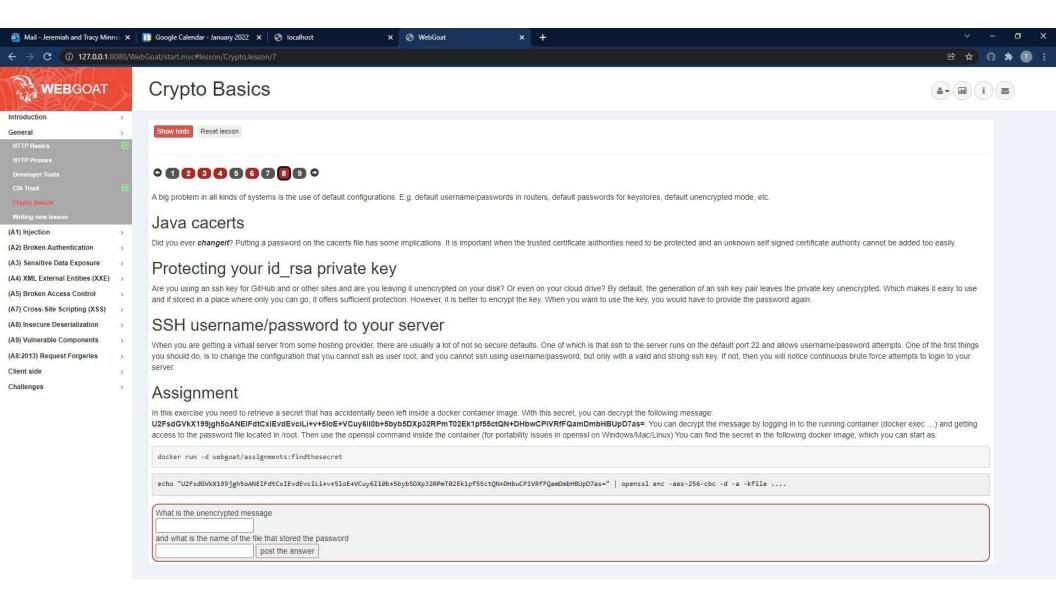
openssl dgst -sha256 -sign privkey.pem -out signature.bin modulus.txt

Convert the signature to base64 so you can see it (not required)

openssl base64 -in signature.bin -out signature.base64

Verify the signature using the Public Key, the Signature (in binary), and the modulus.txt file

openssl dgst -sha256 -verify pubkey.pem -signature signature.bin modulus.txt



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## Lesson 8 Assignment is beyond the scope of Security+

However...there are two methods of attacking the problem, one is to open up a docker with user 0 privileges (0 = root). Then you can get straight to the secret folder.

The other method is to take advantage of the fact that you have access to CMD prompts outside of the docker. So, you can cp the /etc/passwd folder from the running container to the local machine, change the permissions from 1000:1000 to 0:0 (root) for webgoat and the cp the file back into the container. Then just start up the container as webgoat (using the container ID that is either the numbers that show up when you start the original container or the noun\_name that is listed in the docker dashboard. Once you are in the container as webgoat you have root permissions and can continue with the assignment.